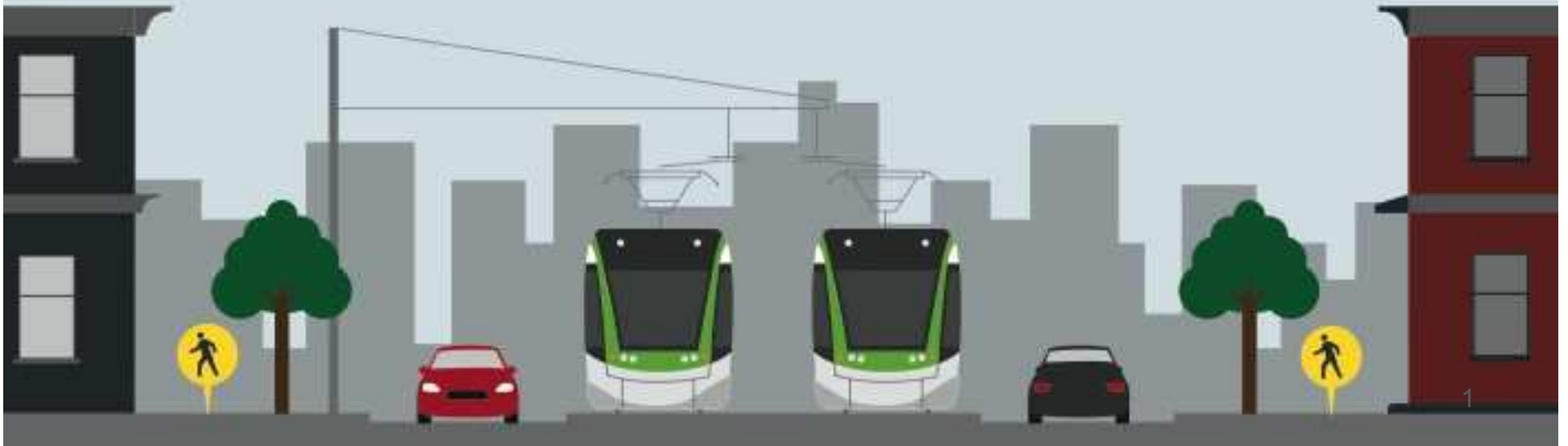


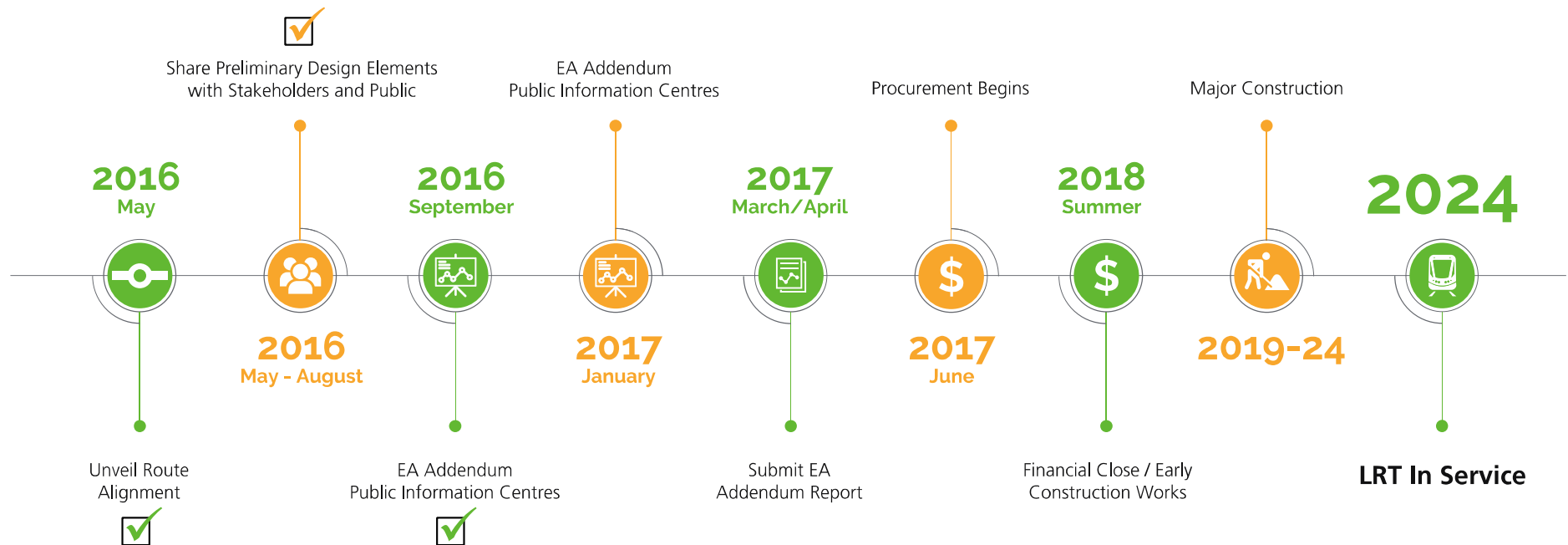
H A M I L T O N
LRT LIGHT RAIL
TRANSIT



Project Update



LRT TIMELINE



Project Schedule

The project remains on schedule.

Upcoming Milestones:

- Final Public Information Centres – January 2017
- Environmental Project Report Addendum Submission – March/April 2017
- Development of the Project Specific Output Specification (PSOS) and Reference Concept Design (RCD) – Late Spring 2017
- Definitive Agreements – 2017 to 2018

Major Updates

- Proposed Operations, Maintenance and Storage Facility (OMSF)
