



AGENDA

- **01** Introduction
- **02** Current Design
- **03** Proposed Work
- **04** Proposed Work
- 05 Detour Plan (Upper Gage to Oakcrest)





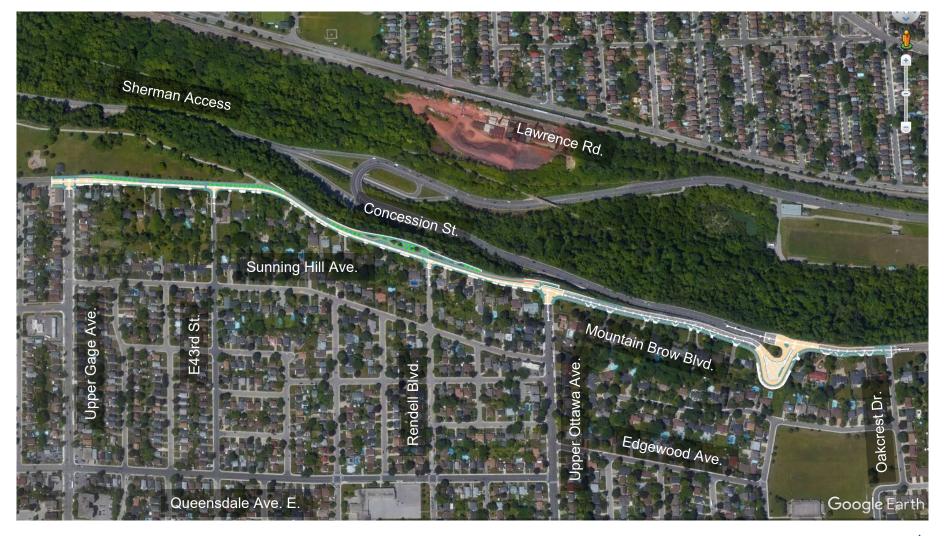
PROJECT TEAM

Involved Staff

- Susan Jacob (Design, Manager, CoH)
- Mitchell Knot (Design, Senior Project Manager, CoH)
- Nasrin Firouzbakht (Design, Project Manager, CoH)
- Paul McShane (Construction, Senior Project Manager, CoH)
- Carolyn Ryall (Transportation, Director, CoH)
- Mike Field (Transportation, Manager, CoH)
- Arturo Rodriguez (Senior Designer, WSP)
- Christian Orozco (Junior Transportation Designer, WSP)



PROJECT LOCATION







INTRODUCTION

Project Scope

- Reconstruction/ Rehabilitation of Concession Street between Upper Gage Avenue and Oakcrest Drive
 - Upper Gage Ave. Upper Ottawa St.: Roadway reconstruction including new sidewalk and watermain replacement
 - Upper Ottawa St. Oakcrest Drive: Roadway Resurfacing
- New Multi-use Path (MUP) from Upper Gage Ave to Oakcrest Drive
- Reconfiguration of Mountain Brow Blvd. intersection with new traffic signals

Project Goal

- To achieve Complete Street and Vision Zero principles
- Enhancing pedestrian and active transportation safety, mobility and connectivity
- Provide upgraded watermain infrastructure for the community





INTRODUCTION

Project Status and Schedule

- Design is currently being finalized for tendering
- Anticipated Construction Tendering: Spring 2024
- Anticipated Construction commencement: Summer 2024
- Anticipated Construction Completion: Fall 2024





Upper Gage Ave. to Upper Ottawa St.



- Reconstruction of existing roadway, maintaining 2 lanes of traffic.
- Existing watermain to be replaced
- New concrete pads to be installed at intersections on South side of Concession St. meeting AODA standards
- New MUP to be installed on North of Concession St.
- Proposed landscape planting along MUP







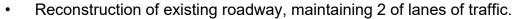
Road Reconstruction

Driveway Restoration

Concrete Sidewalk

Multi Use Path (MUP)

Upper Gage Ave. to Upper Ottawa St.



