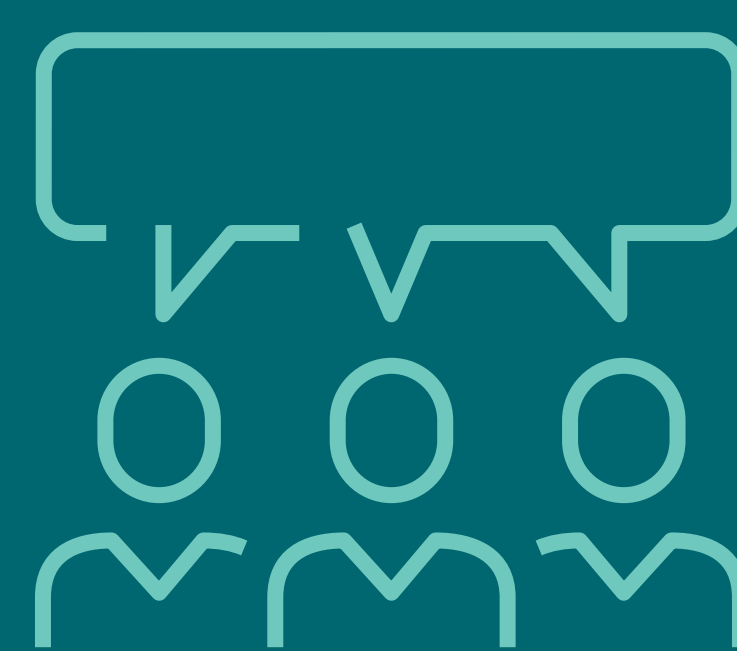
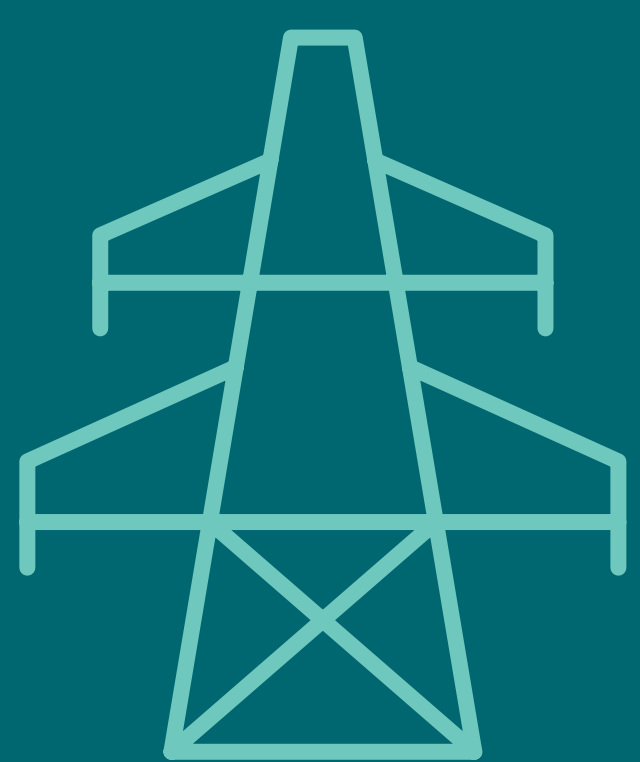


