#### Mississauga Road, Old Main Street, Bush Street, Olde Base Line Road, and Winston Churchill Boulevard Class EA

#### Public Information Centre #2

Wednesday, November 20, 2013 Caledon Country Club, 2121 Olde Base Line Road, Caledon

HR

Region of Peel Working for you

# Welcome

- Please sign in and take a feedback form
- If you have any questions our team is available to help you
- Place your completed feedback form in the Comment Box, or send it to:

Gino Dela CruzAsha SaddiProject ManagerTechnical AnalystGino.DelaCruz@peelregion.caasha.saddi@peelregion.ca

#### by Wednesday, December 4, 2013.



# What we heard at PIC#1

- Maintain rural character & countryside scenic quality
- Minimize potential property impacts
- Preserve historic fences and features
- Preserve natural environment
- Maintain existing vertical alignment and cross-section
- Address poor pavement conditions
- Address excessive speeds
- Address signage clutter
- Accommodate all road users through a multi-modal approach
- Improve sightlines



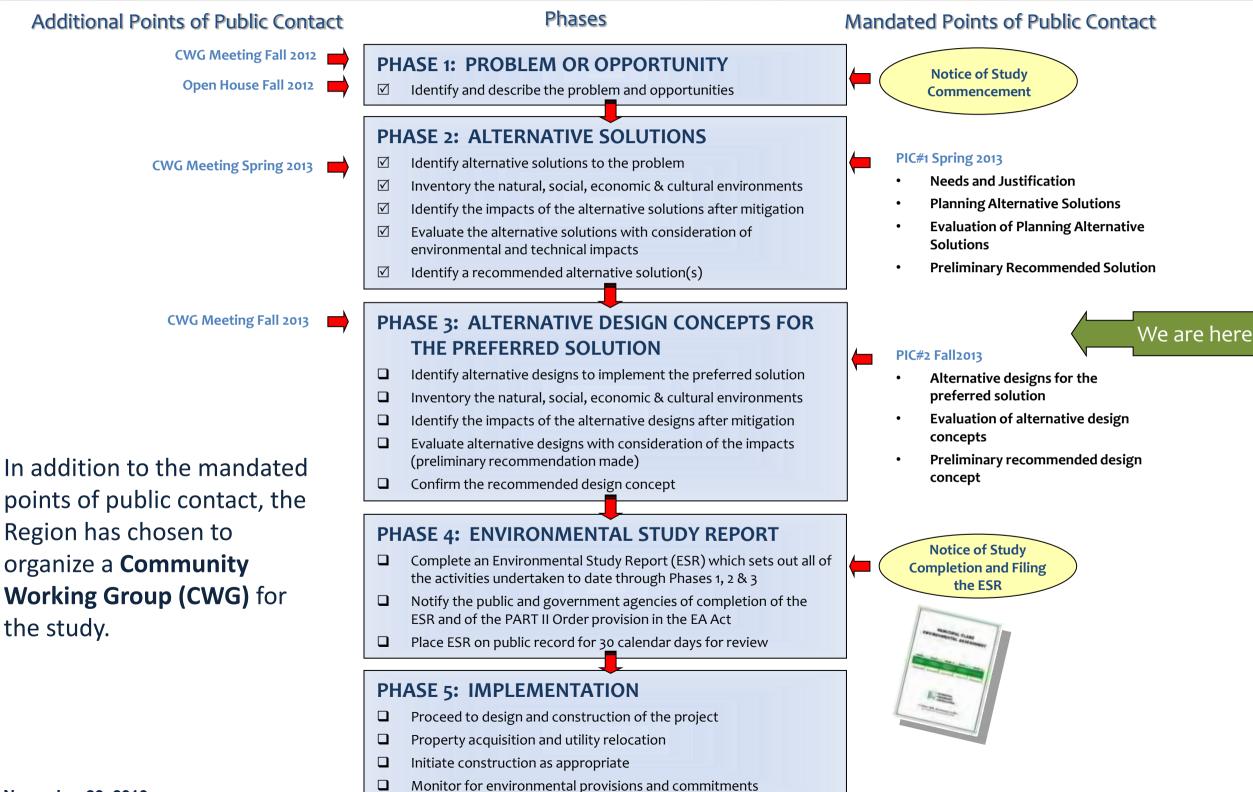
## Purpose of PIC #2

The purpose of this Public Information Centre (PIC) is to:

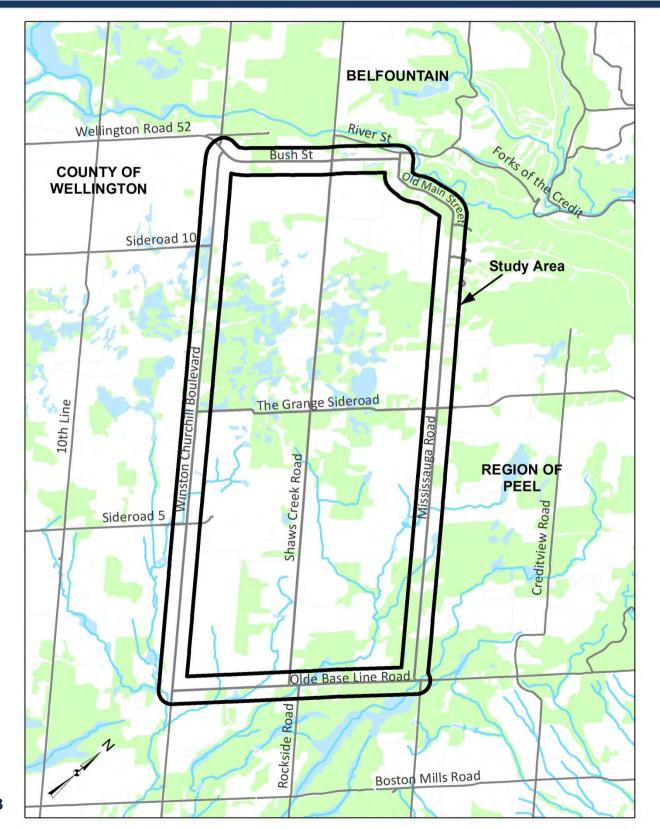
- Provide a project update on
  - What has been done to date
  - What we have heard
- Present the
  - Alternative design concepts developed by the study team
  - Evaluation of alternative design concepts
  - Preliminary recommended design concept
- Discuss Next Steps
- Ask for your input



#### Beyond the Municipal Class EA Process



## Study Area



The Study Area consists of:

- Bush Street
- Winston Churchill Boulevard
- Mississauga Road / Old Main Street
- Olde Base Line Road



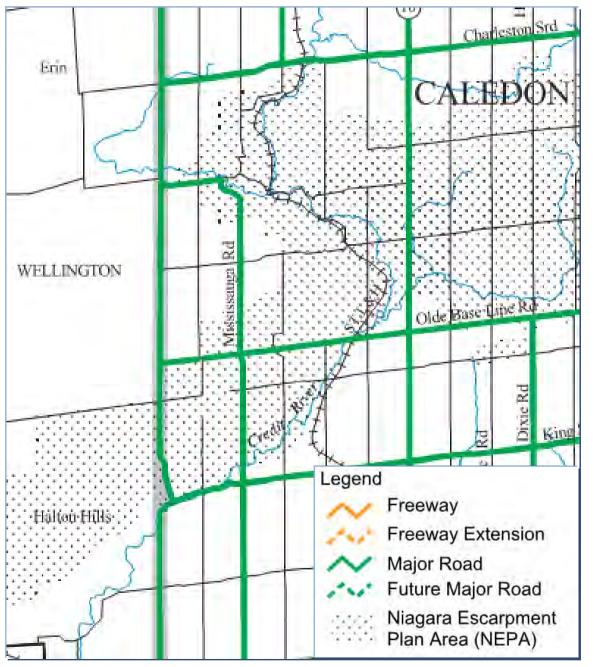
### **Our Vision**

The Region is focused on ensuring the existing and future road network meets the changing needs of all users in a safe, efficient, sustainable and environmentally friendly manner



