

Main Street Two-Way Conversion

Public Information Centre

May 18, 2023









Land Acknowledgment

The City of Hamilton is situated upon the traditional territories of the Erie, Neutral, Huron-Wendat, Haudenosaunee and Mississaugas. This land is covered by the Dish With One Spoon Wampum Belt Covenant, which was an agreement between the Haudenosaunee and Anishinaabek to share and care for the resources around the Great Lakes. We further acknowledge that this land is covered by the Between the Lakes Purchase, 1792, between the Crown and the Mississaugas of the Credit First Nation.

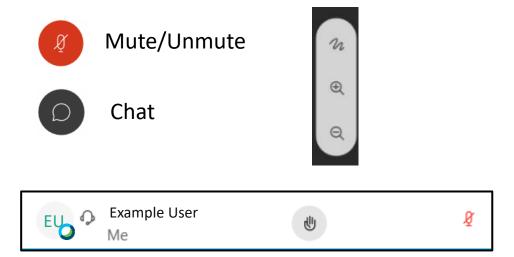
Today, the City of Hamilton is home to many Indigenous people from across Turtle Island (North America) and we recognize that we must do more to learn about the rich history of this land so that we can better understand our roles as residents, neighbours, partners and caretakers.



Webex Instructions

Rules and How-To:

- Participants will remain muted during presentation
- Questions can be asked by using the Chat Function
- Please keep questions as brief as possible
- Magnifying glass can be used to zoom in on an item





Introductions

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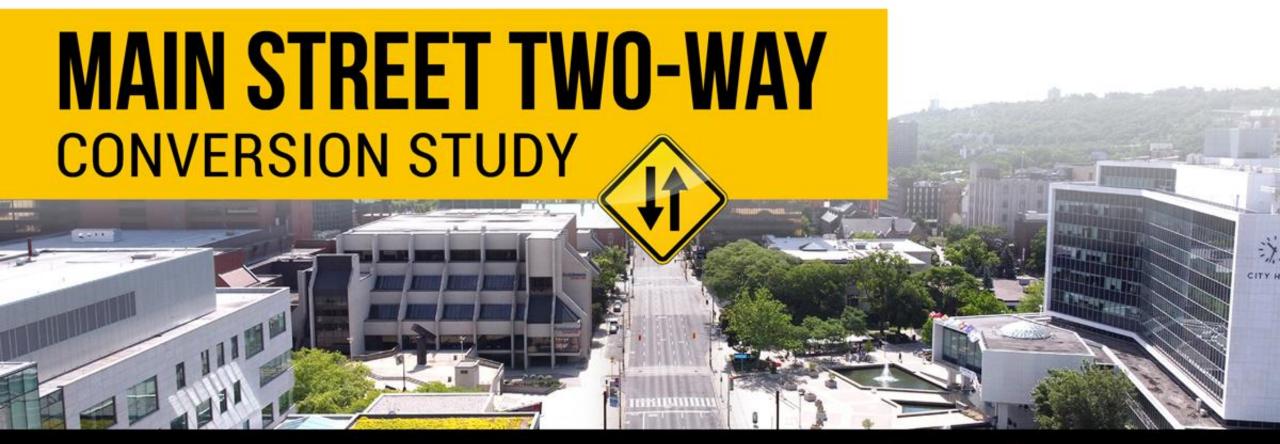
Jackie Kennedy
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Agenda

1 Project Background

4 Next Steps

2 Existing Conditions

5 Q&A

3 Design Alternatives

Project Background



Council's Direction

Safety Enhancements to Major Arterial Roads: May 11, 2022

- Identify actions that can be taken immediately to improve safety for all users along Main Street and King Street;
- Convert Main Street to two-way operation integrating complete streets and climate resiliency to enable the safer use of road users including transit riders, pedestrians, motorists and cyclists;
- Undertake public engagement that leverages a Complete Streets, EDI and Climate Change approach; and
- Consult with Metrolinx and MTO regarding two-way conversion considerations for LRT and the 403 interchanges.



Problem and Opportunity Statement

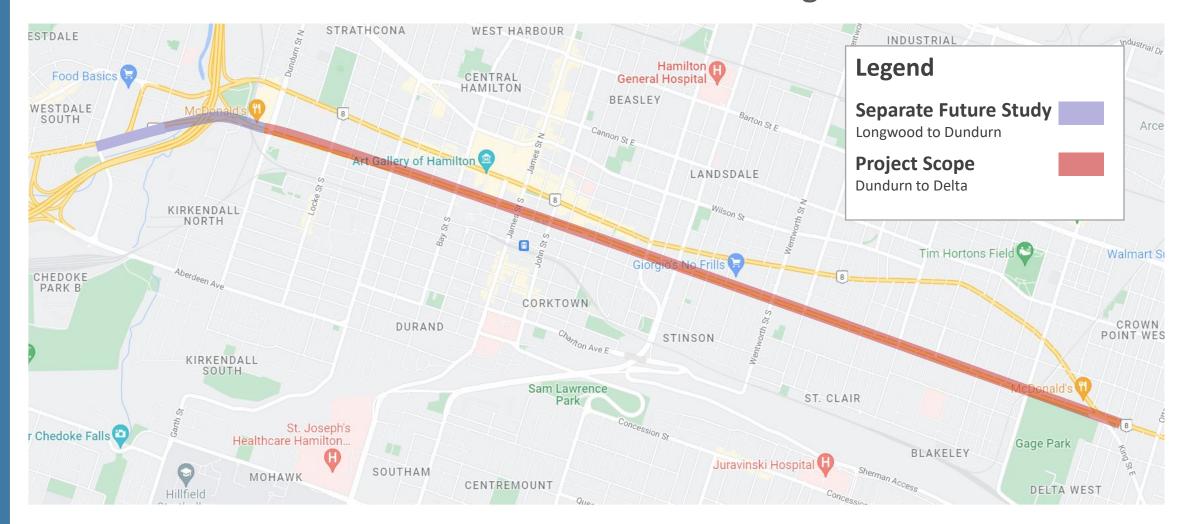
Main Street has historically been a corridor that is unsafe for vehicles, pedestrians and cyclists. In recent years, three major intersections on Main Street were among the top ten intersections with the highest collision rates in the City. In 2022, Council approved a motion focused on the development of further safety enhancements on major arterial roads, including the conversion of Main Street from a one-way to a two-way road. In the coming years, the lower city will also be transformed through the LRT project.

