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COMMUNICATION  
CW (ws) May 8/17  
ITEM - 1



METROLINX

# CREATING CONNECTIONS IN THE CITY OF VAUGHAN

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METROLINX PRESENTATION TO VAUGHAN CITY COUNCIL  
MAY-8-2017





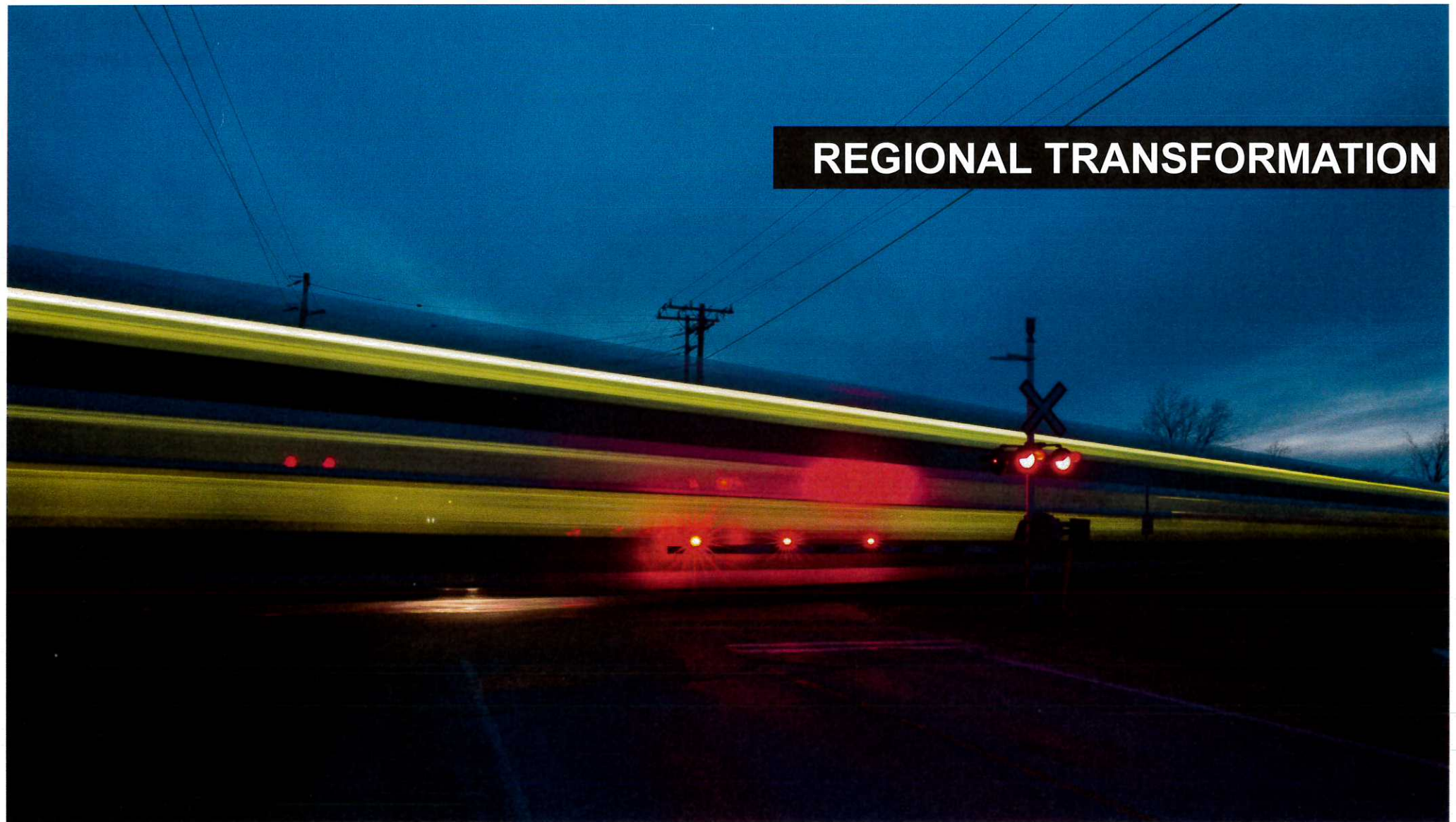
# GRIDLOCK COSTS OUR ECONOMY



NEW -
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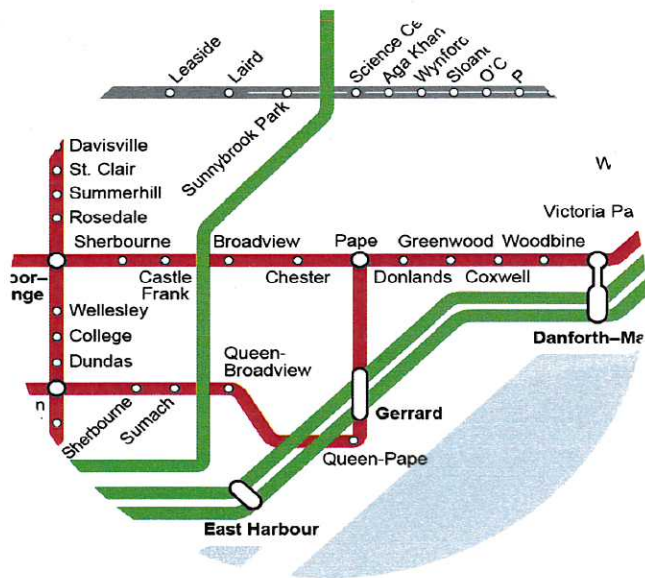


# REGIONAL TRANSFORMATION



# METROLINX

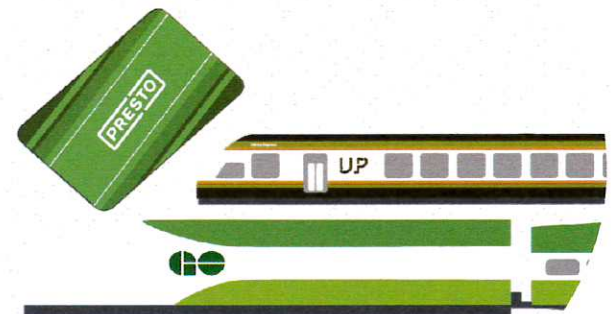