#### Role and Function of Regional Arterial Roads

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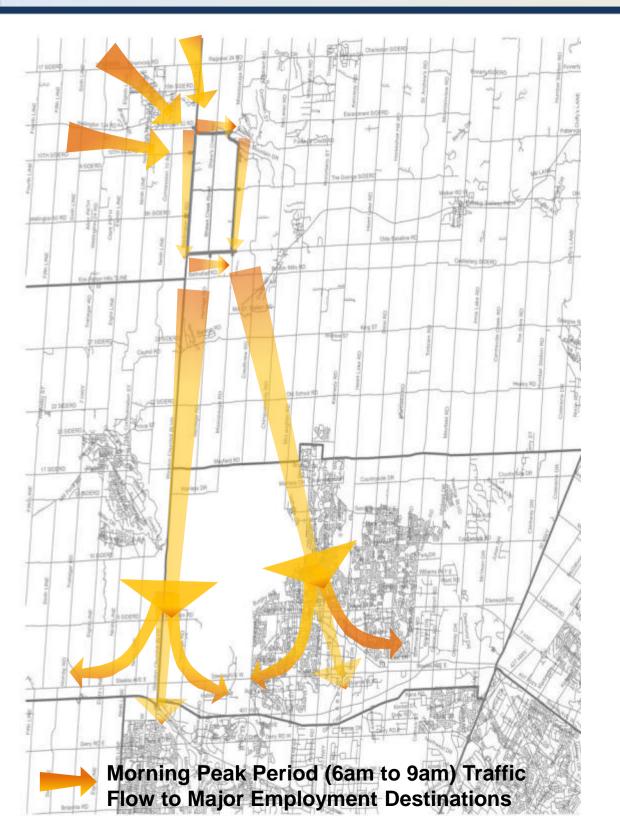
Region of Peel Official Plan – Schedule E

#### General Objectives of Peel's Transportation System

- To achieve a safe convenient and efficient movement of people and goods in the Region Support the provision of improved transportation mobility to all residents, employees and visitors
- Promote and encourage all sustainable modes of transportation to provide mobility and choice
- Minimize adverse environmental impacts caused by transportation
- Support a transportation system that enhances economic growth in the Region
- Ensure Regional transportation infrastructure is sustainable and that practices and performance measures are in place to maintain a safe and efficient Regional transportation network



## **Broader Transportation Network**



# The roads in the study area provide connections to major employment destinations.

Bush Street (Regional Road 11), Mississauga Road / Old Main Street (Regional Road 1), Winston Churchill Boulevard (Regional Road 19), and Olde Base Line Road (Regional Road 12) are all part of the Peel Region arterial road network.

Winston Churchill Boulevard (Regional Road 25) is also part of the Wellington County arterial road network.

The roads in the study area also provide connections to tourist destinations in the immediate and surrounding area.



## **Problem Statement**

Work to date has confirmed similar issues identified in the 2010 study. Existing problems on the study area roads (Mississauga Road/Old Main Street, Bush Street, Winston Churchill Boulevard and Olde Base Line Road) consist of:

- Deficient pavement conditions
- Deficient drainage
- Deficient sightlines
- Safety for all road users, including safety of wildlife





### Needs Assessment

Assessment done to date has identified issues in the following theme areas:

- Traffic and Road Safety
  - Improve safety for all road users motorists, cyclists, pedestrians
  - Reduce collisions with animals
  - Address excessive speeds cars, trucks, motorcycles
- Asset Management and State of Good Repair
  - Address poor conditions of the roadway pavement
  - Address drainage deficiencies
- Maintain Existing Character
  - Retain existing number of travel lanes
  - Retain existing vertical alignments where safe
  - Minimize impacts on natural, heritage, and cultural features

There is a recognition that users may have competing interests and needs



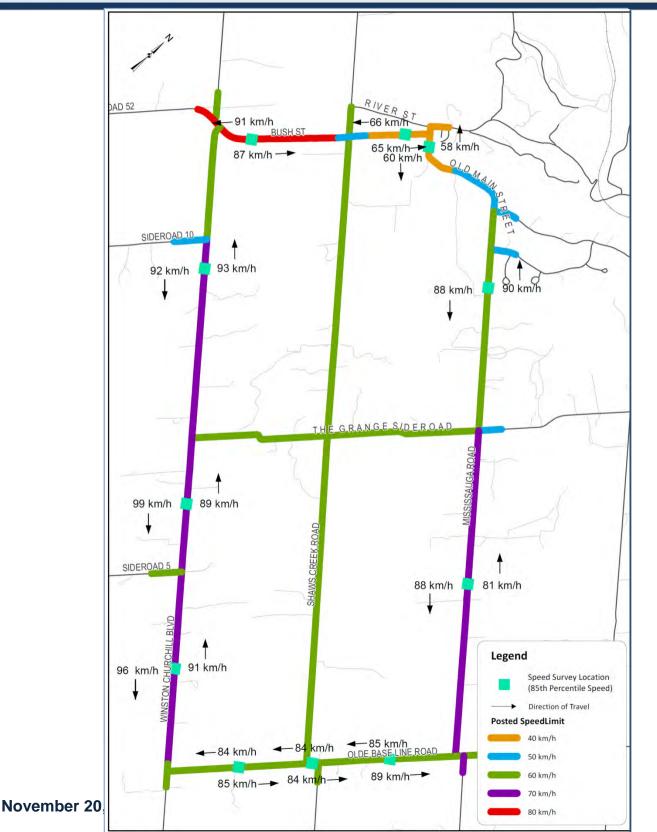


## Traffic and Road Safety



November 20, 2013

# **Traffic Speeds**



Speed surveys indicate that traffic generally travels at higher speeds than the posted speed limits.

Road segments where the 85<sup>th</sup> percentile speeds are more than 20 km/h over the posted speed limits include:

- Olde Base Line Road
- Mississauga Road between The Grange Sideroad and Woodlands Court
- Winston Churchill Boulevard
- Bush Street in the Village of Belfountain



### **Collisions by Road Segment / Intersection**

Number of Collisions by causal factor from January 1, 2006 to December 31, 2010 within Study Area

Location	Multiple	Motor V	otor Vehicles <sup>1</sup>		Single Motor Vehicle and Cyclist(s) <sup>2</sup>		Single Motor Vehicle and Pedestrian(s) <sup>2</sup>		Single Motor Vehicle and Animal(s) <sup>2</sup>			Single Motor Vehicle Only, Involving Off-Road Objects <sup>3</sup>			
	Property Damage Only	Non- Fatal Injury	Fatal	Property Damage Only	Non- Fatal Injury	Fatal	Property Damage Only	Non- Fatal Injury	Fatal	Property Damage Only	Non- Fatal Injury	Fatal	Property Damage Only	Non- Fatal Injury	Fatal
Intersection of Olde Base Line Rd and Mississauga Rd	6	1	-	10	1	jų.	-		-	2	2	1	1	-	-
Mississauga Rd Between Olde Base Line Rd and Bush St	7	•	-	~	1	i.	-	•	-	8	÷		5	1	
Intersection of Mississauga Rd and Bush St	2	-		э.	÷	H.	-	-	( <b>7</b> )	2	÷	-	÷	-	
Bush St Between Mississauga Rd and Winston Churchill Blvd	1	-	-	-	а.		-	-	-	2	-	-	-	-	-
Intersection of Bush St and Winston Churchill Blvd	1	-	-		÷.	-	r.		-	1		-	2	1	-
Winston Churchill Blvd Between Bush St and Olde Base Line Rd	1	1	-		-	-	-	-	-	5		-	2	÷.	-
Intersection of Winston Churchill Blvd and Olde Base Line Rd	1	1 <b>.</b>	-		<b>F</b> )	-	-		-	2		-	-	1	-
Olde Base Line Rd Between Winston Churchill Blvd and Mississauga Rd	1	-	-	i đ	•	7	-	34	1	8	÷	а,	2	9	-
Total Collisions	20	2	-	•	1	-	•		-	30	•	-	12	3	
		22			1			0			30			15	

Notes:

1) 'Multiple Motor Vehicles' collisions include collisions cause by, but did not necessarily collide with multiple motor vehicles.

2) 'Single Motor Vehicle' collisions involving cyclists, pedestrians, or animals, include collisions caused by, but did not necessarily collide with the external factor. (Ex. A collision in which a vehicle swerved to avoid an animal and thus collided with the guardrail, was considered a 'Single Motor Vehicle and Animal' collision).

3) 'Single Motor Vehicles Only, Involving Off-Road Objects' collisions include collisions in which vehicles lost control due to external factors (not including motor vehicles, cyclists, pedestrians, or animals), and the single motor vehicles ended up in the ditch, or collided with stationary objects such as guiderails or posts.

