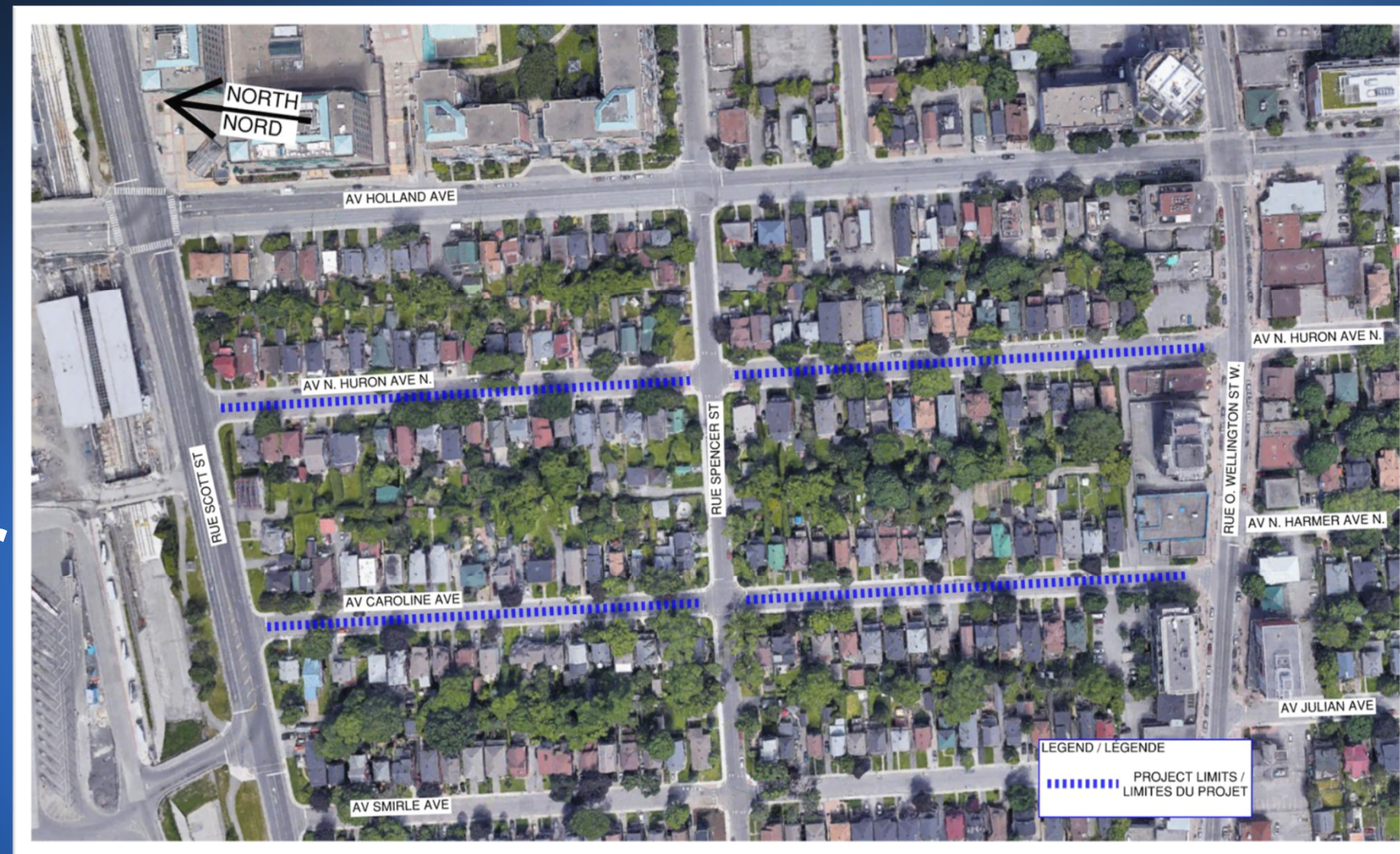


Huron Avenue and Caroline Avenue Integrated Road, Sewer and Watermain Project



Online Engagement Opportunity
February 2023

Land Acknowledgement

We recognize that Ottawa is located on unceded territory of the Anishinabe Algonquin Nation.