## PLAN



## BUILD



## OPERATE

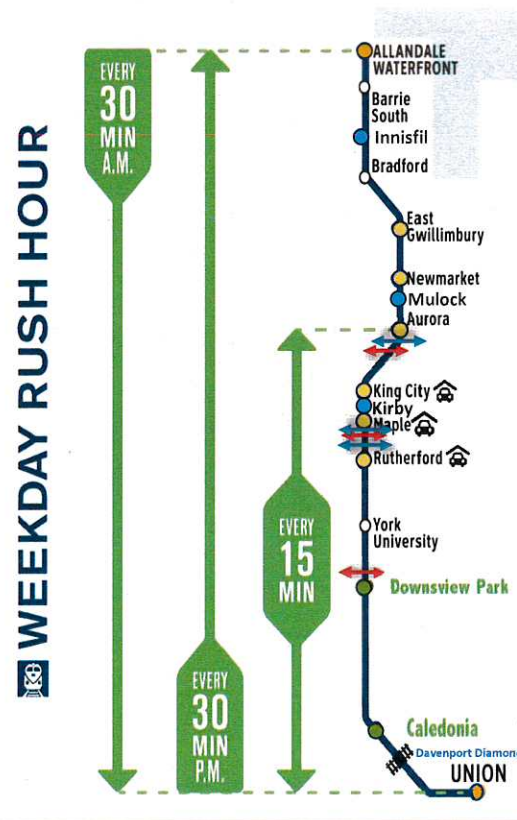
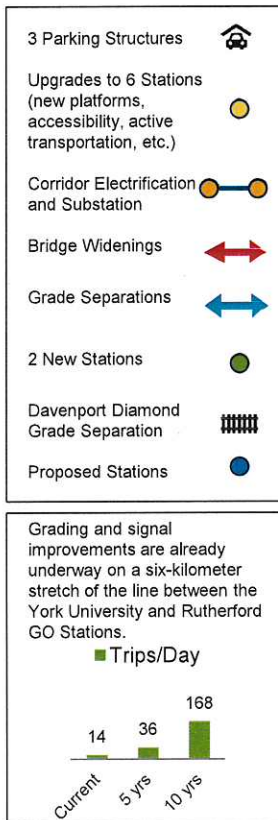




# GO EXPANSION PROGRAM



# BARRIE SERVICE IMPROVEMENTS





# RAIL INFRASTRUCTURE IN THE CITY OF VAUGHAN

## INFRASTRUCTURE NEEDS FOR GO EXPANSION

- Bringing more transit options and new levels of service doesn't come easy.
- Metrolinx is undertaking one of the largest infrastructure projects in North America.
- There is community-level disruption required to build a region-wide, integrated transit network.



