



Regional Express Rail Progress Update

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Metrolinx Board of Directors Meeting
September 22, 2015

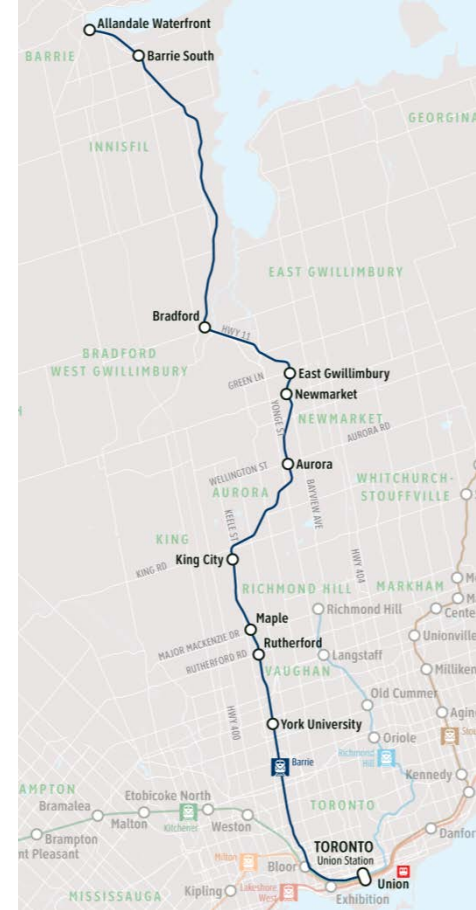
Executive Summary

- The GO Regional Express Rail (RER) continues with advancing preliminary and detailed designs, as well as construction activities and the introduction of new services.
- Environmental Assessments continue to progress on:
 - Barrie corridor for double track, new Caledonia station, and Davenport Rail-Rail grade separation.
 - Lakeshore East for corridor expansion between Guildwood and Pickering GO stations.
- July 2015 - West Harbour GO station in Hamilton on the Lakeshore West corridor went into service and was in use for the Pan/Parapan American games.
- August 2015 -The contract for the GO Transit Train Control System was awarded.
- Summer 2015 - Design development for the East Rail Maintenance Facility (ERMF) project was completed and submitted. Mobilization and foundation work are also underway.
- September 2015 – 14 new midday trains began service between Mount Pleasant GO Station and Union Station.

Barrie Corridor

Environmental Assessment & Design Progress:

- EA for double tracking underway and approval anticipated December 2016.
- New Caledonia GO station (intersecting with the Eglinton Crosstown) EA and design is underway with the first public meeting scheduled in November 2015.
- Davenport Grade Separation - Residents Panel recommendations are being reviewed and the timing of the EA to be determined.
- Working closely with York Region on their EA for the widening of Rutherford Road.



Barrie Corridor

- Design for station modifications at Aurora, King City, Maple, and Rutherford to facilitate double track and GO RER service is at 30% completion. Tunnel, elevator and stair enclosure construction will commence in Spring 2016.

Implementation & Construction Progress:

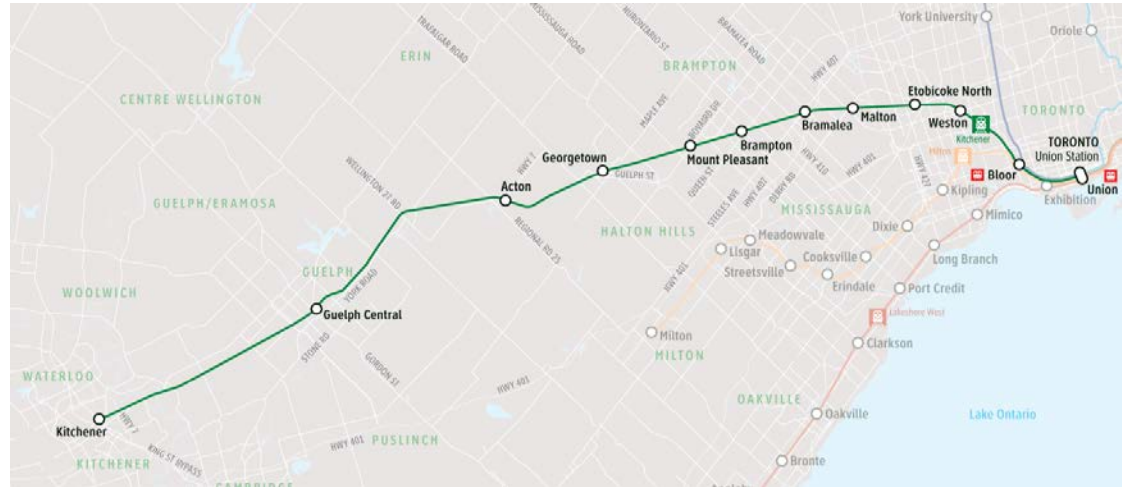
- Grading work and passing track construction underway from Steeles Avenue to Rutherford Road.
- Grade separation prioritization - Consultant has been retained to develop and complete prioritization criteria by the end of September.
- New Downsview Park station is integrated with the new TTC subway station and is under construction, with opening in Winter 2017/18.



