

**Public Information Centre (PIC) #2 for the Clarkson Road  
& Lakeshore Road Intersections Improvements  
Municipal Class Environmental Assessment  
November 10<sup>th</sup>, 2021**

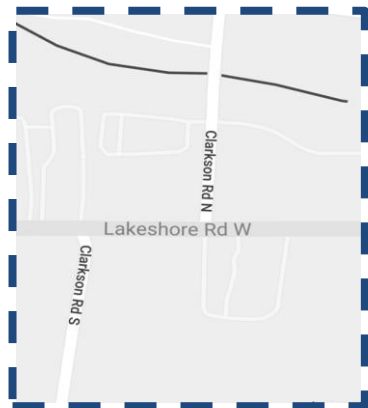
# Study Purpose

The City is completing an **Environmental Assessment (EA)** study to investigate opportunities to improve the operations, safety and mobility for all road users at the **Lakeshore Road West and Clarkson Road North / Clarkson Road South intersections.**



## We want to hear from you

Please provide input on your experience, problems you are facing, and opportunities you envision surrounding the Lakeshore Road West and Clarkson Road North/South intersections. **We welcome all feedback.**

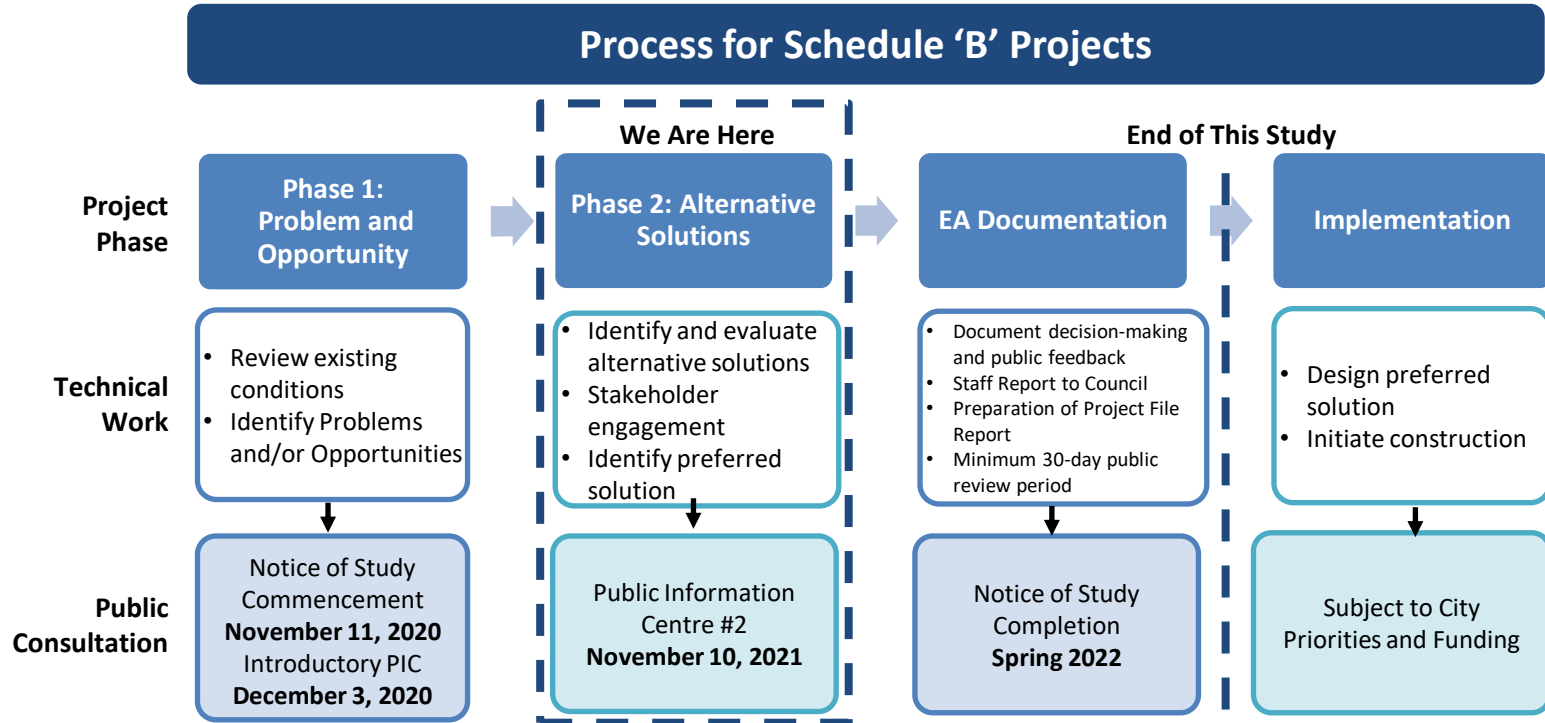


## Why are we here?

- Re-introduce the project to the community and share key feedback received on the project so far
  - Share existing conditions in the study area
- Present the **refined potential solutions** and their evaluation
  - Present the **preliminary preferred solution** and anticipated **mitigation measures**
- Obtain your **input** and **answer any questions** you may have
  - Discuss **next steps**

# What is an Environmental Assessment?

- An **Environmental Assessment (EA)** is a planning and approval process for municipal infrastructure projects, following Ontario's Environmental Assessment Act.
- This study is following the **Class EA process for 'Schedule B'** projects.