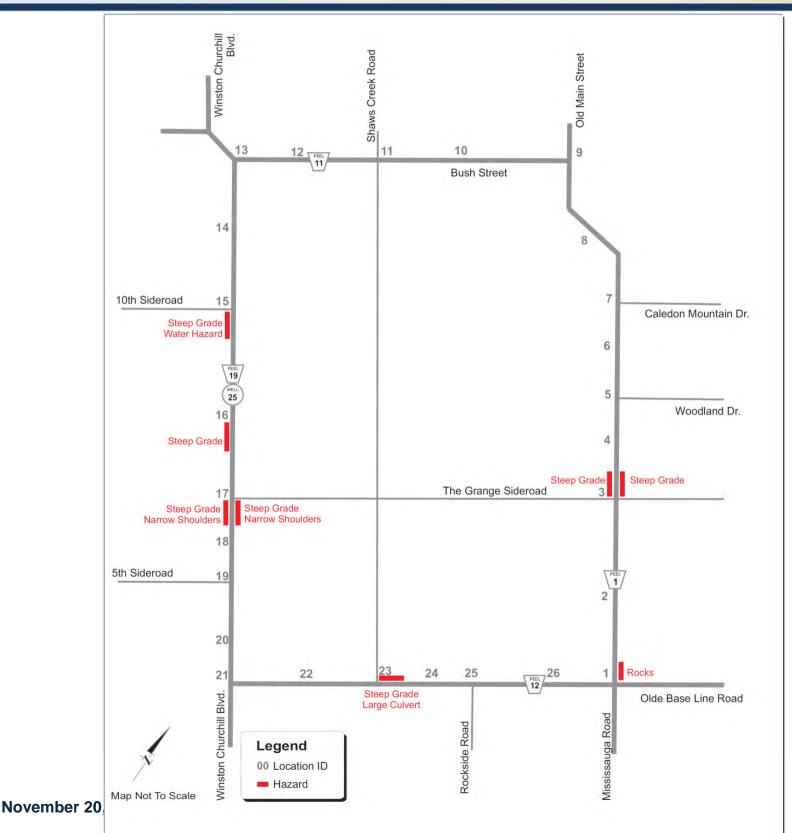
Source: Collision information provided by Peel Region's Safety group.

Highest number of collisions are on:

- Mississauga Road between Olde Base Line Road and The Grange Sideroad
- Olde Base Line Road between Winston Churchill Boulevard and Mississauga Road



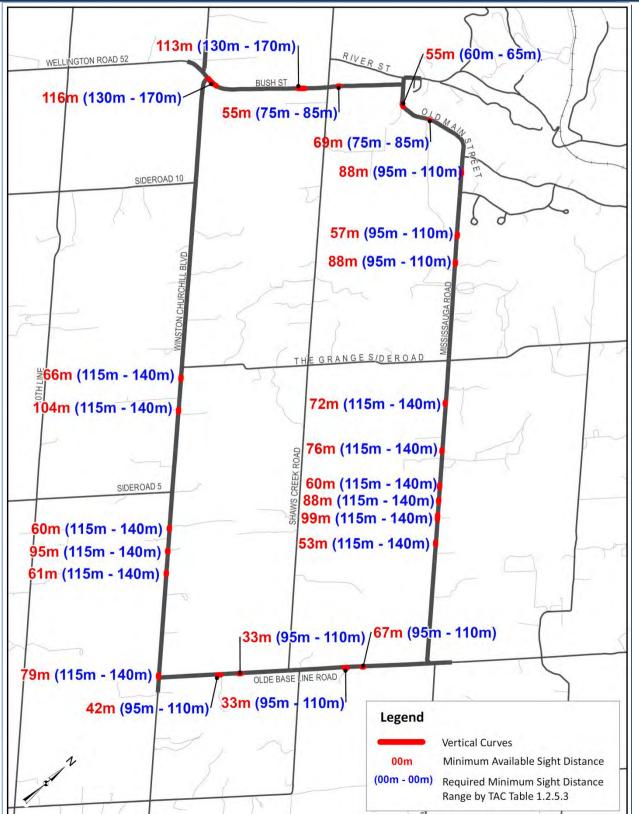
### **Roadside Hazards**



Roadside hazards include hydro poles, steep slopes, and rock cuts. The Study will consider options to improve safety at roadside hazard locations.



#### Vertical Alignment: Stopping Sight Distance Deficiencies



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## Sight Distances at Driveways

#### At many driveways, sight distances are inadequate.

Fully Meets Minimum Standards	Yes	No	TOTAL
Stopping Sight Distance	163 (88%)	21 (12%)	184 (100%)
Minimum Turning Sight Distance	83 (45%)	101 (55%)	184 (100%)
Desirable Turning Sight Distance	60 (33%)	124 (67%)	184 (100%)

Based on Transportation Association of Canada (TAC) design standards. Stopping Sight Distance is based on drivers on the main road approaching driveways. Turning Sight Distance is based on drivers turning left or right from their driveways.







## Asset Management and State of Good Repair



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### Pavement and Drainage Conditions

- The preliminary findings from the geotechnical investigations completed to date reveal that structural capacity and strength of all roads are in poor condition and are expected to continuously deteriorate.
- The main cause to pavement distress is attributed to variable granular thickness along roadways with a non-uniform base and sub-base materials.
- Shoulder granular is also thinner than the sub-base below the roadway which affects the drainage of the base leading to frost heave and rutting.
- Some of the pavement deficiencies identified throughout the study area include:
  - Wheel tracking and rutting
  - Transverse and longitudinal meander and mid-lane cracking
  - Alligator pavement edge cracking



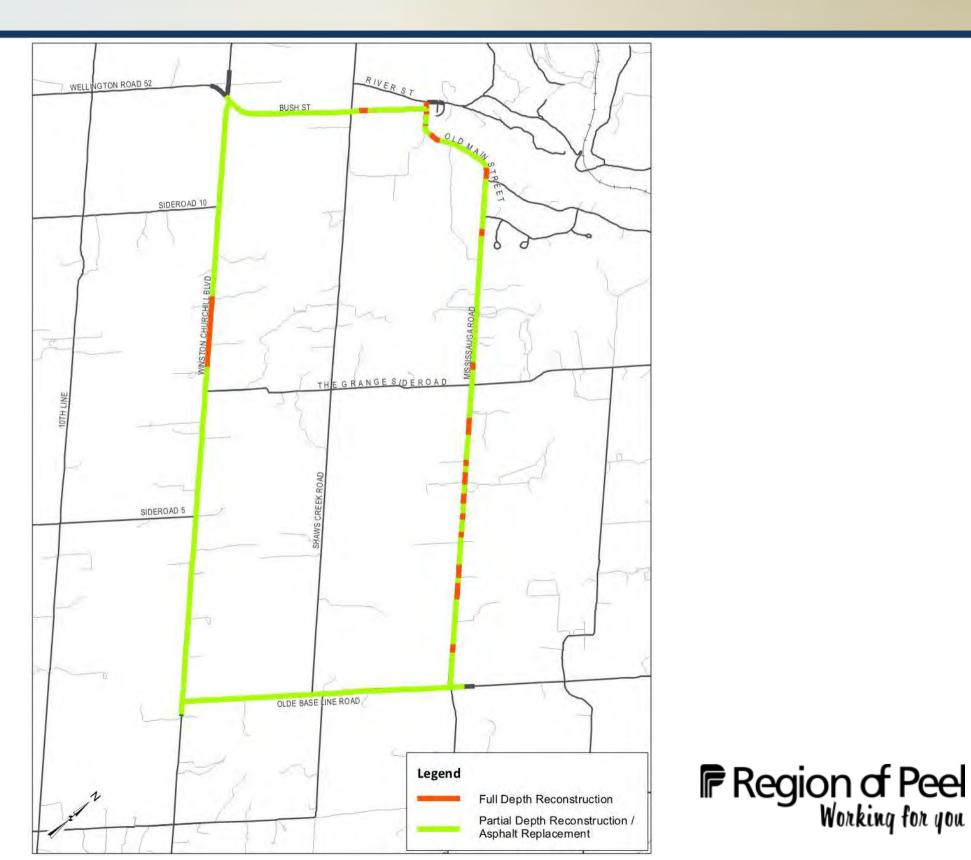


#### Pavement and Drainage Conditions by Roadway

Roadway	Existing Conditions / Pavement Deficiencies					
Mississauga Road/Old Main Street	<ul> <li>Granular thickness of base and sub-base highly variable</li> <li>"Bathtub" construction – granular under shoulder is thinner than under the roadway</li> <li>Wheel tracking rutting</li> <li>Slight alligator pavement edge cracking</li> </ul>	<ul> <li>Moderate alligator transverse cracking</li> <li>Longitudinal meander and mid-lane cracking</li> <li>Inadequate / sub-standard ditches</li> <li>Ponding and vegetation along shoulders</li> </ul>				
Bush Street	•Granular thickness of base and sub-base highly variable	<ul><li>Centreline and transverse cracking</li><li>Deficient structural capacity and stability</li></ul>				
Winston Churchill Boulevard	<ul> <li>Granular thickness of base and sub-base highly variable</li> <li>Deficient structural capacity and stability</li> <li>Medium severity raveling</li> </ul>	<ul> <li>High severity large area alligator cracking</li> <li>Localized depressions</li> <li>Shallow bedrock does not allow for drainage under roadway</li> </ul>				
Olde Base Line Road	<ul> <li>Granular thickness of base and sub-base highly variable</li> <li>Medium and high severity cracking</li> <li>Frost heave and temperature related deterioration</li> </ul>	<ul> <li>Localized depressions</li> <li>Water logging due to top permeable layers and bottom relatively impermeable silty clay</li> <li>Shallow bedrock does not allow for drainage under roadway</li> </ul>				

