



Public Information Centre
Municipal Class Environmental Assessment



West Street & Charing Cross Street Intersection

Municipal Schedule B Environmental Assessment

Date: June 19, 2019
Time: 5:00 pm – 7:00 pm
Location: Council Chambers-City Hall,
100 Wellington Square, Brantford



Welcome

- Please Sign in and take a comment sheet
- If you have questions, our representatives are available to discuss the project with you
- Place your completed comment sheets in the Comment Box or Send them to a Project Manager by July 03, 2019
- To request additional information or provide comments about the project please contact the undersigned

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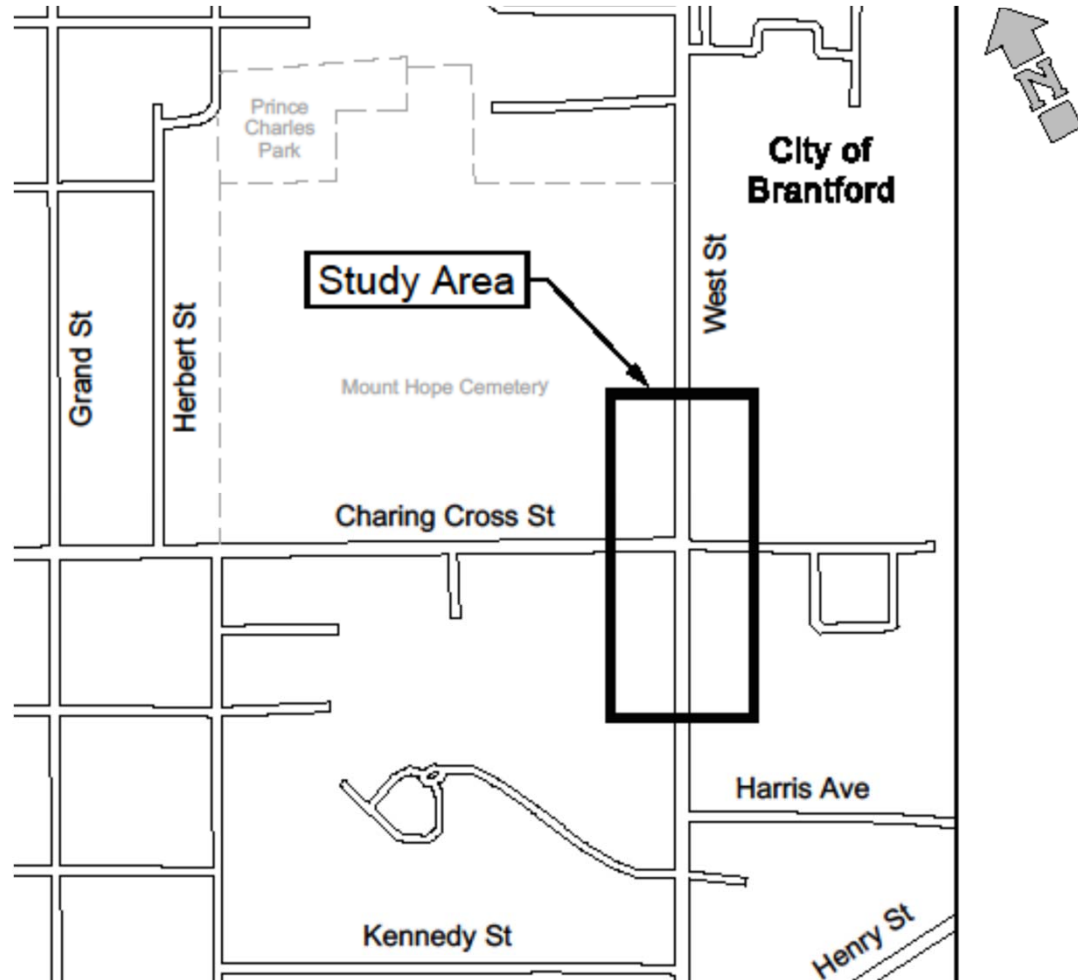
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Key Plan



Environmental Assessment Process

- This project is following the Schedule B process (as shown) of the Municipal Engineers Association Municipal Class EA (October 2000, amended in 2007 and 2011), approved under the Ontario Environmental Assessment Act

- Environmental Assessments:

- Consider all aspects of the environment: physical, natural, social, cultural and economic
- Consult with the public, Indigenous groups, affected parties and review agencies throughout the process
- Identify, develop and evaluate potential options
- Document the selection of the Preferred Remedial Option(s)