# What we have heard so far

Key themes included:



## Concerns about **traffic operations**



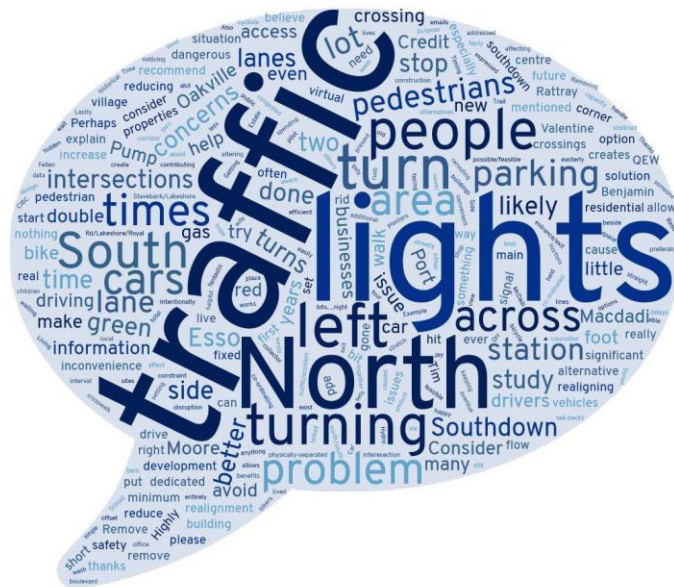
## Signal timing optimization as an alternative



## Concerns about **safety** for all road users



## Need for greater consideration for **active transportation** in the corridor



# Existing Roadway Conditions



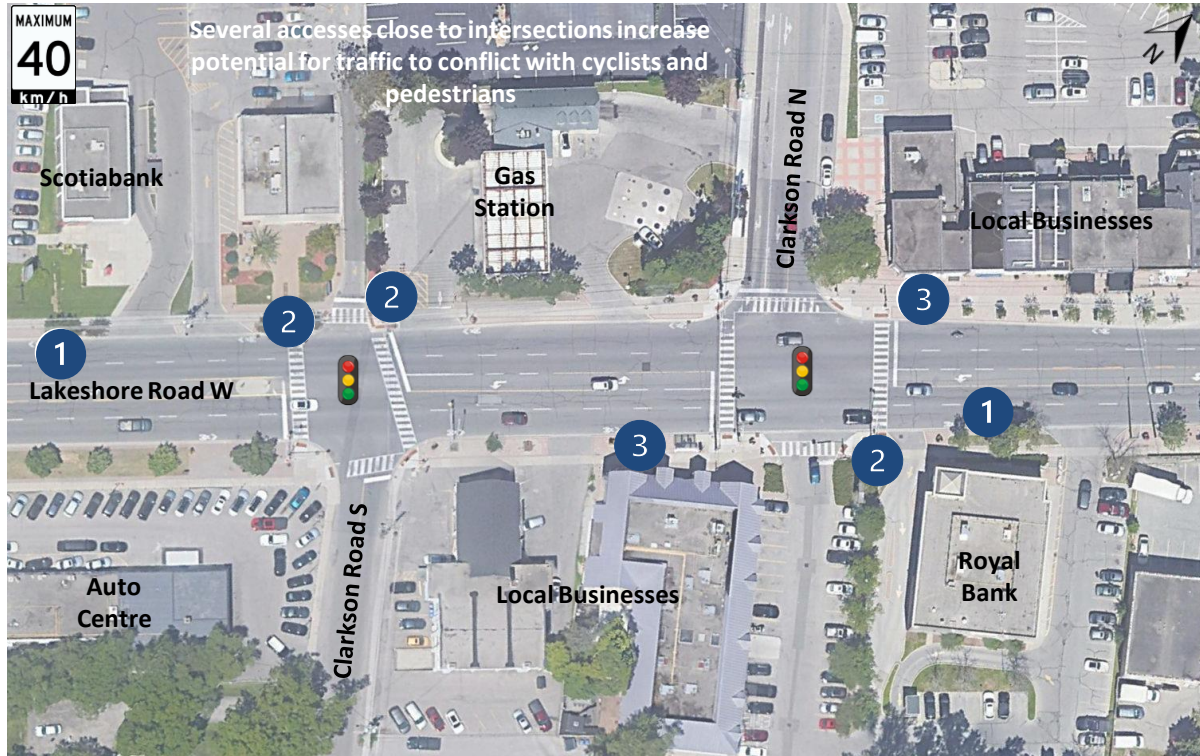
- 1 Posted speed recently reduced to 40 km/h
- 2 Several accesses close to the intersections exacerbate traffic issues
- 3 Intersections are close together (75 m) with back-to-back turning lanes
- 4 Designated heritage property constrains right of way
- 5 Two lane cross section (one per direction)