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#### **Geotechnical Recommendations**



### **Recommended Pavement Structures**

Geotechnical Investigations completed to date have recommended the following typical pavement structure to address the deficient pavement conditions:

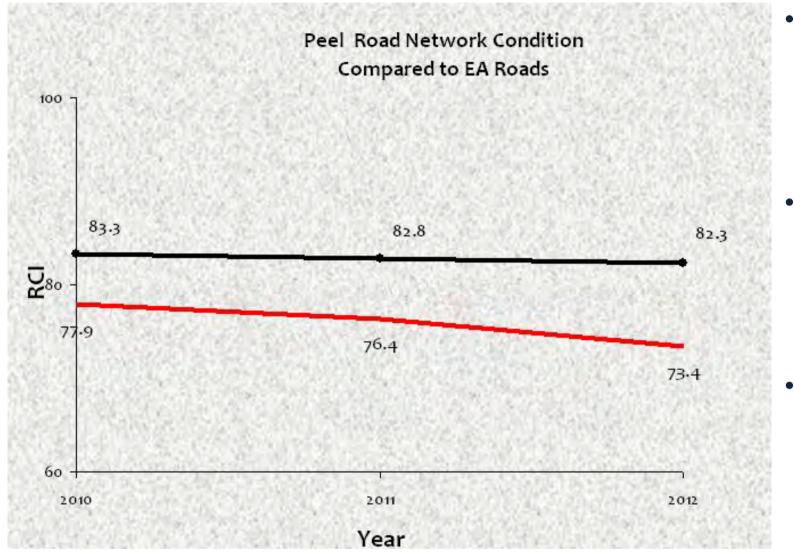
40-50 mm (1.6-2 in.)	Surface Course
60-100mm (2.4-4 in.)	Binder Course
150 - 300 mm (6-12 in.)	Granular A Base
400 mm (16 in.)	Granular B Sub-base
subgrade	

\* Note: The pavement recommendations will be confirmed in the subsequent phases of this study.

Pavement structure granular materials must conform to OPSS (Ontario Provincial Standard Specification) specifications.

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## Ride Condition Index (RCI)



- Black line represents projected network RCI for all Regional Roads.
- Red line represents projected RCI for the roads in the study area.

- The Ride Condition Index (RCI) is a quantitative number that represents the overall condition and quality of a Regional road network.
- The RCI aggregates the rating of many types of road defects including cracking, rutting, potholes and surface quality into one measurable number.
- Study area roads are below the network average and are deteriorating faster than the network average and will likely be below the level of service (72) for roads in the next 3- 5 years.





## Maintain Existing Character



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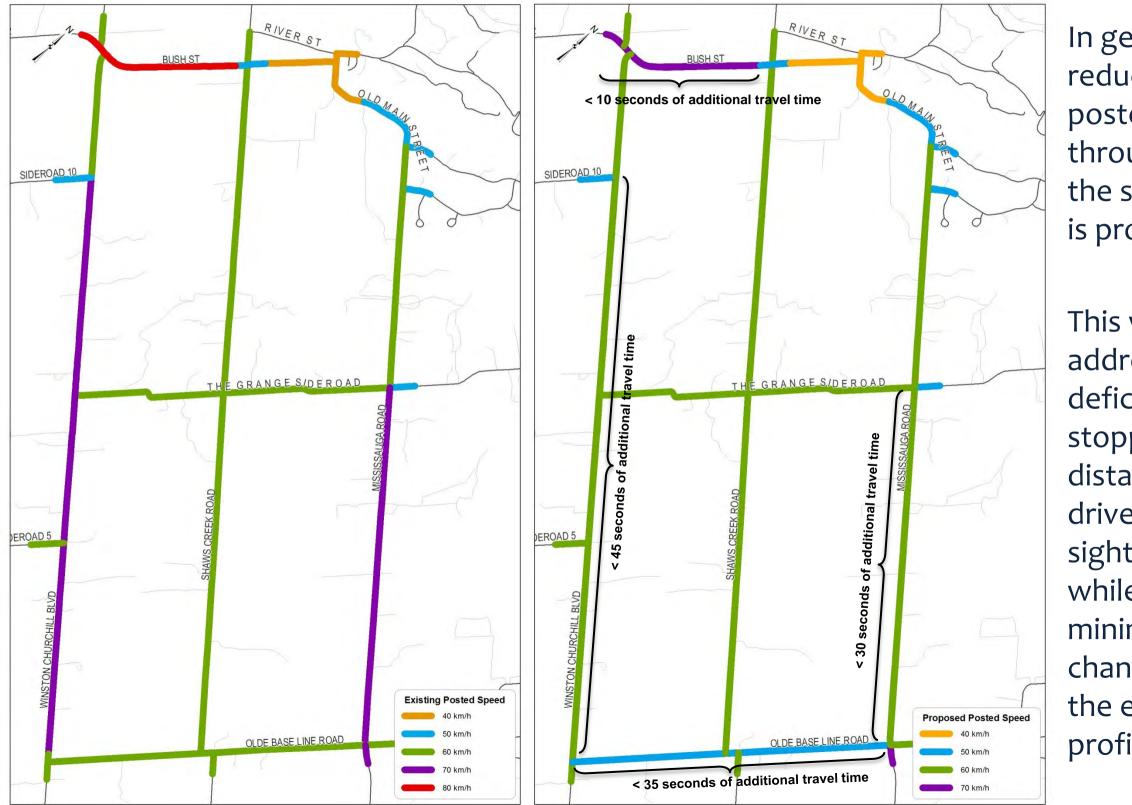
# Key Design Principles

- Maintain two lane cross-section
- Minimize profile changes
- Maximize utilization of right-of-way space
- Minimize property impacts
- Minimize impacts to existing driveways
- Promote Active Transportation



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### **Existing and Proposed Posted Speeds**



In general, a reduction in posted speeds throughout the study area is proposed.

This will address deficient stopping sight distance and driveway sightlines, while minimizing changes to the existing profiles.

## Belfountain Village Design Domain

Design Element TAC Standards		Existing	<b>Recommended Cross-Section</b>	
	Minimum 50 km/h design	Existing alignment generally	Retain 40 km/h posted speed limit.	
Speed Limit	speed required for 40 km/h	conforms with design	Design conforms with design	
	posted speed	standards	standards	
Number of lanes based on	2	2	2	
existing and future traffic	۷۲	۷۲	۷	
Travel Lane width	3.3 - 3.7 m	3.2-3.7 m	3.3m	
			1.7 m paved shoulder on Old Main	
	1.5 m paved shoulder		Street, east of the Community Centre;	
Shoulder / buffer width		0.5-2.7m shoulder	0.5 m mountable curb separates	
		(of which 0.2-2.0 m is paved)	1.7 m sidewalk from vehicle zones on	
			Bush Street and Old Main Street	
			north of the Community Centre	
Cycling facility	1 E m minimum (naved)	None	1.7 m paved shoulder east of the	
Cycling facility	1.5 m minimum (paved)	NOTE	Community Centre	
Drainaga	Adequate drainage is	Inadaquata drainaga	Underground infrastructure to	
Drainage	required	Inadequate drainage	provide adequate drainage	

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## **Bush Street Design Domain**

