

# **Agenda**

	Item	Presenter	Time Allotted
1	Introduction	Alex Milojevic	5 min
2	Hurontario LRT Update	Doug Rieger	5 min
3	LRT Extension Update	Compton Bobb/Nico Malfara	30 min
4	Questions		20 min

### **Hurontario LRT Update**

#### **Key Brampton Features**

- Three LRT stops, including Ray Lawson, County Court and Brampton Gateway Terminal.
- The Operations, Maintenance and Storage Facility will be located within Brampton, on Kennedy Rd. south of Highway 407 ETR.



#### **Background**

The Hurontario LRT will bring 18 kilometres of fast, reliable, rapid transit between the Brampton Gateway Terminal and the Port Credit GO Station in Mississauga.



**19** Stops



**18**Kilometers



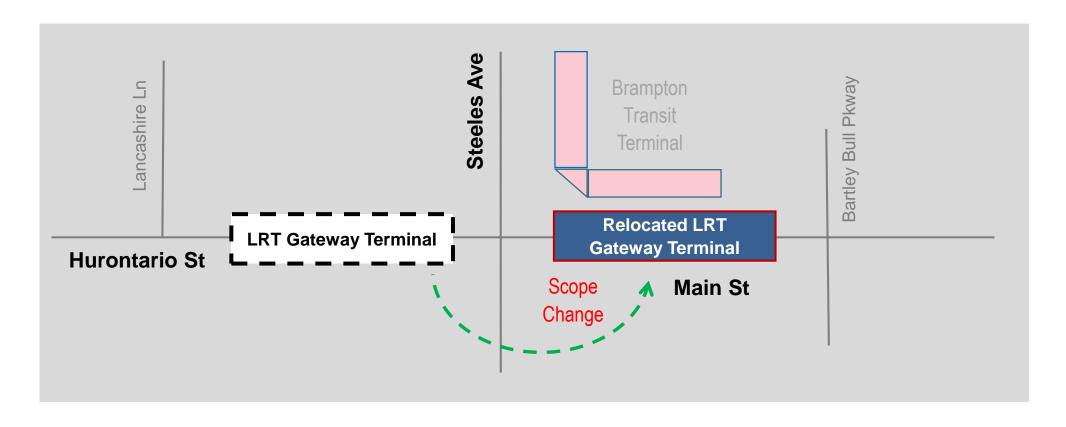
**2** Cities

#### **Current Status**

- The design is in progress at various stages and some early works construction activities, such as utility relocations are in progress within the City.
- A tentative completion and commissioning of the system by fall of 2024.

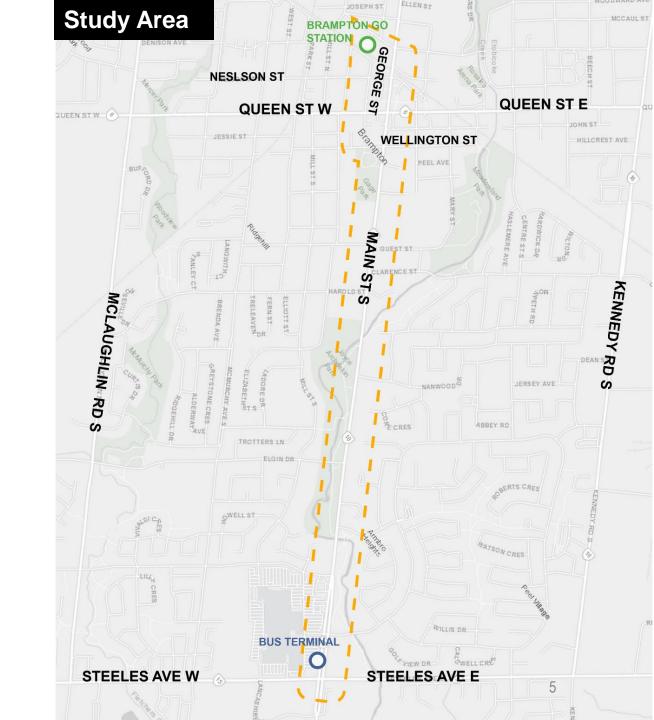
### **Hurontario LRT Update**

Brampton Gateway Hurontario LRT Stop Advocacy



# LRT Extension Project Overview

Extending the planned Hurontario LRT from the Brampton Gateway Terminal at Steeles Avenue to the Brampton GO station is a key transit priority and city-building project for the City of Brampton.