Lakeshore Road W at Clarkson Road S



Lakeshore Road West has two lanes in each direction with left-turn lanes

# Existing Active Transportation & Transit Conditions



- 1 'Sharrows' (cyclists and traffic share lanes) are less desirable than dedicated facilities
- 2 Obstacles (signal poles/controller cabinet) within pedestrian walkway
- 3 Route 23 bus stop/shelter (shelter for eastbound only)



Poles obstructing walkway in northwest corner of Lakeshore Road W/Clarkson Road S intersection

# Transportation Analysis

## Traffic Analysis

Existing conditions are acceptable; significant congestion will be experienced in the future (horizon years of 2031 and 2041 were considered for this study)

As traffic increases there will be congestion and queueing between the intersections due to overlapping left-turn movements

More congestion expected in the future due to commercial driveways

Future-year modelling has shown eastbound left-turn queues will block 'through' traffic

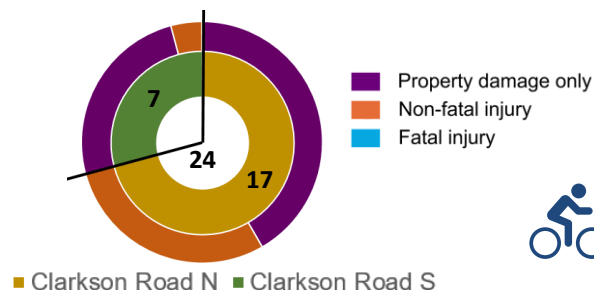


## Collision Analysis

Collision analysis was completed based on data from 2014 to 2019. A total of 24 collisions were reported at the intersections during that time.

The majority of collisions occurred at Clarkson Rd N (17 out of 24) and the most common collision type over both intersections was 'turning movement' (7 out of 24).

0 fatal collisions were recorded.



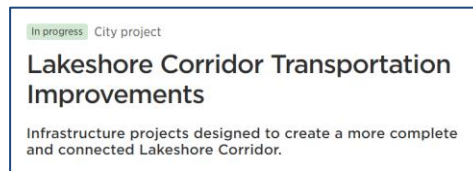
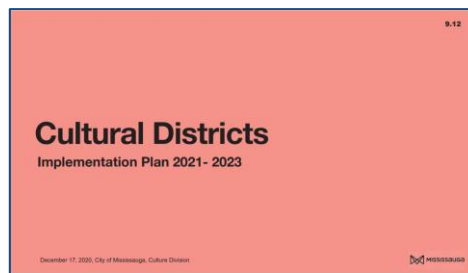
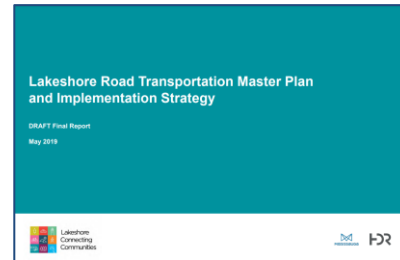
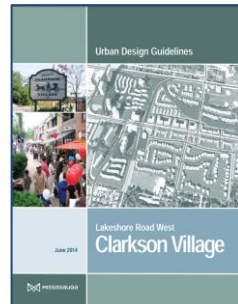
### Pedestrian and Cyclist Collisions

5 pedestrian and 0 cyclist collisions reported at the intersections



# Planning and Policy Context / Related Studies

The following municipal planning and policy documents and related studies were reviewed and continue to inform this study:



# Key Technical Studies


The following technical studies are being undertaken to inform the evaluation of alternatives and provide input into identification of impacts and mitigation measures:

