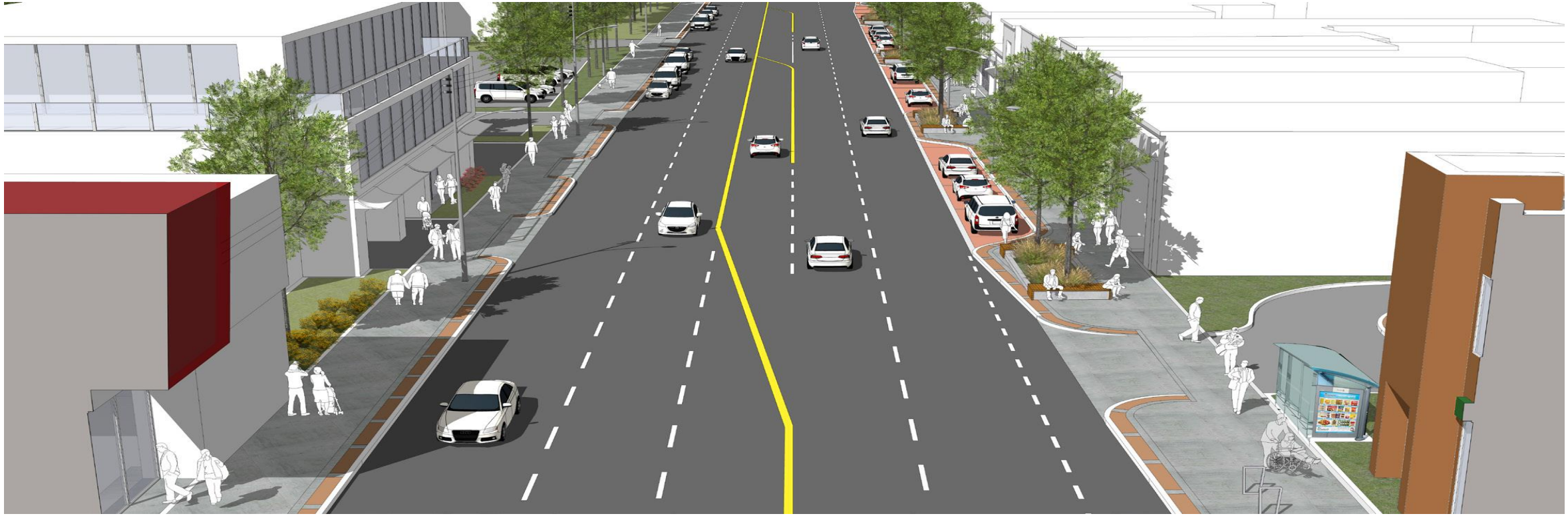


Artist rendering of O'Connor Drive

O'Connor Drive Improvements

Public Information Event

July 7, 2021

TORONTO

Land Acknowledgement

To commence this meeting we would like to first take a moment to acknowledge the land on which we are meeting. This land is the traditional territory of many nations including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee and the Wendat peoples and is now home to many diverse Indigenous, Inuit and Métis peoples. We also acknowledge that Toronto is covered by Treaty 13 with the Mississaugas of the Credit.

This meeting is being recorded

TORONTO

Agenda

6:30 p.m.	Welcome & Introductions
6:40 p.m.	Presentation
7:10 p.m.	Next Steps and Questions
7:55 p.m.	Adjourn

Opening Remarks

Councillor Brad Bradford

Ward 19, Beaches-East York

City of Toronto

Project Team

Steven Ziegler - Public Consultation Unit

Bill Tsomokos - Vision Zero Projects Unit

Maaja Eichfuss-Clarke - Urban Design

Jen-Sion Tan - Green Streets

Mijin Lee - Engineering & Construction Services

Daniel Boyce - AECOM

Code of Conduct

- **Be patient:** Virtual meetings don't always run as smoothly as planned.
- **Be brief:** Limit yourself to one question or comment when you are called on to speak.
- **Be respectful:** The City of Toronto is an inclusive public organization. Discriminatory, prejudicial or hateful comments and questions will not be tolerated and you will be removed from the meeting.

We want to hear from you – all questions are good questions!

Please wait until the end of the presentation to ask your questions.

If we do not address your question, staff will follow up with you after the meeting.