### New Track

150 kilometres of new dedicated GO track will allow for more uninterrupted service.



### New Trains

New electric trains will travel faster for longer and reduce travel times.



### New Bridges and Tunnels

Bridges and tunnels that eliminate intersections with rail and road traffic will provide more reliable GO train service.



### New Renovations

New and improved stations will make your journey more comfortable, from start to finish.



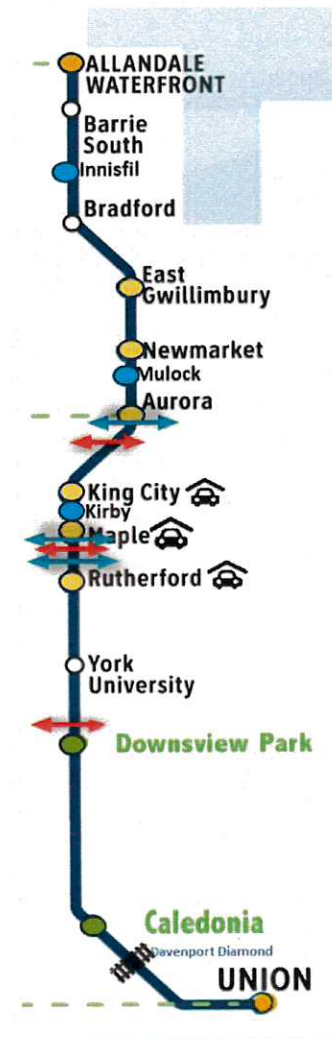
### Overhead Catenary



# BARRIE CORRIDOR PROGRAM OVERVIEW

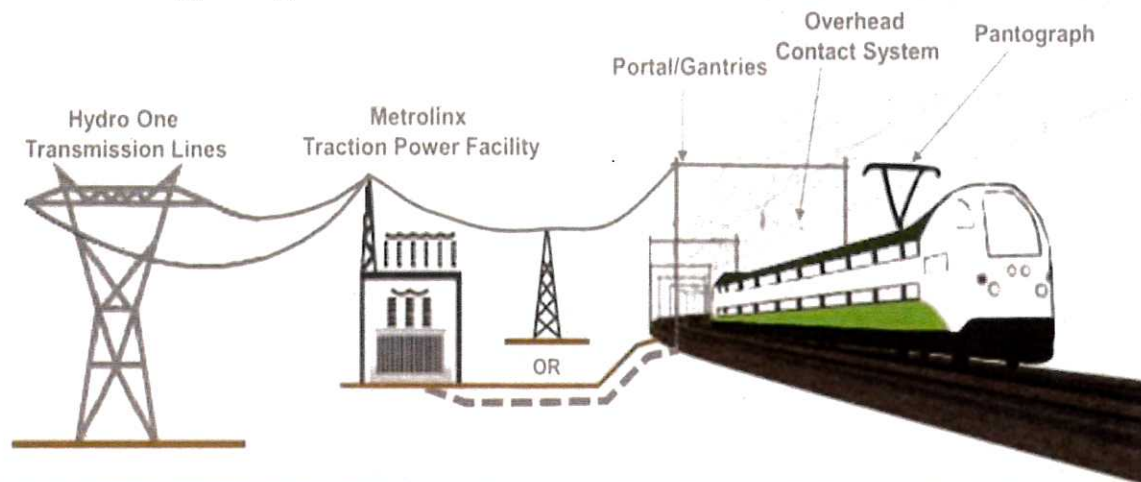
## Infrastructure Build:

- Double track from Union Station to Aurora GO Station
- Signal improvements
- Bridge structure modifications
- Bradford layover expansion and modifications
- Barrie layover expansion
- Station modifications/parking expansion
- Improved rail crossings
- Grade separations
- Customer experience improvements



# ELECTRIFICATION

- In order to electrify, we need to build infrastructure including traction power substations, switching stations, paralleling stations, overhead contact systems, and various safety modifications.
- This includes switching stations and paralleling stations at Maple and Newmarket.
- Design excellence is part of designing this infrastructure.