 Stage 1 Archaeology Assessment

 Cultural Heritage Resource Assessment


 Natural Environment Assessment

 Arborist Report / Tree Inventory

 Socio-Economic Assessment

 Noise Assessment

 Phase 1 Environmental Site Assessment

 Access Management Review

 Benefit Cost Analysis

 Traffic Operations Analysis

 Roundabout Screening Report

 Traffic Safety Report

 Air Quality Assessment

 Stormwater Management and Drainage

# Key Study Area Constraints

1

Turtle Creek located north of Lakeshore Road W



Commercial businesses surround both intersections

2

3

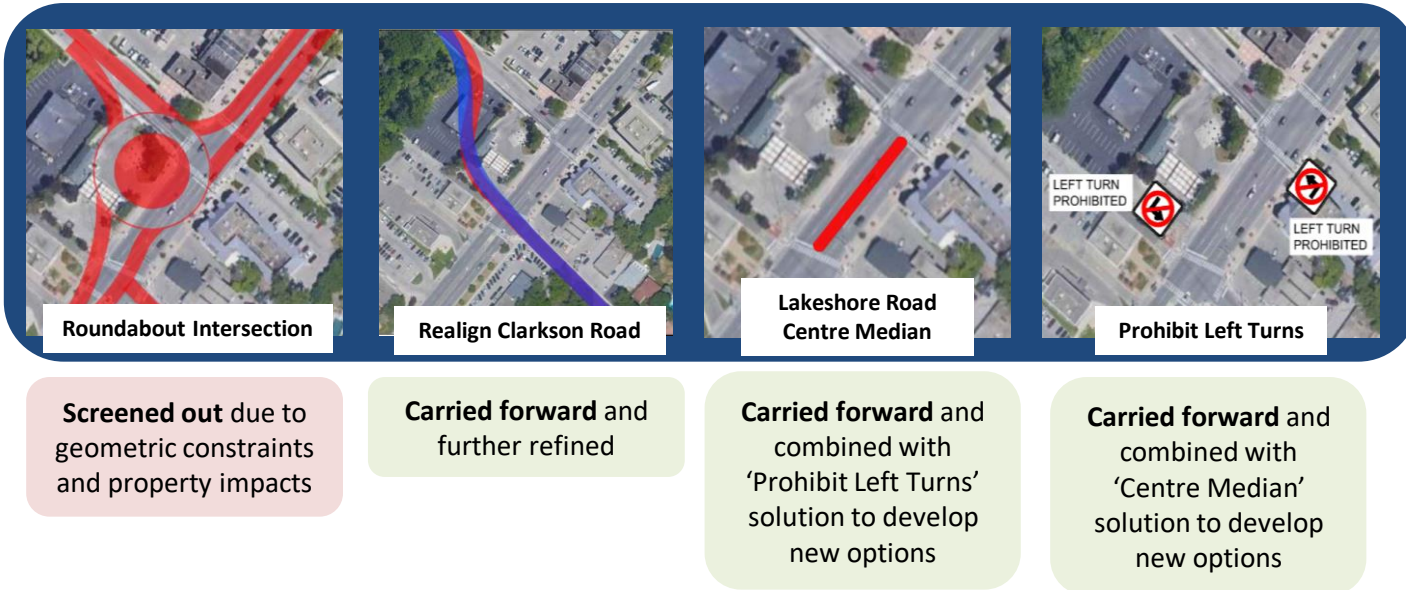
Cultural heritage property (former church) located near Lakeshore Road W & Clarkson Road S intersection



- Commercial Area
- Residential Area
- Turtle Creek

# Development of Alternative Solutions

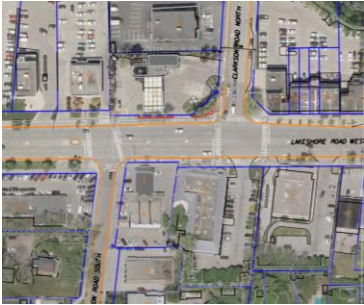
- Four potential solutions were shown at the Introductory PIC, as shown below
- Following the PIC, the solutions were screened and refined following public input



# Development of Alternative Solutions (Cont'd)

The following solutions were developed by combining characteristics of the original solutions and further refining the designs.

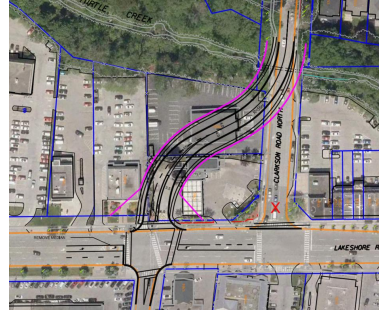
## Do Nothing



### Do Nothing

- Maintain the status quo
- Monitor traffic signals and further optimize when required
- Intersections subject to large traffic congestion and delay in future years

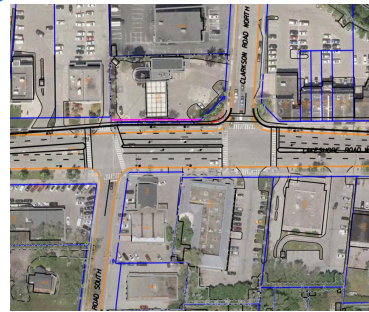
## Solution 1



### Realign Clarkson Road North

- Clarkson Road North realigned to tie into intersection at Clarkson Road South / Lakeshore Road
- Clarkson Road North / Lakeshore Road intersection closed