Welcome

West Toronto Transmission Line Relocation

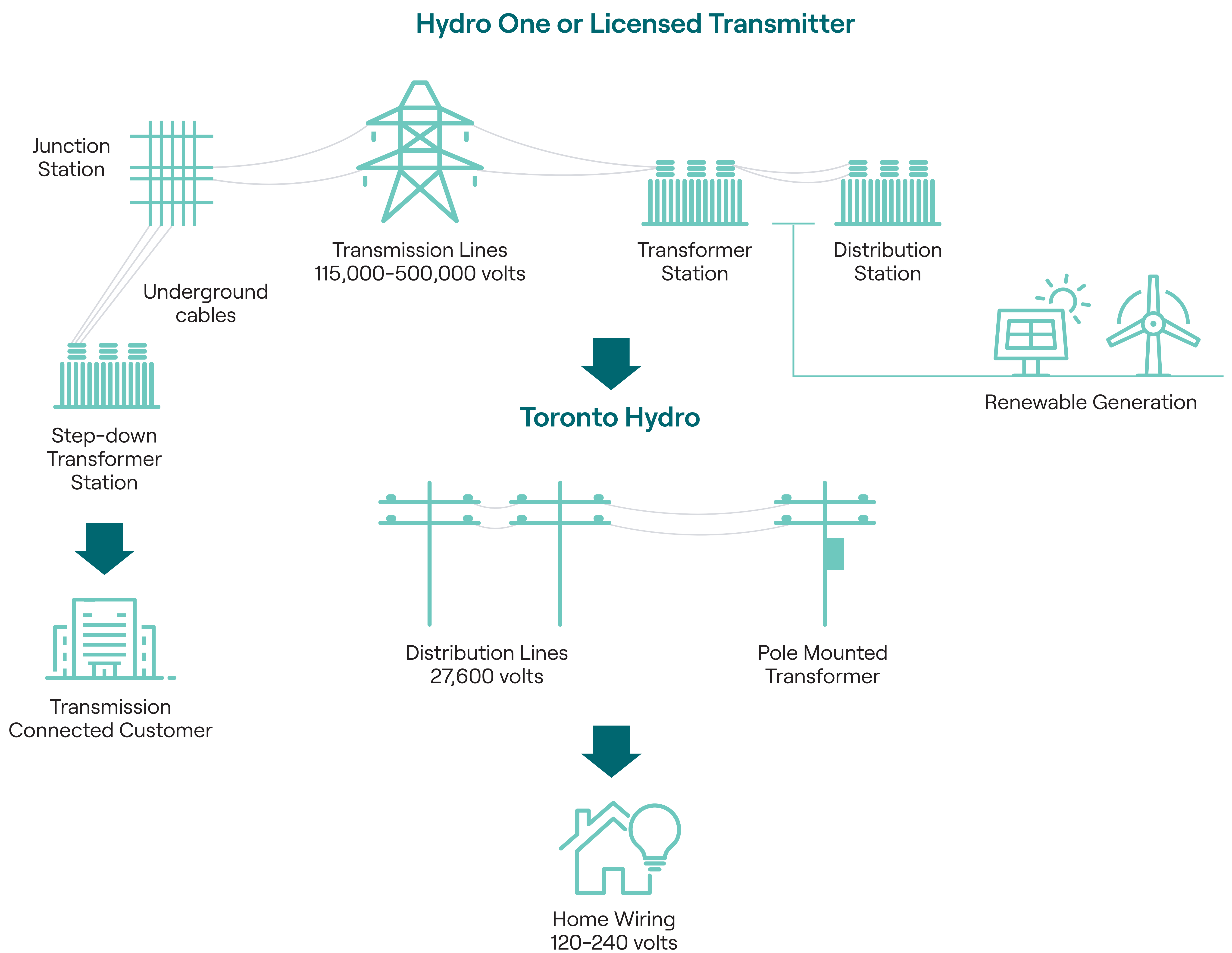
Community Open House #2



Why we're here

- Review project need and overview
- Present preferred route
- Discuss construction method
- Share next steps in the planning and approval process
- Provide information for ongoing community consultation

We keep the lights on



Project overview

Hydro One is committed to energizing life for communities across Ontario, including supporting transit initiatives in the Greater Toronto Area

Metrolinx and Hydro One have identified areas where the proposed GO Expansion infrastructure will conflict with existing power lines