Location
- Utilities
- Traffic & Transit Modeling
- Pedestrian Connection to Hamilton GO Centre
- Environmental Studies
- Property Acquisition
- LRT Risk Assessment
- Public Information Centre Highlights

Proposed OMSF Location



Proposed OMSF Site – Run-In Track



Site Features

Site requirements for the OMSF:

- Approximately 6-8 hectares (15-20 acres)
- Within 1 km of the LRT line
- Site configuration
- Site surroundings / adjacent land uses
- Impact to local community

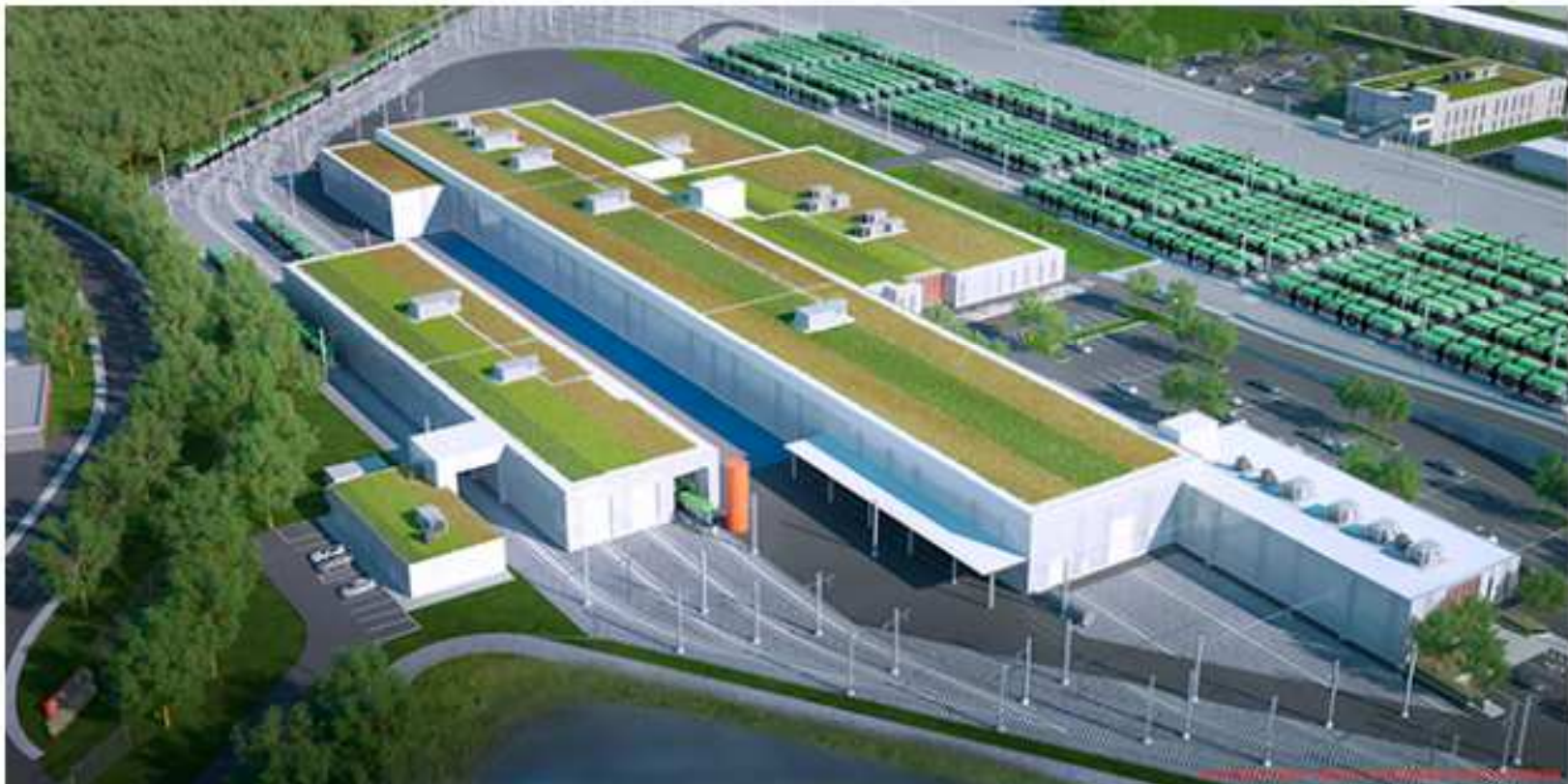
Metrolinx is currently working on the purchase of the lands.