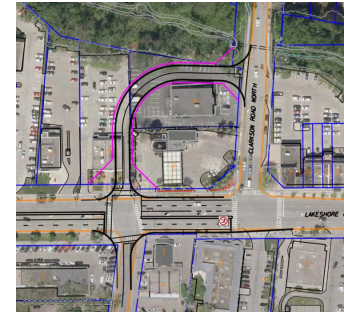
## Solution 2



### Centre Median and Widen Lakeshore Road

- Lakeshore Road widened to accommodate eastbound/westbound left turn lanes between Clarkson Road North and South
- Raised centre median constructed on Lakeshore Road

## Solution 3

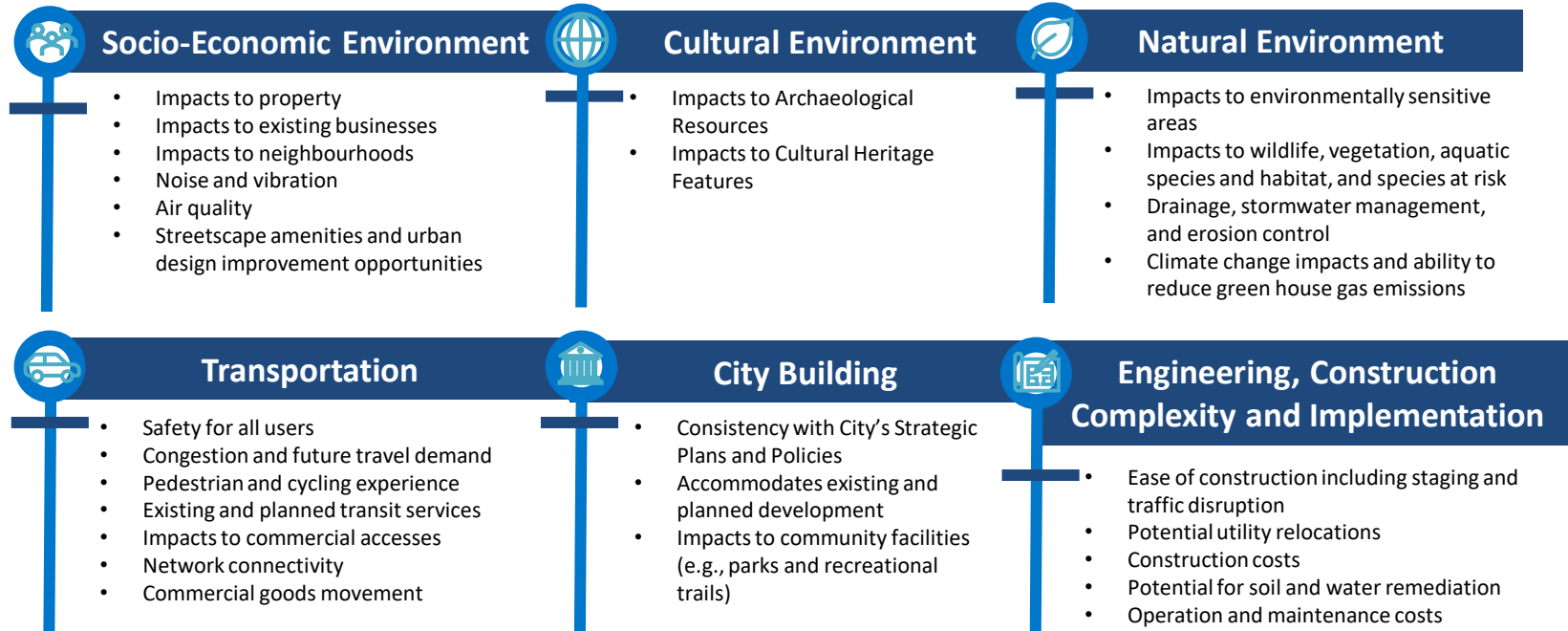


### Centre Median and Eastbound Left Turn via 'Laneway'

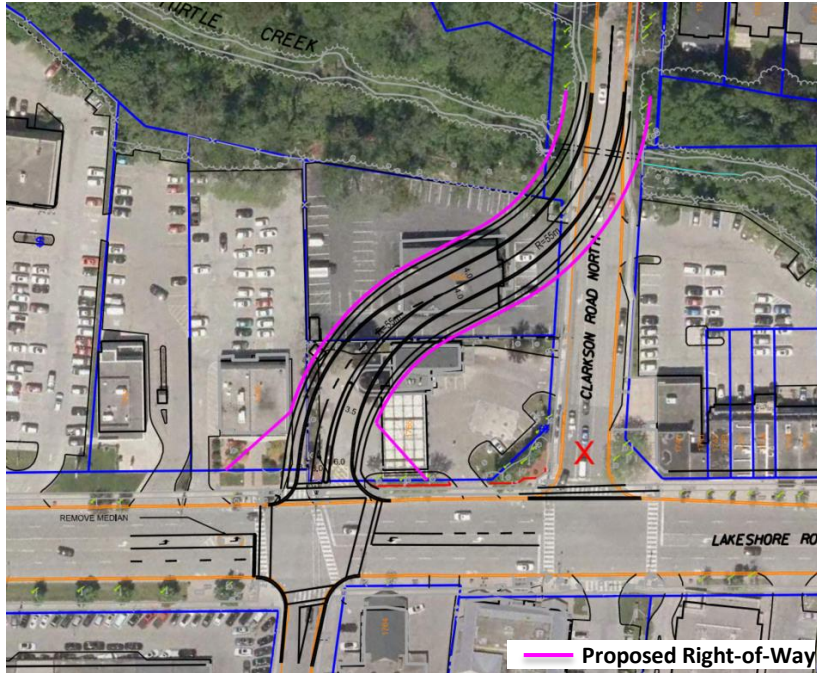
- Eastbound left turns from Lakeshore Road to Clarkson Road North prohibited
- Eastbound vehicles use laneway to access Clarkson Road North
- Raised centre median constructed on Lakeshore Road