Design Element	TAC Standards	Existing	Recommended Design
Speed Limit	Minimum 60-90 km/h design speed required for 50-80 km/h	Deficient. Vertical alignment provides	50-70 km/h posted speed limit with a 60-80 km/h design
Number of lanes based on existing and future traffic	posted speed 2	design speed of 50 km/h 2	speed 2
Travel Lane width	3.5 - 3.7 m	3.2-3.8 m	3.5 m
Shoulder / buffer width	1.5 m paved shoulder	1.3-3.5 m shoulder (of which 0.2-1.5 m is paved)	1.7 m paved shoulder
Cycling facility	1.5 m wide (paved)	None	1.7 m paved shoulder
Drainage	Adequate drainage is required	Substandard ditches are damaging the pavement	Proper ditches to provide adequate drainage and protect the pavement



## Mississauga Road Design Domain

Design Element	Design Element TAC Standards		Recommended Design	
	Minimum 60-80 km/h design	Deficient.	50-60 km/h posted speed limit	
Speed Limit	speed required for 50-70 km/h	Vertical alignment provides	with a 60-70 km/h design	
	posted speed	design speed of 30 – 50 km/h	speed	
Number of lanes based on	2	2	2	
existing and future traffic	۷	2	۷	
Travel Lane width	3.5 - 3.7 m	3.3-3.5 m	3.5 m	
Shoulder / buffer width	1.5 m paved shoulder	0.5-2.3 m shoulder	1.7 m paved shoulder	
Shoulder / burler width	1.5 III paved shoulder	(of which 0-2.3 m is paved)	1.7 III paved shoulder	
Cycling facility	1.5 m wide (paved)	None	1.7 m paved shoulder	
		Substandard ditches are	Proper ditches or underground	
Drainage	Adequate drainage is required		infrastructure to provide	
		damaging the pavement	adequate drainage	



#### Winston Churchill Boulevard Design Domain

Design Element	TAC Standards	Existing	<b>Recommended Design</b>	
Speed Limit	Minimum 70-80 km/h design speed required for 60-70 km/h posted speed	Deficient. Vertical alignment provides design speed of 40 – 60 km/h	60 km/h posted speed limit with a 70 km/h design speed	
Number of lanes based on existing and future traffic	2	2	2	
Travel Lane width	3.5 - 3.7 m	3.1-3.6 m	3.5 m	
Shoulder / buffer width	1.5 m paved shoulder	1.2-3.0 m shoulder (of which 0-1.0 m is paved)	1.7 m paved shoulder	
Cycling facility	1.5 m wide (paved)	None	1.7 m paved shoulder	
Drainage	Adequate drainage is required	Substandard ditches are damaging the pavement	Proper ditches or underground infrastructure to provide adequate drainage	



## Olde Base Line Road Design Domain

Design Element	TAC Standards	Existing	Recommended Design
Speed Limit	Minimum 70 km/h design speed required for 60 km/h posted speed	Deficient. Vertical alignment provides design speed of 30 – 50 km/h	50 km/h posted speed limit with a 60 km/h design speed
Number of lanes based on existing and future traffic	2	2	2
Travel Lane width	3.3 - 3.7 m	3.4-3.5 m	3.5 m
Shoulder / buffer width	1.5 m paved shoulder	0.4-0.8 m unpaved shoulder	1.7 m paved shoulder
Cycling facility	1.5 m wide (paved)	None	1.7 m paved shoulder
Drainage	Adequate drainage is required	Substandard ditches are damaging the pavement	Proper ditches or underground infrastructure to provide adequate drainage



#### Natural Feature Constraints - Woodlands, Wetlands and Designated Policy Areas



#### Figure 5a

#### **Belfountain Transportation EA**

Natural Feature Constraints - Woodlands, Wetlands and Designated Policy Areas



#### 500 Meters

November 18, 2013. Project No: NRSI-1337, UTM Zone 17, NAD 83 Scale: 1:17,000 (at 11x17\*)

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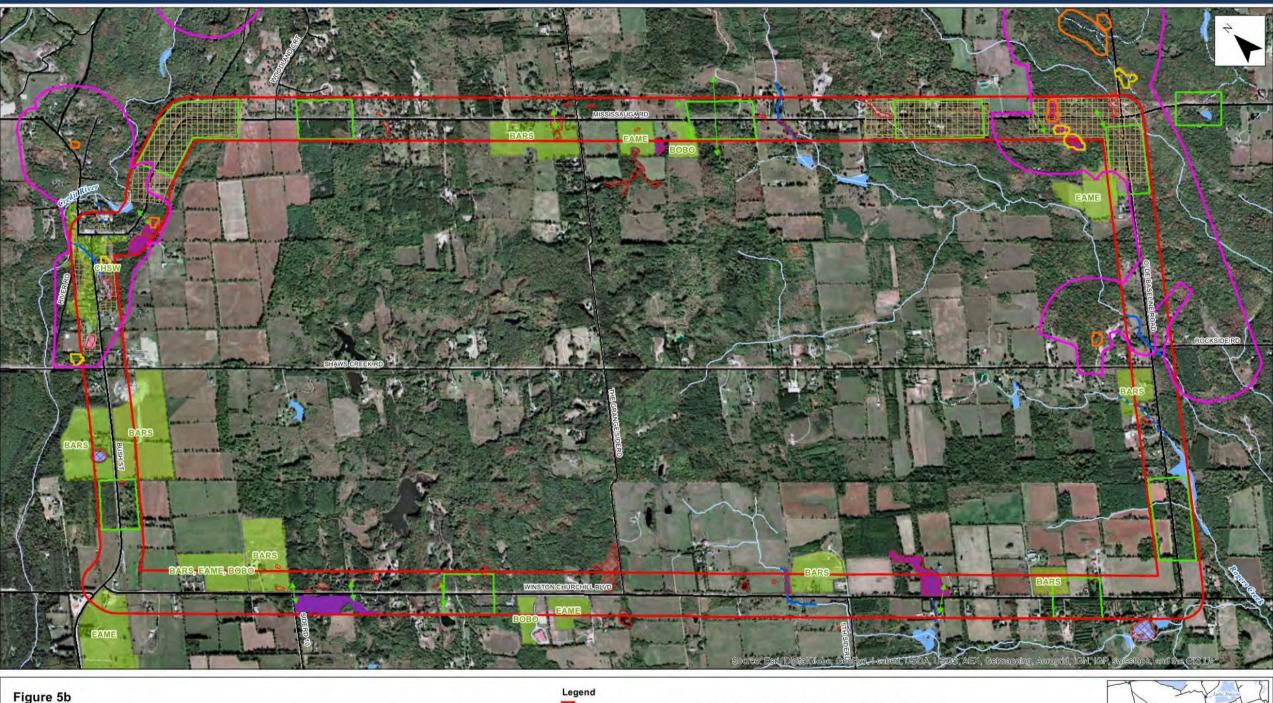
 Study Area
 Significant Woodla (>10ha)
 Primary Road
 Secondary Road
 Core Area Woodla (>16ha)
 Permanent Watercourse
 Intermittent Watercourse
 Environmentally Secondary Area (ESA)
 Waterbody

Legend





#### Natural Feature Constraints - Fish and Wildlife Habitat



#### **Belfountain Transportation EA**

#### **Natural Feature Constraints - Fish and** Wildlife Habitat

Aquatic, Terrestrial and Wetland Biologists

100 200 300 400 500 Meters November 15, 2013. Project No: NRSI-1337. UTM Zone 17, NAD 83 Scale: 1:17,000 (at 11x17")