We extend our respect to all First Nations, Inuit and Métis peoples for their valuable past and present contributions to this land.

We also recognize and respect the cultural diversity that First Nations, Inuit and Métis people bring to the City of Ottawa.

Welcome - Online Engagement Opportunity

Welcome to the Online Engagement Opportunity for the Huron Avenue and Caroline Avenue Integrated Road, Sewer and Watermain Project.

The purpose of this online engagement is to present the preliminary road, sewer and watermain designs, and to inform residents and business owners of the upcoming construction activities.

Please review the information presented and **provide your comments by phone or email**, as noted on the last page of this document, by **February 15th, 2023**.

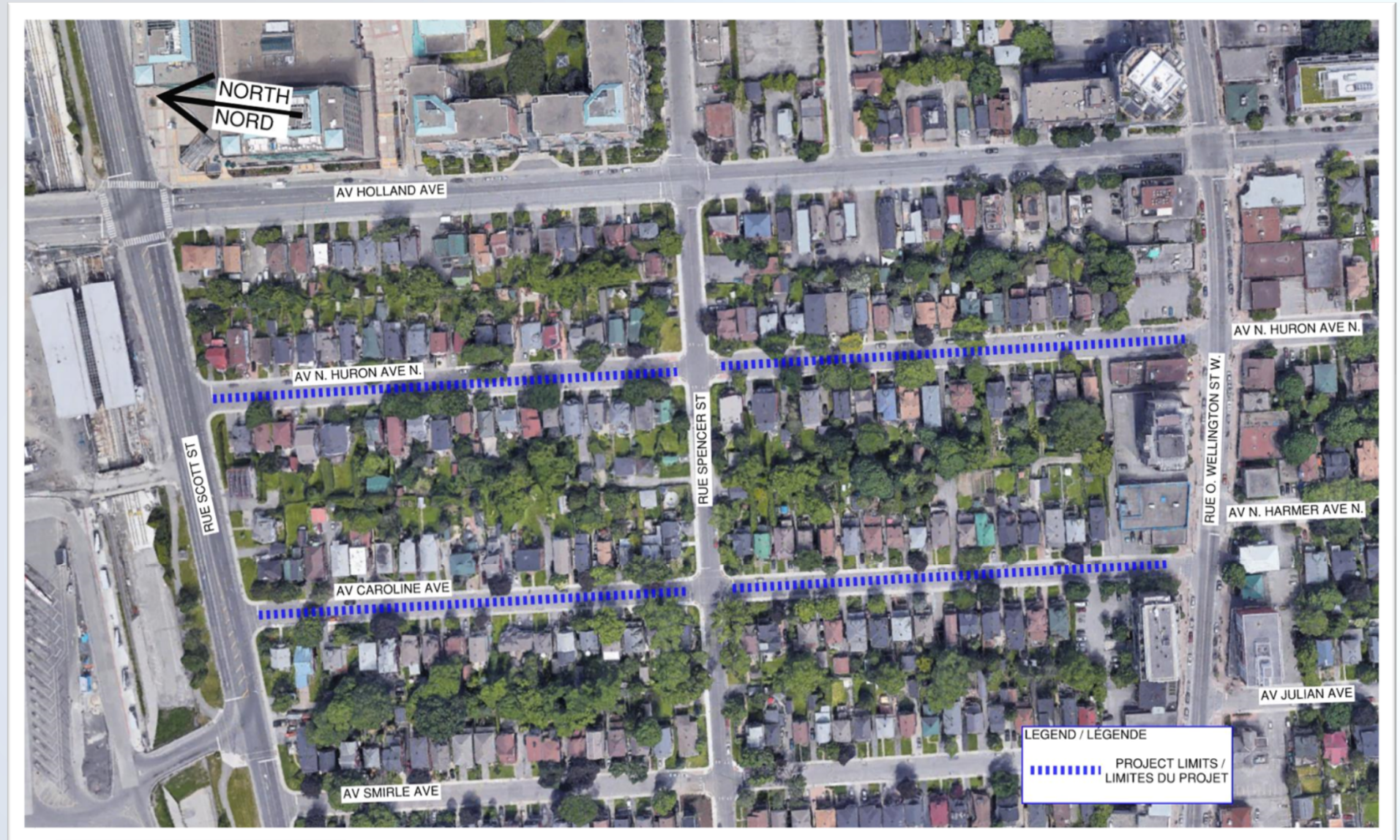
If you have any specific concerns about your property, or any accessibility restrictions that should be noted during construction, please contact the **City Project Manager**, [Andrew Pulsifer](#), as noted on the last page of this document.