Existing Conditions

- West Street is a four (4) lane minor arterial road. The northbound approach at the existing signalized intersection of West Street with Charing Cross includes one left turn lane, one left/through lane and one through/right turn lane.
- The properties immediately abutting the road consist of a cemetery, commercial properties, residential houses and a vacant lot.
- Existing roadside conditions consist of aerial hydro lines, retaining walls, underground utility manholes and private property driveways



Existing Conditions



Need and Justification

- In 2016, staff identified a need to address the current traffic operational and safety issues at the Charing Cross Street and West Street intersection following the completion of a collision analysis of the intersection.
- Existing conditions indicated the proportion of northbound left-turn collisions and injuries was significantly higher than the percentage of traffic volumes utilizing the left-turn movement
- Comparisons to other similar left-turn movements within the City indicated that this northbound left-turn movement at the intersection of West Street and Charing Cross Street has a collision rate much higher than normal. The review concluded that this turn represented a safety concern that needed to be mitigated.
- The proposed improvements at Charing Cross Street and West Street help to provide the capacity for future growth and improve safety for by reducing conflicts between vehicles and pedestrian movements.



Current Lane Configuration

Table 3: Existing (2018) Conditions Intersection Operations

Intersection	Key Movements	AM Peak Hour			PM Peak Hour		
		Delay (s)	LOS ¹	v/c ²	Delay (s)	LOS ¹	v/c ²
West Street / Charing Cross Street (signalized)	Overall	17	B	0.59	25	C	0.91
	EB left	43	D	0.65	45	D	0.74
	EB through	32	C	0.02	29	C	0.03
	EB right	34	C	0.25	31	C	0.33
	WB left	32	C	0.02	29	C	0.08
	WB through-right	32	C	0.06	29	C	0.06
	NB left	8	A	0.54	47	D	0.91
	NB left-through-right	6	A	0.42	14	B	0.79
	SB left	10	B	0.02	14	B	0.04
SB through-right	15	B	0.47	24	C	0.74	

Note: ¹LOS – Level of Service; ²v/c – volume-to-capacity ratio



Design Options

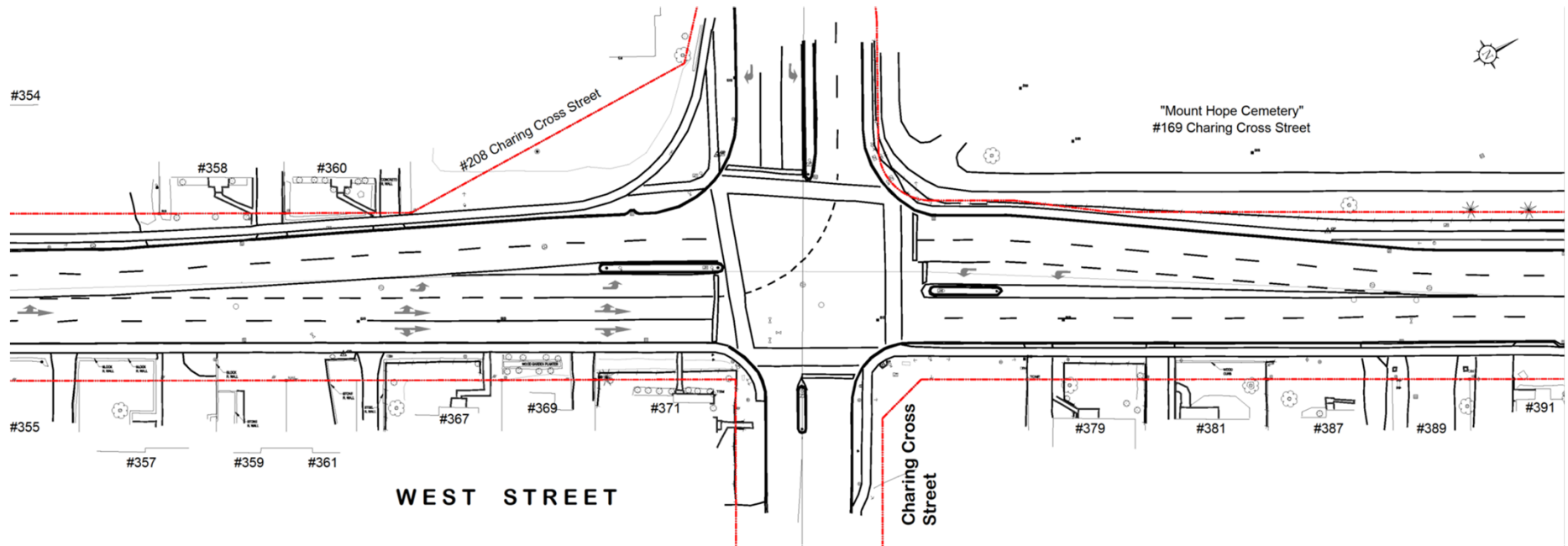
Option 1	Do Nothing	Make no changes to the existing intersection configuration
Option 2	Widen Intersection to the West	Add additional northbound left turn lane, with road widening taking place along the western side of the roadway
Option 3	Widen Intersection to the East	Add additional northbound left turn lane, with road widening taking place along the eastern side of the roadway