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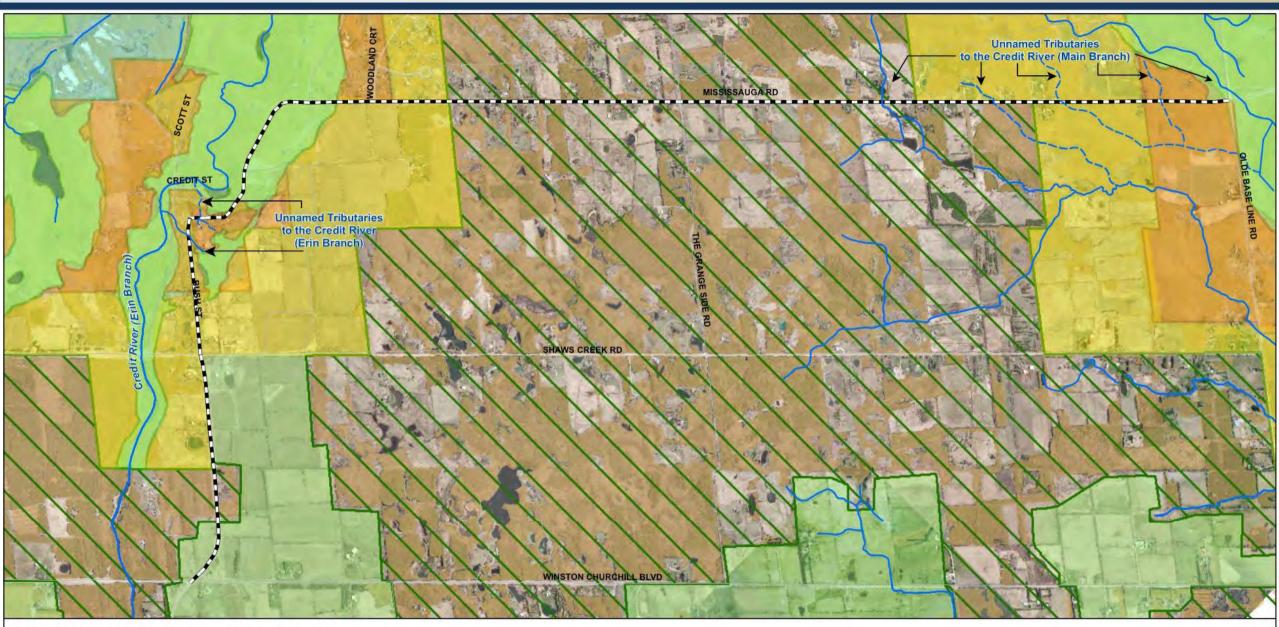
Northern Flying Squirrel High-Denisty Areas Jefferson Salamande Habitat Confirmed Amphibian Crossing Potential Direct Fish Habitat Regulated Habitat = Indirect Fish Habitat Amphibian Breeding SWH

#### Significant Wildlife Habitat Western Chorus Frog Habitat Turtle Overwintering

Deer Movement Corridor

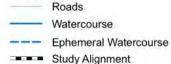


#### **Environmental Policy Areas**



Bush Street and Mississauga Road Class EA Figure 4: Environmental Policy Areas

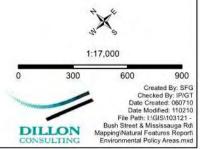




- Niagara Escarpment Plan
  - Escarpment Natural Area
    - Escarpment Protected Area Escarpment Rural Area
    - Escarpment Recreational Area

#### Greenbelt Designations Greenbelt Protected Countryside

- Greenbelt Natural Heritage System
- Region of Peel
  - Core Areas of the Greenland System



## Archaeological Assessment



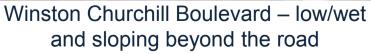
Stone wall, cedar fence on Winston Churchill Boulevard

Boulder fence and cedar rail fence, Shaw's Creek and Olde Base Line

Cedar fence along Bush



Stone fence - Mississauga Road at The Grange





Northwest view towards Bush – potential for archaeological significance in field



## Built / Cultural Heritage

#### Mississauga / Bush

- 48 identified resources
- 4 designated under Ontario Heritage Act
- 23 listed by Town of Caledon
- Another 11 listed with high significance

#### Olde Baseline / Winston Churchill

- 21 identified resources
- None designated under Ontario Heritage Act



Belfountain Community Cemetery Modern fence and fields adjacent to Olde Base Line Rd looking west

Belfountain Village Church

Belfountain Community Hall

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## Preliminary Design / Evaluations

#### Refer to corridor-specific stations



## Design Criteria

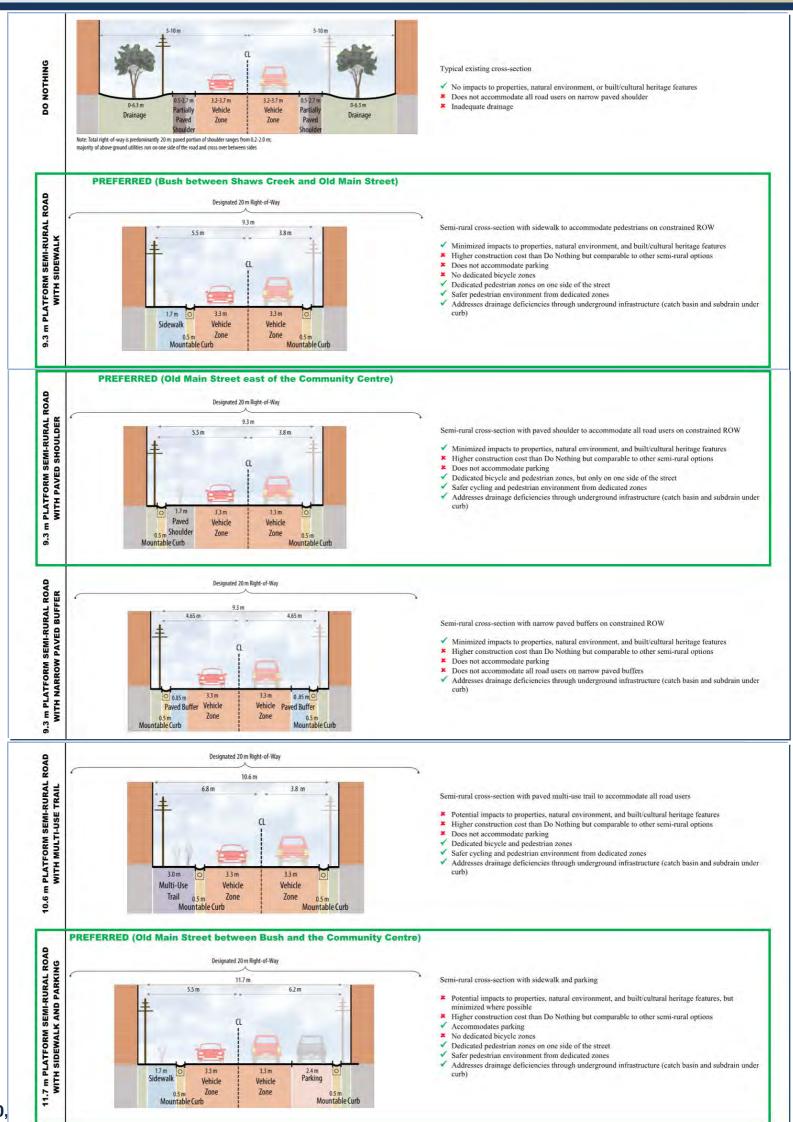
	DESIGN STANDARDS	DESIGN STANDARDS	DESIGN STANDARDS	DESIGN STANDARDS	DESIRED DESIGN STANDARDS (highly unlikely to be achieved)	REFERENCE
HIGHWAY CLASSIFICATION	RAU 50	RAU 60	RAU 70	RAU 80	RAU 90	
MINIMUM STOPPING SIGHT DISTANCE	60-65 m	75-85 m	95-110 m	115-140 m	130-170 m	(TAC - page 1,2.5.4 Table 1.2.5.3)
MIN. EQUIV. VERTICAL CURVE (WITH ILLUMINATION) <sup>1</sup>	6-7 - CREST 5-6 -SAG (Comfort)	10-13 - CREST 8-9 -SAG (Comfort)	16-23 - CREST 10-12 -SAG (Comfort)	24-26 - CREST 12-16-SAG (Comfort)	32-53 - CREST 15-20 -SAG (Comfort)	(TAC – page 2.1.3.6 Table 2.1.3.2) (TAC-Page 2.1.3.9. Table 2.1.3.4)
MIN. EQUIV. VERTICAL CURVE (WITHOUT ILLUMINATION) <sup>2</sup>	6-7 - CREST 11-12 -SAG (Headlight Control)	10-13 - CREST 15-18 -SAG (Headlight Control)	16-23 - CREST 20-25 –SAG (Headlight Control)	24-26 - CREST 25-32 -SAG (Headlight Control)	32-53- CREST 30-40 –SAG (Headlight Control)	(TAC – page 2.1.3.6 Table 2.1.3.2) (TAC-Page 2.1.3.9. Table 2.1.3.4)
MAXIMUM GRADIENT	8-10%	8-10%	8-10%	8-10%	8-10%	(To reflect prevailing conditions and maintain existing rural character)
MINIMUM CURVATURE	90 m	130 m	190 m	250 m	340 m	(TAC - page 2.1.2.13 Table 2.1.2.6)
SUPERELEVATION (ON CURVE)	6%	6%	6%	6%	6%	(TAC – page 2.1.2.3)
LANE WIDTH	3.3-3.7 m	3.3-3.7 m	3.5-3.7 m	3.5-3.7 m	3.5-3.7 m	(TAC - page 2.2.2.1 Table 2.2.2.1)
SHOULDER WIDTH	1.50 m min (Paved) 2.0 m (Unpaved)	1.50 m min (Paved) 2.0 m (Unpaved)	1.50 m min (Paved) 2.0 m (Unpaved)	1.50 m min (Paved) 2.0 m (Unpaved)	1.50 m min (Paved) 2.0 m (Unpaved)	(Region of Peel's Road Characterization Study, Rural Road with 30 m ROW)
SHOULDER WIDTH ON SIGNED BICYCLE ROUTE	2.0 m desirable 1.2 m minimum	2.0 m desirable 1.2 m minimum	2.0 m desirable 1.2 m minimum	2.0 m desirable 1.2 m minimum	2.0 m desirable 1.2 m minimum	(OTM BOOK 18 Table 4.2)
DRAINAGE ZONE	8.0 m	8.0 m	8.0 m	8.0 m	8.0 m	(Region of Peel's Road Characterization Study, Rural Road with 30 m ROW)
DESIGN SPEED	50 km/h	60 km/h	70 km/h	80 km/h	90 km/h	
POSTED SPEED	40 km/h	50 km/h	60 km/h	70 km/h	80 km/h	