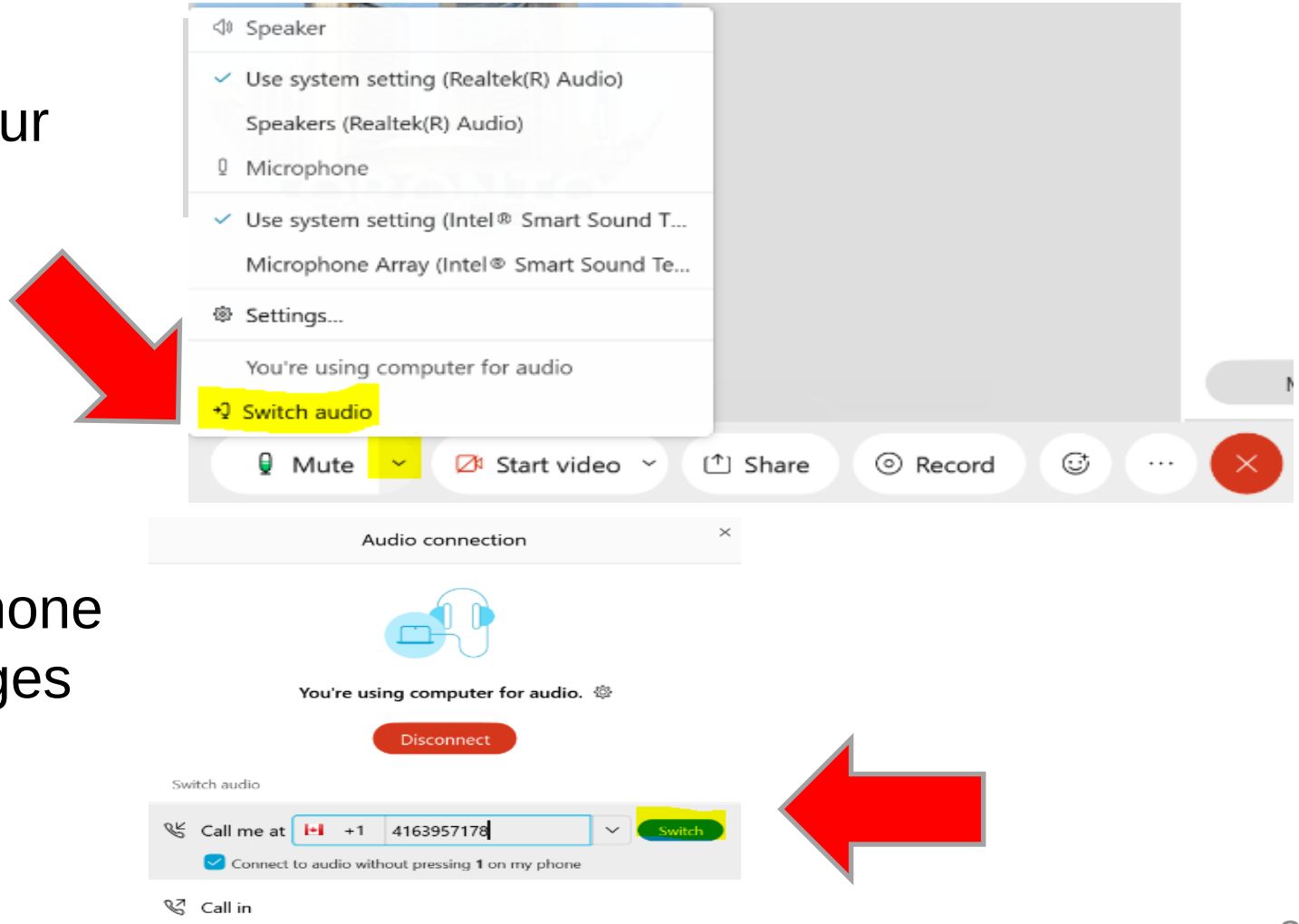
Webex Audio Trouble?

Webex can call you!

1. Click **the arrow** beside your mute button

2. Click “**Switch audio**”

3. Use **“Call me” function**
   - Enter your phone #
   - Webex will call your phone
   - No long distance charges



Audio still not working?

Call Into the Meeting

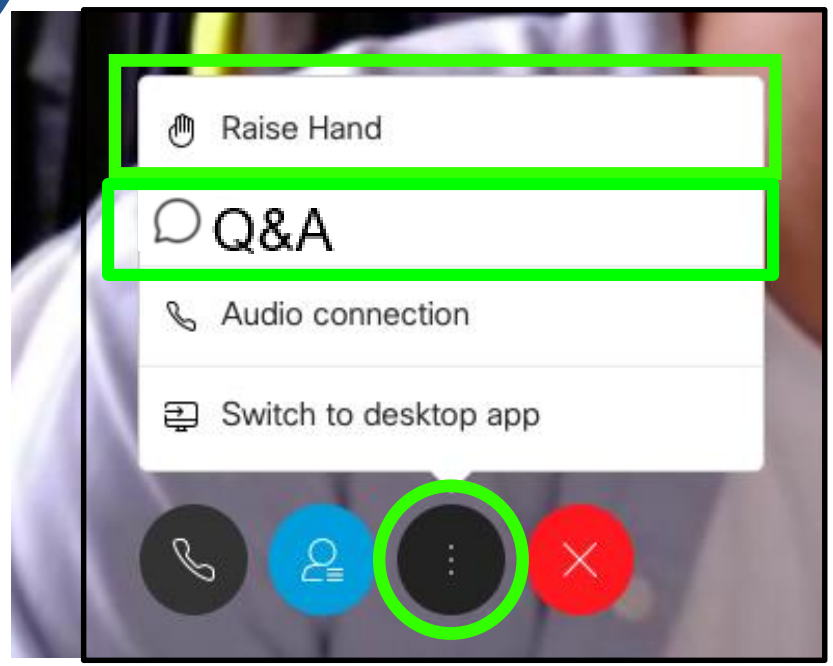
Dial: **416-915-6530**
When prompted for a meeting number enter: **177 356 8230**