The City has identified an opportunity to plan and implement a roadway redesign for Main Street that is safe, comfortable and vibrant for residents and visitors. In a first phase, an interim solution is needed to convert to a two-way street, to improve safety for all users, to create a more pedestrian-friendly corridor, and to provide two-way transit services along Main Street, targeted prior to the start of LRT construction.



Project Scope

Focused Area: Main Street from Dundurn St to King Street



Study Project Timeline

Appendix "D" to Report PW23074/PED23248

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Here

May

Public Information Center

July

Report to Council



Fall 2022

Winter 2022/23

Spring 2023



Data
Collection and
Background
Research



Development and Evaluation of Alternatives



Evaluate and Select Preferred Alterative



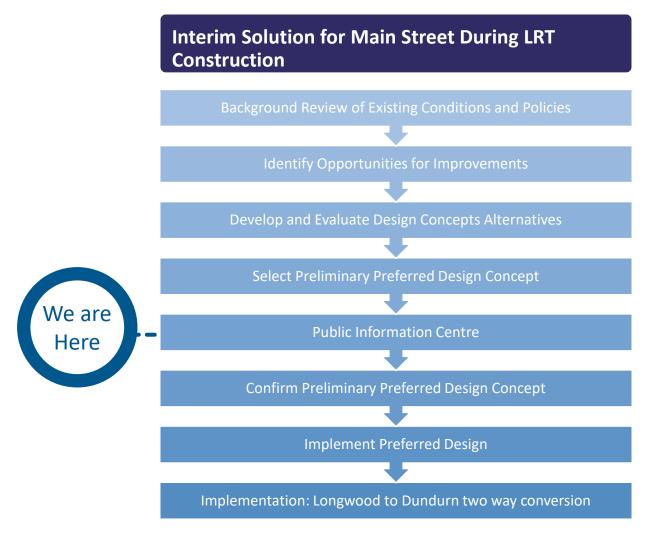
Internal and External Engagement



Finalize Plan & Confirm Design Concept



Study Project Phases





Municipal Class Environmental Assessment

The current project (interim solution) is Exempt from the MCEA:

• Exempt from Phases 1-4 of the MCEA; it can go straight to Phase 5: Implementation

Recognizing the high public profile of this project, and the value of community engagement, we are going **above and beyond** the MCEA requirements by engaging the community and following an MCEA style process.



Existing Conditions



Vision Zero Hamilton

Vision Zero uses a data-based approach to road safety with the goal of reducing traffic related serious injuries and fatalities towards the only acceptable goal: **zero**.



TRADITIONAL APPROACH Traffic deaths are INEVITABLE PERFECT human behaviour Prevent COLLISIONS INDIVIDUAL responsibility Saving lives is EXPENSIVE VISION ZERO Traffic deaths are PREVENTABLE Integrate HUMAN FAILING in approach Prevent FATAL AND SEVERE CRASHES SYSTEMS approach Saving lives is NOT EXPENSIVE



Corridor Collision Review



2,065 collisions from on Main Street between 2017-2022

Intersection Collisions 1,517

 Make up 73% of the collisions (City-wide average is 57%)

 Make up 27% of the collisions (City-wide average is 42%)



• 89.7% of pedestrians involved in a collision are injured



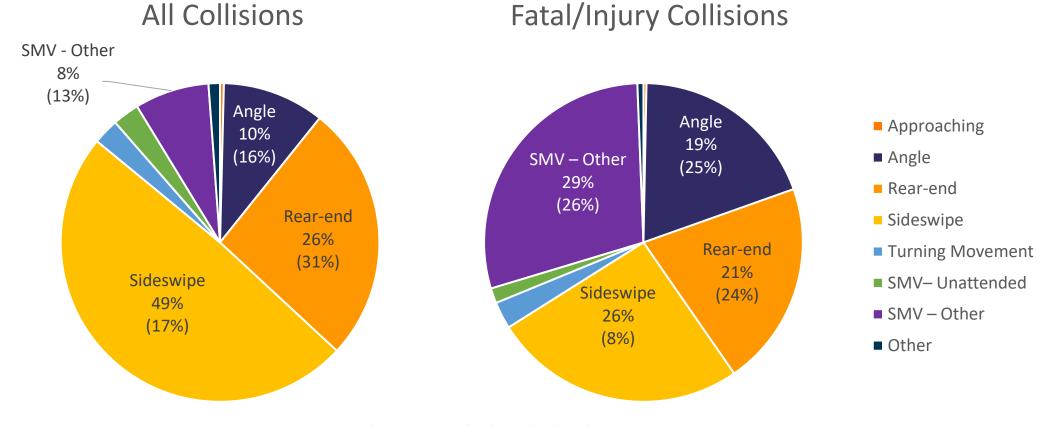
37 Cyclist-involved Collisions

• 77.4% of cyclists involved in a collision are injured



Types of Collisions along the Corridor





Note: City-wide Averages displayed in brackets

Intersections with the Highest Fatal & Injury





Speeding On Main Street

 Speeding accounted for 18% of all reported collisions in 2021 City-wide

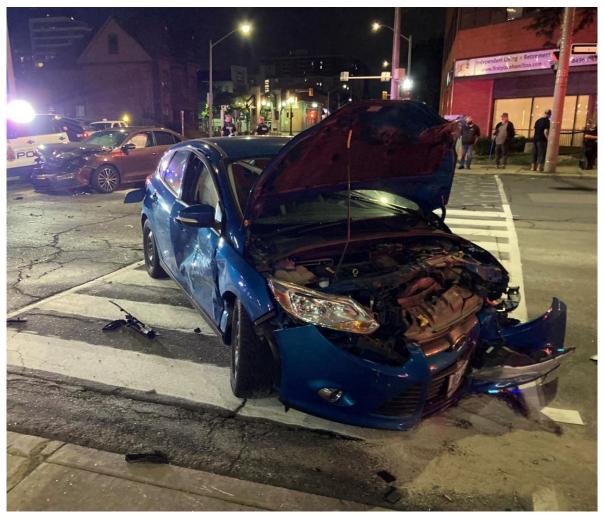
Maximum Speed on Main Street is
 50 km/h