- Existing watermain to be replaced
- New concrete pads to be installed at intersections on South side of Concession St. meeting AODA standards
- New MUP to be installed on the North of Concession St.
- Proposed landscape planting along MUP
- New 1.4m Iron Eagle, aluminum black fence on the North side of Concession St.
- New 1.4m parapet wall with black coated railing on top on the North side



1.4m Iron Eagle Black Fence

1.4m Partial Height
Parapet Wall with
Black Coated Railing

Road Reconstruction

Concrete Sidewalk

Multi Use Path (MUP)

Driveway Restoration





wsp

Upper Ottawa St. to Oakcrest Dr.



- Resurfacing of existing roadway, maintaining 2 of lanes of traffic.
- New MUP to be installed along south side of Concession St.
- Reconfiguration of Mountain Brow Blvd intersection.
- Proposed landscape planting.

1.4m Iron Eagle Black Fence

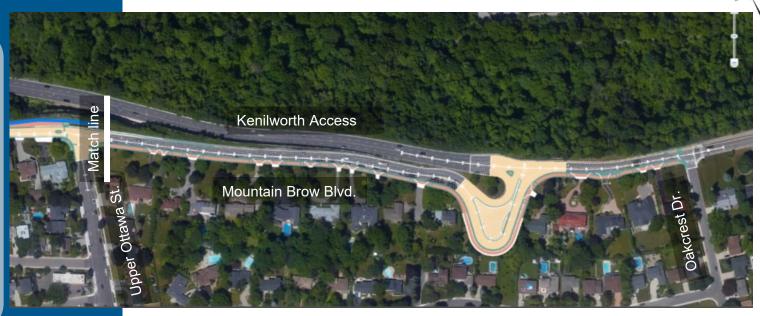
Road Reconstruction



Concrete Sidewalk

Multi Use Path (MUP)

Driveway Restoration







Examples of Parapet Wall and Fence

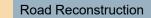


Upper Ottawa Ave. to Oakcrest Dr.

The intersection of Concession Street and Mountain Brow Blvd will be reconfigured into a standard T-intersection.

- New traffic signals will be installed.
- Proposed barrier and acoustic fencing to be installed on the south side of the intersection







Concrete Sidewalk

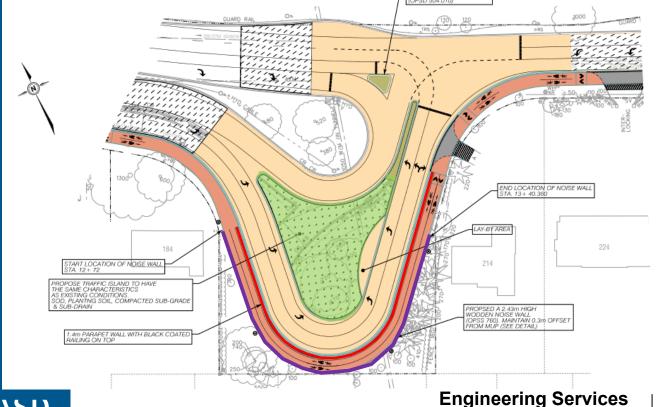
Multi Use Path (MUP)