NOTE 1: CROSS-SECTION ELEMENT WIDTHS MAY CHANGE DEPENDING ON AVAILABLE ROW WIDTHS NOTE 2: ALTHOUGH HIGHER DESIGN SPEEDS ARE DESIRABLE, THEY MAY NOT BE ACHIEVABLE DUE TO EXISTING TERRAIN

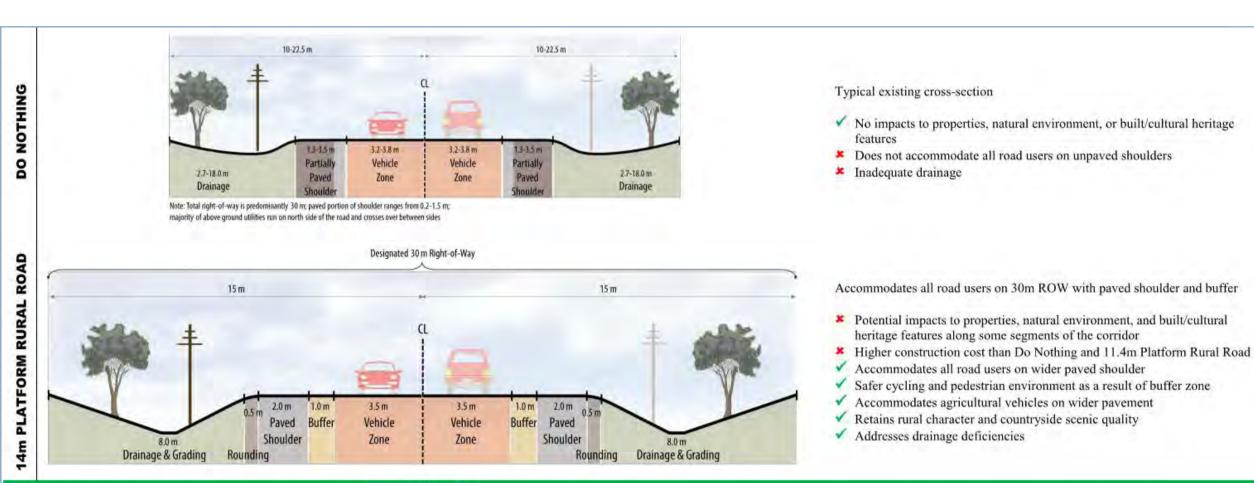


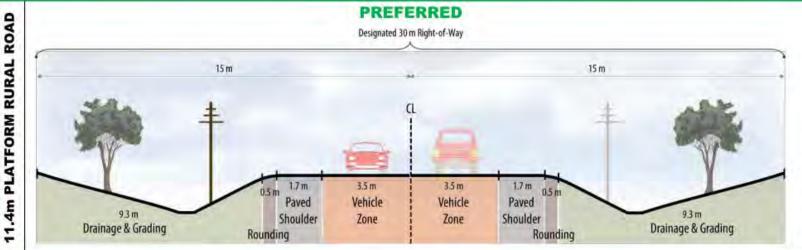
<sup>&</sup>lt;sup>1</sup> Applies only at some locations <sup>2</sup> Applies for the majority of the study area