### **Vision and Goals**

#### Vision Statement

The LRT Extension will contribute to a safer and more integrated transportation system to serve the City of Brampton, encouraging civic sustainability, emphasizing transit use and other modes of transportation over traditional automobiles, and supporting the revitalization of Downtown Brampton into an aesthetically beautiful, place-making destination. The vision for the LRT Extension reflects the transportation vision and actions set out in the Brampton 2040 Vision (2018).

#### Goals



**Strong Connections** 



Complete Travel Experiences



Sustainable and Healthy Communities

### **Problem Statement**

The extension of the Hurontario LRT from Steeles Avenue to Brampton GO is intended to address the growth-related transportation needs in the study area and the City of Brampton.

### In the Study Area...



Population is expected to increase by over **26,000** by 2041



Employment is expected to increase by over **13,000** by 2041



To meet the City's growing transportation needs, transit service along Main Street would need to increase by **40%** 



If no improvements are made, average trip times will increase by **5%** 

### What We Heard from the Public and Stakeholders

Expedite the project Minimize impacts to Main Street South and Downtown Provide expess service with fewer stops Create a transit hub at Brampton GO Station Support businesses and revitalize Downtown

Retain heritage character and mature tree canopy on Main Street South Provide a
pedestrian friendly
environment and
ease of transfer
between travel
modes

Calm traffic along surrounding residential streets Protect for future northward extension

Secure Provincial funding for the project

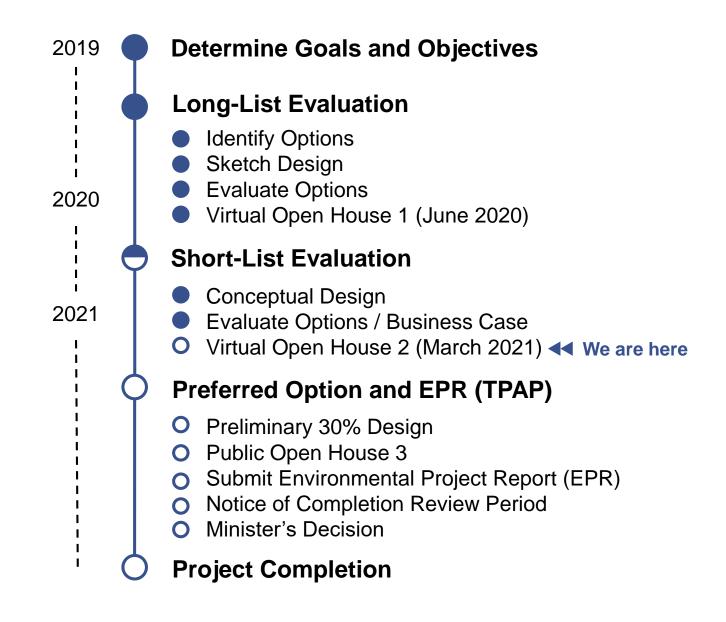
### **Study Process**

The evaluation of options is a multi-level process that has occurred over the course of the study.

Through the three-level process, the long list of LRT options was evaluated and narrowed down to a short list. The short list was evaluated and is being presented at Virtual Open House 2.

The Transit Project Assessment Process (TPAP) is a provincial environmental assessment process developed specifically for the approval of public transit projects.

Proponents must complete the prescribed steps of the process within specified time frames.



### **Preliminary Design Business Case**

The City of Brampton evaluated the short list options using the Metrolinx Business Case framework. A preliminary design business case (PDBC) was used to assess the short-listed options.

The analysis included four (4) business cases: Strategic, Economic, Financial, and Deliverability and Operations.

### - 4-

#### **Strategic Case**

How and why should the investment be pursued; based on goals, plans and policies

#### **Economic Case**

What is the investment's overall value to society?

#### **Financial Case**

What are the financial implications of delivering the investment?

### **Deliverability and Operations**

Case

What are the risks and requirement to consider to deliver and operate the investment?



### **Short List of Options**

Since the last virtual open house in Summer 2020, we've evaluated the short list options (four surface and two underground).

**Note:** The loop options presented in the previous open house were not advanced to the short list for further assessment due to physical constraints (i.e. issues accommodating longer LRVs / impacts to property).