# NEW TRACK & NEW STATIONS

## NEW TRACK AND NEW STATIONS

- New Track – Barrie Corridor
  - From Union Station to Aurora GO Station to support 15-minute service from Union Station.
- New Stations
  - Gormley (opened December 2016)
  - Kirby (near Keele Street)
  - Mulock (near Bayview Avenue)
  - Bloomington (construction mobilized)
  - Downsview Park



# RUTHERFORD GO STATION

Scope	
Phase I	Pedestrian Tunnel Installation
Phase II	Grade Separation Station Building Rehabilitation 2nd Track & Platform New Multi-Level Parking Structure <b>1200 Net New Parking Spaces</b>

Milestone Schedule	
Design/Phase I Construction	Aug 2016 - Late 2017
Phase II Construction (DBF)	Late 2018 - Dec 2022





# MAPLE GO STATION

## Scope

Phase I	2 Pedestrian Tunnels
Phase II	Multi-Level Parking Structure New Kiss & Ride Bus-Loop with 4 Bus Bays Bicycle Facilities <b>1200 Net Parking Spaces</b>

## Milestone Schedule

Tender Documents Issued	Jun 2016
Design Period & Procurement	Sep 2016 – Apr 2019
Construction Period (DBF)	Apr 2019 – Dec 2022