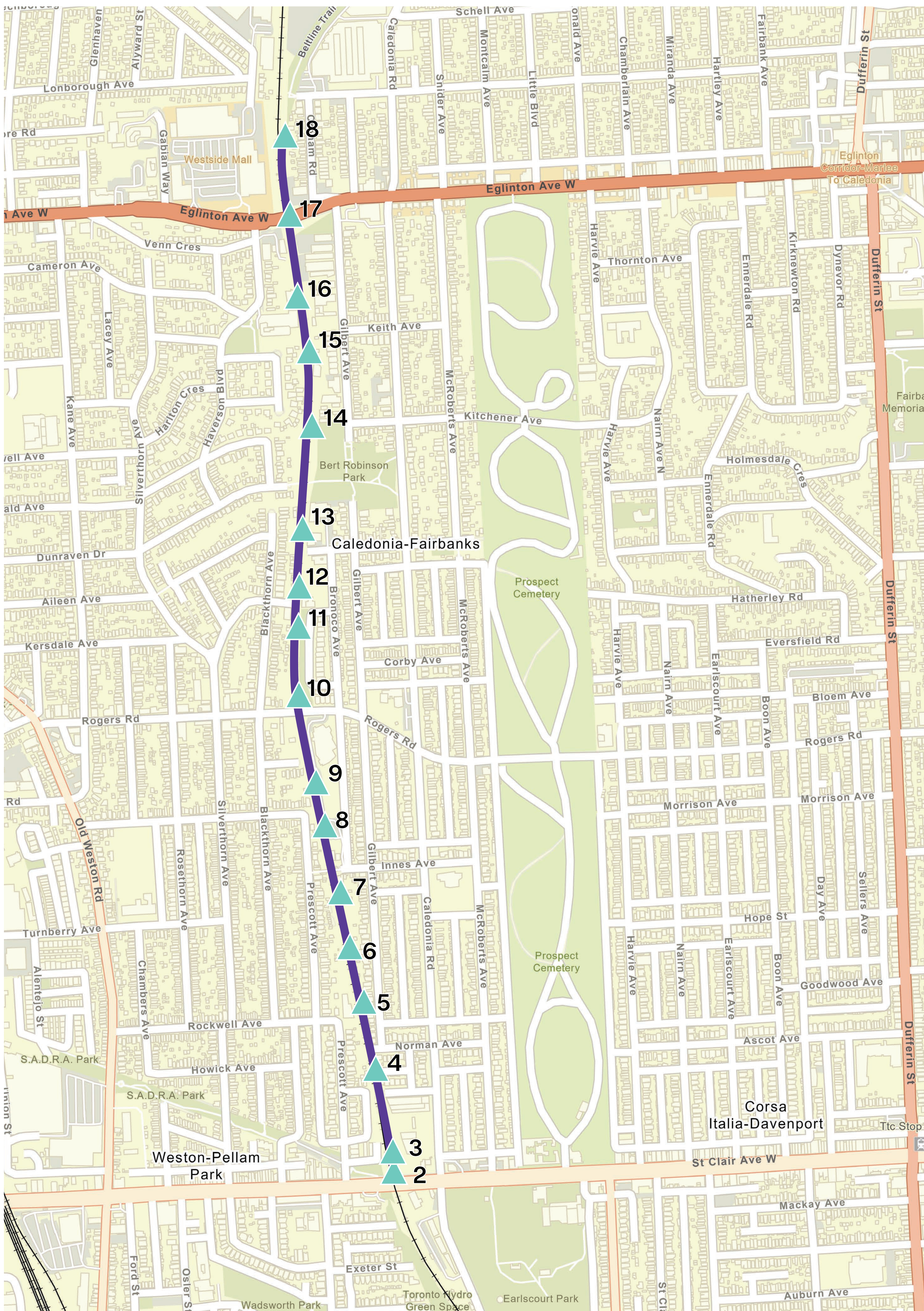
This includes a portion of an existing line currently located within the Barrie Rail Corridor, from St. Clair Ave. West to north of Eglinton Ave. West

These transmission lines provide a critical supply of electricity in the City of Toronto and must be relocated

To enable Metrolinx's critical infrastructure, Hydro One initiated the West Toronto Transmission Line Relocation project in July 2022



Project area



 - required relocation of overhead transmission line

Overview of project to date

Initial route alternatives at start of route evaluation

Hydro One shared three route alternatives in July 2022 with local community members and stakeholders

3
routes

Gilbert Ave Route
Caledonia Rd Route
Dufferin St Route

1
construction
method

Open cut
construction

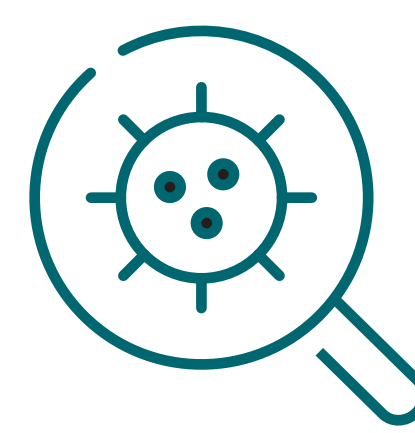
Data collection and stakeholder engagement