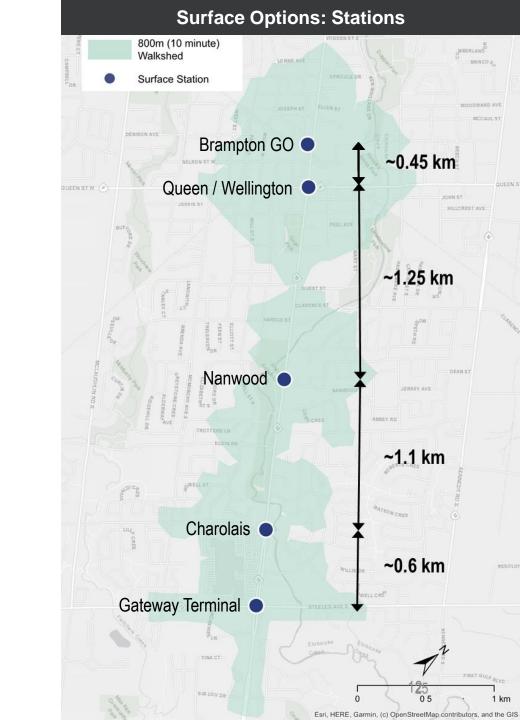


# **Proposed Station Locations**

#### For surface options, stations are proposed at:

- Brampton GO
- Downtown (split platform)
  - Queen (Northbound)
  - Wellington (Southbound)
- Nanwood
- Charolais
- Gateway Terminal

**Note:** Station locations for surface options are consistent with 2014 TPAP recommendations.



# **Proposed Station Locations**

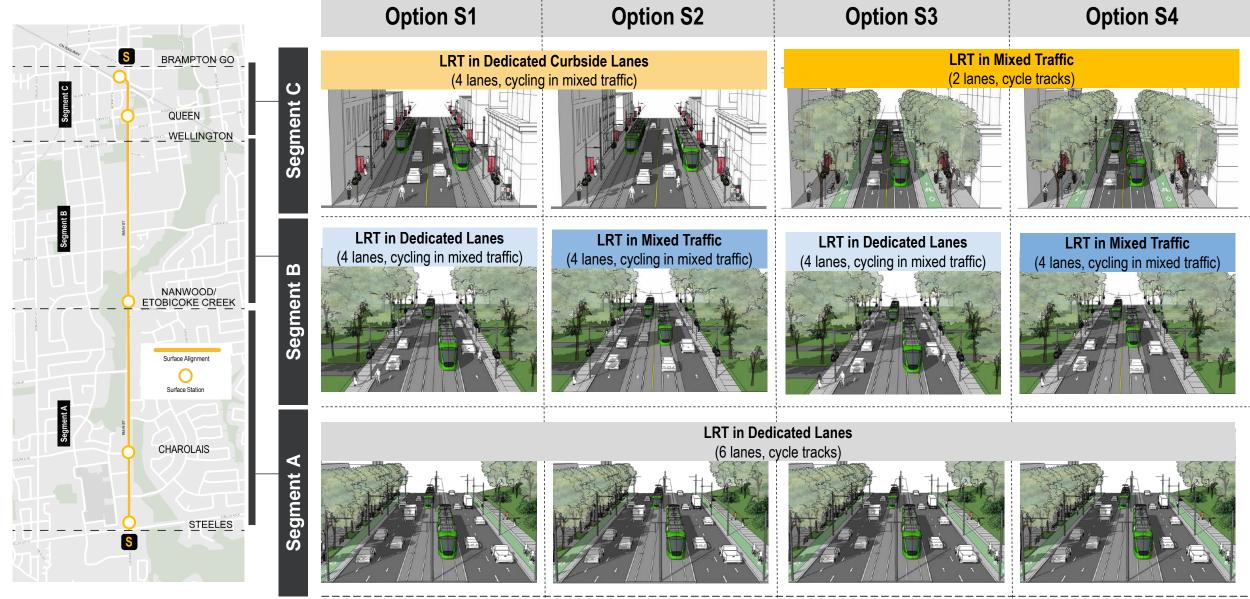
#### For underground options, stations are proposed at:

- Brampton GO
- Nanwood
- Charolais (surface stop)
- Gateway Terminal (surface stop)

**Note:** A station at Wellington Street was screened out during short list phase due its proximity to Brampton GO Station and high cost.



# **Short List: Surface Options**



### **Surface Options: Evaluation Summary**

Comparison of how each option performs relative to the rest.