Typical OMSF Functions

The main functions of an OMSF include:

- Operations control centre
- Maintenance and repair of Light Rail Vehicles (LRVs);
- Daily LRV cleaning, washing and inspections;
- Facilities for maintaining the line;
- Overnight storage facilities for LRVs;
- Perimeter security and landscape buffer.

Eglinton Crosstown OMSF



Conceptual rendering of the Eglinton Crosstown OMSF facility.

Eglinton Crosstown OMSF



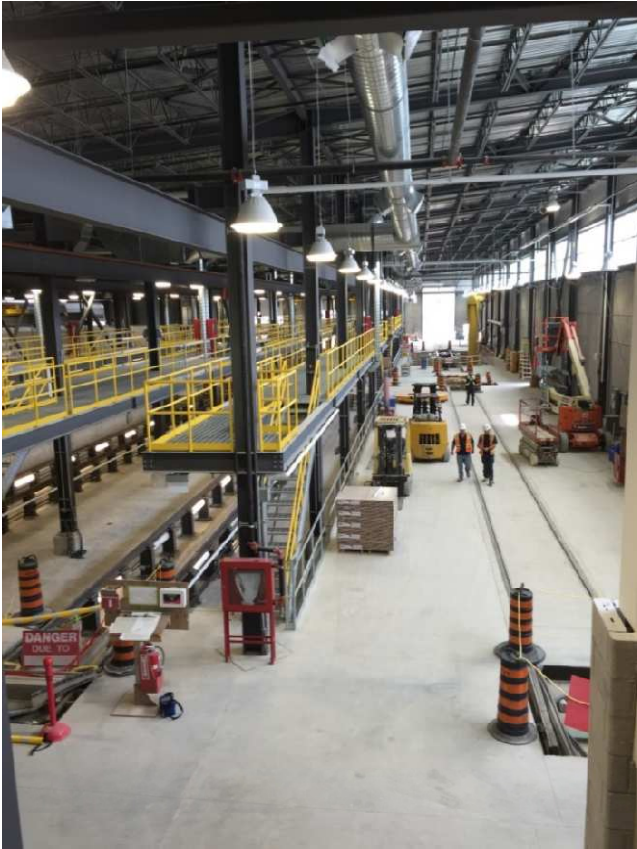
Conceptual rendering of the Eglinton Crosstown OMSF facility.

Eglinton Crosstown OMSF



Conceptual rendering of the Eglinton Crosstown OMSF facility.