# Evaluation Criteria

The following criteria was used to evaluate the alternative solutions:



# Solution 1 – Realign Clarkson Road North



## Key Advantages:

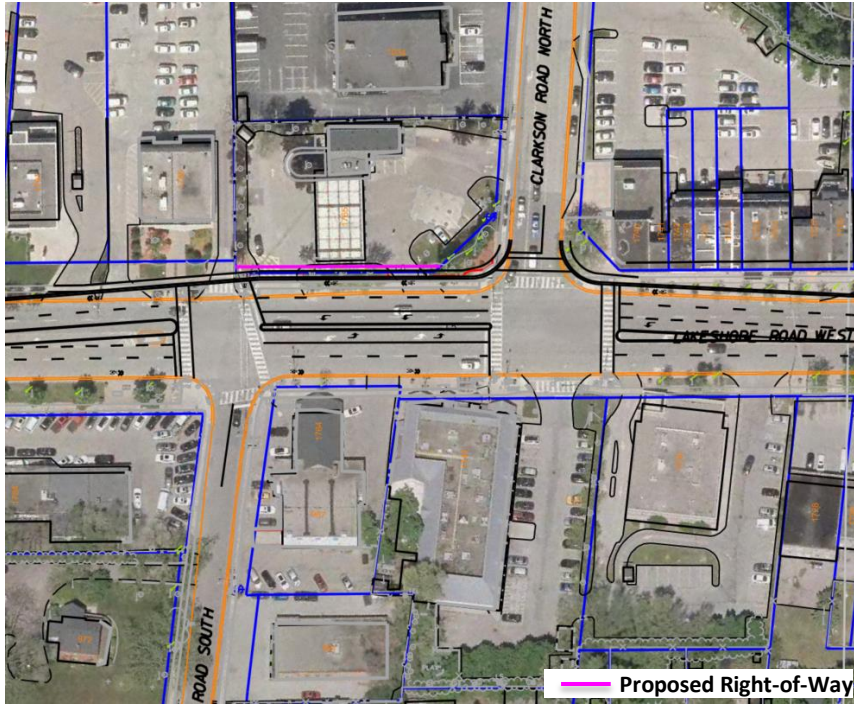
- Most desired from the design perspective, as it eliminates the offset intersections



## Key Disadvantages:

- Most property impacts
- Most costly
- Access impacts for businesses on Lakeshore Road West
- Likely need for soil remediation (gas station property)

# Solution 2 – Centre Median and Widen Lakeshore Road



## Key Advantages:

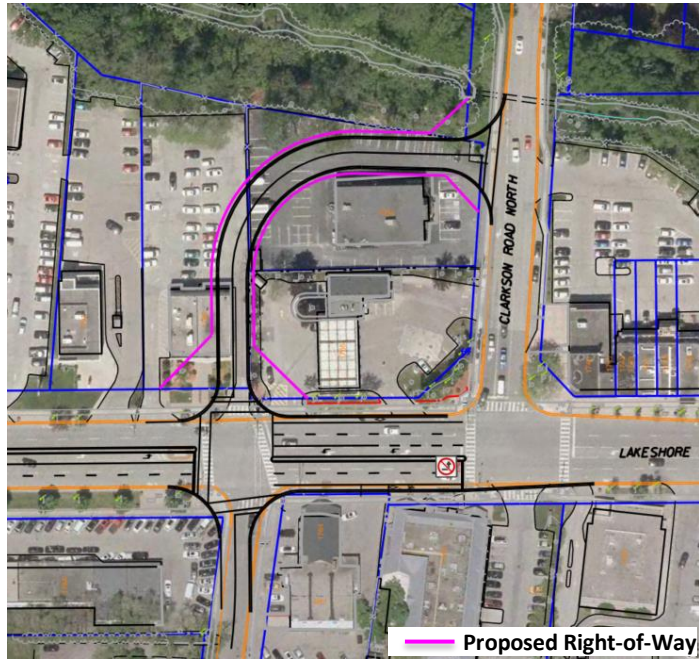
- Lesser property impacts
- Lesser construction
- Retains full movements at existing intersections
- Lesser cost



