

Ontario Line Subway

# EXHIBITION OPEN HOUSE

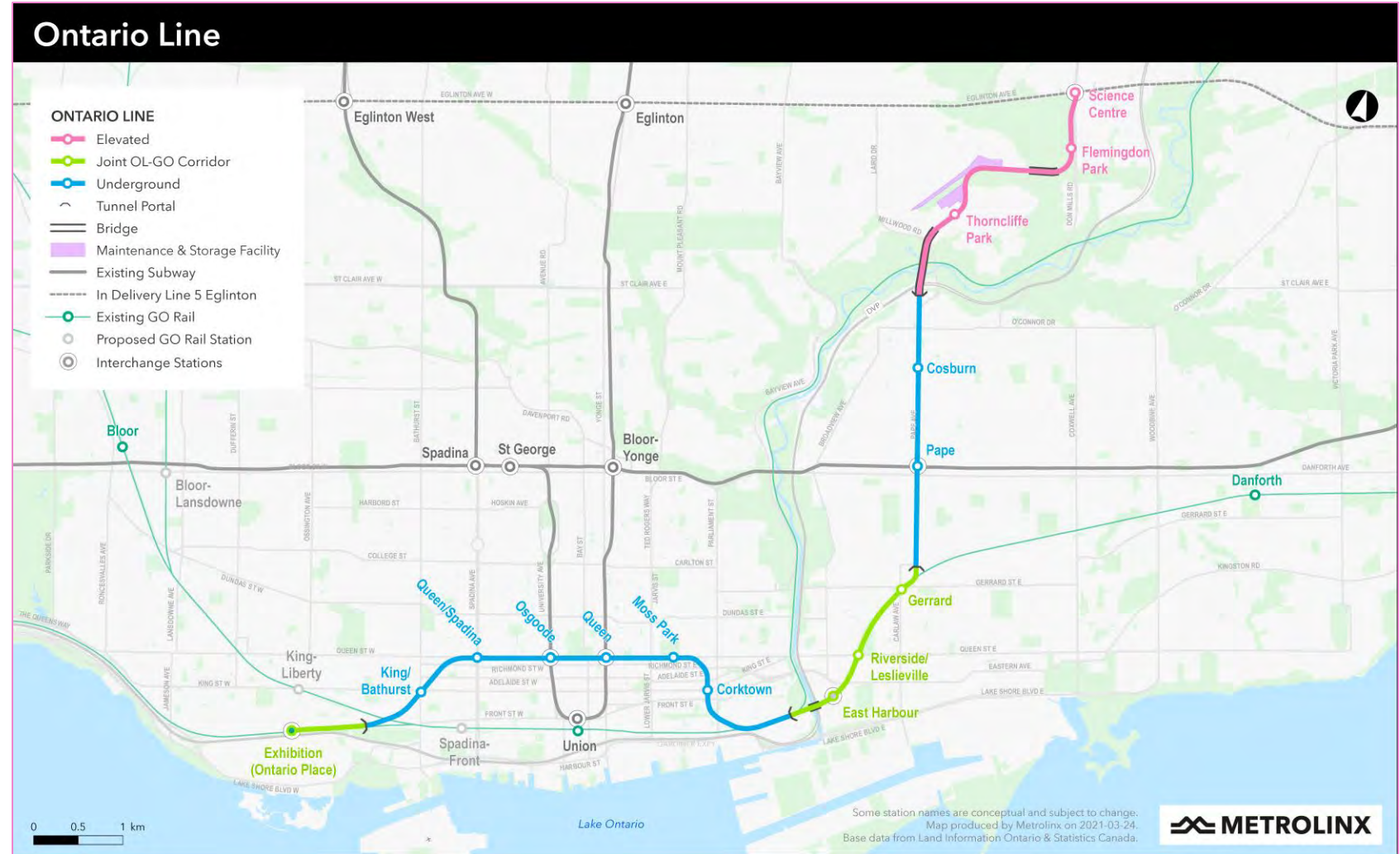
February 3, 2024

 METROLINX



# 1 ONTARIO LINE: NEW RAPID TRANSIT FOR TORONTO

- The Ontario Line will be a **15.6-kilometre subway line** that will make it faster and easier to travel within Toronto and beyond.
- **15 new stations** within the City of Toronto and will run from Exhibition Place, through the heart of downtown, all the way to Eglinton Avenue and Don Mills Road.
- A trip from one end to the other will take less than **30 minutes end-to-end**, compared to the 70 minutes it takes on transit today.
- The line connects to more than 40 other transit options, including the TTC's **Line 1** and **Line 2**, three **GO Transit rail lines**, and the **Eglinton Crosstown LRT (TTC Line 5)**.