Waterloo LRT – OMSF Interior



Utilities

- Majority of LRT is within a 20m (or less) Right of Way
- 20km of municipal utilities located in the LRT Right of Way:
 - 6km of Combined Sewers
 - 600m of Sanitary Sewers
 - 4km of Stormwater Sewers
 - 10km of Watermains
- The deepest pipes are located 10 metres below surface.
- Need to relocate all utilities from 20m Right of Way into approximately 3.5m on either side of the LRT.

Utilities

Subsurface Utility Engineering (SUE) Investigations

- SUE Investigations are currently underway;
- Scheduled to be completed in spring 2017;
- SUE accurately identifies the location of all existing subsurface infrastructure as compared to the records (as-built).



Utilities

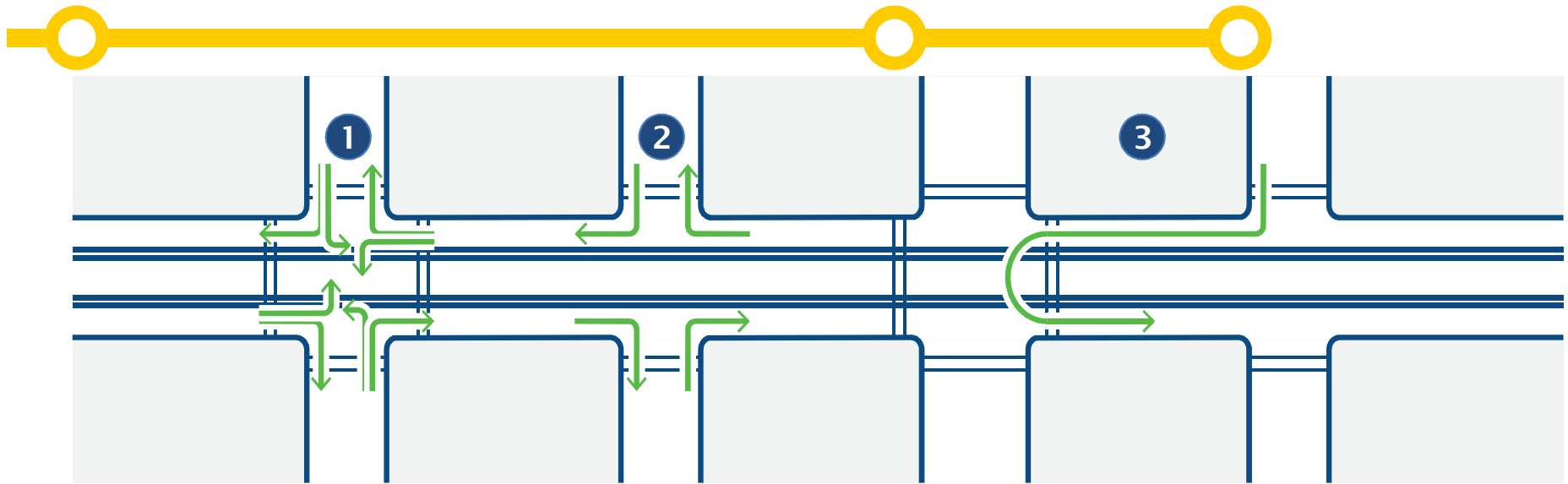
With this information, a 3-D model will be created to determine the impacts of :

- moving the infrastructure,
- keeping the infrastructure in its existing location;
- opportunities for improvements/upgrades to infrastructure.