Kitchener Corridor

EA & Design Progress:

- Design of the Highway 401 structure and Etobicoke North GO station is underway, with construction expected to commence in 2017.
- Dialogue underway with CN concerning additional infrastructure requirements for RER between Bramalea and Georgetown GO stations.
- EA approved for 4th track required for RER.
- Consultant being procured for EA and design of a layover near Mount Pleasant GO station.
- Working with City of Toronto for SmartTrack Feasibility Study options for the Eglinton West segment and its integration with RER.



Kitchener Corridor

Implementation & Construction Progress:

- Georgetown South Program Wrap-up:
 - All projects have reached substantial completion, except the Noise Wall, Fencing and Landscaping contract, which will be completed in Spring 2016.
 - Remaining works include minor road work at Denison Road and Carlingview Avenue, completion of the John Street (Weston) pedestrian bridge, Bloor, Weston and Etobicoke North Station improvements which will be completed by December, 2015.
- Track improvements at Georgetown GO station by CN to improve GO train access to the Georgetown GO station.
- 14 new midday, two-way GO trains launched on September 8th, between Mount Pleasant GO Station and Union Station

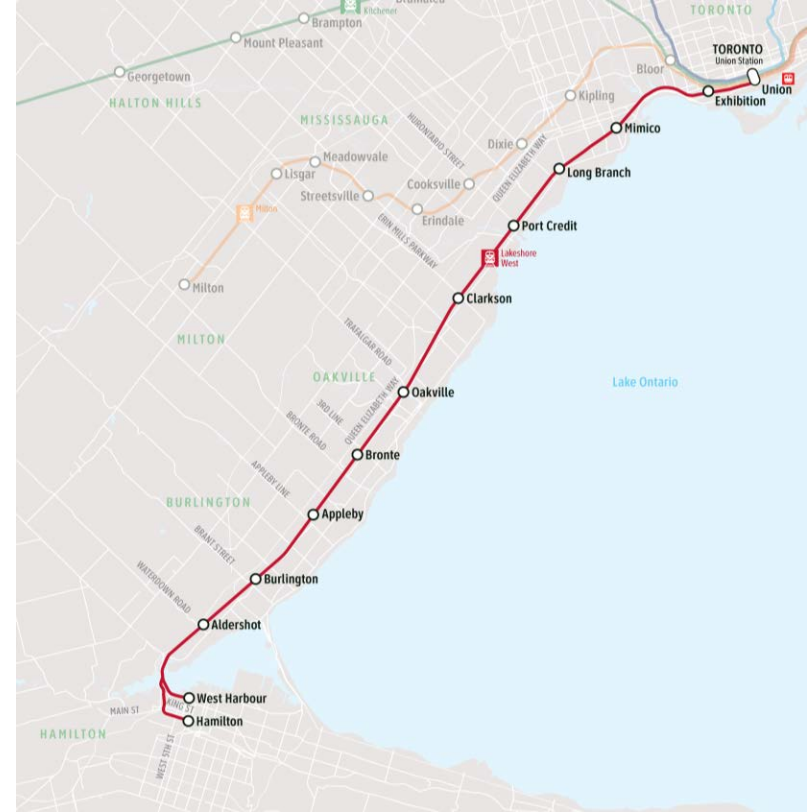


John Street Pedestrian Bridge Construction

Lakeshore West Corridor

Studies & Design Progress:

- Kerr Street & Burloak Drive grade separations:
 - Grade separation feasibility study report is expected to be complete in September. Meetings scheduled with the Town of Oakville and City of Burlington in October.
- Dialogue underway with CN concerning additional infrastructure requirements to support RER and the new Confederation GO station in Hamilton.