Participating by Computer

Raise your hand or type your question

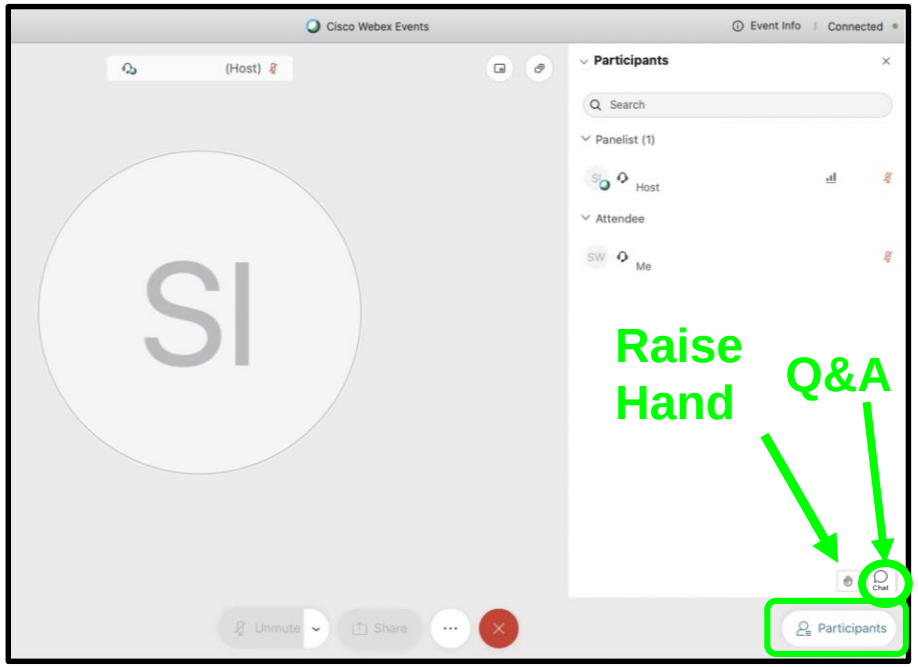
Via the internet browser

Click the "…" button at the bottom of the video window and select "Raise Hand" or "Q&A".



Via the Webex App

Click the Participants button at the bottom of the video (the Participants panel will open to the right). Then click the "Raise Hand" or "Q&A" button at the bottom right.

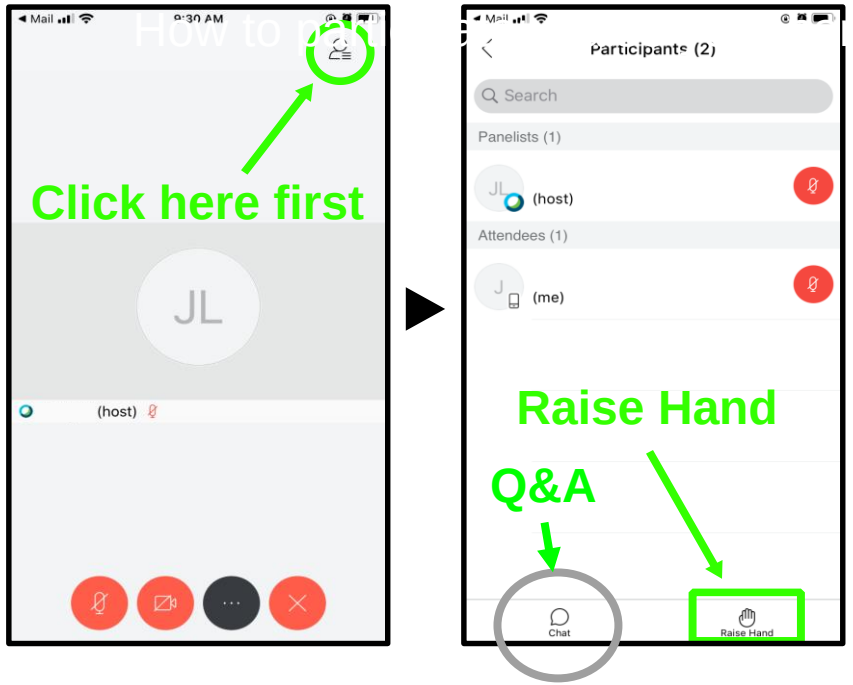


Participating by Smartphone or Tablet

Raise your hand or type your question

For smartphones

Click the Participants panel button at the top right corner of the screen. Then click “Raise Hand” or “Q&A” at the bottom right of the screen.



For tablets

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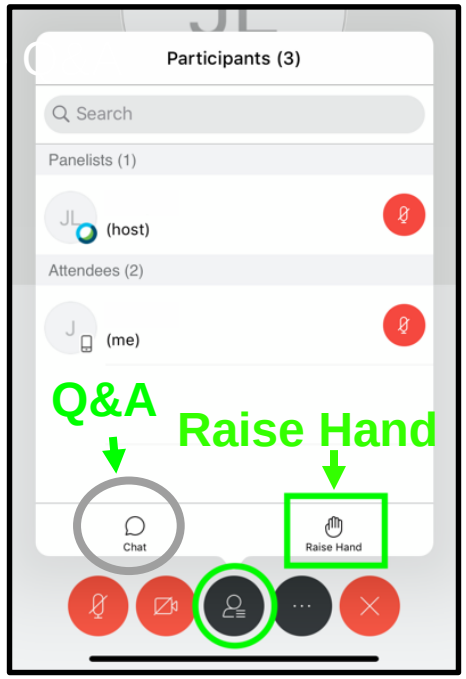

Raising your hand by Phone

- To raise your hand virtually, **key in *3**.
- The Host will see a hand up beside the last four digits of your phone number
- During the Q&A period, the Host will unmute you and let you know that you can speak

O’Connor Drive Background and Policies

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Past studies focused on O'Connor Drive

The City has completed a number of studies which have recommended improvements to O'Connor Drive.

- **Investigations of Basement Flooding (2014)**: recommended a number of underground sewer improvements to help address basement flooding within the neighbourhood.
- **O'Connor Drive Avenue Study (2012):** undertaken to guide public realm improvements and assess future development proposals. The vision for O'Connor Drive is a vibrant urban corridor that provides more opportunities for people to live, work, and shop.
- **O'Connor Drive Streetscape Master Plan (2017):** recommended various design solutions to improve the streetscape along O'Connor Drive.