Engagement Overview

The City of Ottawa has retained J.L. Richards & Associates Limited to undertake the design of the Huron Avenue and Caroline Avenue Renewal Project.

This Online Engagement will provide:

- A summary of the existing sanitary sewer, storm sewer, watermain and road conditions.
- A description of the project.
- What to expect during construction.
- Project Schedule.



Project Overview

- The project will take place on:
 - Huron Avenue North, between Scott Street and Wellington Street West (excluding the Spencer Street intersection), and
 - Caroline Avenue, between Scott Street and Wellington Street West (excluding the Spencer Street intersection).
- On both streets, all existing watermains and most of the existing sanitary sewers will be replaced due to their age and condition. The sanitary sewers in Huron Avenue, between Scott Street and 76/77 Huron Avenue, installed in 1977, are still in good condition and will not be replaced.
- The existing storm sewers in both streets will not be replaced as they are newer and remain in good condition.
- All water and sewer services will be reconstructed from the mainline in the street to the property line (i.e., within the City's right-of-way). Existing catch basins will also be replaced.
- The rehabilitation of the aging infrastructure will improve the reliability of the wastewater collection and water distribution systems in the area.
- Due to the scope of the underground works, full road reconstruction will take place on both streets. This will include new pavement, wider concrete sidewalks and new traffic calming measures.

Huron Avenue – Existing Conditions

The Cave Creek Collector (CCC) is a large diameter storm sewer that runs along the centre of Huron Avenue and does not need to be replaced. Due to its location and depth, some portions of Huron Avenue are serviced by two sanitary sewers and two watermains, as outlined in the table below:

HURON AVENUE	EXISTING STORM SEWERS (CAVE CREEK COLLECTOR)	EXISTING SANITARY SEWERS	EXISTING WATERMAINS
BETWEEN SCOTT STREET AND SPENCER STREET	1800mm DIAMETER CONCRETE SEWER (NOT BEING REPLACED)	300mm DIAMETER CONCRETE SEWER (WEST SIDE) (1977) (NOT BEING REPLACED)	150mm UNLINED CAST IRON WATERMAIN (1927)
		300mm DIAMETER CONCRETE SEWER (EAST SIDE) (1977) (NOT BEING REPLACED)	
BETWEEN SPENCER STREET AND WELLINGTON STREET WEST	1200mm WIDE x 3000mm DEEP CONCRETE BOX SEWER / 1800mm DIAMETER CONCRETE SEWER (NOT BEING REPLACED)	225mm DIAMETER CONCRETE SEWER (WEST SIDE) (1935)	150mm UNLINED CAST IRON WATERMAIN (WEST SIDE) (1927)
		225mm DIAMETER CONCRETE SEWER (EAST SIDE) (1935)	150mm UNLINED CAST IRON WATERMAIN (EAST SIDE) (1927)

Huron Avenue – New Sanitary Sewers and Watermains

The new sanitary sewer and watermain configuration will be very similar to the existing configuration – two sanitary sewers and two watermains, as outlined in the table below:

HURON AVENUE	EXISTING STORM SEWERS (CAVE CREEK COLLECTOR)	NEW SANITARY SEWERS	NEW WATERMAINS
BETWEEN SCOTT STREET AND SPENCER STREET	1800mm DIAMETER CONCRETE SEWER (NOT BEING REPLACED)	EXISTING SANITARY SEWER (300mm CONCRETE) (WEST SIDE) (NOT BEING REPLACED)	200mm PVC WATERMAIN
		EXISTING SANITARY SEWER (300mm CONCRETE) (EAST SIDE) (NOT BEING REPLACED)	
BETWEEN SPENCER STREET AND WELLINGTON STREET WEST	1200mm WIDE x 3000mm DEEP CONCRETE BOX SEWER / 1800mm DIAMETER CONCRETE SEWER (NOT BEING REPLACED)	250mm DIAMETER PVC SEWER (WEST SIDE)	150mm PVC WATERMAIN (WEST SIDE)
		250mm DIAMETER PVC SEWER (EAST SIDE)	150mm PVC WATERMAIN (EAST SIDE)

All residents within the project limits will have their water and sanitary services reconstructed up to the property line. This includes areas where the main sanitary sewer is not being replaced.

Caroline Avenue – Existing Conditions

The existing sanitary sewer, storm sewer and watermain in Caroline Avenue is outlined in the table below:

CAROLINE AVENUE	EXISTING STORM SEWERS	EXISTING SANITARY SEWERS	EXISTING WATERMAINS
BETWEEN SCOTT STREET AND SPENCER STREET	750mm DIAMETER CONCRETE SEWER (1977) (NOT BEING REPLACED)	600mm DIAMETER CONCRETE SEWER (1938)	150mm UNLINED CAST IRON WATERMAIN (1922)
BETWEEN SPENCER STREET AND WELLINGTON STREET WEST	375mm DIAMETER CONCRETE SEWER (1977) (NOT BEING REPLACED)	225mm DIAMETER CLAY SEWER (1933)	150mm UNLINED CAST IRON WATERMAIN (1921)

Caroline Avenue – New Sanitary Sewers and Watermains

The existing storm sewer in Caroline Avenue was installed in 1977 and is still in good condition. Only the watermain and sanitary sewer will be replaced.

CAROLINE AVENUE	EXISTING STORM SEWERS	NEW SANITARY SEWERS	NEW WATERMAINS
BETWEEN SCOTT STREET AND SPENCER STREET	750mm DIAMETER CONCRETE SEWER (1977) (NOT BEING REPLACED)	375mm DIAMETER PVC SEWER	200mm PVC WATERMAIN
BETWEEN SPENCER STREET AND WELLINGTON STREET WEST	375mm DIAMETER CONCRETE SEWER (1977) (NOT BEING REPLACED)	250mm DIAMETER PVC SEWER	200mm PVC WATERMAIN

All residents within the project limits will have their water and sanitary services reconstructed up to the property line.

Hydrant Locations

- Hydrant locations and spacing are reviewed as part of the watermain design to ensure current City requirements are met.
- Some existing hydrants are very close or conflict with existing driveway locations and cannot be replaced in their current locations.
- All proposed hydrant locations within the project limit are identified on the display boards included on the project website.

Lead Service Replacement

Given the vintage of the existing unlined cast iron watermain, it is possible that you may have a lead water service. As part of this project, all water services will be replaced to the property line by the City. If the City notes that your private water service is also made of lead, you will receive a letter.

Any replacement of services on private property is the responsibility of the property owner to coordinate with an independent Contractor. However, there is a City of Ottawa program available to help subsidize the cost of replacing your lead service.