			Worst	Comparable	Best	
The evaluation summarizes key performance measures to help compare the surface options.		Option S1	Option S2	Option S3	Option S4	
Strategic Case	Transit Travel Time*	8 minutes	11 minutes	9 minutes	12 minutes	
How and why should the investment be pursued; based on regional goals, plans and	Auto Travel Time*	6 minutes	6 minutes	7 minutes	6 minutes	
policies?	Cycling Conditions	Cycle Tracks in Segment A, Discontinuous network on Main St	Cycle Tracks in Segment A, Discontinuous network on Main St	Cycle Tracks in Segment A and C, Discontinuous network on Main St	Cycle Tracks in Segment A and C, Discontinuous network on Main St	
Economic Case What is the investment value to society?	Value for Money	Highest	Lowest	Higher	Lower	
Financial Case What are the financial implications of delivering the investment?	Total Costs	Comparable Total Costs				
Deliverability and Operations Case	Driveway Access Impacts	77 driveways converted to right-in, right-out	19 driveways converted to right-in, right-out	73 driveways converted to right-in, right-out	15 driveways converted to right-in, right-out	
What are the risks and requirement to consider to	Utility Conflicts	24 utility conflicts to be relocated				
deliver and operate the investment?	Property Requirements	Up to 5,100 m <sup>2</sup> of property required				

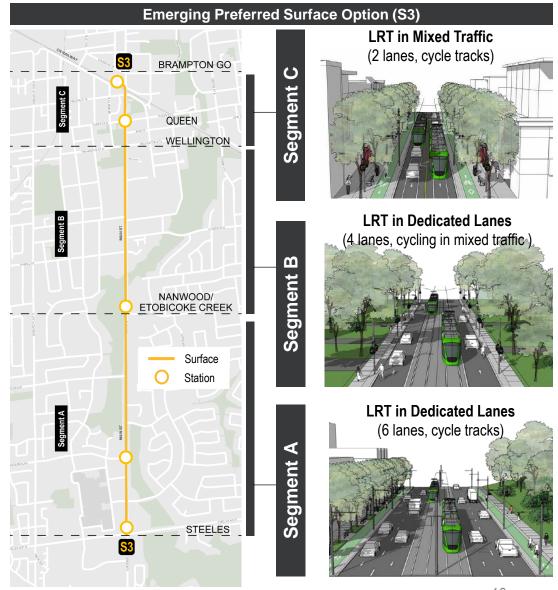
<sup>\*</sup> Travel time between Steeles Avenue and Church Street

# **Surface Options: Evaluation Summary**

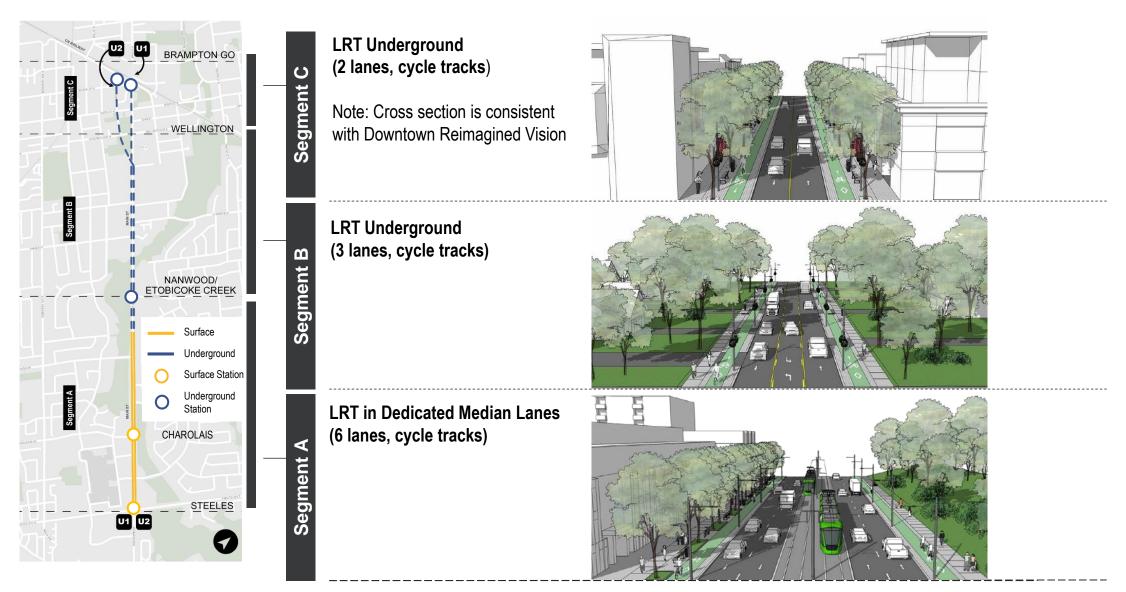
All surface options perform relatively similar; however, Option S3 provides the opportunity to revitalize Downtown Brampton into an aesthetically beautiful, place-making destination with wider sidewalks, streetscaping, and cycle tracks (consistent with Downtown Reimagined Vision) while minimizing overall transit travel time.