Recommended improvements to be coordinated and carried out together where possible

Making Improvements to O'Connor Drive

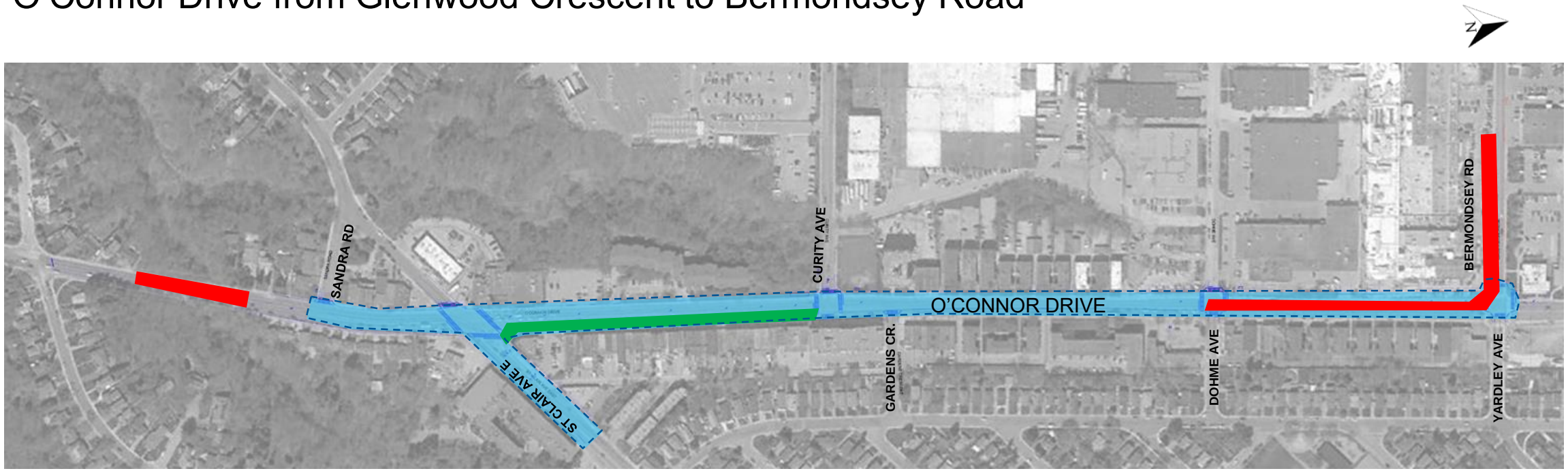
Starting in 2022, the City will move forward with the a series of improvements recommended for O'Connor Drive.

They include:

- Upgrading sections of sewer to protect against basement flooding
- Reconstructing the road, including new curbs and sidewalks
- New public plaza at the intersection of O'Connor Drive & St. Clair Ave East
- Redesign of the streetscape by adding new features such as street trees, interlocking pavers along sidewalk, bump-outs
- Road safety improvements
- New green infrastructure to help with stormwater management

Project Area Map

O’Connor Drive from Glenwood Crescent to Bermondsey Road



Road Reconstruction

Sewer Work/Upgrades

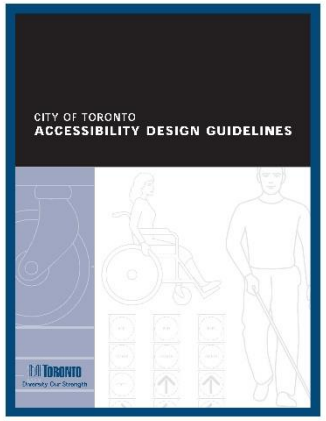
Bump-out and Layby

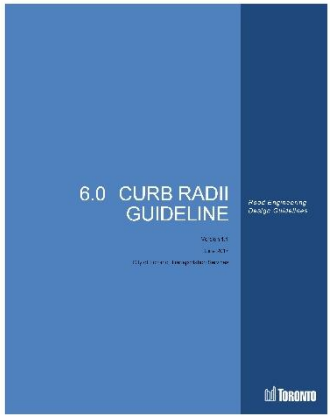
Guiding City Policies

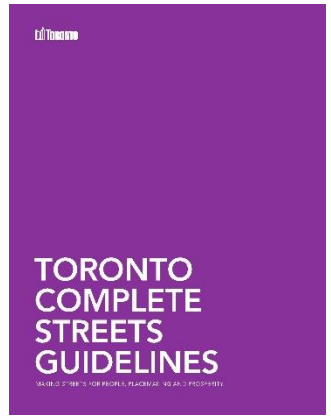
The City has a number of policies and standards in place to improve the design of streets for all road users.

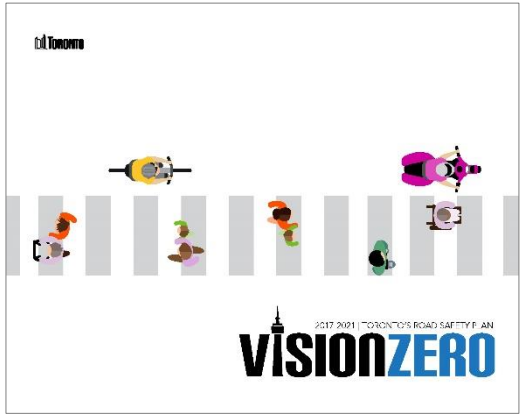
They focus on:

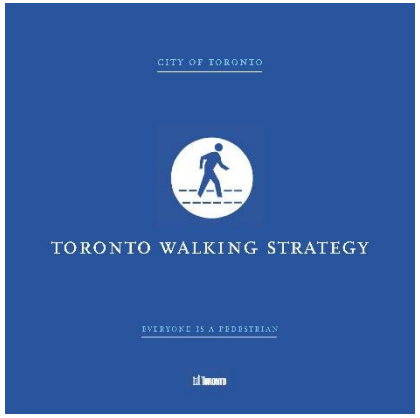
- Safety for all road users, particularly the most vulnerable
- Mobility for all ages
- Accessibility for everyone