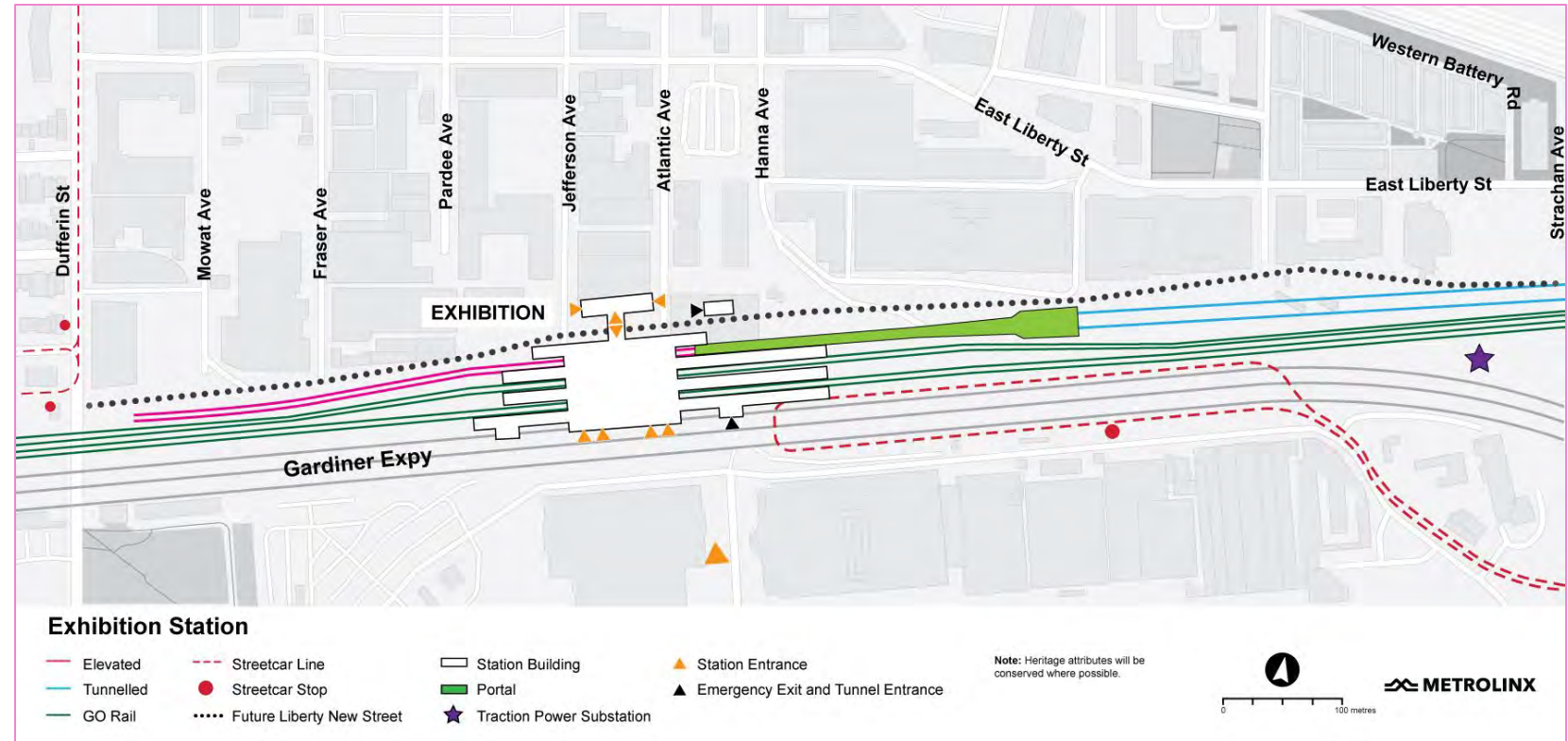




# 2

## AN ACCESSIBLE, UPGRADED TRANSIT HUB SERVING LIBERTY VILLAGE AND EXHIBITION PLACE

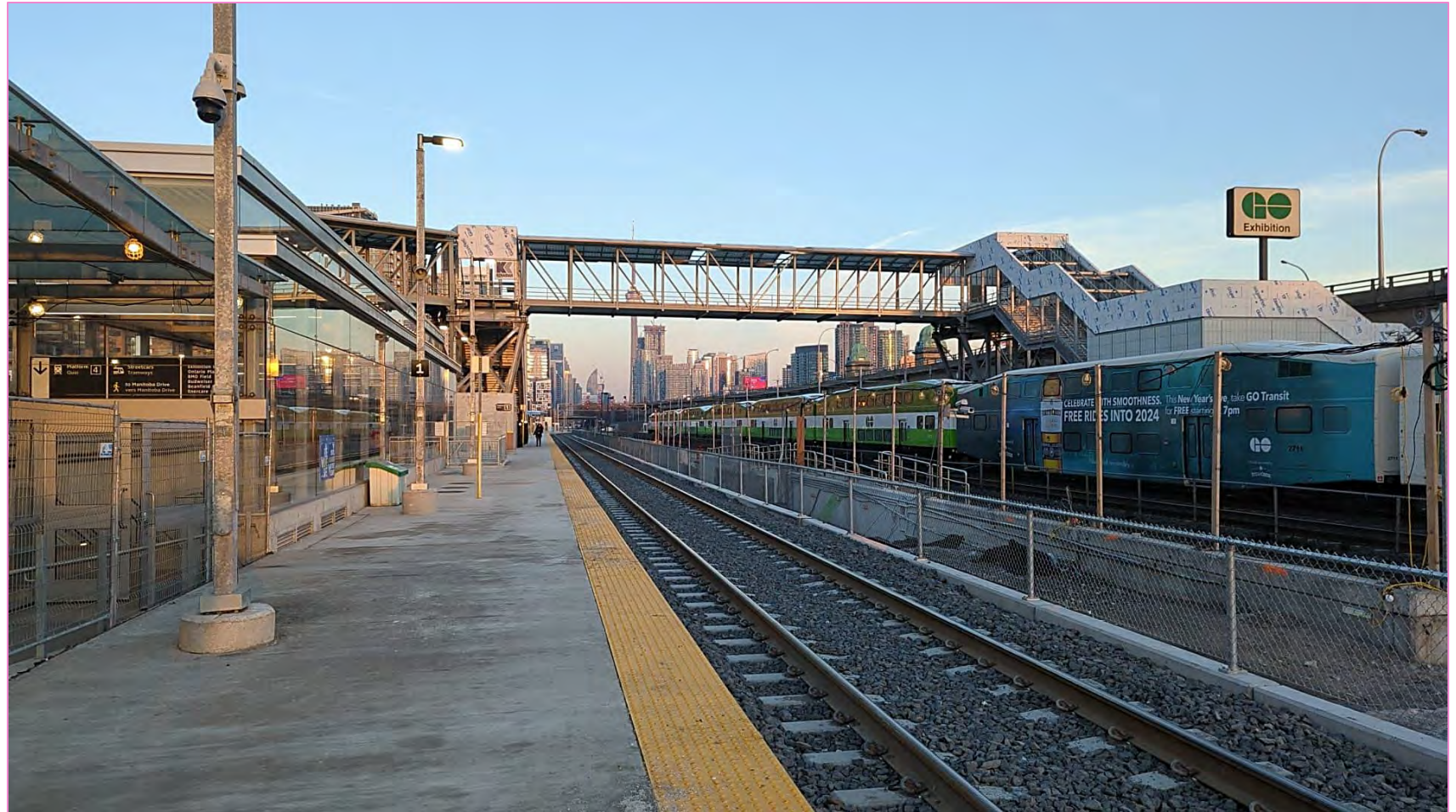
- The **upgraded Exhibition Station** will offer **greater access** to GO trains, the Ontario Line subway and will offer better access to TTC streetcars.
- A subway portal will be constructed on the north side of the existing GO tracks east of Exhibition Station. **More GO train platforms for improved service during big events.**
- A **new entrance** will be built on the north side of the rail corridor, between Atlantic Ave and Jefferson Ave.