• The 85th percentile speed of vehicles exiting from Highway 403 is **70 km/h**





Safety Concerns



Existing Issues

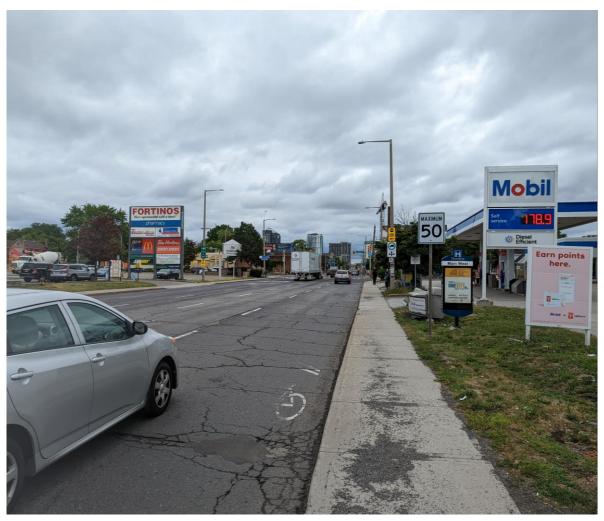
- High number of recorded collisions
- Elevated risk to pedestrians and cyclists due to traffic volumes, operating speeds, and exposure
- Limited separation between motor vehicle traffic and pedestrians/cyclists



The City's Vision Zero Action Plan calls for the elimination of fatal and injury collisions.



Active Transportation Facilities



Existing Issues

- Non-continuous cycling facilities in poor condition with poor markings
- Lack of complete streets design
- Hostile pedestrian environment
- Poor connectivity to other travel routes



The City's Complete Streets Guideline was approved by Council in 2022.



Land use and Built form



Existing Issues

- Buildings close to the right-of-way limit opportunities to widen right of way
- Improvements will generally require reallocation of space within existing right of way
- Multiple planned developments

The City hit an all-time record for building permits in 2022 valued at \$2.1 billion.



Infrastructure condition



Existing Issues

- Deteriorating roadway surfaces
- Sidewalk discontinuities
- Inconsistent AODA compliance
- Decreased ride quality for Transit vehicles
- Increased maintenance costs

AODA says accessible exterior paths of travel ensure that everyone has the basic freedom of movement.



Opportunities



Safety

- Improved pedestrian and cycling safety at intersections
- Additional pedestrian crossing locations
- Reduced pedestrian crossing distances and slow turning motor vehicles



Accessibility

- Plans for accessible transit stops
- Wider pedestrian facilities to increase accessibility, comfort and safety
- Address other accessibility concerns along the corridor
- Additional on street parking



Connectivity

- Enhanced cycling network connectivity with new cycling facilities
- Improved connectivity to transit terminals for pedestrians and cyclists

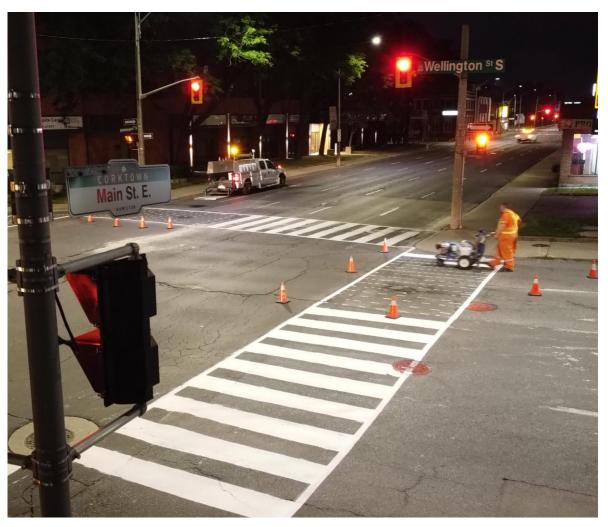


Infrastructure Condition

 Improve the condition of infrastructure, including pavement, sidewalks, etc.



2022 Immediate Safety Measures



Interim Safety Solutions:

- Council directed immediate actions for improving safety for road all users on Main Street and King Street.
- Goal to improve safety, particularly vulnerable users through the measures that separate pedestrians by either time or space from vehicles.
- July 2022 implementing of short-term roadway safety enhancements on Main Street and King Street began and completed in the fall.