#### **Belfountain Village Cross-Sections**



## **Bush Street Cross-Sections**

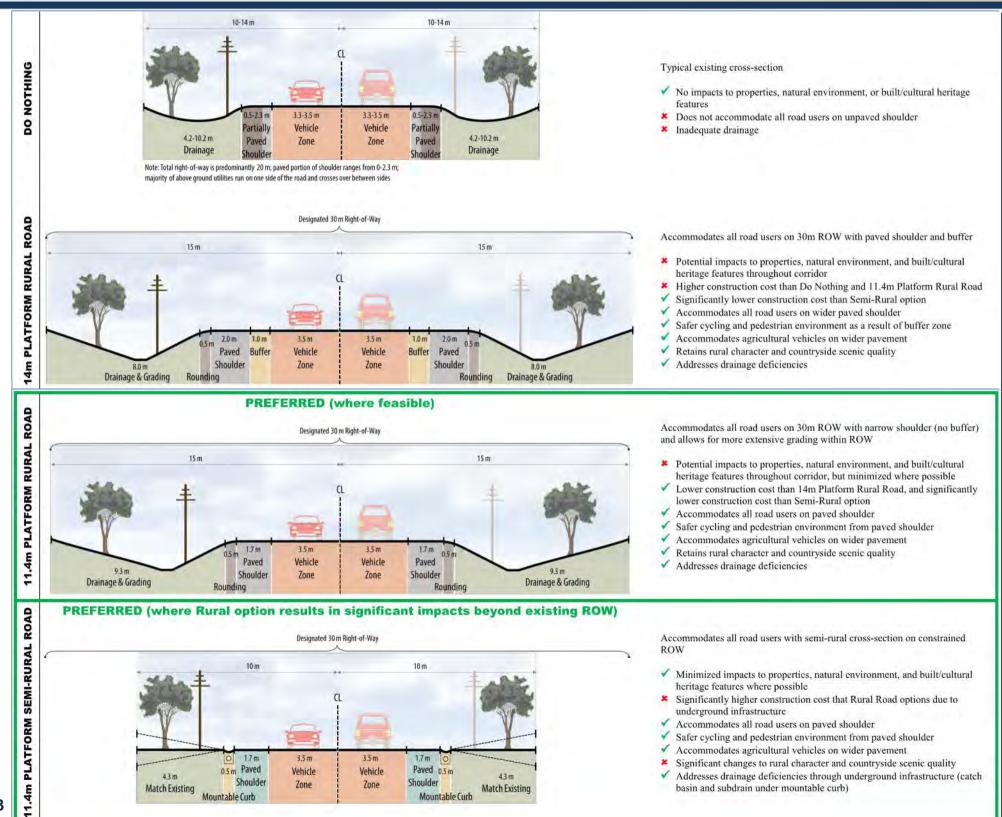




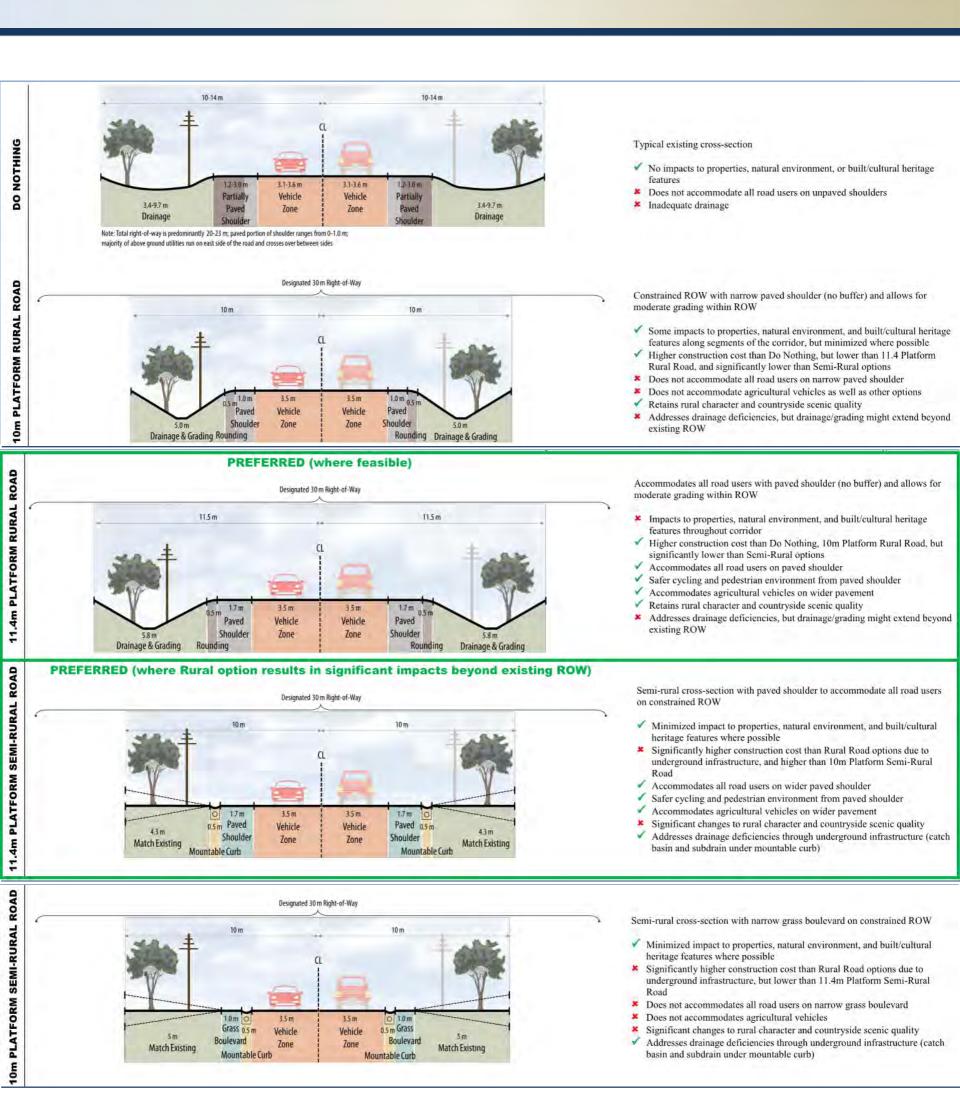
Accommodates all road users on 30m ROW with narrow shoulder (no buffer) and allows for more extensive grading within ROW

- Some potential impacts to properties, natural environment, and built/cultural heritage features along some segments of the corridor, but minimized where possible
- Lower construction cost than 14m Platform Rural Road
- Accommodates all road users on paved shoulder
- Safer cycling and pedestrian environment from paved shoulder
- Accommodates agricultural vehicles on wider pavement
- Retains rural character and countryside scenic quality
- Addresses drainage deficiencies

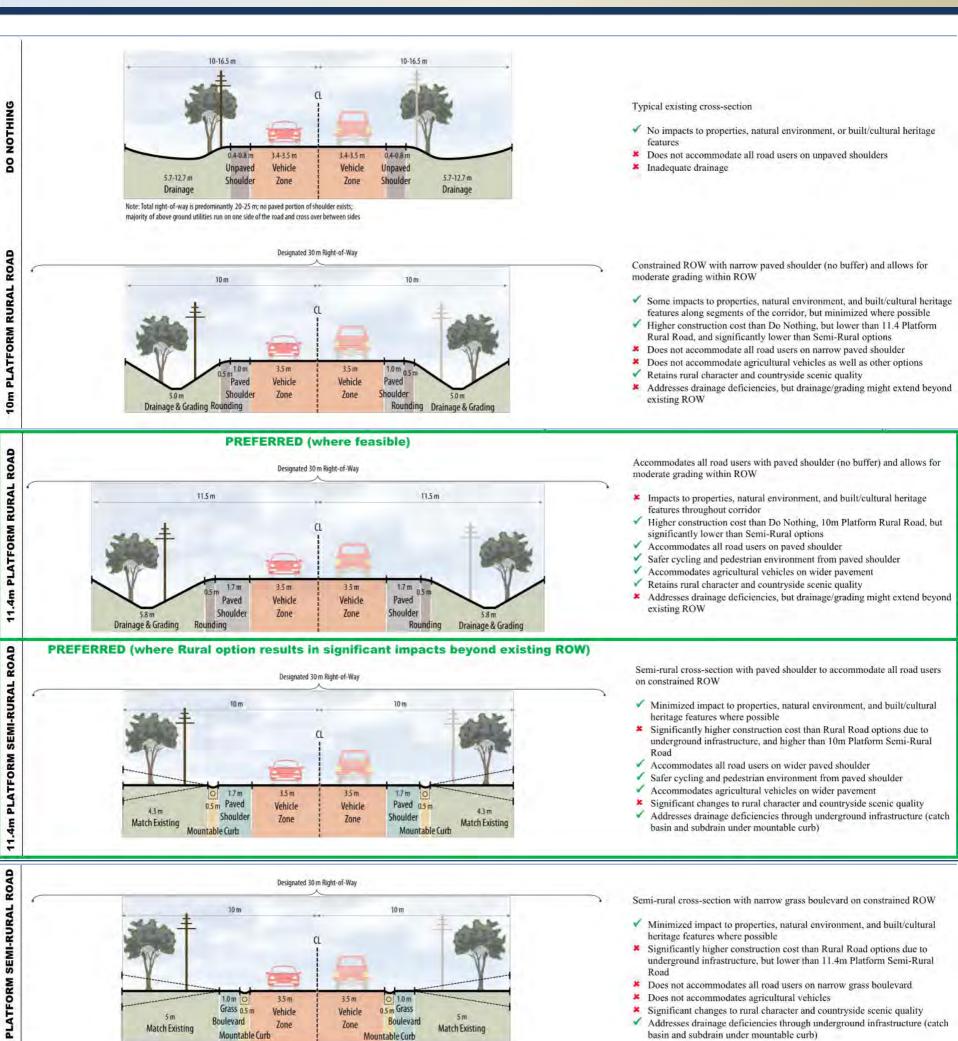
## Mississauga Road Cross-Sections



#### Winston Churchill Boulevard Cross-Sections



#### **Olde Base Line Road Cross-Sections**



Addresses drainage deficiencies through underground infrastructure (catch basin and subdrain under mountable curb)

10m

Boulevard

Mountable Curb

Match Existing

Zone

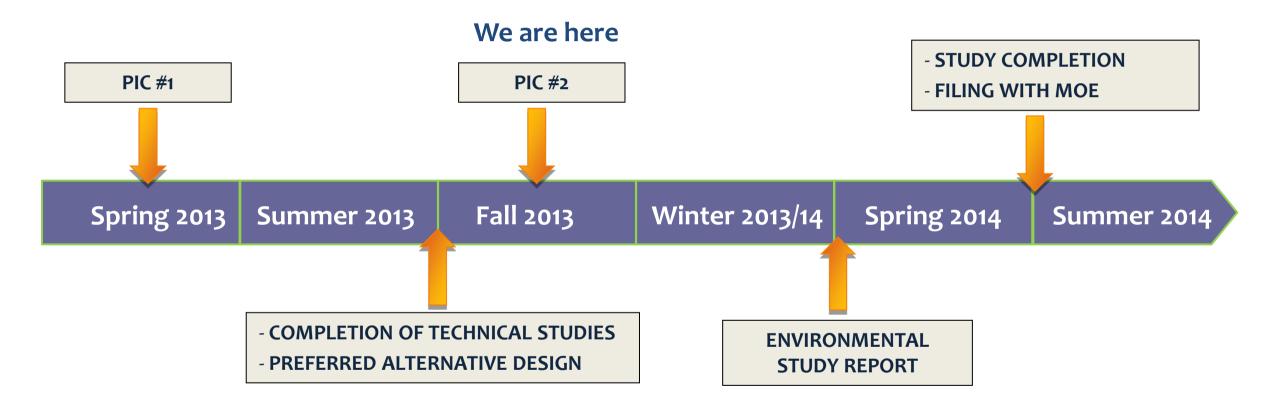
Boulevard

intable Curb

Match Existing

Zone

### Next Steps / Schedule





## Thank You

Please complete your feedback form and place it in the Comment Box, or send your comments by email/fax/mail to any of the following team members by **Wednesday, December 4, 2013.** 

You can view tonight's information boards again on our website: http://www.peelregion.ca/pw/transportation/environ-assess/mississauga-roadbush.htm

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### Thank you for your participation