Lakeshore West Corridor

Implementation & Construction Progress:

- West Harbour GO station in Hamilton:
 - Service launched as planned on July 9, 2015, on-time for the Pan Am Games. Station building, north platform, and a portion of landscaped outdoor promenade are complete, and work continues to complete south track, parking, and bus loop.
- Exhibition GO station:
 - Platform & station rehabilitation work scheduled to re-commence in September, following temporary stoppage to avoid transit service impacts during the Pan-Am Games.
- Clarkson GO station:
 - Parking structure construction is substantially complete.
- Lewis Road Layover (Stoney Creek):
 - Construction progressing toward Summer 2016 completion.

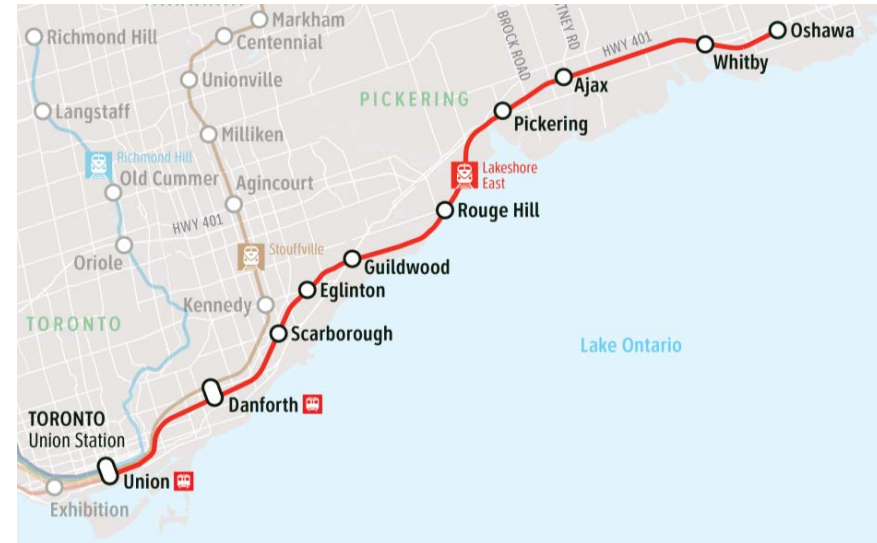


West Harbour GO Station

Lakeshore East Corridor

EA & Design Progress:

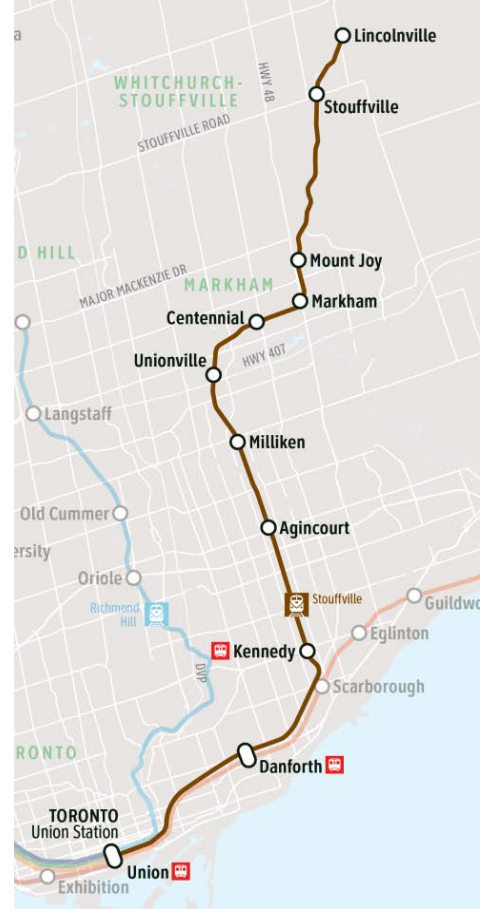
- Corridor expansion between Guildwood and Pickering GO stations: EA is ongoing with community and government engagement commencing in September 2015, and approval anticipated in Summer 2016.
- Corridor expansion between Union and Scarborough GO stations: EA will commence in Fall 2015, with approval anticipated in Summer 2017.
- Highland Creek bridge widening design at 60% completion.
- Rouge River bridge widening design at 30% completion.
- Property impacts and requirements for the grade separations at Morningside Avenue, Scarborough Golf Club Road and Galloway Road have been identified. Community engagement and realty negotiations are commencing in September 2015.