Utilities - Ongoing Work

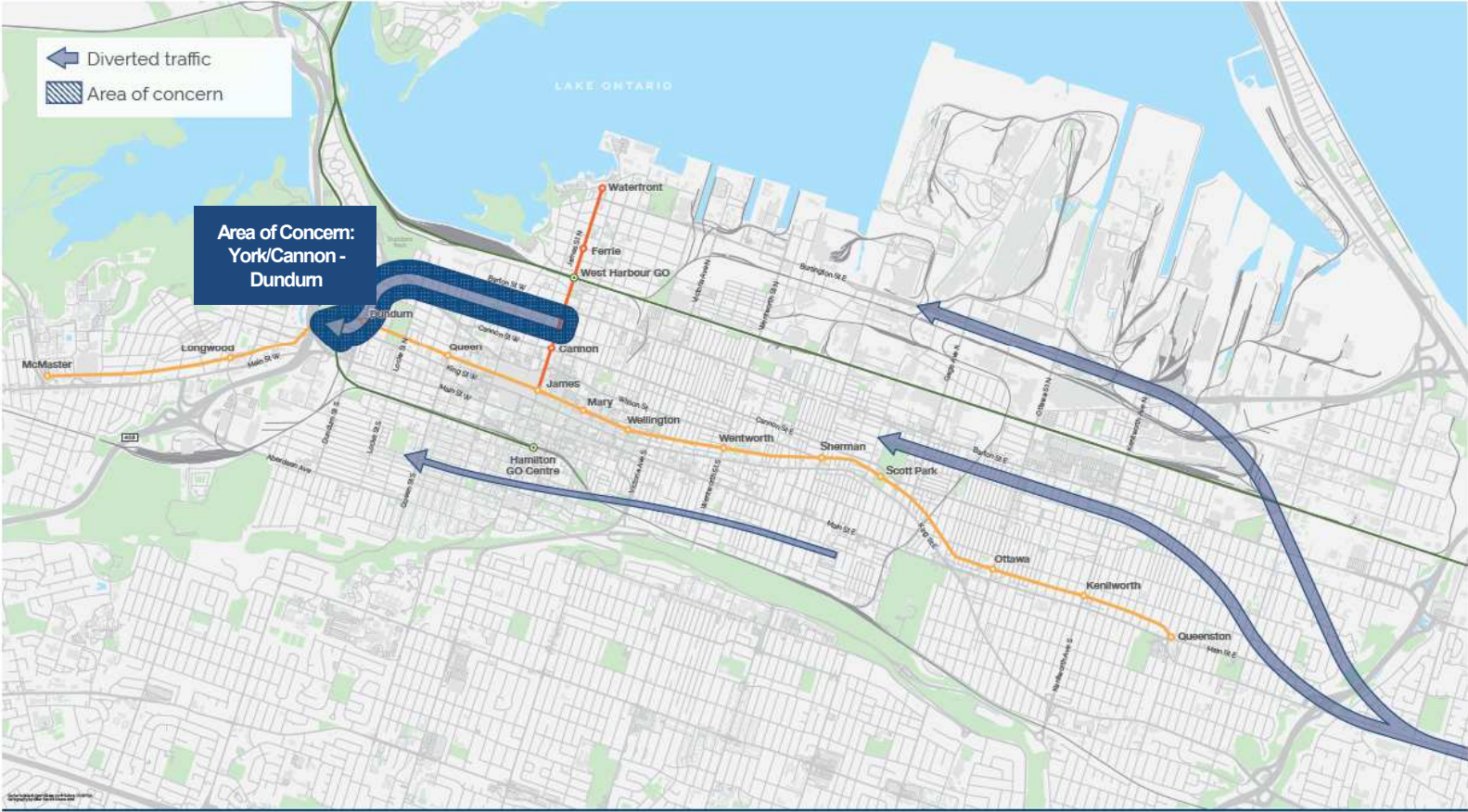
- Coordination with utility stakeholders
- Preliminary relocation drawings developed
- Determine the oversizing and/or upgrading of the municipal infrastructure along the LRT corridor for future growth and intensification.

How Will Traffic Work?



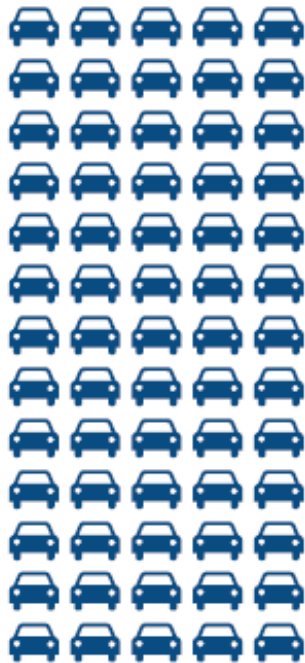
- 1 Typical signalized intersection entrance and exit: Crossing of tracks permitted.
- 2 Typical side-street entrance and exit: No crossing of tracks permitted.
- 3 Drivers wishing to turn in the opposite directions where crossing the tracks is not permitted, will need to make the allowed right turn and travel to the next U-turn location, and make a permitted U-turn. U-turns at these locations will be combined with left turns, and controlled by their own separate signal phase to ensure safety.

Where Will Traffic Go?



