

	Image: Constraint of the second sec		Image: Constraint of the second sec		CREDITVIEW ROAD CLASS EA PLAN / CROSS SECTIONS LONG-TERM SOLUTION
					LONG-TERM SOLUTION PLAN - STA. 8+037 TO STA. 10+487
AECOM					DESIGN DRAWN CHECKED CONTRACT No. SCALE : 15 0 30 SHEET
CONSULTANTS	HORIZONTAL \ VERTICAL CONTROL MONUMENTS	DIGITAL INFORMATION	No. DATE REVISIONS	INITIAL SIGNED	SCALE : DRAWING DRAWING DATE : DATE :

Impacts and Mitigation Long-term Solution

Trees

- An additional +/- 50 trees will be impacted, many of which are in poor to fair condition.
- A Tree Protection Zone will be established prior to construction to protect the remaining trees.
- Trees that are removed will be replaced at a 2:1 ratio along the corridor as much as possible and additional trees may be planted in nearby parks and natural areas.

Air Quality

The improvements to Creditview Road will reduce traffic congestion (e.g. delays, idling).

Speed and Safety

Incorporate roundabout design to manage speeds and facilitate safe pedestrian crossing.

Noise

No additional noise mitigation is required as new • alternative.

Property and Construction

- be required for the recommended long-term solution, 61 m² of which is private property.
- The City will negotiate the property requirements with private owners.
- A Construction Management Plan will be developed.

* Further community consultation will take place prior to the implementation of the long-term solution.



noise walls will be installed as part of the preferred

Approximately 875 m² of additional right-of-way will

Creditview Road Class Environmental Assessment



Roundabouts

A circular intersection design that has specific traffic control features and is designed to control speeds.

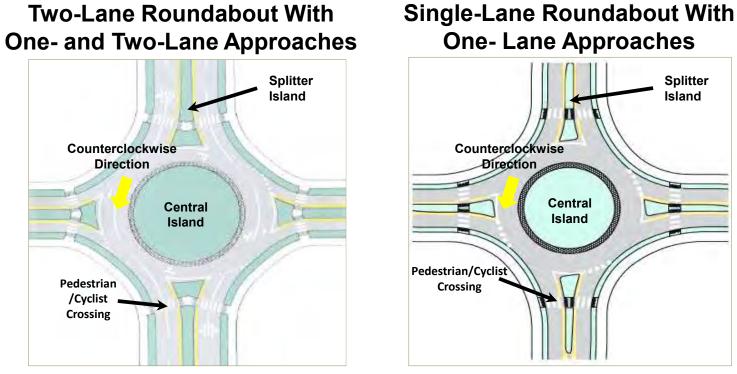
Counterclockwise

Direction

Central

Island

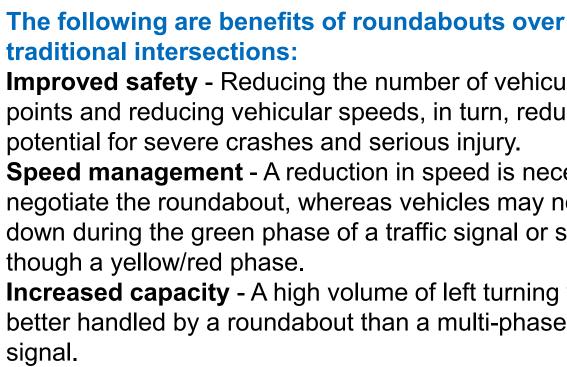
Splitter Island



Source: Manual on Uniform Traffic Control Devices for Streets and Highways

Pedestrian and Cyclist Use

- Pedestrians use splitter islands to cross one direction of traffic at a time.
- Experienced cyclists may ride through a roundabout as per other vehicles.
- Other cyclists dismount and walk their bicycles as per pedestrians. **Traffic Flow**
- All traffic circulates in a counterclockwise direction, to the right of a central island.
- Traffic must yield at entry to traffic already within the roundabout.
- Vehicles entering or leaving the traffic circle must stop to allow _ pedestrians to fully cross at the crosswalk.



- stopping and waiting for a green light at a signalized reducing emissions.
- signals.
- the central island. Reference: mto.gov.on.ca



Improved safety - Reducing the number of vehicular conflict points and reducing vehicular speeds, in turn, reduces the

Speed management - A reduction in speed is necessary to negotiate the roundabout, whereas vehicles may not slow down during the green phase of a traffic signal or speed

Increased capacity - A high volume of left turning vehicles is better handled by a roundabout than a multi-phased traffic

Fewer stops and reduced delays - Delay is significantly reduced by yielding at the entry of a roundabout, rather than intersection; or waiting for a gap in the traffic at a stop sign. Less idling and air pollution - Reduced delays mean reduced fuel consumption and improved air quality by

Reduced maintenance costs - The roundabout eliminates maintenance and electricity costs associated with traffic