Meeting with local
Councillors, Resident
Associations
and community
members



Distributing more
than 30,000
project notices



Reviewing existing
underground
infrastructure and
environmental
features



Hosting
workshops
with the City of
Toronto



Discussions with
property owners

What we heard – concerns and considerations

Roadway
construction
concerns

Impacts to
parks and
open space

Impacts to
traffic, transit
and bicycle
lanes

Existing utility
relocation
requirements

Impacts to
parking and
driveway
access

Existing and
planned
projects

Preferred construction method

Based on information gathered during the initial route alternative investigations, we began exploring an alternate construction method: **deep tunnel installation**

Benefits of underground tunneling

- A deep underground tunnel significantly reduces requirements for relocation of existing utilities
- A deep underground tunnel minimizes impacts to the community as well as to parks and green space as construction is far below surface level
- Above-ground activity is concentrated at the entrance and exit shaft sites
- A shaft will be required at each end of the route and following completion of construction, the only visible infrastructure at the end of construction will be small junction stations at each end point, where the overhead wires transition to underground cables




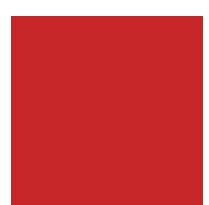
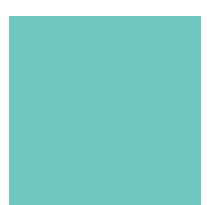
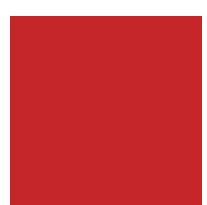
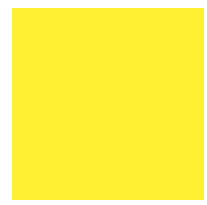
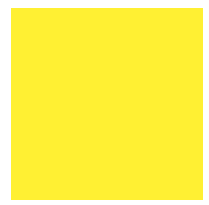




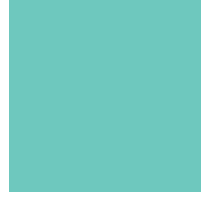

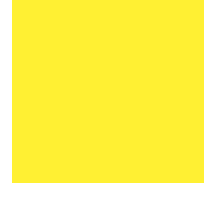
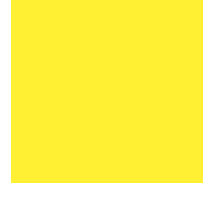
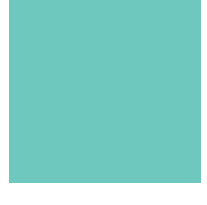
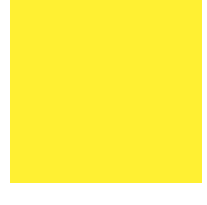

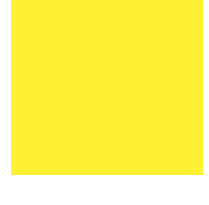
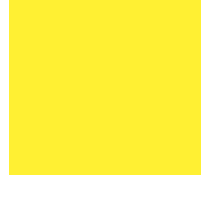

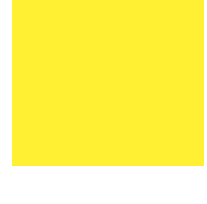


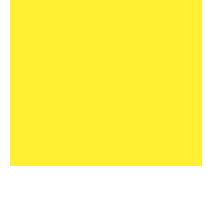
Evaluation criteria

Data collected and feedback received on these factors helped determine a preferred route and construction method