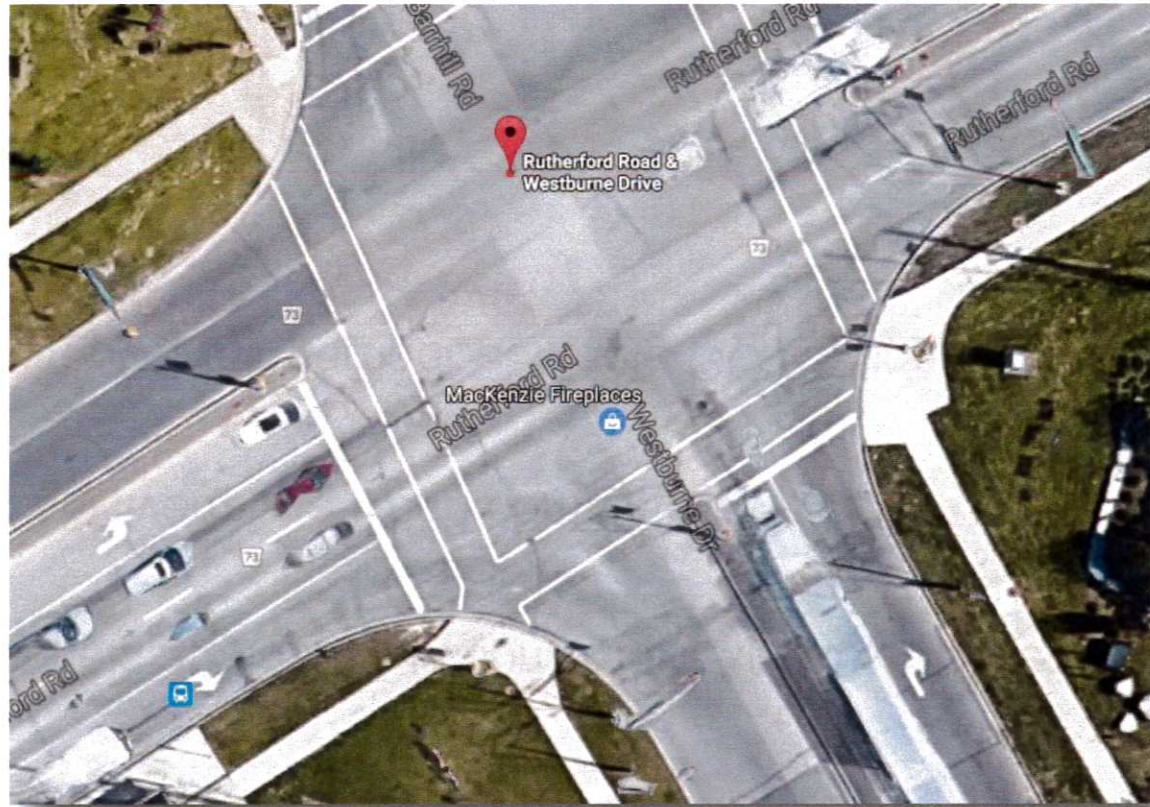


## EARLY STATION WORK

- Switch installation at Rutherford GO completed April 24.
- Installation of pedestrian tunnels at Maple GO completed Apr 23 and May 7.
- Installation of second track at Rivermede Road completed May 6-7.
- Pedestrian bridge connection over the corridor at Maple GO Station.

## EARLY CIVIL WORK

- We're requesting a two-lane left-turn signal from Westburne Drive onto Rutherford Road.
- The signal would alleviate afternoon congestion as customers with vehicles leave the station.
- We're working with staff in Vaughan and York Region on a mutually agreeable solution that benefits the municipality, the region, and your residents.





## EARLY CIVIL WORK



- Rail bridge widening over Major MacKenzie Drive will ensure all-day two-way service.
- Requesting to use north parking lot as construction staging area.
- We're working with staff in Vaughan and York Region on building 200-space semi-permanent parking lot to west of City Hall along Major MacKenzie, with new turning lane.

## PARKING

- Our current plan is to build multi-level parking structures at Rutherford and Maple, with a total of 1200 net-new spaces at Rutherford and 1200 net-new spaces at Maple.
- Parking structures are currently in design phase.
- Long-term solutions for parking congestion include local/micro transit integration, and pedestrian and bicycle access.





## KIRBY GO STATION

- In our New Stations Analysis, a potential Kirby GO Station ranked high for ease of construction, construction affordability and development potential.
- Site within a designated “New Community Area” in North Maple – Block 27.
- Kirby GO is at the very early concept stage, and much more study and planning work is required.
- We recognize that Vaughan’s Secondary Plan for Block 27 includes a grade separation at Kirby Road, and are working with City staff to determine feasibility of a grade separation.

## HIGHWAY 7/CONCORD GO STATION

- Featured in our New Stations Analysis Report that was approved by Metrolinx Board of Directors in June 2016.
- After extensive study, Concord GO Station was not selected to proceed:
  - Higher construction costs
  - Potential ridership catchment is limited by the new Toronto-York-Spadina Subway Extension to the west
  - The potential for addition of new riders is offset by significant negative impacts to upstream riders.
- Metrolinx's Planning staff are working closely with the Region and the City on determining feasibility as part of a future build outside of the RER program.



# **LEVEL CROSSINGS AND GRADE SEPARATIONS**

## LEVEL CROSSINGS – ROAD/RAIL INTERSECTIONS

- With over 50 level crossings in York Region, they will continue to be a significant feature of the network.
- All level crossings on the GO network were assessed based on four criteria which included a number of components:

### Usage and Existing Conditions (60%)

- Exposure Index (traffic and rail volumes)
- Geometry
- Accidents/Collisions
- Adjacent roadways and queuing

### Operations (20%)

- GO Service improvements
- Special users (e.g. local transit, emergency services)
- Service reliability
- Station proximity

### Social & Environmental (10%)

- Visual improvement
- Noise improvement
- Community connectivity

### Cost (10%)

- Construction
- Property
- Maintenance



# LEVEL CROSSINGS – ROAD/RAIL INTERSECTIONS

Among high and medium priority locations, a tiered approach was adopted to inform prioritization and discussions with municipalities.