Stouffville Corridor

EA & Design Progress:

- EA approved for 2nd track from Scarborough Junction to Unionville GO station.
- EA and design assignment for southern grade separations (up to 6) awarded in August 2015.
- Phase 2 - Double track - Scarborough Junction to Agincourt / Milliken to Unionville:
 - Design at 95% completion, and construction planned for Winter 2016/17 to Winter 2018/19; includes track and signals, rail structure modifications, noise walls, and preparation for future electrification.
- GO station modifications at Agincourt, Milliken, and Unionville: Design at 10% for new 2nd track, new and modified rail platforms with elevators, tunnels, canopies and customer service amenities.
- Construction at stations planned to commence in Fall 2016.
- Lincolnville Train Layover expansion feasibility study completed and design to commence in Fall 2015.



Stouffville Corridor

Implementation & Construction Progress:

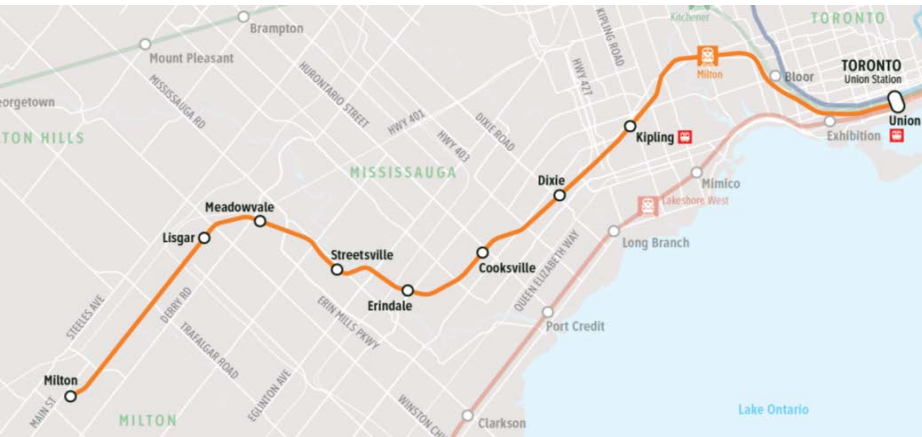
- Phase 1: Double Track (5km) between Agincourt and Milliken GO Stations:
 - Mobilization and preparatory work has started and construction planned to complete Fall 2016; includes noise walls, and preparation for future electrification.
 - Community Relations:
 - In progress, consultation with affected residents in September.



Milton Corridor

Planning & Design Progress:

- Cooksville GO station: Preliminary design for the parking structure is in progress and feasibility study for the CP bridge on Hurontario Street is underway (linked to Hurontario LRT).
- Milton GO station: Conceptual design for the parking structure in progress.
- Kipling GO station – New bus terminal and station improvements is at 25% design stage.



- Dialogue underway with CP concerning studies required for infrastructure requirements necessary for future service increases.

Implementation & Construction Progress:

- Milton Layover Expansion: Construction is scheduled to start in Fall 2015 with completion in September 2016.