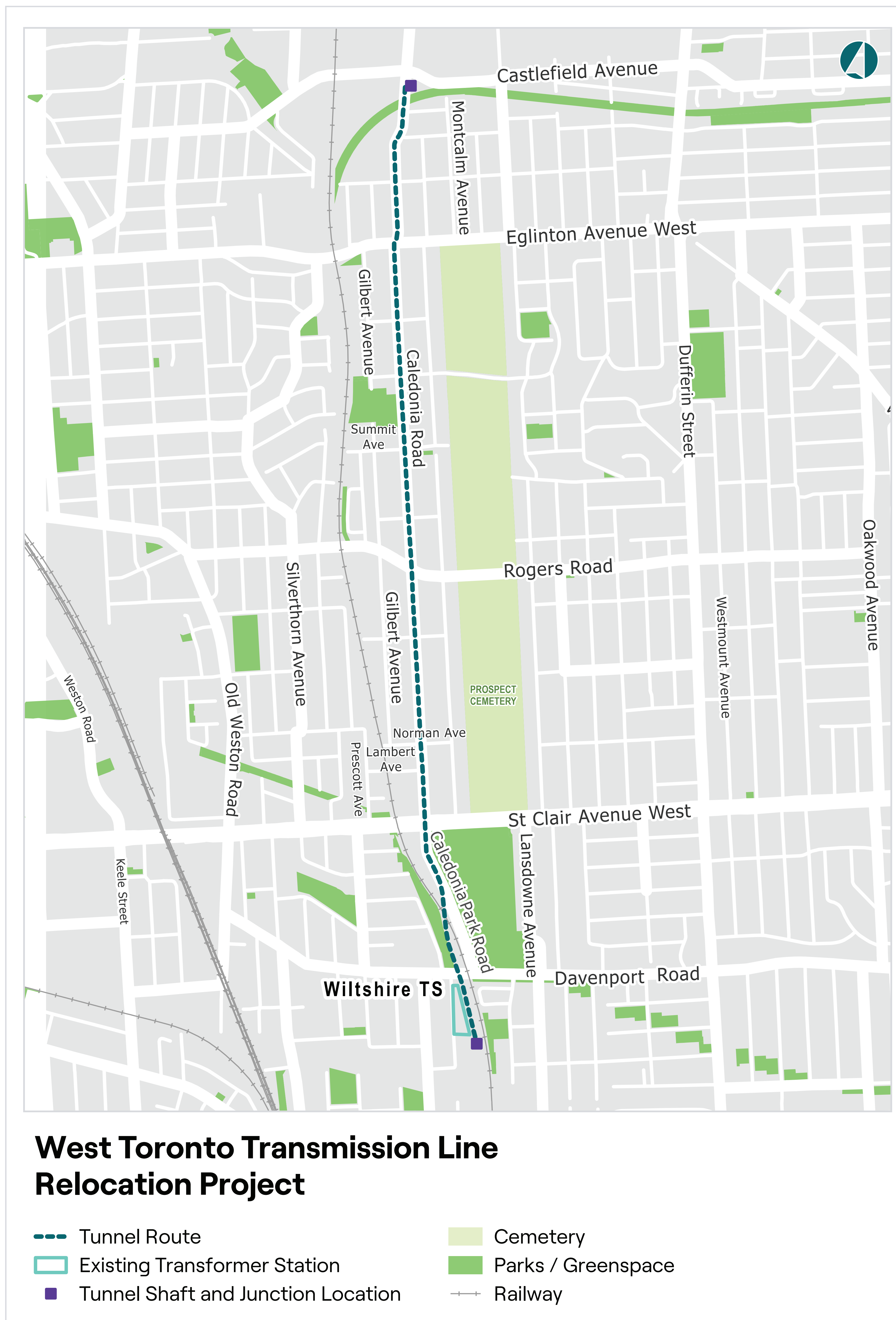
Route evaluation

Relocating the overhead transmission lines to a deep underground tunnel has been selected as the preferred technical solution

Evaluation Crtieria	Open Cut Gilbert Ave Route	Open Cut Dufferin St Route	Tunnel Caledonia Rd Route	Tunnel Dufferin St Route
Design and construction				
Health & Safety, Operation and Maintenance				
Socio economic environment				
Natural & Built Environment				
Cost				
Schedule				

Preferred route:

Tunnel, Caledonia Rd



Underground tunnel construction

- Construction at surface level will only be visible at end points of the tunnel
- Construction would involve using a tunnel boring machine to create a deep tunnel below ground that is:
 - Predominantly within road allowance
 - Between 10 meters deep at the south end and up to 40 meters deep at the north end (based off of preliminary design)
 - Approximately 3.5 km long
- Tunnel construction will include:
 - Deep concrete lined tunnel(s)
 - Access shafts and junctions at each of the end points
- Vibration monitoring will be in place throughout the duration of project to ensure no surface level impacts
- Details on construction activities will continue to be refined as project planning progresses