## RESULTS: LEVEL CROSSINGS IN YORK REGION

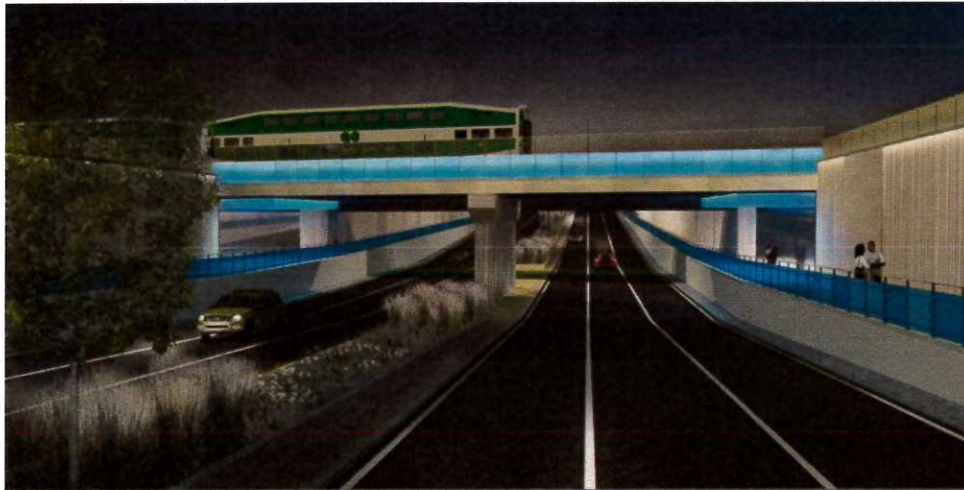
Four proposed grade separations:

- **Rutherford Road:** adjacent to station, EA completed by York Region, planning underway, highest overall EI forecast on GO network.
- **Wellington Street East:** adjacent to station, heritage elements to be considered.
- **McNaughton Road:** adjacent to station.
- **Steeles Avenue East:** adjacent to station, EA underway by City of Toronto



## RESULTS: LEVEL CROSSINGS IN VAUGHAN

- Planning and design work currently underway for Rutherford Road and McNaughton Road grade separations.
- Construction is anticipated to be completed in approximately 2022, in time for the estimated completion of Rutherford and Maple stations.