Implementing Interim Changes



Lane Reconfiguration



Ladder Crosswalks



Pedestrian Buffers



Leading Pedestrian Intervals
& Countdown Timers



Lane Control Bump Outs



Expanded Street Parking

Implementing Interim Changes



Transit Enhancement



Transit Signal Priority



King St Bus Only Lane



No Right Turn on Red



Community Safety Zones



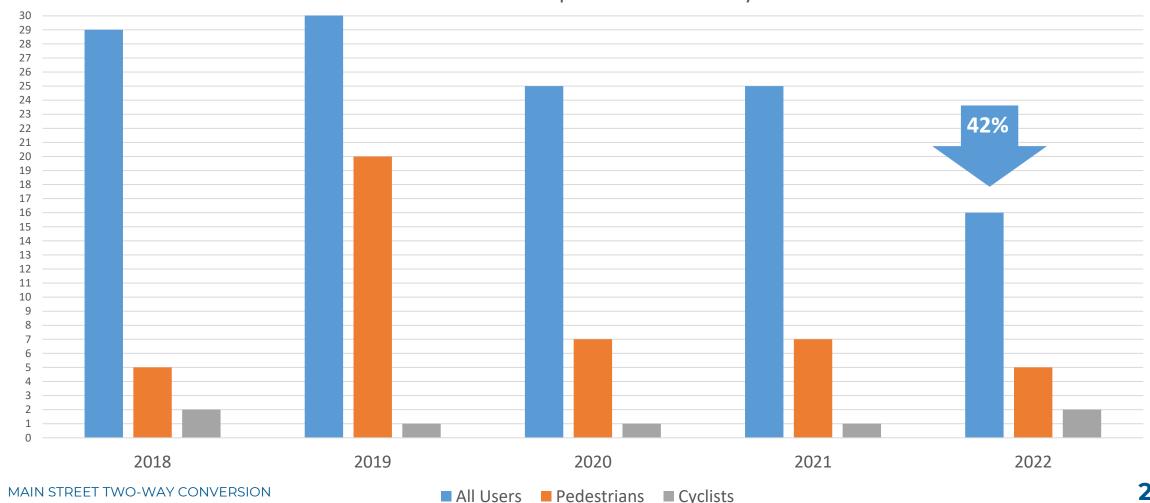
Automated Speed Enforcement

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2022 Immediate Safety Measures

Main Street Injury Collision Summary
Dundurn Street to King Street
Time Period: September 1 - January 31



Design Alternatives



Design Objectives

- Increase safety for all road users
- Pedestrian-friendly corridor
- Improved cycling connectivity
- Prioritize 2-way transit
- Enhance accessibility
- Consider parking and loading needs
- Add greenery and streetscaping elements





Existing Policy Framework



Vision Zero Action Plan (2019)



Pedestrian Mobility Plan (2012)



Cycling Master Plan (2018)



(re)Envision the HSR (2019)



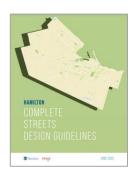
Parking Master Plan (2021)



Transportation Master Plan (2018)



Urban Hamilton Official Plan (2013)



Complete Streets
Design Manual
(2022)



Evaluation Criteria



Safety/Conflict Mitigation

Mitigate conflicts between motorist and cyclists



Two-Way Traffic Operations

Impact to two-way roadway capacity and intersection operations



Pedestrian Friendliness

Have access to safe, walkable and convenient pedestrian routes



Cyclist Network

Provide cycling facilities and connectivity to destinations



Social Health & Equity

Provides a fair and accessible environment for users



Transit Operations

Impact and compatibility with local transit



On-street Parking

Impact to on-street parking supply



Cost

Anticipated cost to construct the conceptual design



Green and Resilient Infrastructure

Provide opportunities for greening, permeable surfaces and beautification



Design Options

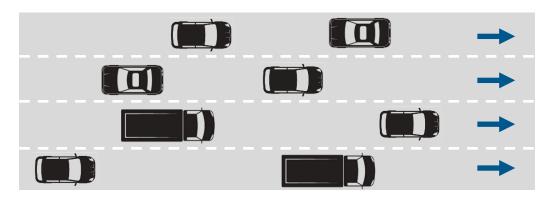
- 1 Option 1: Do Nothing
- Option 2: Symmetric Lane Capacity
- Option 3: Asymmetric Lane Capacity*

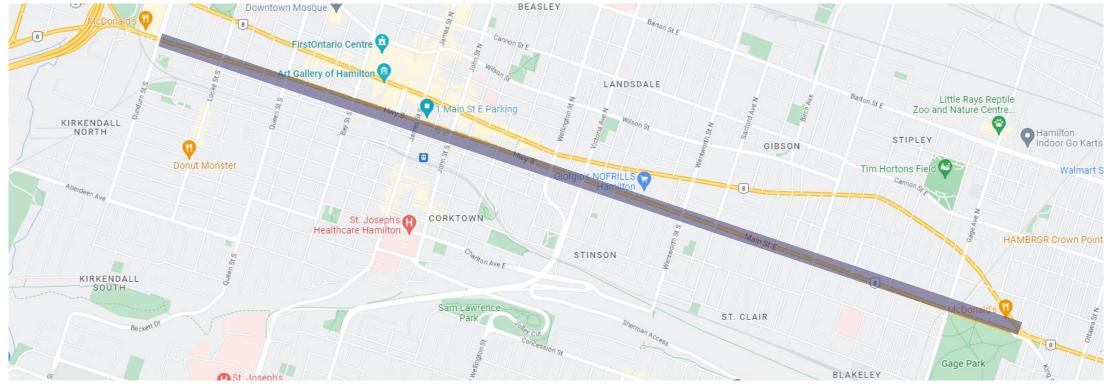
*Note – design changes along the corridor, but with favour to eastbound direction

Option 1 Do Nothing

Option 1: Do Nothing – 4 Eastbound Lanes

- Does not address objective of improving westbound capacity
- Not pedestrian- and cyclist-friendly
- Poor safety outcomes
- Does not improve social health and equity