Moving People

130 people in cars
(1 car = 2 people)



=

130 people in buses
(1 bus = 55 people)



=

130 people in LRV
(1 LRV = 130 people)



Preliminary LRT Ridership (B-Line)

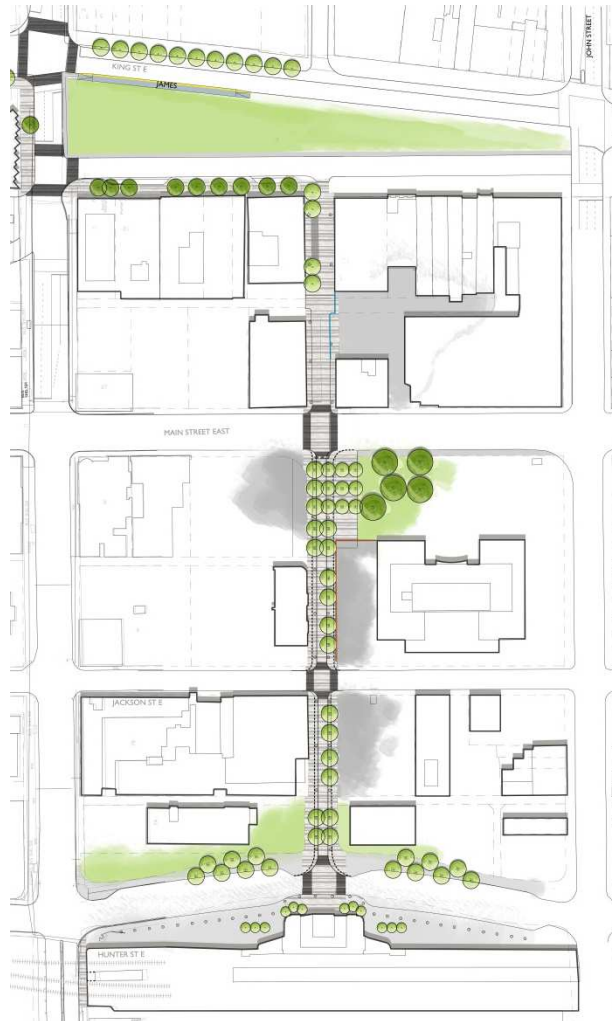
B-Line AM Peak Hour Ridership Forecast (Boardings)

	2031 B-Line 6 minutes	2041 B-Line 6 minutes	2031 B-Line 4 minutes	2041 B-Line 4 minutes
B-Line Eastbound	800	925	1,125	1,300
B-Line Westbound	2,625	3,725	3,050	4,300
Total AM Peak Hour Boardings	3,425	4,650	4,175	5,600

B-Line Annual Ridership Forecast (Boardings)

	2031 B-Line 6 minutes	2041 B-Line 6 minutes	2031 B-Line 4 minutes	2041 B-Line 4 minutes
B-Line Eastbound	2.9 M	3.3 M	4.0 M	4.7M
B-Line Westbound	9.5 M	13.5 M	11.1 M	15.6 M
Total Annual Boardings	12.4M	16.8M	15.1M	20.3M

Pedestrian Connection to Hamilton GO Centre



High quality civic corridor, prioritizing pedestrians and supporting safe, convenient and comfortable connections.

Environmental Studies

Studies are being updated to reflect design changes, the OMSF site, and the A-Line. The following work is ongoing:

- Cultural Heritage
- Natural Heritage
- Contamination
- Air Quality
- Hydrogeology
- Noise and Vibration

Property Acquisition

- Metrolinx is leading the property acquisition process.
- 43 properties have been identified as priority acquisitions at this time.
- The 43 owners have been notified of probable purchase of their property.
- Meetings and negotiations have begun with individual owners.

LRT Risk Assessment

- Audit Services is conducting a high-level Risk and Opportunities Assessment for the LRT project.
- Interviews with leaders across all Departments
- Identifying these risks and opportunities will allow the further development of action plans to support and manage them.