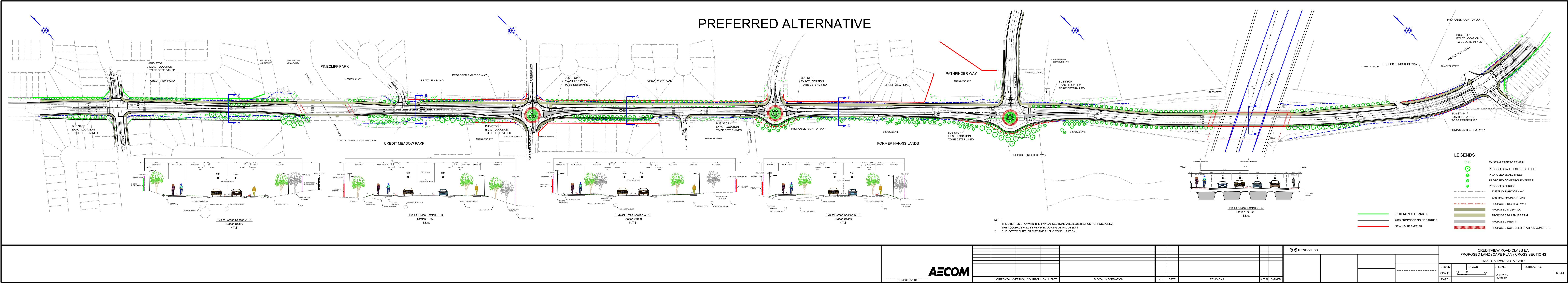
Aesthetics - There is an opportunity for landscaping within



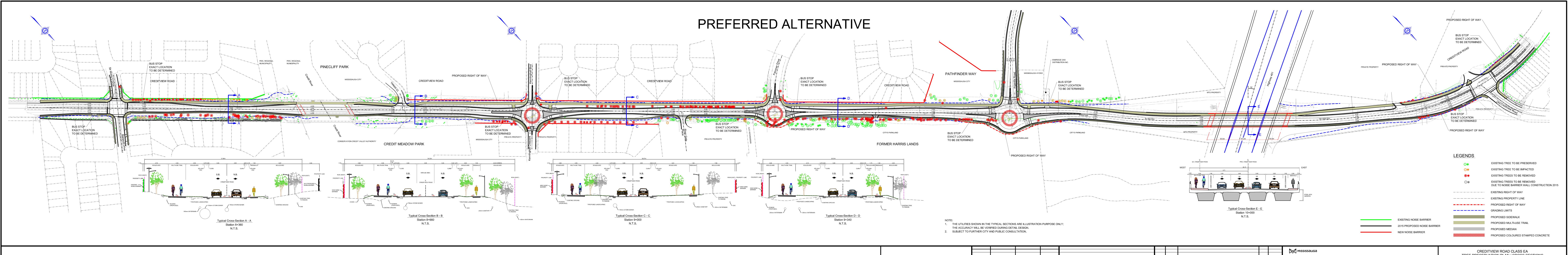
Streetscape Vision

- Improve active transportation opportunities and connections to adjacent neighbourhoods and open spaces;
- Balance the functional and aesthetic requirements of pedestrians, cyclists, transit, vehicles and the natural environment;
- Enhance the natural and scenic route qualities along Creditview Road with new tree species and vegetative planting;
- Opportunities to enhance the City parkland; ullet
- Consideration of the transition of land uses in the study area from businesses and Highway 401 crossing to low/medium density residential and parklands;
- Incorporate plantings into the central island of roundabouts as a means ulletof enhancing the natural and scenic route qualities; and,
- Restoration of the natural environment using appropriate tree, shrub and herbaceous species throughout the corridor.





			Mississauga	CREDITVIEW ROAD CLASS EA												
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AECOM

HORIZONTAL \ VERTICAL CONTROL MONUMENTS

			Mississauga	CREDITVIEW ROAD CLASS EA TREE PRESERVATION PLAN / CROSS SECTIONS								
					PLAN - STA. 8+037 TO STA. 10+487							
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						SCALE :	15 () 30	DRAWING	IG		
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No. DATE

DIGITAL INFORMATION



Preliminary Tree Protection and Planting Plan

Tree Protection

- A Tree Protection Zone will be established prior to construction. Root damage will be minimized to the extent possible;
- Root pruning will occur prior to the start of construction and under the supervision of a certified arborist; •
- Any roots severed during construction will be cut cleanly to minimize decay and entry points for disease; •
- Limbs and/or branches will be pruned prior to construction, where it is expected that they could be damaged or ٠ interfere with construction, under the supervision of the contract administrator;
- Construction restrictions and maintenance practices; and, ۲
- Special consideration will be given to the preservation of identified significant/mature trees.

Tree Planting

- Trees that will be removed or damaged during construction will be replaced in appropriate locations; ullet
- Replacement planting will include native tree species where appropriate; and, ۲
- Significant tree species (e.g. Sugar Maple, Red Oak, Bur Oak, Shagbark Hickory and Black Walnut) will be ulletplanted, where appropriate.

Enhanced street tree planting helps to improve air quality and enhances the aesthetics of the roadway. Opportunities to plant additional trees and improve the diversity of age and species will be explored as part of this project.



Creditview Road Class Environmental Assessment