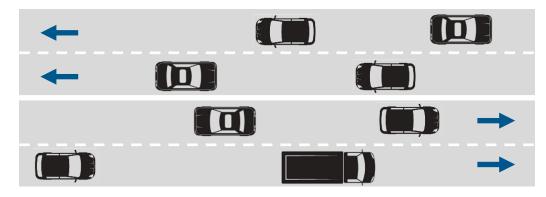


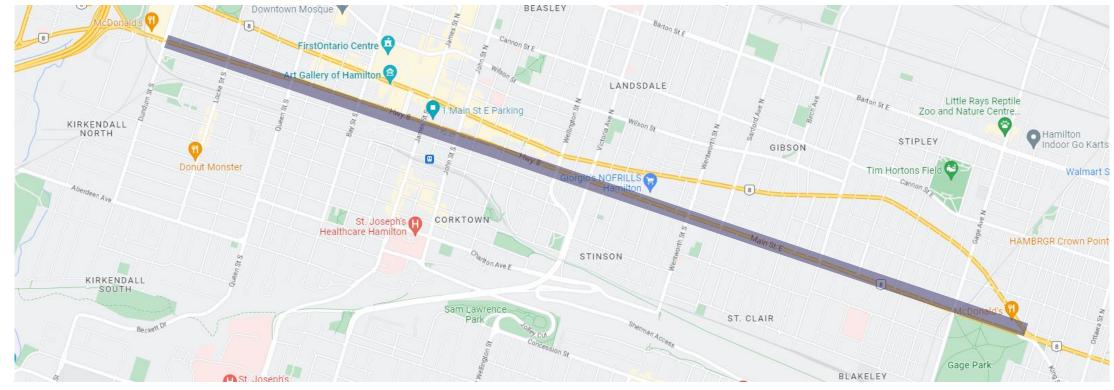
Option 2 Symmetrical Lane Capacity

Option 2: Symmetrical Lane Capacity

 Provides equal amounts of westbound and eastbound capacity on Main Street

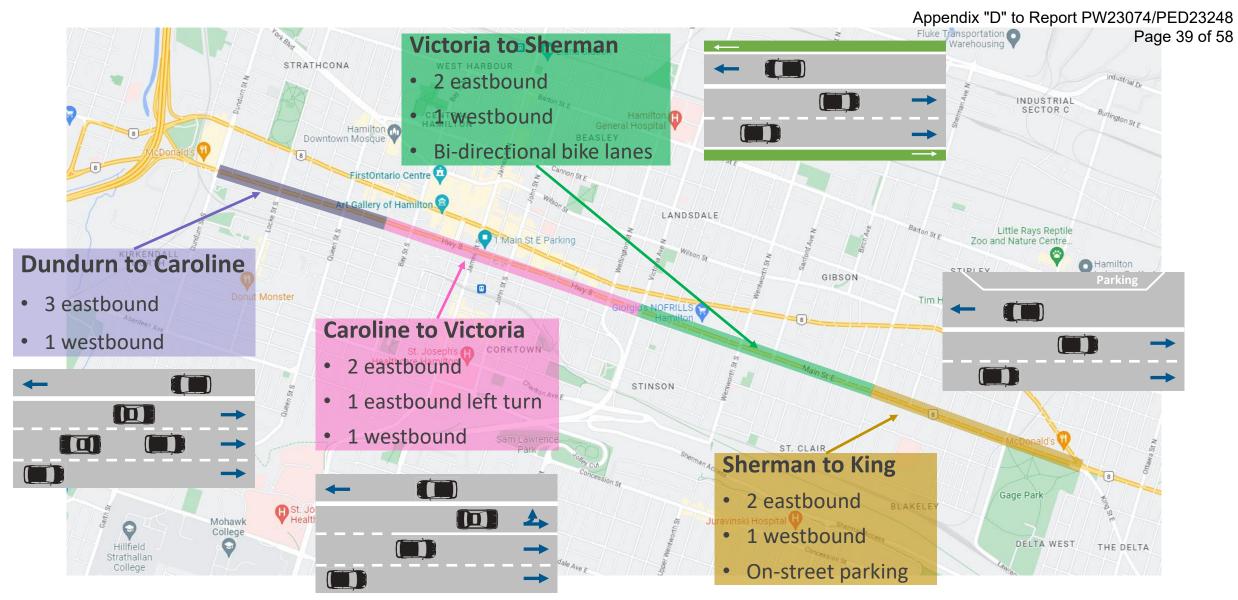
 Traffic congestion worse than Option 1 or Option 3





Option 3 Asymmetrical Lane Capacity

Option 3: Asymmetric Lane Capacity Overview





Design Alternatives Ranking & Evaluation





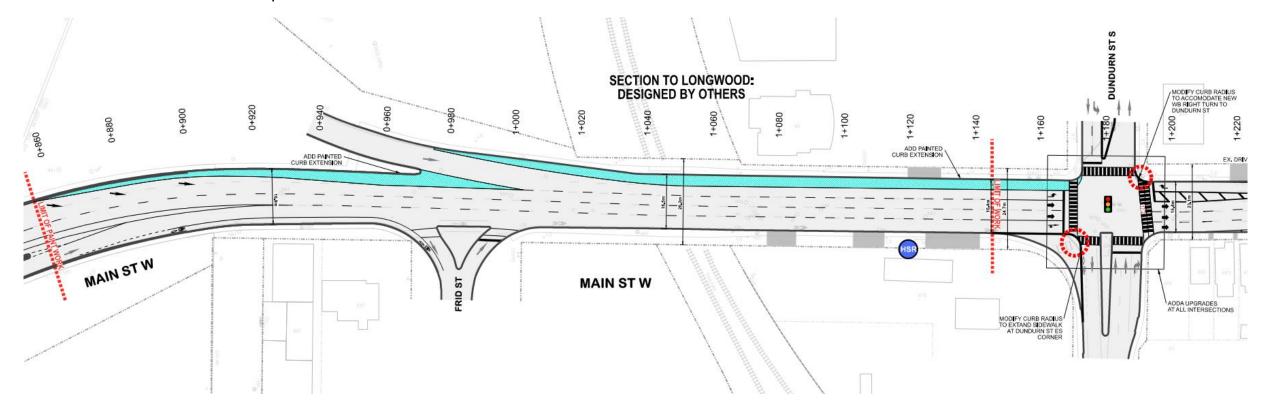


Criteria	Option 1 Do Nothing	Option 2 Symmetric Lanes	Option 3 Asymmetric Lanes
Two-Way Traffic Operations			
Safety/Conflict Mitigation			
Pedestrian Friendliness		•	•
Cyclist Network			
Transit Routing		•	
On-street Parking			L
Cost			•
Social Healthy & Equity			•
Green and Resilient Infrastructure		4	L
Carry Forward	No	No	Yes

A Closer Look: Hwy 403 to Dundurn

Note: Ramp realignments are subject to endorsement/agreement by the Ministry of Transportation