Additional information can be found at: <https://ottawa.ca/leadpipes>

Proposed Road Reconstruction – Huron Avenue and Caroline Avenue

- Due to the planned underground work and the poor condition of the existing asphalt, the road pavement structure and sidewalks will be fully reconstructed within the project limits.
- The current road width for Huron Avenue is very wide compared to other local streets in the neighbourhood and will be narrowed when it is reconstructed.
- The proposed road width for Caroline Avenue will generally remain the same or slightly narrowed.
- The tables on the following slides provide a general summary of the proposed road geometry compared to the existing conditions.

Proposed Road Design – Huron Avenue

	EXISTING CONDITIONS (PROPOSED CONDITIONS)		
	ROAD WIDTH	SIDEWALK WIDTH	CYCLING FACILITIES
HURON AVENUE (Scott to Spencer) (local road)	~11.8m (8.5m)	~1.5m (2.0m)	Mixed traffic (Mixed traffic)
HURON AVENUE (Spencer to Wellington) (local road)	~11.3m (8.5m)	~1.7m (2.0m)	Mixed traffic (Mixed traffic)

Proposed Road Design – Caroline Avenue

	EXISTING CONDITIONS (PROPOSED CONDITIONS)		
	ROAD WIDTH	SIDEWALK WIDTH	CYCLING FACILITIES
CAROLINE AVENUE (Scott to Spencer) (local road)	~9.1m (8.5m)	~1.6m (2.0m)	Mixed traffic (Mixed traffic)
CAROLINE AVENUE (Spencer to Wellington) (local road)	~8.6m (8.5m)	~1.9m (2.0m)	Mixed traffic (Mixed traffic)

Proposed Traffic Calming

- The City's Road Safety Action Plan (RSAP) was approved in 2019 and established that when a local street is reconstructed, it is to be designed for a 30km/h operating speed. The full road reconstruction of Huron Avenue and Caroline Avenue provides an opportunity to implement traffic calming measures to achieve this objective.
- In response to feedback from the community, a variety of different traffic calming measures are being proposed on both Huron Avenue and Caroline Avenue. These measures include:
 - Bulb-outs at intersections
 - Speed tables
 - Centre medians
 - Mid-block road narrowings
 - Chicanes (a series of mid-block narrowing features)
- The proposed road and traffic calming designs have been reviewed by the City's Surface Operations department to ensure winter maintenance vehicles can be accommodated.

On-Street Parking

- After construction, the City is proposing to allow parking on only one side of the street year-round for both Huron Avenue and Caroline Avenue.
- The proposed traffic calming measures will result in some loss of parking spaces.
- The on-street parking restrictions proposed by the City combined with the new traffic calming measures along both streets, will result in an overall reduction of available on-street parking spaces along Huron Avenue and Caroline Avenue.
- Based on existing parking utilization, there remains sufficient on-street parking capacity on these streets and the immediate adjacent streets (Spencer Street) to accommodate parking demand.

Parking Restrictions – Huron Avenue

	EXISTING CONDITIONS		PROPOSED CONDITIONS	
	WEST SIDE	EAST SIDE	WEST SIDE	EAST SIDE
#2-#48 Huron Avenue	Parking permitted (8am-5pm, April-November) Not permitted (December-March)	Parking permitted (1hr between 8am-5pm)	Parking permitted	Not permitted
#49-#81 Huron Avenue	Parking permitted (8am-5pm, April-November) Not permitted (December-March)	Parking permitted (1hr between 8am-5pm)	Not permitted	Parking permitted
#100-#116 Huron Avenue	No parking (7am-7pm)	Parking permitted (1hr between 8am-5pm)	Parking permitted	Not permitted
#127 Huron Avenue- #1247 Wellington Street W.	No parking (7am-7pm)	Parking permitted (1hr between 8am-5pm)	Not permitted	Parking permitted