Driveway accesses will be modified as a result of the dedicated LRT right-of-way, but this will ensure safe and efficient travel for all users of the street.

Therefore, Option S3 is the emerging preferred surface option.



### **Short List: Underground Options 1 (Main St) & 2 (George St)**



### **Underground Options: Evaluation Summary**

Comparison of how each option performs relative to the rest.

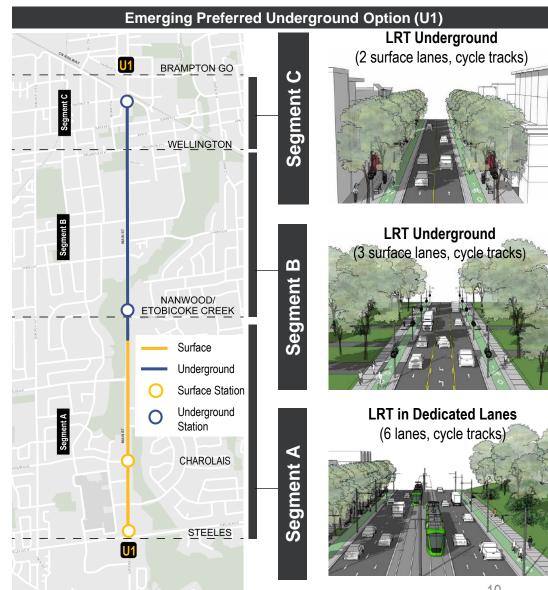
			Worst	Comparable	Best	
The evaluation summarizes I measures to help compare the	• •	Option U1 (via Ma	Option U1 (via Main St) Option U2 (via George S		rge St)	
Strategic Case	Transit Travel Time*	7 minutes		8 minutes		
How and why should the investment be pursued; based on regional goals, plans and	Auto Travel Time*	6 minutes				
policies?	Cycling Conditions	Cycle Tracks in all Segments. Continuous Cycling Network.				
Economic Case What is the investment value to society?	Value for Money	Comparable Value for Money				
Financial Case What are the financial implications of delivering the investment?	Total Costs	Lower		Higher		
Deliverability and	Driveway Access Impacts	All driveways in Segment A converted to right-in, right-out access (9 driveways)				
Operations Case What are the risks and	Utility Conflicts	Minor utility confli	cts	Minor utility conflicts at Brampton GO station		
requirement to consider to deliver and operate the	Property Requirements	Up to 2,700 m <sup>2</sup> of proper	ty required	Up to 5,300 m <sup>2</sup> of property required		
investment?	Potential to Extend	Able to extend north in the future	along Main Street	More difficult to extend north in the Street	future from George	

<sup>\*</sup> Travel time between Steeles Avenue and Church Street

# **Underground Options: Evaluation Summary**

Option U1 (via Main Street) and U2 (via George Street) perform similarly from a strategic perspective. However, Option U1 is more preferred than U2 as it is less costly, located closer to the heart of Downtown Brampton, requires less property takings and is more easily extended north in the future.

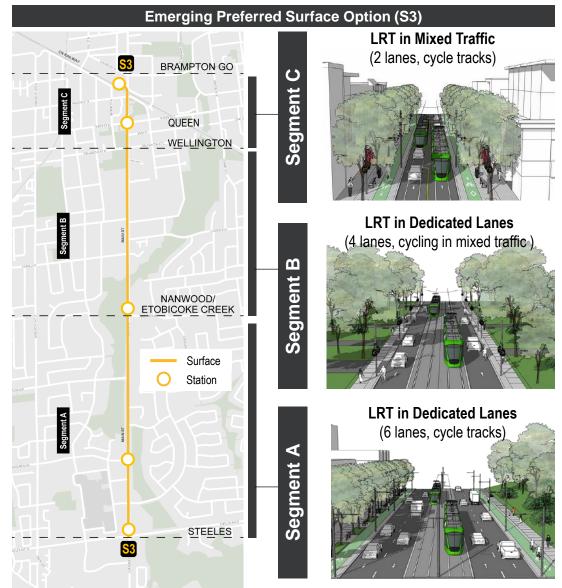
Therefore, Option U1 is the emerging preferred underground option.