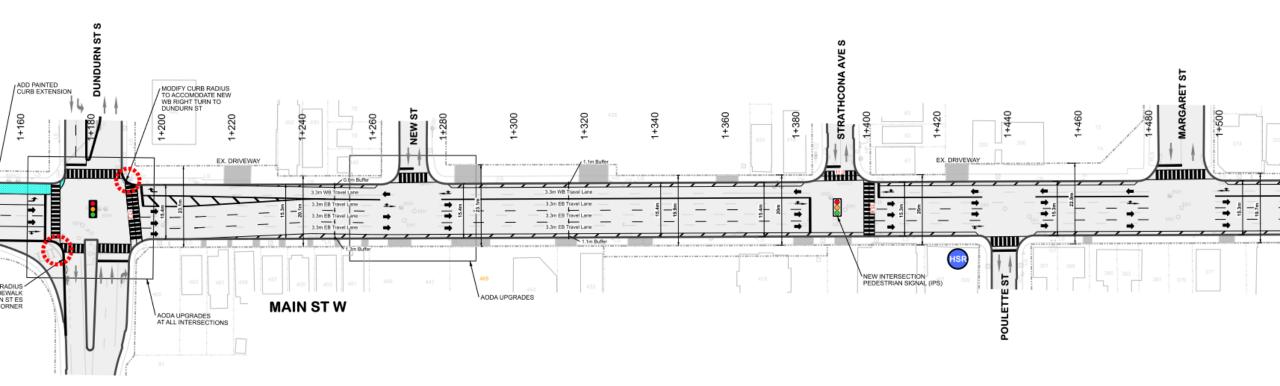




A Closer Look: Dundurn to Caroline

3 eastbound lanes and 1 westbound lane



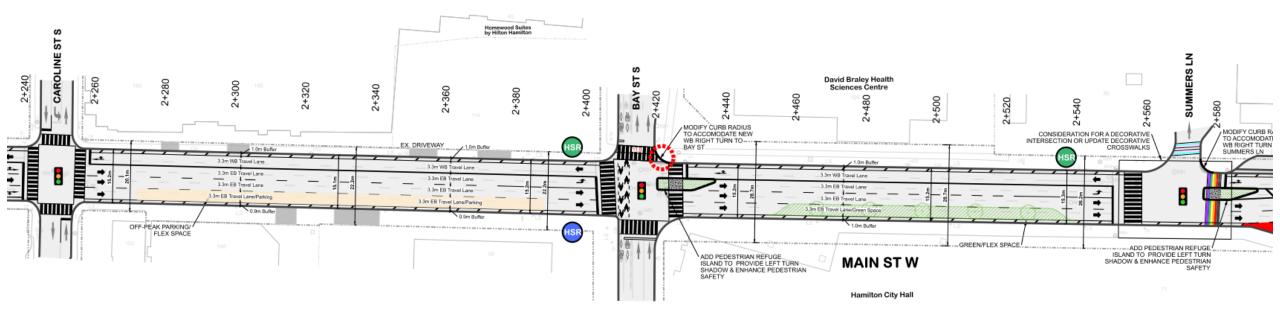


A Closer Look:

Caroline to Victoria

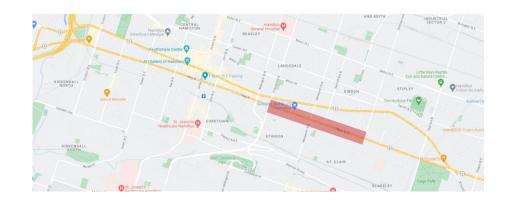
2 eastbound lanes, 1 eastbound left turn lane, and 1 westbound lane