## Key Disadvantages:

- Access impacts to businesses along Lakeshore Road West
- Likely need for soil remediation (gas station property)

# Solution 3 – Centre Median and Eastbound Left-turn via ‘Laneway’



## Key Advantages:

- Aligned with City access management plan and use of ‘laneway’



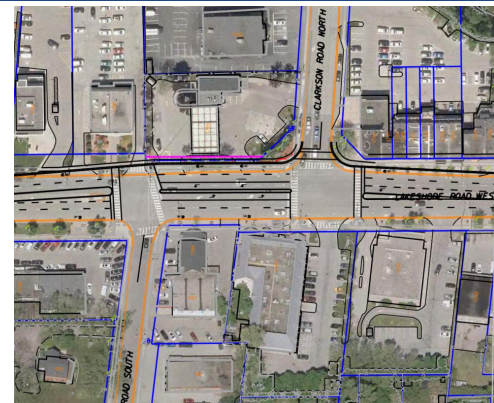
## Key Disadvantages:

- Property / business impacts
- Moderate cost
- Access impacts to businesses along Lakeshore Road West
- Likely need for soil remediation (gas station property)

# Evaluation of Alternative Solutions

Criteria	Do Nothing	Solution 1 Realigned Clarkson Road North	Solution 2 Centre Median and Widen Lakeshore Road West	Solution 3 Centre Left Turn Lane and 'Laneway'
Socio-Economic Environment	Least Preferred	Least Preferred	More Preferred	Less Preferred
Cultural Environment	Least Preferred	No Preference	No Preference	No Preference
Natural Environment	Least Preferred	Less Preferred	More Preferred	Least Preferred
Transportation	Least Preferred	Most Preferred	More Preferred	No Preference
Engineering, Cost, Construction Complexity and Implementation	Least Preferred	Least Preferred	More Preferred	Less Preferred
Cost (includes est. property costs)	Most Preferred	Least Preferred	Most Preferred	Least Preferred
City Building	Least Preferred	No Preference	More Preferred	Most Preferred
Overall Recommendation			Most Preferred	