Driveway Restoration

Vegetated Traffic Island

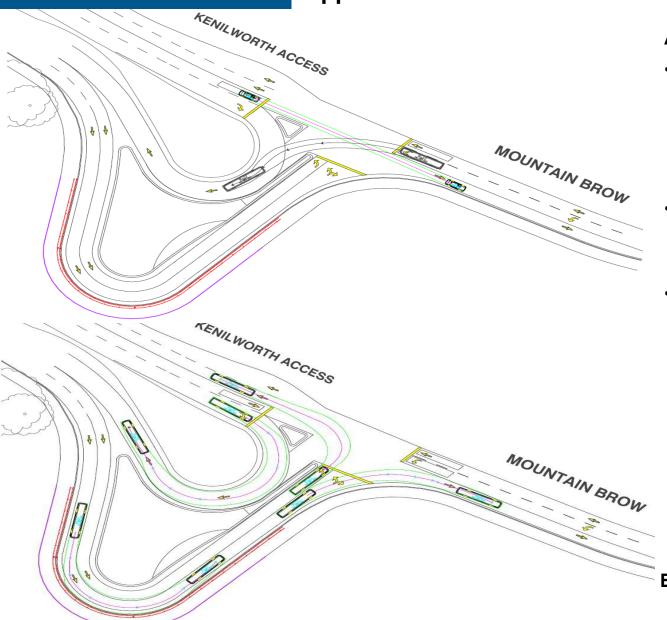
2.4m Acoustic Barrier

1.4m Partial Height
Parapet Wall with
Black Coated Railing





Upper Ottawa Ave. to Oakcrest Dr-Traffic Circle Area



Advantages

- raffic study was conducted, and the remodel of the traffic circle area was recommended in order to reduce high collision history
- A controlled signalize Tintersection was introduced as the best option
- Intersection controlled loop, eliminates West bound Trough and Eastbound Through, which was a safety concern in the Traffic Safety Report

TRAFFIC IMPACT & DETOUR PLAN

Upper Gage Ave. to to Oakcrest Dr.

- Single Lane of Through Traffic will be maintained along Concession Street
- Traffic Detour/Alternative Routes will be utilized to maintain Traffic Operation
- All local driveway accesses will be maintained during construction



Construction Tender

Schedule

- Tender date is mid May 2024
- Notices will be mailed out mid of May
- Construction is scheduled to commence in July 2024
- Contractor will be on-site from July to December 2024
- Minor restoration in Spring 2025





Construction Timetable

First Phase

The first phase of construction extends from Upper Gage Avenue to Upper Ottawa Street. This early stage focuses on a few essential elements designed to improve the area's infrastructure and facilities:

- Road reconstruction
- Watermain replacement
- Concrete works



Construction Timetable

Second phase

The second phase of construction extends from Upper Ottawa Street to Oakcrest Drive:

- Road Resurfacing
- Multi use path installation on the south side
- Signalized T-intersection
- Noise wall installation around the traffic circle





Presentation of Final Traffic Operations and Measures

Mike Field
Manager, Transportation, CoH



The Approach to Roadway Safety

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**

Vision Zero aims for safer streets through safe systems.



Traditional		Safe System
Prevent crashes —	-	Prevent deaths and serious injuries
Improve human behavior —	-	Design for human mistakes/limitations
Control speeding	-	Reduce system kinetic energy
Individuals are responsible ———	-	Share responsibility
React based on crash history —	-	Proactively identify and address risks



Policy Framework



Vision Zero Action Plan



Pedestrian Mobility Plan



Cycling Master Plan



(re)Envision the HSR



Parking Master Plan



Transportation Master Plan



Urban Hamilton Official Plan



Complete Streets
Design Manual

Current Operations





Challenges & Opportunities



High number of collisions between 2017-2021 (38)

- Weaving and late-lane changes due to existing design
- Westbound motorists crossing over 4 lanes to enter the intended travel lane
- Motorists must watch for upbound vehicles while navigating through the circle
- Opportunity for safety enhancements by applying vision zero principals



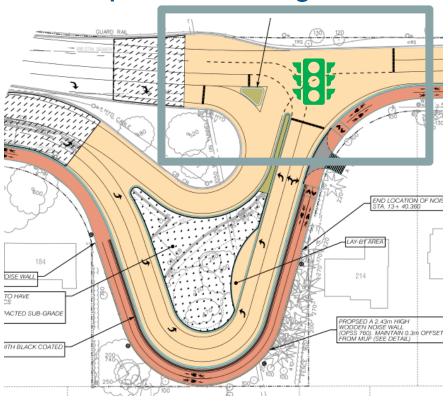


Optimal Configuration



Safe Systems Approach to Roadway Safety

- Comprehensive road safety audit conducted
- 3 alternative designs considered
- Convert to a signalized intersection identified as the optimal solution
- Meets the principals of Vision Zero





Level of Service	Expectation of Operations
Α	Free flow: no delay
В	Stable flow: slight delay
С	Stable flow: Acceptable delay
D	Unstable flow: Tolerable delay
E	Unstable flow: Intolerable delay
F	Forced flow: Congestion

Future Traffic Flow





Traffic Simulation





THANK YOU