Potential Future Lane Configuration



Design Option 1- "Do Nothing"

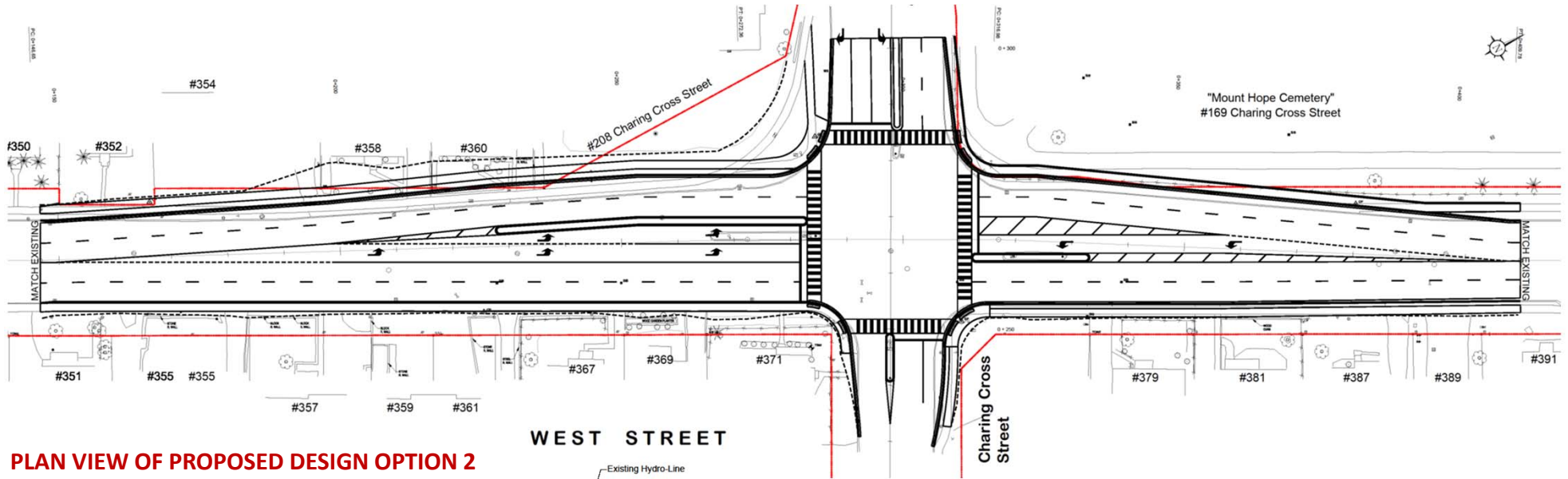


PLAN VIEW OF EXISTING CONDITIONS

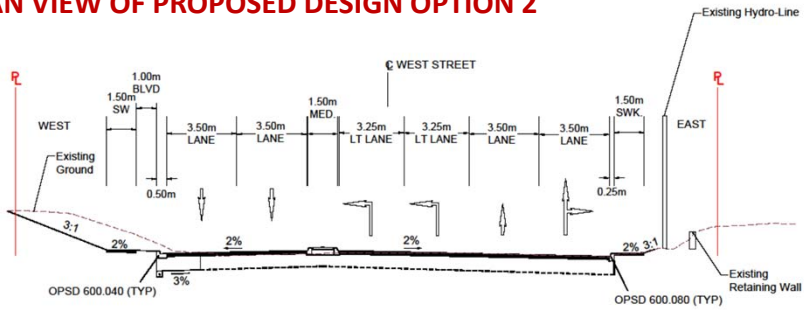


Design Option 2

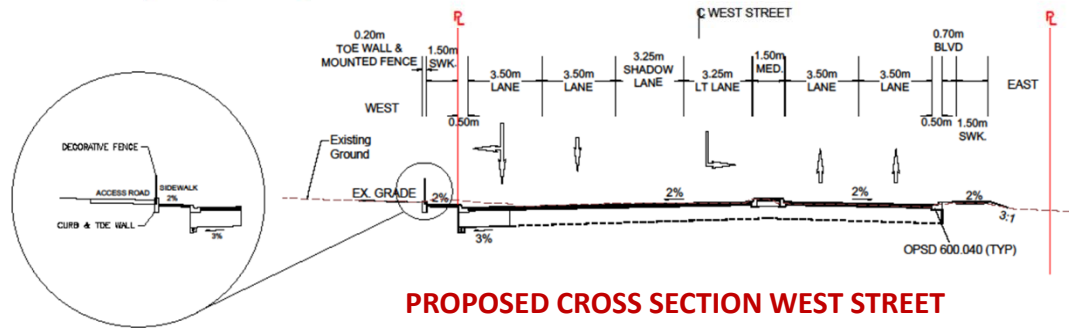
Widen Intersection to the West



PLAN VIEW OF PROPOSED DESIGN OPTION 2



**PROPOSED CROSS SECTION WEST STREET
(SOUTH LEG OF INTERSECTION)**

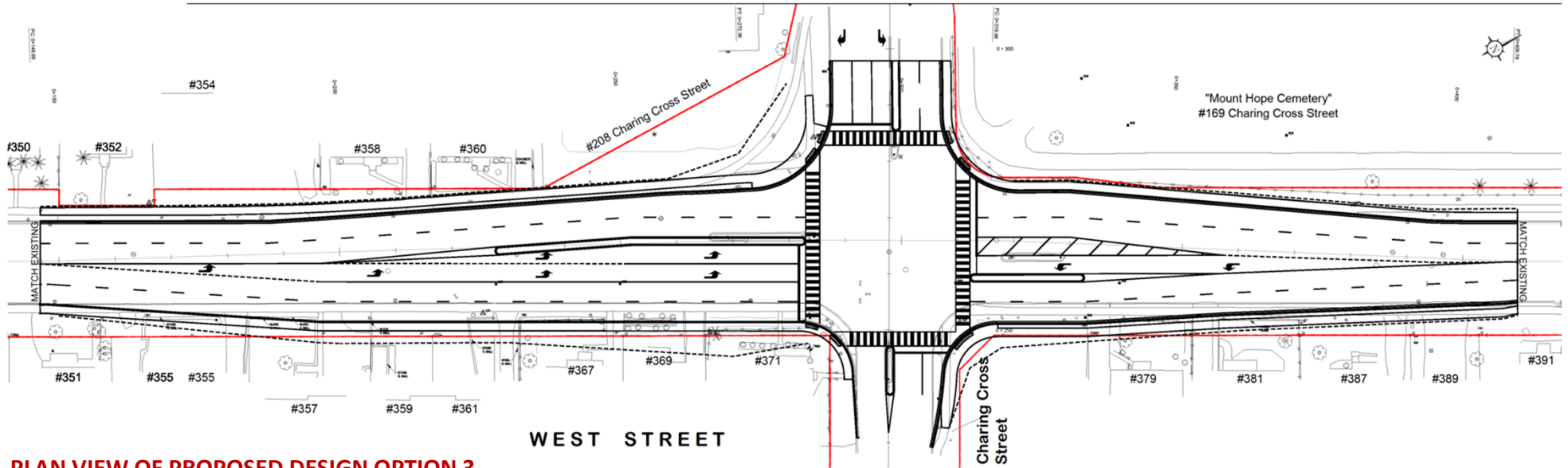


**PROPOSED CROSS SECTION WEST STREET
(NORTH LEG OF INTERSECTION)**

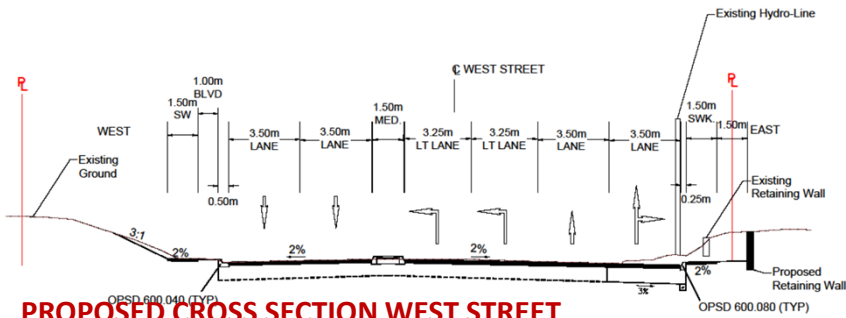


Design Option 3

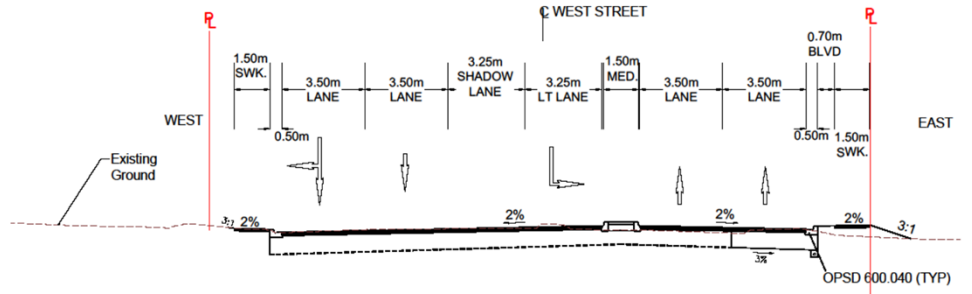
Widen Intersection to the East



PLAN VIEW OF PROPOSED DESIGN OPTION 3



**PROPOSED CROSS SECTION WEST STREET
(SOUTH LEG OF INTERSECTION)**



**PROPOSED CROSS SECTION WEST STREET
(NORTH LEG OF INTERSECTION)**



Options Assessment

Factor	Evaluation Criteria	Weight	Option 1: "Do Nothing"	Option 2: Widen Intersection to the West	Option 3: Widen Intersection to the East