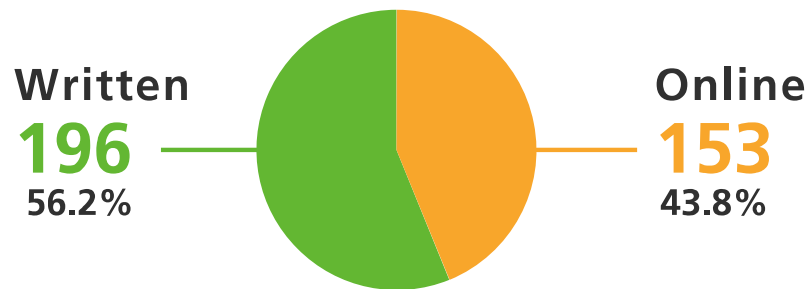
Public Information Centre Highlights

7 

PUBLIC INFORMATION CENTRES

The LRT team hosted seven public open houses across the city during the weeks of September 12 and 19 to inform the community about the latest plans and gather feedback.

349  **PUBLIC FEEDBACK RESPONSES**



861 ATTENDEES 



Public Information Centre Highlights

- Where to add and move a stop:
 - Gage Park/Delta stop was most popular
 - The team is examining how to incorporate that stop
- Where to add a pedestrian crossing:
 - Locations provided were consistent with existing plans
 - Some additional locations were suggested
- McMaster Terminus options:
 - More than half of respondents preferred the north side of the street to integrate with the McMaster property

Public Information Centre Highlights

- Main Street West bike lanes
 - Majority of respondents support bike lanes on Main West
- Paradise Road and Longwood Road configurations
 - Majority of respondents preferred the left-turn option at Paradise Road

Public Information Centre Highlights

Streetscape Factor	Average Score (neutral = 3.0)
Pedestrian Furnishings	4.5
The use of plantings and street trees	4.3
Pedestrian scale lighting	4.3
Signage and wayfinding	4.3
Prioritizing wider sidewalks at LRT stops	4.1
SoBi bike stations	3.9
Enhanced sidewalk and crosswalk materials	3.9
Urban Braille	3.7

Public Information Centre Highlights

Other noted comments/concerns:

- Respondents noted support (64) and opposition (57) to the project
- Respondents had questions about how local bus service will be integrated with LRT
- Respondents indicated support for local bus service improvements



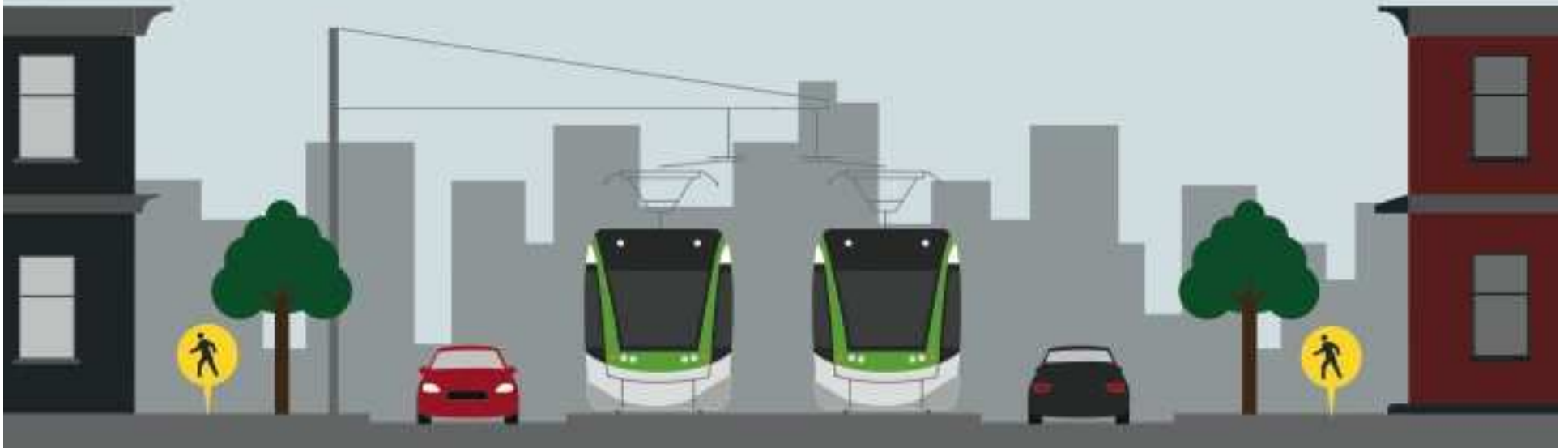
METROLINX

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Hamilton

H A M I L T O N
LRT LIGHT RAIL
TRANSIT



Councillor Questions

- Who operates and maintains LRT?
- Who gets the revenue?
- Who is responsible for LRT staff?
- Clarity of Provincial statements.
- Are busses “passing by” riders still an issue on the B-line?
- Will Council provide approvals on other aspects of the project?
- Is the project on schedule? Can we have the Gantt chart?
- Are we still set to award the contract in 2018 and start construction?
- What have we spent on the project to date?