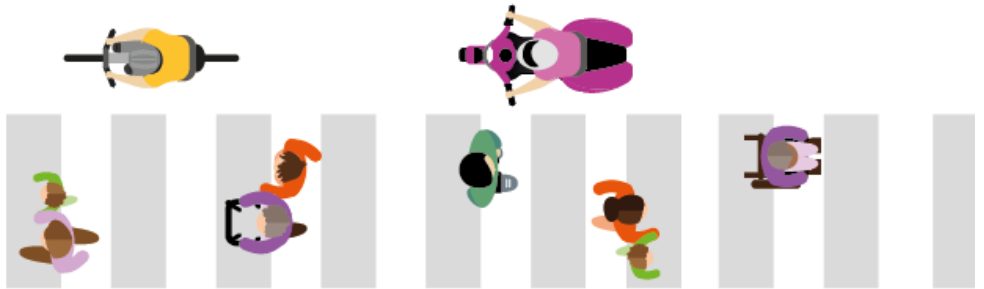
Road Safety Through Design

The City's **Vision Zero Road Safety Plan** is focused on reducing traffic-related fatalities and serious injury.

The O'Connor Drive reconstruction includes a number of road design improvements that are consistent with Vision Zero objectives:

- **Corner Radius Reductions** – Sidewalk corners at intersections will be extended to create as close to a 90 degree angle as possible.
- **Right Turn Channel Removal** – The right turn channel at St. Clair Avenue and O'Connor Drive will be removed.
- **Lane Width Reduction** – Reducing vehicle lane widths encourages drivers to travel at the speed limit, providing drivers with more reaction time and reducing impact in the event of a collision.
- **Pavement Marking Improvements** – Stop bars and crosswalks will be re-installed for greater visibility.

TORONTO'S ROAD SAFETY PLAN
VISION ZERO



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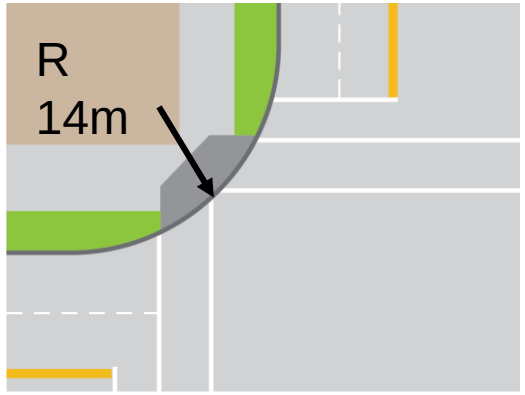
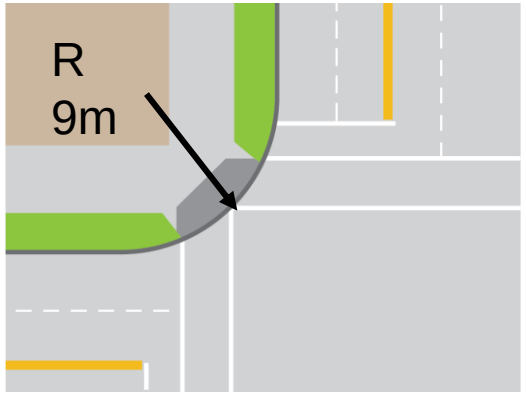
Corner Radius Reductions

- ‘Corner radius’ refers to the angle of an intersection corner.
- Traditionally, curb radii have been designed for the largest possible vehicles to be able to make a turn.
- As a result, smaller vehicles are able to turn at higher speeds, which can be unsafe for people walking and cycling.

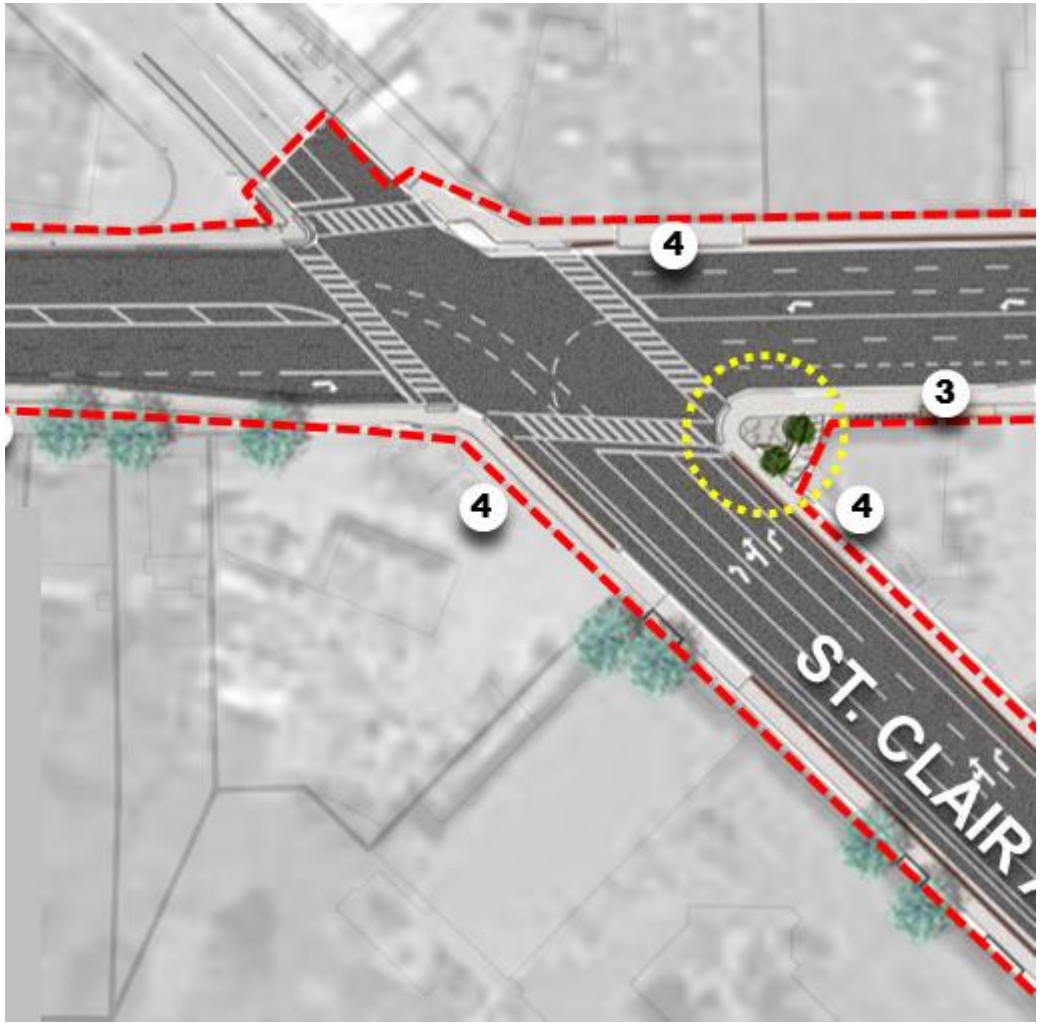
- Tighter (smaller) corner radii increase safety by:
  - Reducing pedestrian crossing distances
  - Improving the visibility of people walking and cycling
  - Encouraging drivers to make turns more slowly, which reduces the likelihood of a collision and the impact, should a collision occur.