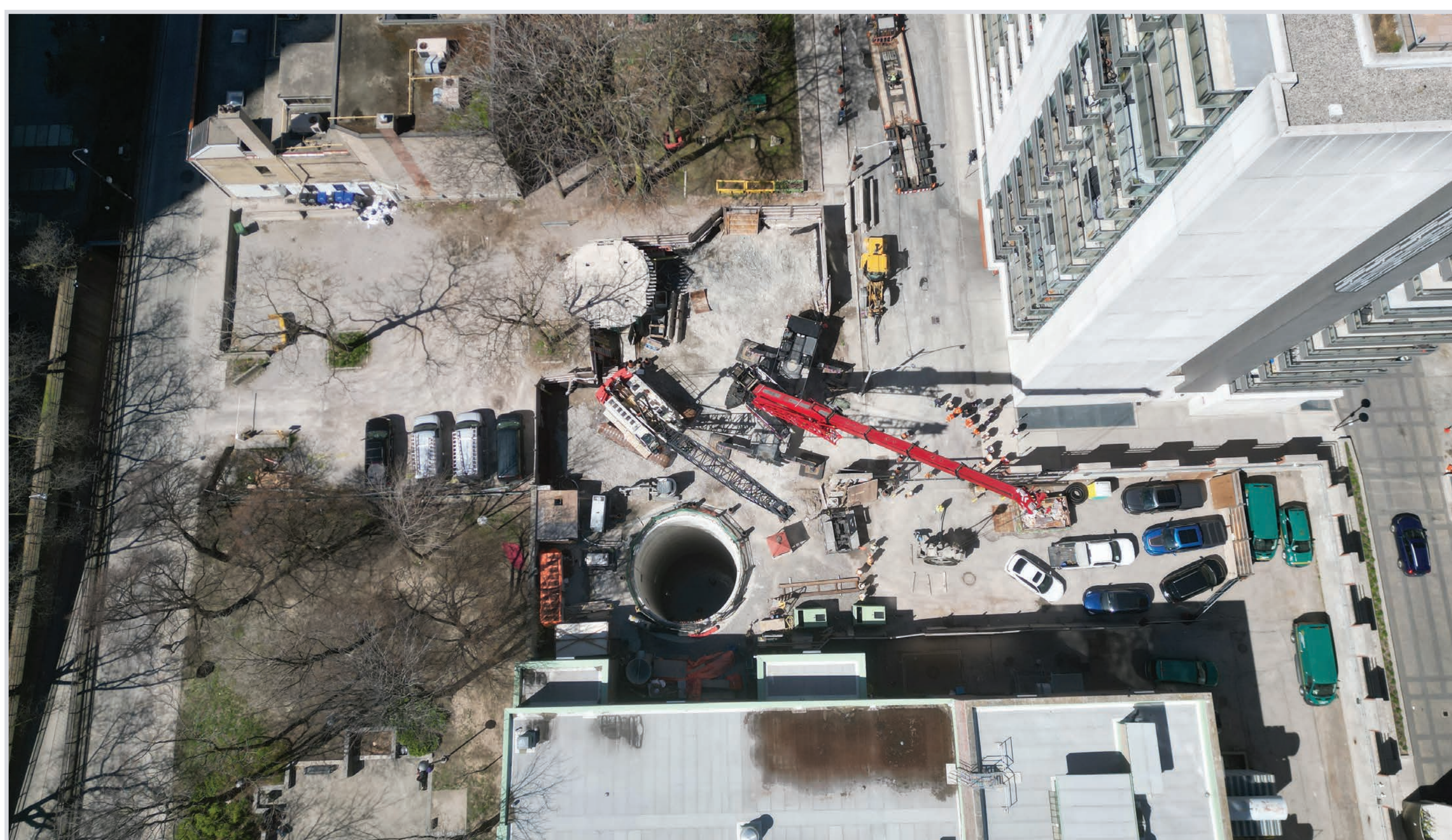
Example of a tunnel shaft during construction

Junction and shaft infrastructure

- During construction, activity will be visible at the north and south end points, which serve as tunnel shaft sites
- A key factor in the selection of the junction sites is available space in immediate proximity to existing overhead transmission infrastructure.



Junctions are required to transition the overhead lines to underground cables



Shafts serve as entrance and exit points during construction and provide permanent access once work is completed