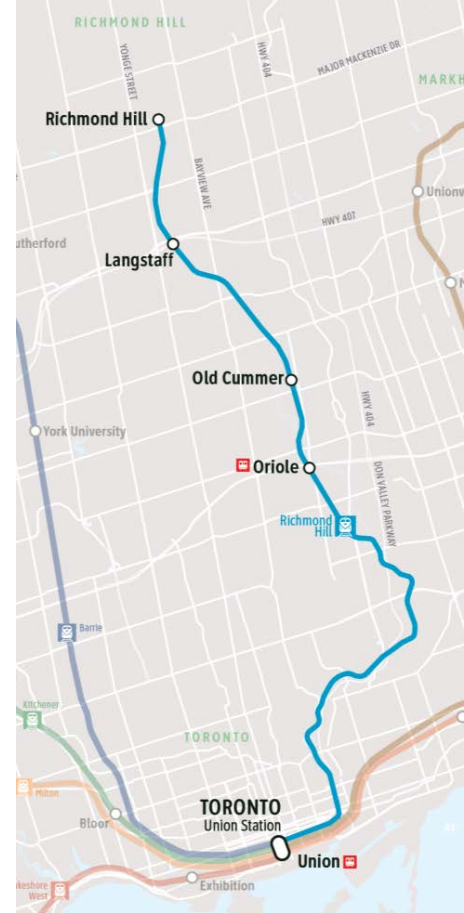
Richmond Hill Corridor

Design & Planning Progress:

- Bloomington GO station (new northern terminus of the corridor):
 - Design is approaching 50% completion.

Implementation & Construction Progress:

- Gormley GO station:
 - Construction is underway with anticipated completion in Spring 2017.



Union Station Rail Corridor

Implementation & Construction Progress:

- Union Station:
 - Public access to the Bay Concourse was closed on August 16, 2015 and construction by City of Toronto will begin in September 2015.
- The Trainshed Rehabilitation work:
 - Stage 2 (Tracks 10 and 11 and Platform 20/21) is well underway and on track for completion by December 2015.
 - New smoke vent installations over Track 10 are complete.



Downtown Bus Terminal Rendering



New York Street Concourse and Retail Area

Network Signals and Communications

- GO Fibre Communication Feasibility Study final report was completed in August 2015.
- Preliminary Design for the USRC Signalling System is scheduled to be completed in the Fall 2015. Design work and geotechnical and the preliminary sighting of the signal structures are completed.
- GO Transit Train Control System (GTCS) was awarded in August 2015.
- Signals Packages being prepared for Corridor expansions.
- Enhanced Train Control (ETC) Feasibility Study is completed and work is underway on the Concept of Operations and a draft Migration Strategy. Work has commenced on a procurement strategy for an ETC consultant and the main design/build contract.
- Work has commenced with Electrification consultant to identify the scope to ready the signalling infrastructure for electrification.

Network Electrification

- Electrification EA for the UP Express corridor is complete.
- Electrification Technical Advisor was awarded in June 2015.
- System wide Electrification EA is in progress with targeted completion of December 2016.
- Technical evaluation & agreement is underway with Hydro One for power requirements.
- Preliminary design is underway and is expected to be completed by December 2016.
- Enabling Works for electrification infrastructure is being evaluated and coordinated with corridor teams.
- Alternate Financing and Procurement (AFP) approach for the main electrification contract and a Value-for-Money analysis is being evaluated with Infrastructure Ontario and is in final stages of completion.



Network Facilities

- Willowbrook Rail Maintenance Facility:
 - Track improvements and construction of a new sanding station is underway and are scheduled for completion by December 2015.
 - New South Willowbrook Storage Yard (Mimico) construction is underway and scheduled for completion in mid 2016.
 - Tender for the design of a new Crew Centre has closed in August 2015.
- East Rail Maintenance Facility:
 - Design development completed and submitted on August 26.
 - Construction commenced in May 2015 and is scheduled for completion by December 2017.
 - Site Plan Approval (SPA) obtained from the Town of Whitby on July 24 and partial foundation permits are ongoing.
 - Electrification design is included in the contract.
- GO Transit Control Centre:
 - Design is complete; construction contract is targeted to be awarded in November 2015. Construction is scheduled for completion by mid 2017.