Right-turn Channel Removals

- Dedicated right turn channels create poor sightlines and present significant barriers to persons with disabilities
- The City of Toronto's policy is to remove right turn channels where possible and not to build new ones



O’Connor Drive Public Realm Improvements

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O’Connor Drive – Existing Conditions

- Outdated streetscape
- Few street tress on East side of roadway
- Lack of benches and gathering spaces

Existing conditions of O’Connor Drive

Green Infrastructure: Bump-out and Lay-by Design

- **Bioretention Bump-outs:** Planters with integrated seating, high branching trees, low shrubs, groundcover and perennial planting. Also on the boulevard will be bike racks, and new sidewalks with decorative paver bands.
- **Permeable Parking Lay-by:** Parking lay-by with permeable pavers to further collect water.
- **Stormwater Trees with Soil Cell:** Soil cell system that distributes water collected within the system. This site pilots two soil cell products.

Top-down view of Bioretention Bump-out and Permeable Lay-bys

Artist rendering of new planters

Soil Cells for Street Trees

What is a Soil Cell?

A soil cell unit is a plastic support structure with void spaces within for soils.

- Provides the structural support required for pavement, street furniture and vehicles while providing the uncompact soil volume required for tree health
- Inlets and pipes are incorporated to divert runoff away from sewers, reducing peak flow downstream while providing water for vegetation

Soil cells have been used successfully across the City's right-of-way and will be used with increasing regularity and scale.

Why are there two types of Soil Cell in this site?

As soil cell industry has developed, there are several soil cell suppliers available to the City. This site will pilot the implementation of permeable pavements on top of two soil cell products to evaluate constructability and practicality of this design in a local context.

Function & Benefits of Green Infrastructure

Captures runoff from sidewalk and roadway to irrigate vegetation.

- Improved plant health & reduced urban heat
- Reduce peak runoff volumes of local sewer system – reducing erosion and flood risk downstream
- Infiltrate and replenish groundwater
- Built-in overflow system discharge excess water to sewer system to eliminate ponding in planters at large storm events

Cross Section of O'Connor, facing W boulevard from roadway

Green Infrastructure – Cross Section

Components of O'Connor Green Infrastructure:

1. **Permeable unit paving at lay-bys**- allows stormwater to permeate through surface, flowing towards planters.
2. **Soil cells type 1** - filled with planting soil to provide required uncompacted soil volume for optimum tree growth and support pavement above.
3. **Planter** – Tree for urban canopy, shrubs and ground covers
4. **Soil cells type 2** –filled with planting soil to provide required uncompacted soil volume for optimum tree growth and support pavement above.
5. **Rain Guardian bunker*** – to capture sediment and debris from sidewalk runoff to ease green infrastructure maintenance.
6. **Water distribution pipe** – perforated pipes that distribute water from catch basin throughout the soil cell for infiltration & plant use.
7. **Underdrain/Overflow pipe** – perforated pipes that drain excess water from planter to sewer system to prevent ponding.