Parking Restrictions – Caroline Avenue

	EXISTING CONDITIONS		PROPOSED CONDITIONS	
	WEST SIDE	EAST SIDE	WEST SIDE	EAST SIDE
#4-#44 Caroline Avenue	Parking permitted (8am-5pm, April-November) Not permitted (December-March)	Parking permitted (1hr between 8am-5pm)	Parking permitted	Not permitted
#45-#71 Caroline Avenue	Parking permitted (8am-5pm, April-November) Not permitted (December-March)	Parking permitted (1hr between 8am-5pm)	Not permitted	Parking permitted
#95-#99 Caroline Avenue	Not permitted	Parking permitted (1hr between 8am-5pm)	Not permitted	Parking permitted
#98-#106 Caroline Avenue	Not permitted	Parking permitted (1hr between 8am-5pm)	Parking permitted	Not permitted
#121-#137 Caroline Avenue	Not permitted	Parking permitted (1hr between 8am-5pm)	Not permitted	Parking permitted

What to Expect During Construction

During construction, there will be some inevitable disruptions in the neighbourhood that will be experienced. Below are some examples of the impacts with a summary of the mitigation strategies.

CONSTRUCTION IMPACT	MITIGATION STRATEGY
Localized temporary road closures	Temporary detours will be in place around the work zone, but local access will be maintained.
Intermittent temporary limited access to driveways	In the event that your driveway access is restricted due to construction activities, the project team will provide advance notice.
Pedestrian Access	The Contractor is required to maintain a 1.5m wide pedestrian pathway through the site at all times.
Accessibility	Accessibility is an important consideration for the City and the project team will make every effort to provide you with access through the site. Please contact the City's Project Manager to advise if you have any accessibility concerns

What to Expect During Construction

CONSTRUCTION IMPACT	MITIGATION STRATEGY
Construction Noise and Vibrations (including rock excavation)	Noise, in accordance with provincial regulations and the City's noise By-law (No. 2017-255), is expected during working hours. You may also feel vibrations due to heavy equipment operations. Vibrations from construction activities are common and rarely cause problems.
Pre-Construction Survey	The Contractor will retain a third-party inspection company to complete pre-construction surveys of all properties within the project limits. The survey is for your benefit as it protects you if construction activities damage your property. The Contractor is also required to carry liability insurance.
Dust	Water and/or calcium chloride will be used to reduce dust throughout the project limits. Sweeper trucks will also be used to reduce dust and debris in and around the project limits.

What to Expect During Construction

CONSTRUCTION IMPACT	MITIGATION STRATEGY
Temporary Water Servicing and Disruptions	To accommodate construction, water will be supplied to homes by temporary water lines. Notices will be delivered in advance of planned water interruptions with details on the timing and duration.
Restrictions to On-Street Parking During Construction	On-street parking will generally not be available within the project limits to accommodate construction equipment and materials. Parking may be permitted in some areas of the site where there is no active construction. Additional on-street parking will also be available outside the project limits
Garbage/Recycling Collection	When vehicle access through the site is limited, the Contractor shall be responsible to move garbage/recycling to a common location for pick-up by City forces. All containers will be returned to homeowners or businesses.
Impact in the Right-of-Way and Adjacent Private Properties	Reconstruction of the impacted work zone within the City's Right-of-Way may result in some disruption close to private property adjacent to the work. The affected areas will be reinstated as soon as possible after construction is completed at no cost to property owners.

Project Schedule

- **Design Completion** – anticipated by late winter/early spring 2023
- **Construction Start** – anticipated late spring/early summer 2023, pending budget approval
- **Construction Duration** – the Project Team is currently evaluating staging options for the work to determine if the underground construction and surface reinstatement (up to base course asphalt) will be completed over 1 or 2 years. These project details will be presented to the community before construction at a subsequent Public Information Session.
- **Construction Notices** – Once the project has been tendered and the City has retained a Contractor, residents within the project limits will be notified of upcoming work and the contact information of key team members through construction notices that will be delivered to their property.

Thank You

Thank you for visiting the project's information boards. We encourage and welcome your feedback on the upcoming construction.

If you have any questions, please contact:

City Project Manager

Andrew Pulsifer, P. Eng.

Senior Engineer, Infrastructure Projects

City of Ottawa

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