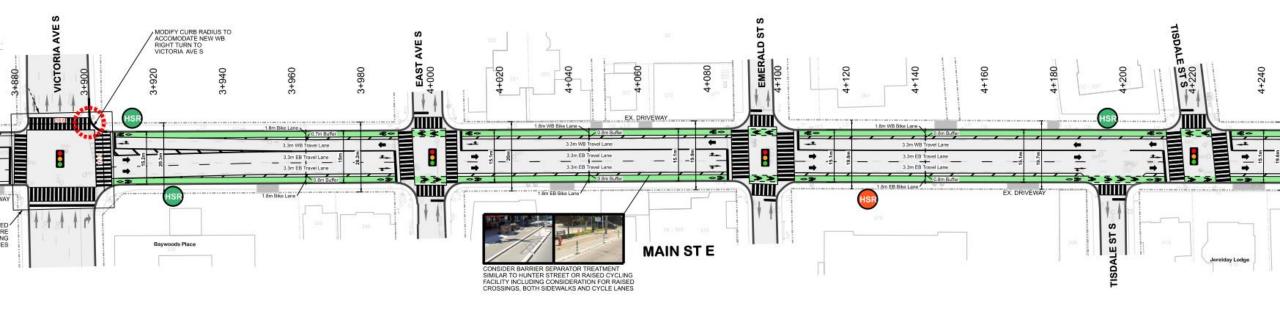




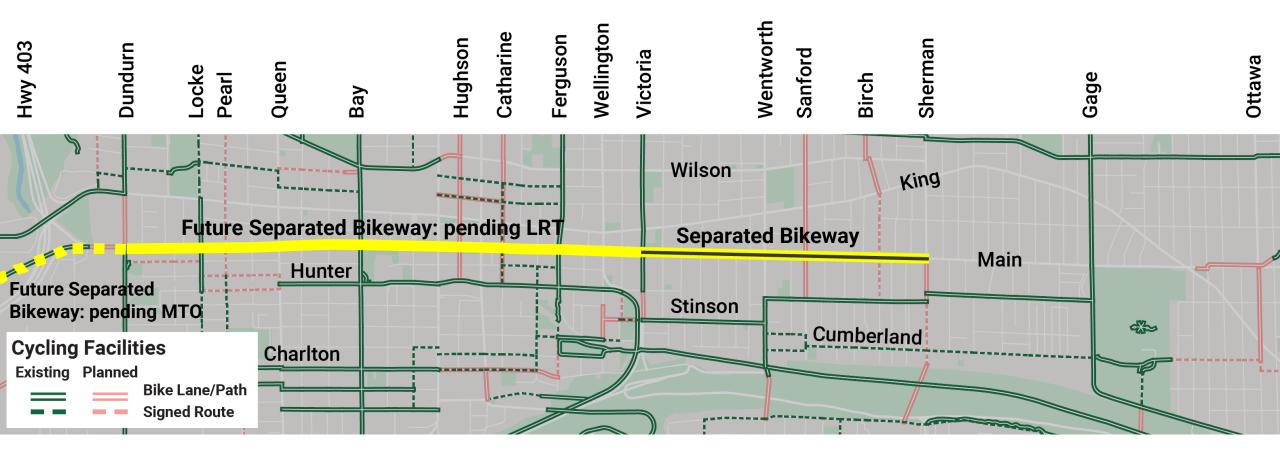
A Closer Look: Victoria to Sherman

2 eastbound lanes, 1 westbound lane, and bi-directional cycling lanes



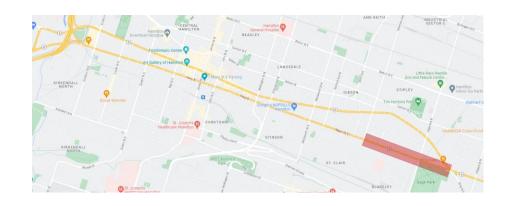


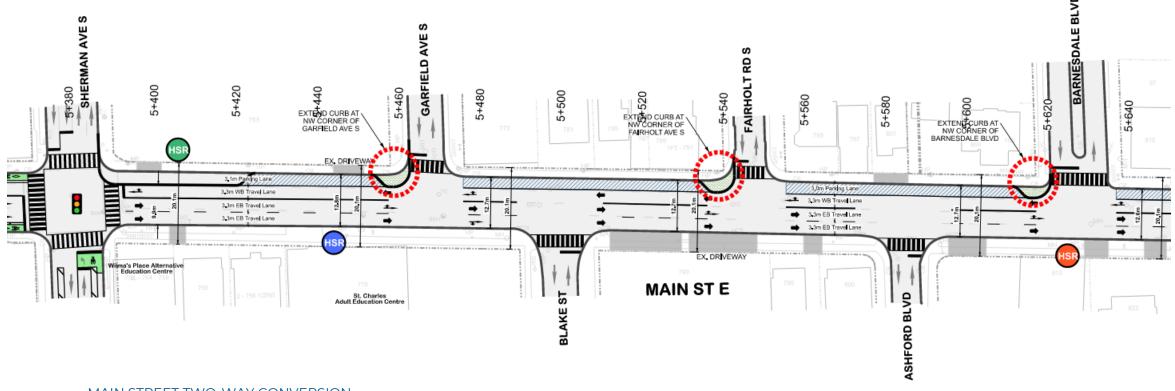
Cycling Network Context



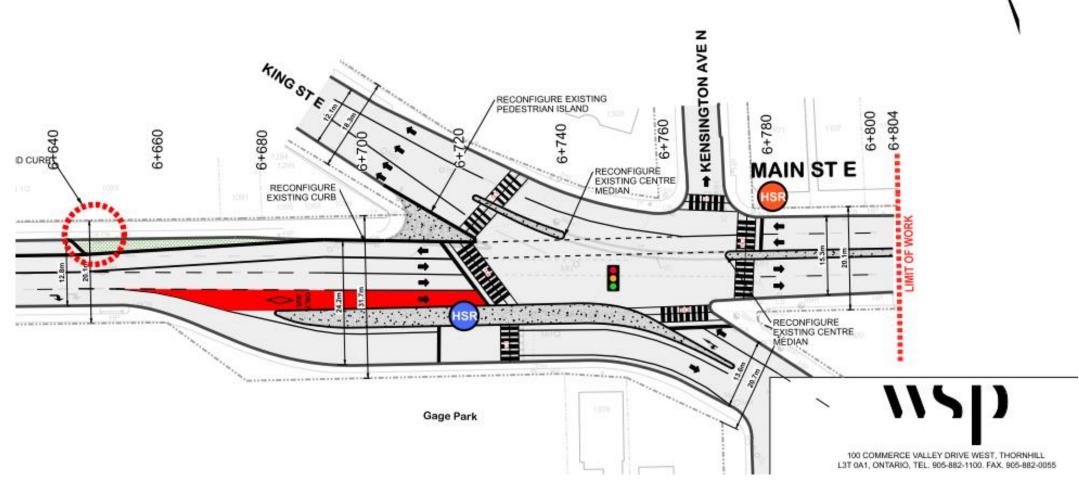
A Closer Look: **Sherman to Delta**

2 eastbound lanes, 1 westbound lane, and on-street parking

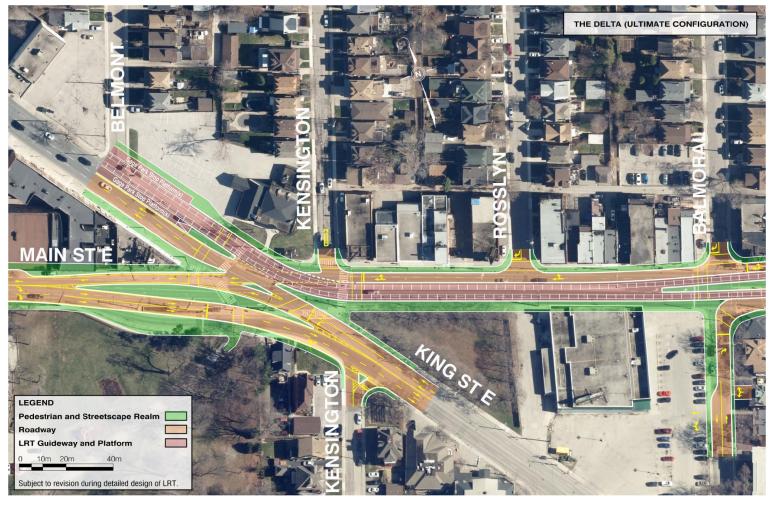




A Closer Look: Delta Intersection



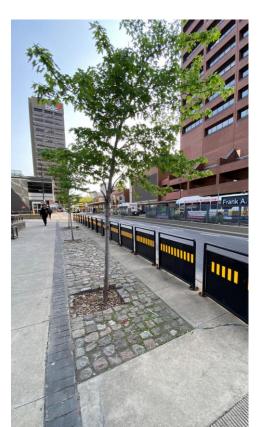
Ultimate Configuration: Post LRT Delta Intersection