STORM WATER DIRECTION
LIMIT OF SOIL CELLS
WATER DISTRIBUTION PIPE
OVERFLOW PIPE

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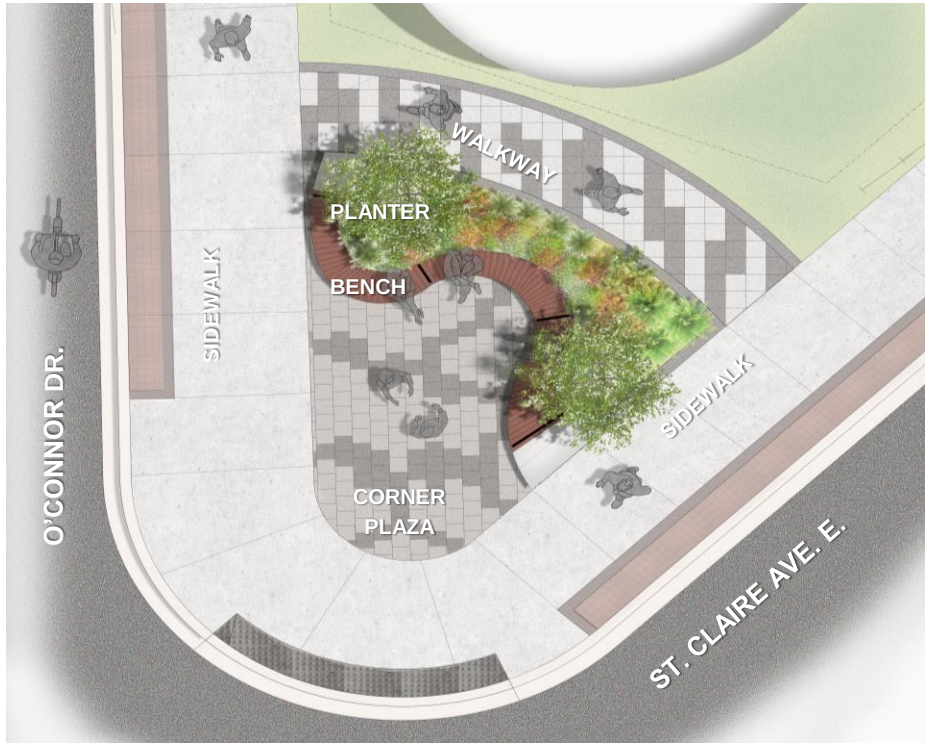
O’Connor Drive – Streetscape Design Concept

O’Connor Drive & St. Clair Ave East Intersection

- Removing the right-turn channel reduces pedestrian crossing distances and creates smaller curb radii, which lowers vehicle turning speed.
- New corner plaza to provide a sense of place, identity and seating.

Existing intersection



Artist rendering of new gateway feature

O’Connor Drive & St. Clair Ave East Intersection cont.

Artist rendering of new gateway feature

TTC and Bike Share

The location of one TTC bus stops will change after construction is completed in order to

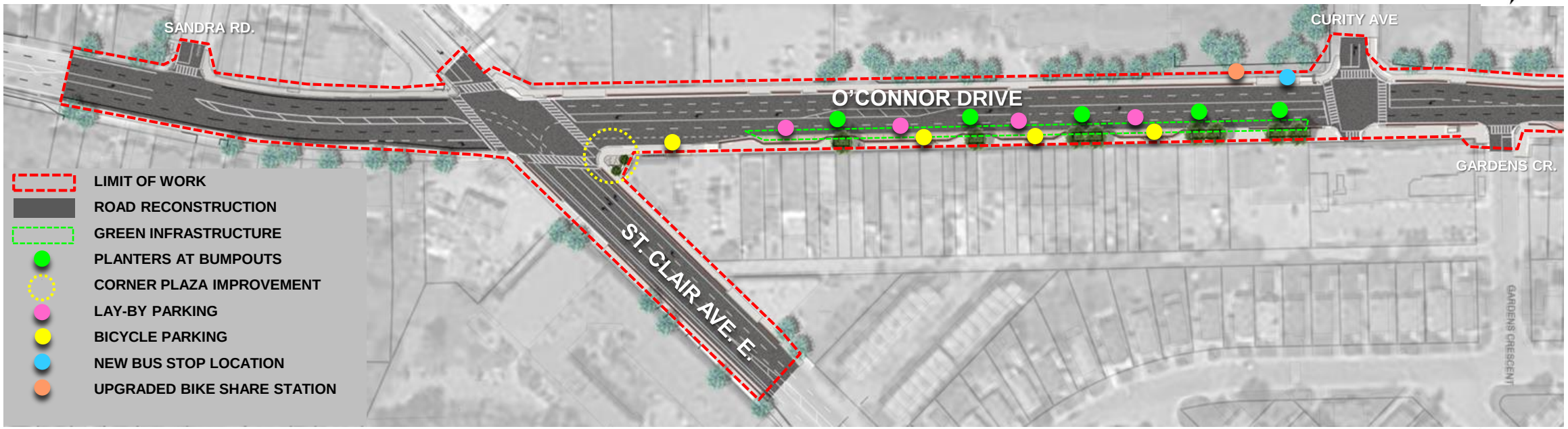
- Provide larger areas for people waiting
- Improve the safety and accessibility of bus stops

The Bike Share station at O'Connor Drive and Curity Ave will be upgraded.

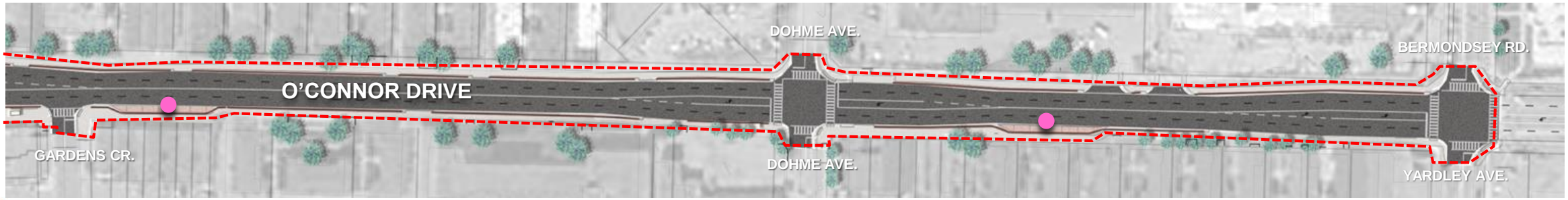
- A concrete pad will be provided for the Bike Share station

Review of Improvements

SANDRA RD. to GARDENS CR.