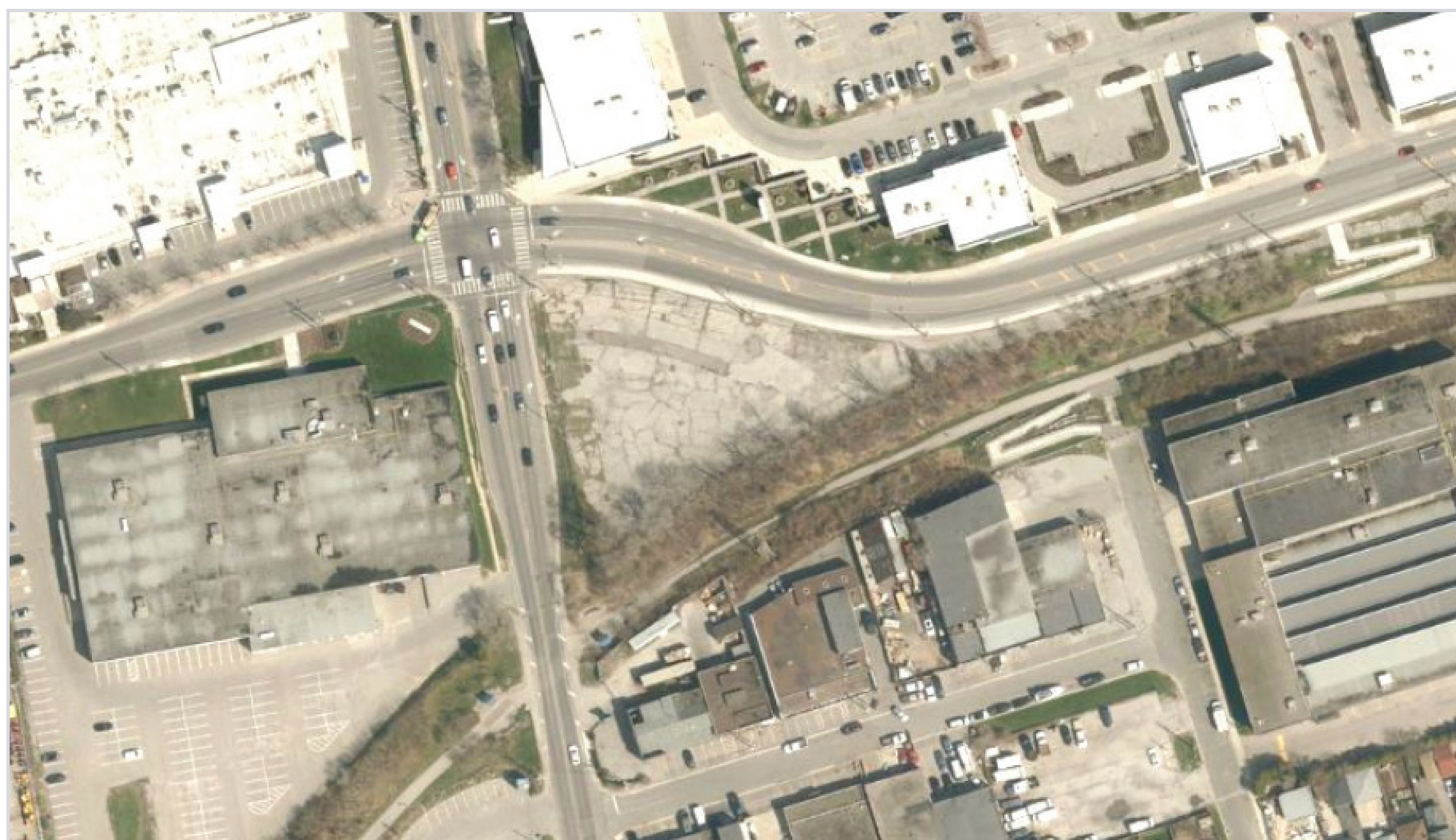
Proposed entrance shaft

- Located within the vicinity of Hydro One's Wiltshire Transformer station
- This shaft would be the entry point for the tunnel boring machine
- Would remain open for the duration of construction to allow for the removal of excavated materials and installation of the new cables
- Following project completion, the shaft will remain as an enclosed structure to provide access for maintenance. The only visible infrastructure will be the junction station