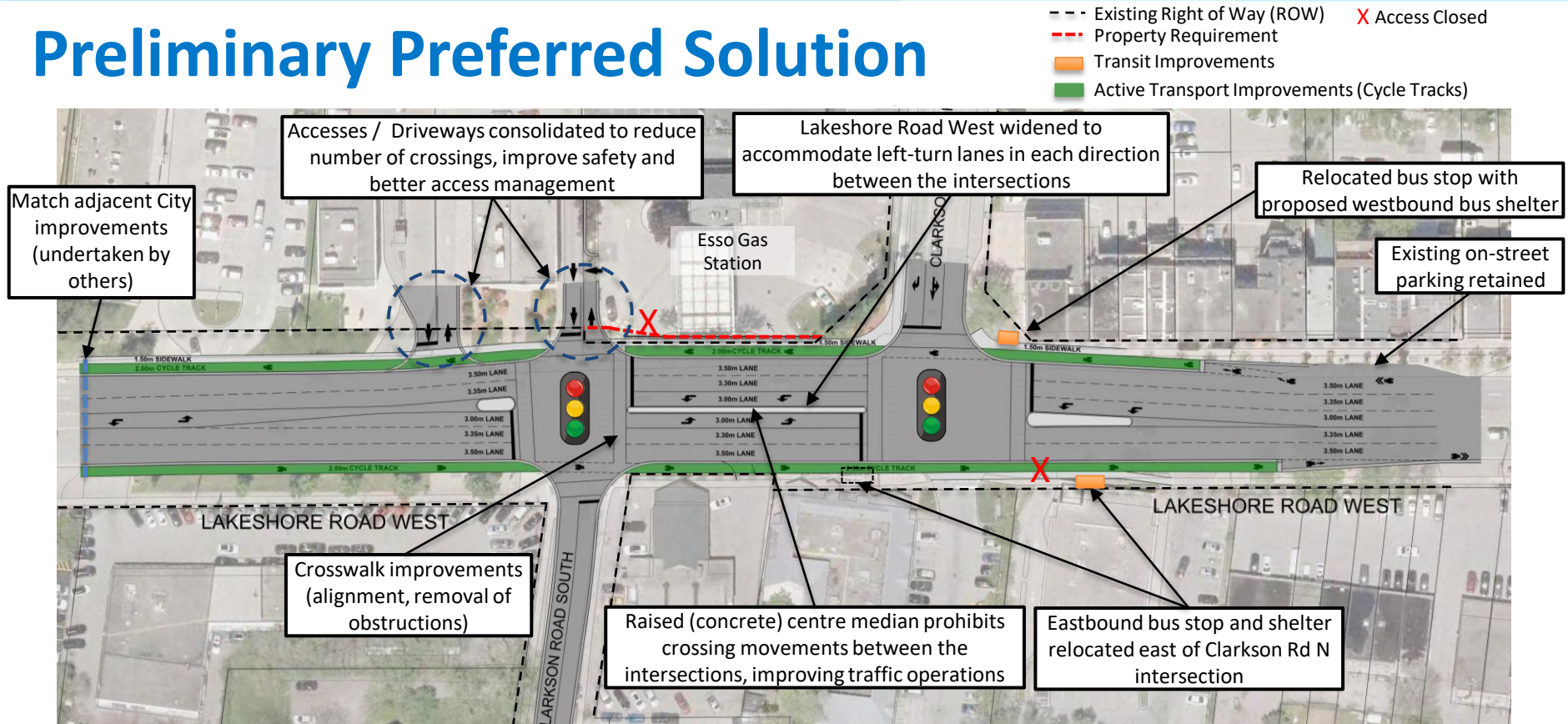
## Alternative 2



### Centre Median and Widen Lakeshore Road W

**Alternative 2 is preferred** because it improves safety and operations at the intersection with minimal property impacts and much lower construction costs, compared with the other alternatives

## Preliminary Preferred Solution



## Preliminary Preferred Solution (Cont'd)

## Problem and Opportunity Statement

(from Introductory PIC held December 3, 2020)

- The intersections of Lakeshore Road West and Clarkson Road North / Clarkson Road South are offset by approximately 75m, resulting in two closely spaced signalized intersections
- Concerns have been raised by local residents regarding the operation of the two closely spaced intersections and interspersed commercial entrances
- There is an opportunity to review the Lakeshore Road West and Clarkson Road North / Clarkson Road South intersections and improve the operations, safety and mobility for all road users at the intersection

## Proposed Improvements

- Additional left-turn queue storage between the intersections will improve **traffic operations**
- Raised centre median and the consolidation of accesses/driveways will reduce traffic conflicts and improve **safety**
- Addition of cycle tracks on Lakeshore Road West (see below) improve **safety and mobility for all**

**Preliminary Proposed Cross-section: Lakeshore Road West (Right Of Way width varies)**



Image source:  
Streetmix

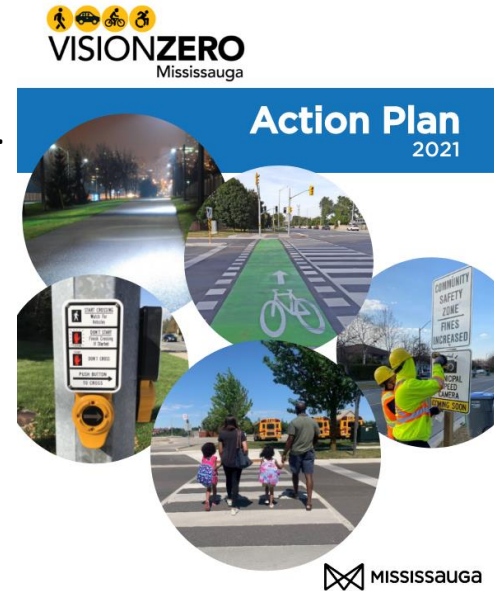
# Vision Zero

In 2018, the City committed to Vision Zero through a Council-approved motion. This means the City is working toward a goal of ZERO fatalities and serious injuries from collisions on city streets.

The Vision Zero Action plan consists of 99 actions to help achieve this goal.

With these improvements, the following Vision Zero Actions are undertaken:

- Lane widths (i.e., narrower lane widths help improve speed compliance)
- Protected and Dedicated Cycling Infrastructure
- Vehicle Access Points (i.e., limit number of access points / conflict zones)
- Bus Stop Infrastructure (i.e., implementation of shelters)
- Sightline Improvements (i.e., improve driver visibility at intersections)



# Next Steps & Project Timeline

- The City will compile the feedback received from this Public Information Centre to assist in confirming the preferred solutions
- A Project File Report will be prepared for filing and made available for a minimum 30-day public review period, prior to EA approval



# Get Involved

**Provide feedback about this Public Information Centre by December 10, 2021**



**Visit our Website:**

**[mississauga.ca/lakeshore-clarkson](https://mississauga.ca/lakeshore-clarkson)**



**Join the Study Mailing List**



**Individual meetings**



**Call 311**

Any project related questions can be directed to:

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City of Mississauga  
Project Manager

Email: [Rory.Osullivan@mississauga.ca](mailto:Rory.Osullivan@mississauga.ca)