GARDENS CR. to BERMONDSEY RD.



O’Connor Drive Infrastructure Improvements

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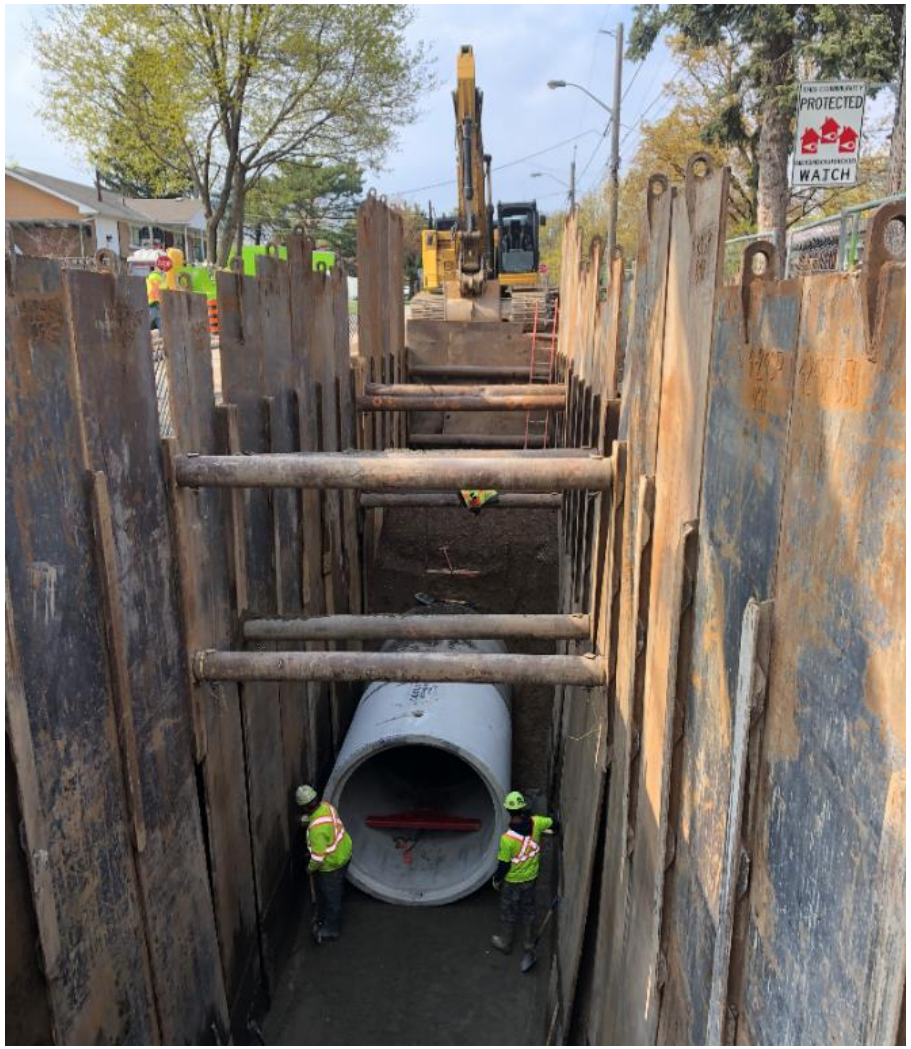
Underground Infrastructure Improvements

- Sections of sewer on O'Connor Drive and Bermondsey Road will be upgraded to minimize the risk of basement flooding.
- Storm sewer construction involves excavating a trench, removing existing pipe, installing a new pipe and restoring the trench.



Example of storm sewer construction

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Road Reconstruction

O’Connor Drive from Sandra Road to Bermondsey Road will be reconstructed. This work will consist of replacing:

- The entire road structure, including the asphalt and underlying support materials
- Road drainage, curbs and boulevards
- Sidewalks within City right-of-way
- The City-owned portion of substandard water service connections

What to Expect During Construction

Pedestrian & Vehicle access

- Access to local streets, businesses and sidewalk to be maintained at all times.

Traffic Restrictions

- Through traffic will be maintained throughout construction, however there will be extended periods of lane restrictions on O'Connor Drive and St. Clair Avenue E, which will be posted on-site.

TTC Service

- TTC routes will continue to operate during construction; bus stops may be temporarily relocated, if required.

Garbage/Recycling

- Garbage pick up will be maintained. Please label your bins/containers with your address.

Support for Small Businesses

- Additional signage and wayfinding can be added to construction fencing to indicate businesses are open during construction.

Disturbances

- As with all construction projects expect noise, dust, vibrations, and other inconveniences. Every effort will be made to reduce the inconvenience.

Work Hours

- Work hours will be Monday - Friday: 7am - 7pm; Saturdays, Sundays and late evening work may be required but minimized as much as possible

Next Steps

- Construction is expected to start in early 2022 with completion in 2023
- The Construction Notice will be mailed out 2 weeks prior to construction starting
- The Notice will provide residents with more detail about the scope of work, work hours, road and sidewalk access, traffic management, parking, garbage and recycling

Sewer replacement

Green infrastructure
Road reconstruction

**Landscaping and restoration work

*Construction schedule subject to change
**Based on weather conditions

Questions & Answer Period

How to Participate

- **By Phone** - To raise or lower your hand virtually, **key in *3**.
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Questions?

If you have any questions please contact:

Steven Ziegler

Senior Coordinator, Public Consultation Unit

Telephone - 416-392-2896

Email – roadconstruction@toronto.ca

toronto.ca/OConnor