### **Emerging Preferred Options**

#### **Surface Option S3**

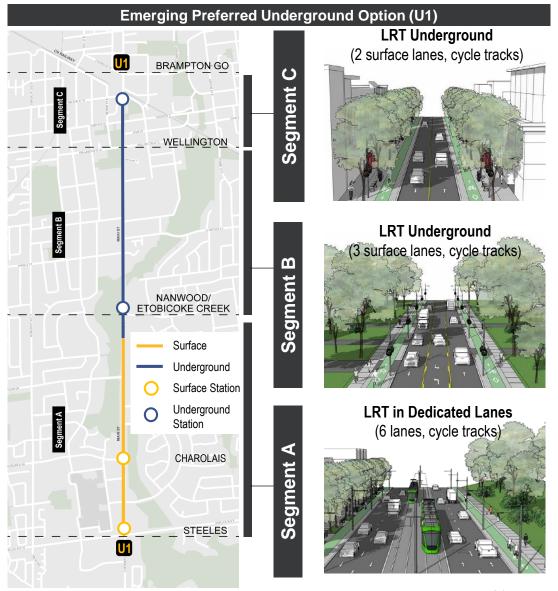
- The LRT will run in dedicated lanes between Steeles Avenue and Wellington Street and in shared lanes from Wellington Street to the Brampton GO Station.
- Option S3 allows for an enhanced streetscape in Segments A and C, including: cycle tracks, widened sidewalks, and a planting and furnishing zone. Cyclists must ride in mixed traffic in Segment B or use parallel routes.
- Driveways in Segment B will be modified to right-in, right out access.
- Overhead catenary systems and traction power substations (TPSS) will be located above ground in the study area.



### **Emerging Preferred Options**

#### **Underground Option U1**

- The LRT will run in dedicated lanes north of Steeles Avenue to Elgin Drive then run underground from just south of Nanwood Drive to the Brampton GO Station along Main Street.
- Option U1 allows for an enhanced streetscape in Segments A, B, and C, including: cycle tracks, widened sidewalks, and a planting and furnishing zone. Option U1 allows for a continuous cycling network along Main Street.
- No access modifications are required in Segment B. Traction Power Substations (TPSS) will be located within underground stations.
- The portal and the two underground stations are located in the floodplain. Potential impacts to be mitigated.



**Best** 

Comparable

### PDBC SUMMARY

**Option S3 Option U1 (via Main St)** 9 minutes 7 minutes **Transit Travel Time** from Steeles Ave to Church St from Steeles Ave to Church St 7 minutes 6 minutes **Auto Travel Time** from Steeles Ave to Church St from Steeles Ave to Church St Discontinuous Cycling Network along Main Street Continuous Cycling Network along Main Street **Cycling Conditions** Cycle tracks in all Segments Cycle tracks in Segments A and C and cycling in mixed traffic in Segment B **Strategic Case** Enhanced Streetscape Features in Segments A and C, Enhanced Streetscape Features in Segments A,B and C, **Pedestrian Conditions** including: widened sidewalks and furnishing zones. including: widened sidewalks and furnishing zones. Limits Opportunity **Provides Opportunity Civic Events** to Close Downtown Streets for Civic Events to Close Downtown Streets for Civic Events **Cultural & Natural Greater Impacts Lower Impacts** Heritage impacts **Economic Case** Higher Value for Money Lower **Financial Case Total Costs** Lower Higher 73 driveways converted to right-in, right-out access 9 driveways converted to right-in, right-out access **Access Impacts** Potential for impact to emergency / service vehicle operations Minimal impact to emergency / service vehicle operations **Deliverability and Utility Conflicts** 24 utility conflicts to be relocated Minor utility conflicts to be relocated **Operations Case** Up to 2,700 m<sup>2</sup> of property required 22 Up to 5,100 m<sup>2</sup> of property required **Property Requirements** 

Worst

### **Next Steps**

Following virtual Open House 2 (March 25<sup>th</sup> to April 15<sup>th</sup>), the project team will review and summarize feedback provided by the public and stakeholders.

Staff will prepare a Council Report to update Council on the Public Feedback Report and recommendation for next steps.