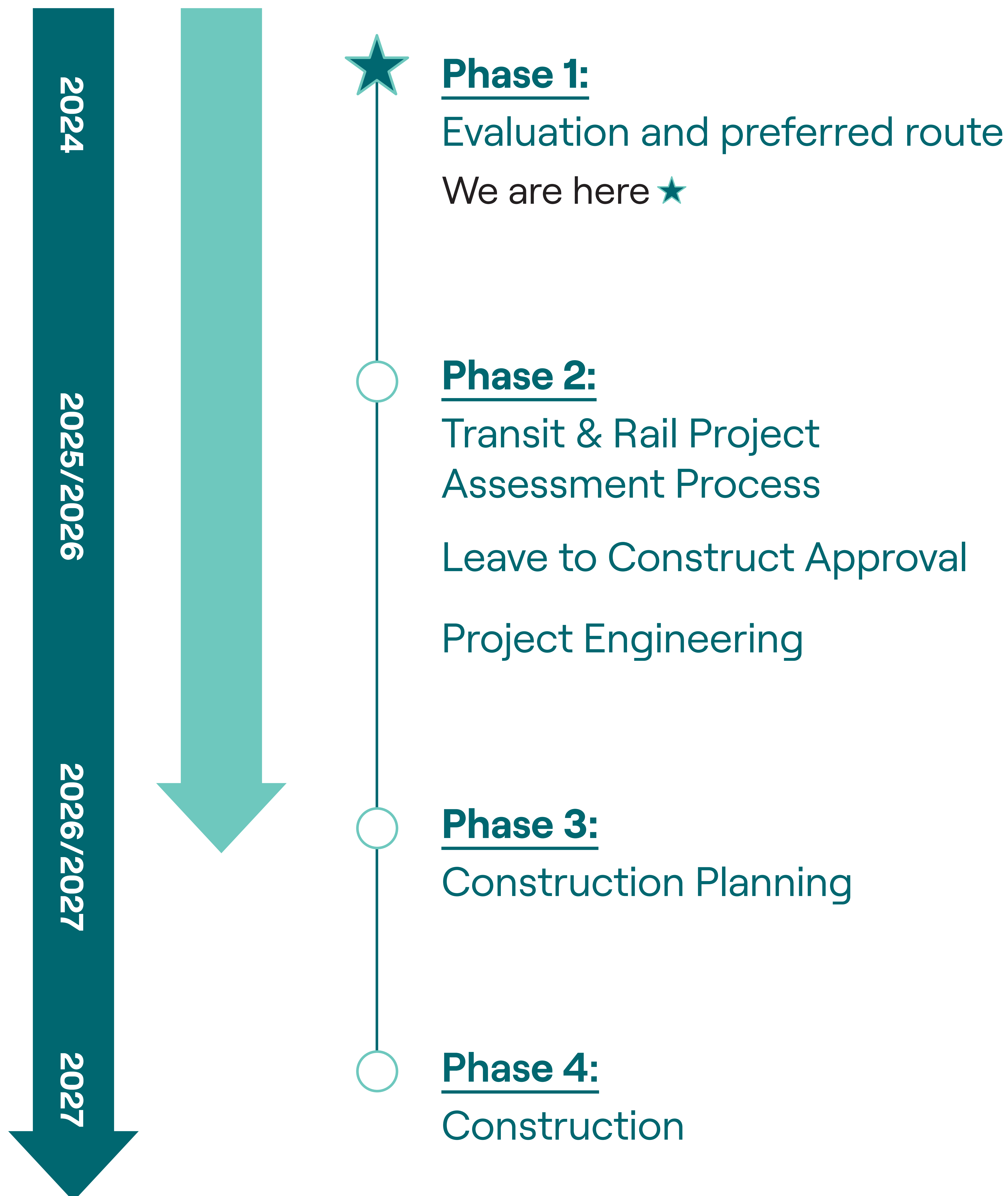


Proposed exit shaft

- Located at Caledonia Rd and Castlefield Ave
- This shaft would be the exit point for the tunnel boring machine
- Would remain open for the duration of construction and cable installation
- Following project completion, the shaft will remain as an enclosed structure to provide access for maintenance. The only visible infrastructure will be the junction station
- Limited temporary impacts to York Beltline trail during construction
- The new, relocated lines will connect into the existing overhead structures currently located along the York Beltline Trail
- There will be no additional changes to the existing infrastructure along the York Beltline trail east of the exit shaft site



Project schedule



Target in-service date: **2031**

Working in your community

We are committed to listening and engaging with the community throughout each stage of the project by:

- Providing a number of opportunities to share information about the project
- Understanding the community's perspective, collecting input and considering options to mitigate impacts where possible



A photograph of three people in a meeting. A man with a beard and a maroon sweater stands in the center, looking towards a woman on the right who is holding a document. Another woman is partially visible on the left, looking towards the man. They are in a bright room with large windows in the background.

Thank you for coming!

Share your thoughts



Please fill out a comment form or
send us your comments afterward.

Stay in touch

Join our project contact list



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