Councillor Questions

- Is there an updated list of council motions/direction?
- Is there a marketing strategy beyond the corridor?
- What about fares and Presto?
- What happens with surplus buses?
- How many jobs will be created?
- Will the Consortium be required to “hire local”?

www.hamilton.ca/lrt (Timeline & Documents)

PRIORITY PROJECTS

- Our Future Hamilton
- Expanding Mobility Choices
- Light Rail Transit (LRT)
 - Community Engagement
 - Fact Sheets & Renderings
 - Frequently Asked Questions
 - Submission to Metrolinx
 - Timeline & Documents
 - LRT Traffic Impacts
- Explore Hamilton
- Global Hamilton
- Waterfront Redevelopment
- 2016 - 2025 Strategic Plan
- 2014 Annual Review
- Welcome to the new Hamilton.ca
- Modernizing the City's Livestream Capabilities
- Ward Boundary Review

[Back to Priority Projects](#)

OTHER SERVICES AVAILABLE

- Strategies & Actions
- Municipal Election

LRT Timeline & Documents

Home > City Initiatives > Priority Projects > Timeline & Documents

2016

- October 25, 2016** - [Information Report submitted to General Issues Committee \(PDF\)](#)
 - Appendix A: Preliminary Summary of LRT Public Information Centre Feedback
 - Appendix B: N. Barry Lyon Consultants Limited (NBLC) – Hamilton LRT A+B Line: Real Estate Impact Analysis
- September 16** - [Real Estate Protocol Executed - September 16, 2016 \(PDF\)](#)
- May 25** - [City Council Meeting Minutes 16-010 \(PDF\)](#)
- May 18** - General Issues Committee Report 16-013 (PDF)
 - [Item 5.1\(b\) - Light Rail Transit Sub-Committee Minutes 16-002, March 29, 2016](#)
 - [Item 8.3 - Light Rail Transit Sub-Committee Report 16-003](#)
 - Appendix A - Real Estate Services Protocol
 - Appendix B - Report from Citizens' Jury
- May 11** - [City Council Meeting Minutes 16-009 \(PDF\)](#)
 - [Item 7.3 - Reaffirming the Acceptance of the One Billion Dollar Investment in Infrastructure and Public Transit Investment from the Province of Ontario](#)
- March 30** - [City Council Meeting Minutes 16-006 \(PDF\)](#)
- March 23** - [General Issues Committee Report 16-009 \(PDF\)](#)
 - [Item 8.5 - Light Rail Transit \(LRT\) Office and Administration Budget \(PED16073\) \(City Wide\)](#)
 - Appendix A - Hamilton Dedicated Staff & Primary Support Staff
- March 8** - A Memorandum of Agreement (MOA) was approved by Council and signed by the City of Hamilton and Metrolinx. It sets out key project parameters including roles and responsibilities, project delivery, project scope, real estate matters and project governance.
 - [Memorandum of Agreement \(PDF, 499 KB\)](#)
- February 10** - [City Council Meeting Minutes 16-002 \(PDF\)](#)
- February 3** - [General Issues Committee Report 16-004 \(PDF\)](#)
 - [Item 8.10 - Light Rail Transit Sub-Committee Report 16-001](#)
 - Amended - Appendix A to the Light Rail Transit Sub-Committee Report 16-001, January 26, 2016
- January 20** - [City Council Meeting Minutes 16-001 \(PDF\)](#)
- January 13** - [General Issues Committee Report 16-001 \(PDF\)](#)
 - [Item 8.13 - Light Rail Transit Sub-Committee Report 16-002](#)
 - Appendix A - Light Rail Transit Sub-Committee Terms of Reference (revised November 30, 2015)

2015

2014

2013

2012

2011

2010