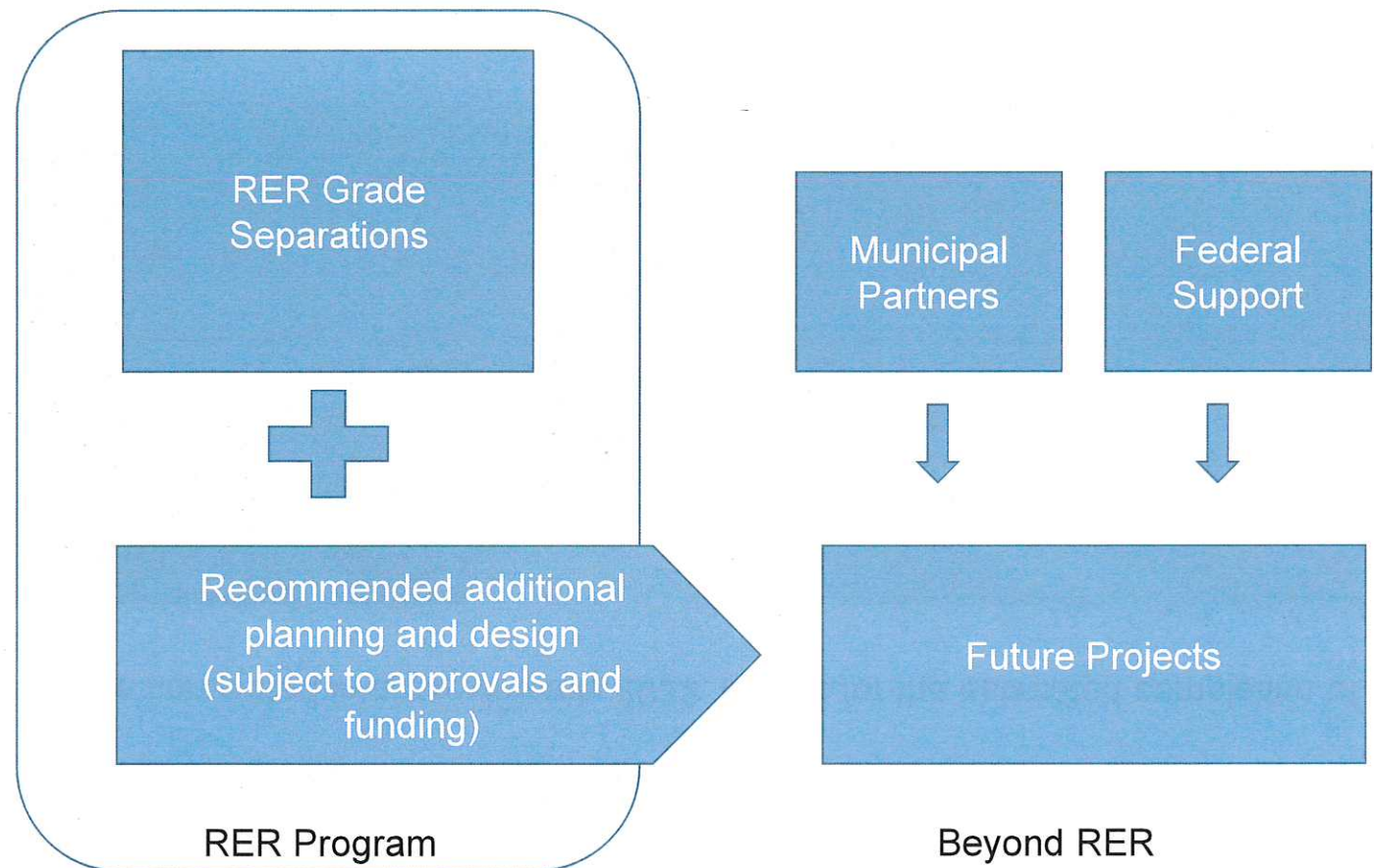
Rutherford Road Looking East



Rutherford Road Looking West

# LEVEL CROSSINGS: LONG TERM PLAN

- Metrolinx will continue to work with municipal counterparts to plan for and advance grade separations where possible.
- Metrolinx recommends a longer term plan be considered beyond the current program to move additional projects forward through planning and design, subject to approvals and funding.
- This would allow for continued progress on a pipeline of locations not proceeding immediately as part of this RER program.





## NEXT STEPS: LEVEL CROSSINGS

- Study to identify recommended improvements for at-grade crossings
  - Municipal input will be part of this exercise
- Launch region-wide Community Advisory Committee
- Grade Separation Projects:
  - Finalize municipal agreements
  - Complete or initiate Environmental Assessment as required
- Enhanced Safety and Education Awareness

# COMMUNITY ENGAGEMENT



## COMMUNITY ENGAGEMENT

- May 2016: Engagement at Maple GO Station, promoting new carpool program, addition of 8 new carpool parking spots.
- June 2016: met with York Region staff on tunnel work at Rutherford, Maple, and Aurora GO Stations.
- October 2016: Maple/Rutherford parking expansion announcement.
- November 2016: Public Meeting on Transit Project Assessment Process.
- December 2016: Outreach to members of Vaughan City Council.
- April 2017: Meeting with Vaughan Communications staff to discuss aligning communications, municipal presentation, summer engagement opportunities in Vaughan.
- April 2017: Maple GO customer survey to gain input on station redesign.

## HOW WE ARE GOING TO WORK WITH YOU

- Metrolinx recognizes that with new infrastructure and construction comes impacts to the community that must be worked through with residents and their elected officials.
- A regional Municipal and Community regional tour is currently underway that creates an annual schedule for getting to every municipal council and for providing a comprehensive narrative for residents of each municipality that details what this program will look like locally.
- We are working with municipal partners to schedule local consultations on new stations.
- We are developing a community charter which will commit the organization to building the regional transportation system in a way that is respectful of the communities it touches.
- This is in addition to the standard community relations support that we have traditionally provided on the ground on projects like Georgetown South and the Eglinton Crosstown.



## MUNICIPAL ENGAGEMENT

- As the volume of work increases, the importance of establishing tables where we can have regular dialogue in support of advancing capital infrastructure projects with municipal partners is critical to delivering transit to communities across the region.
- These opportunities include:
  - **RER Capital Leaders Forum** (network-wide table for executive dialogue and advice related to GO expansion projects)
  - **RER Regional Sessions** (focus on providing regular updates for municipal staff)
  - **Municipal Program Committees** (municipal specific committees focussed on advancing specific projects)

# COMMUNITY ENGAGEMENT: PROJECT CYCLE