Natural Environment	Tree Impact	L	Green	Yellow	Yellow
Social Environment, including Cultural and Economic	Property Impacts	M	Green	Yellow	Red
	Archaeology and Cultural Heritage Resources*	L	Green	Red	Yellow
	Utilities	M	Green	Yellow	Red
Transportation	Safety	H	Red	Green	Green
	Travel Delay/ Traffic Capacity	H	Red	Green	Green
Costs	Capital Costs	M	Green	Yellow	Red
Technical	Constructability	H	Green	Green	Yellow
Overall Assessment			Screened Out Does Not Meet the Project Requirements for Improvements to Safety and Travel Movement	Preliminary Preferred Alternative Fewer Overall Property Requirements than Option 3 and the More Constructible Alternative	Less Preferred Large Number of Property Requirements and Issues with Costs for Relocating Utilities

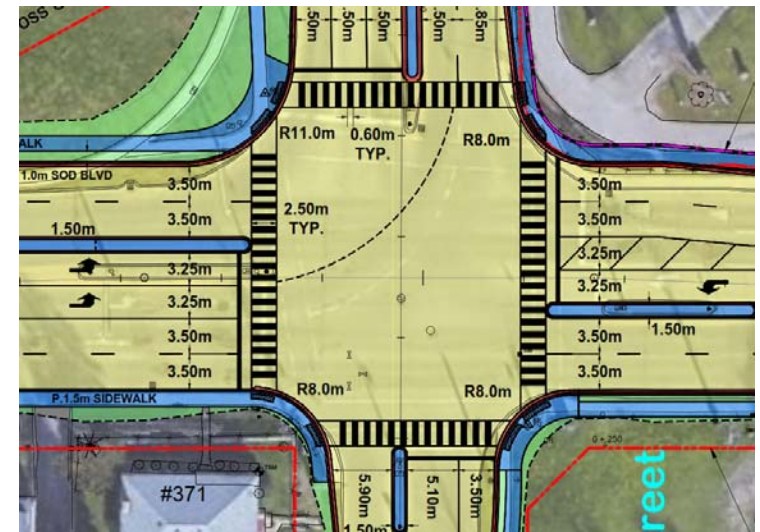
Least Impact
 Moderate Impact
 High Impact

*Cultural Heritage assessment of Mount Hope Cemetery pending. Assessment may change with further information



Preliminary Preferred Design Option

- Option 2 is the Preliminary Preferred Design
- Advantages of the preferred design:
 - Improvements to turning movement
 - Double Left Turn lanes will allow for more storage of left turning vehicles at the intersection
 - Reduce delays for through vehicles
 - Reduced collision potential
 - Protected left turn light will reduce the potential for head on collisions
 - Safety improvements for pedestrians
 - Crossings will be AODA compliant with tactile plates
 - Fewer impacts to utilities than with Option 3
 - The majority of utilities on West Street run along the east side
 - Fewer property impacts



Next Steps/Comments

- Review comments and prepare a PIC summary report

Comment
Deadline
July 3, 2019

Thank you for
your
participation!

Contact Us

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