Imagining Main Street

- During LRT construction flexibility will be needed through the downtown to provide sufficient movement for transit and other vehicles
- Post LRT Construction, there is an opportunity to re-construct Main Street through the core as a signature Complete Street
- Concepts could include reduced lanes, a raised cycle track and greening opportunities





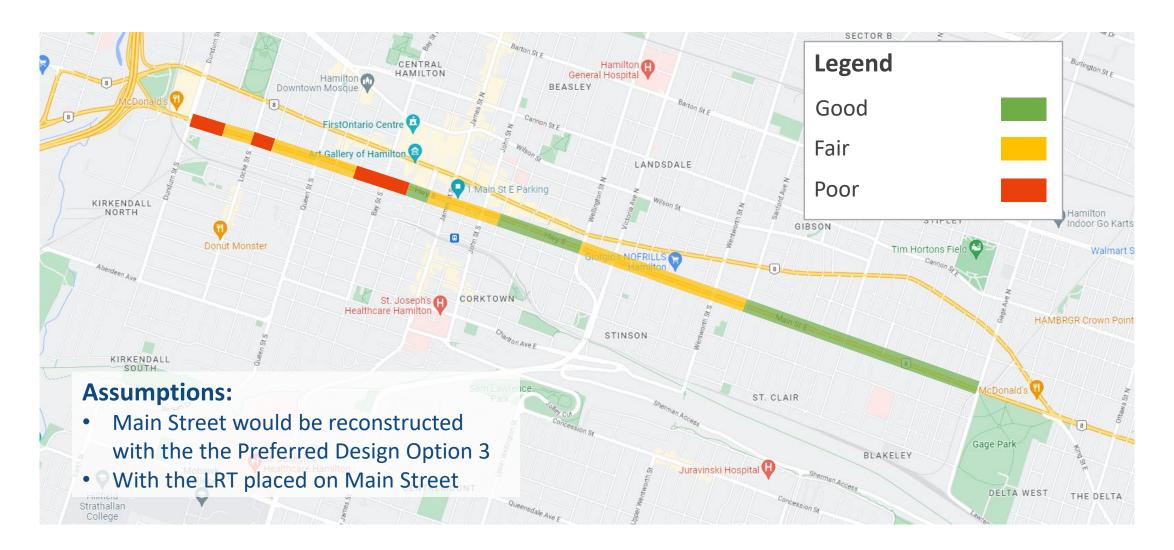








Projected Future Traffic Operations (2041)



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Summary



- Provide
 Westbound flow
 for public transit
 and vehicles
- Eastbound traffic will be slowed



Slower speeds
addresses the
Problems and
Opportunities
identified at the
onset of the
Study



Traffic calming and improved safety in this corridor results in a net gain for the community



Opportunities for green and resilient infrastructure (e.g. permeable surfaces, trees) and roadway beautification



Opportunities to improve infrastructure conditions along Main Street



Next Steps



Next Steps

- Provide your input and comments!
 - Interactive map will be activated the week of May 22nd
 - Commenting period open until Monday June 5, 2023
- The ideas and comments gathered during this meeting will be summarized, assessed and applied (where possible) to refining the design alternatives.
- Confirmation of Preliminary Preferred Design
- Report to Council in July 2023



Future Work

Following the two-way conversion, the City will:

- Review and evaluate performance of the two-way conversion.
- Evaluate and implement further design enhancements.
- Coordinate with future infrastructure project e.g., underground services.
- Leverage opportunities post LRT completion.



Town Halls

Ward 1 & 2 Community Meeting
Hamilton City Hall, 71 Main Street West
Thursday May 25, 2023
7:00 p.m. – 9:00 p.m.

Ward 1 & 3 Community Meeting
Bernie Morelli Recreation Centre, 876 Cannon Street East
Monday May 29, 2023
6:30 p.m. – 8:00 p.m.



Contact Information

If you have any further questions or comments, please feel free to contact:

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Dipankar Sharma

Project Manager, City of Hamilton

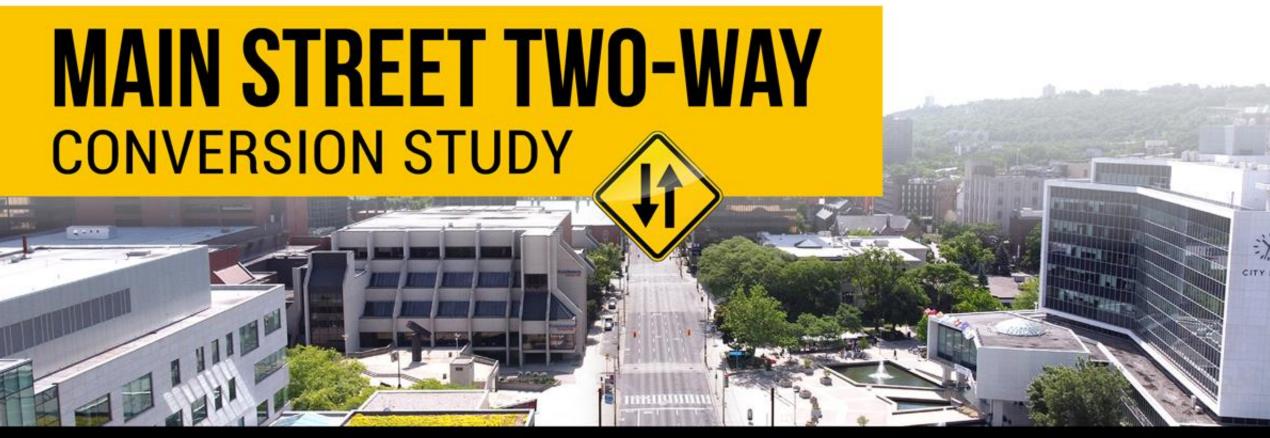
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Q & A

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