# 3

## PROGRESS TO DATE AT EXHIBITION STATION

- **Utilities Relocation** on Manitoba Drive, Atlantic Avenue, Jefferson Avenue, Pirandello Street, Hanna Avenue and more. This work ensures water, power and other services are relocated away from construction.
- A **new GO train platform** is now open, which will border the Ontario Line platform in the future.
- A **temporary pedestrian bridge** has been erected over the rail corridor and will open in 2024, keeping access to the south side and Exhibition Place open for the duration of construction.
- **Demolition** of a series of buildings along the north side of the rail corridor is underway, to provide space for the future station and subway right-of-way.





## 4

## 2024 CONSTRUCTION LOOK-AHEAD

| Timing          | Activity                                      | Location   | Details & Purpose  |
|-----------------|---|--|--|
| Spring          | <b>Excavation</b>                             | North of the rail corridor, between Jefferson Avenue and Dufferin Street.    | Excavation work to prepare grading and drainage in advance of Ontario Line tracks, west of the existing station.   |
|                 | <b>Portal Works</b>                           | North of the rail corridor, between Hanna Avenue and Pirandello Street.      | Work at the portal will start with utilities investigations and work on the soil, such as grading and compaction, for the future tunnel exit of the Ontario Line subway.             |
|                 | <b>Station Site Entry Preparation (North)</b> | North of the rail corridor, between Atlantic Avenue and Jefferson Avenue.    | Early foundational preparedness works for the future north entrance of the new Exhibition Station.   |
| Summer          | <b>Station Site Entry Preparation (South)</b> | South of the rail corridor, beneath the Gardiner Expressway.                 | Work on the lands for the future south entrance of the new Exhibition Station.   |
|                 | <b>Portal Piling Works</b>                    | North of the rail corridor, between Hanna Avenue and Pirandello Street.      | Piling work for the portal ensures structural support for the walls and tunnels are in place in advance of starting the tunnel boring.   |
|                 | <b>Demolition of Retaining Wall</b>           | South of the rail corridor, north of the streetcar loop, under the Gardiner. | A new wall will be built between the street and the tracks, which includes demolishing the existing retaining wall.  |
| Summer/<br>Fall | <b>Retaining Wall Construction</b>            | North of the rail corridor, between Jefferson Avenue and Dufferin Street.    | This work ensures the rail corridor is securely protected and separated from the tracks by creating a retaining wall, replacing the current dirt hill, directly north of the tracks. |

## 5

## CONSTRUCTION IMPACTS IN YOUR NEIGHBOURHOOD

| Commonly Asked Questions  | Details & Purpose   |
|---|---|
| <b>Will construction work take place at night or on weekends?</b>                                 | <p>Yes. Ontario Line at Exhibition is a large-scale job requiring crews to work at all times, ensuring the work is done as quickly and as efficiently as possible. We will notify the community about each construction phase.</p> <ul style="list-style-type: none"> <li>• For the Ontario Line portal preparation, work is planned 24/7. This work involves utilities investigations, grading and compaction work, for the future tunnel exit of the subway.</li> <li>• Nightshifts will also occur for Exhibition Station building construction, due to GO rail operating during the day, otherwise normal daytime hours.</li> <li>• Once tunnel boring commences, it will take place 24/7.</li> </ul> |
| <b>Which equipment and vehicles can residents expect to see and here as part of construction?</b> | <p>Trucks, excavators, compactors, hydrovac trucks, boring machines, piling rigs, cranes, mobile cranes will all be present on site for different phases of construction.</p> <ul style="list-style-type: none"> <li>• We will notify the community, via construction notice and website updates, as work progresses, and new equipment is needed.</li> </ul>   |
| <b>What residents can expect to hear as part of the portal construction?</b>                      | <p>Portal construction leverages piling/boring machines, to create a secure tunnel opening for Ontario Line trains to travel underground. Noise and vibration will occur as compaction, retention wall construction &amp; piling occurs. Noise monitoring machines will be active on site.</p>  |
| <b>Will Liberty Village streets be kept clean, as trucks move into and out of the sites?</b>      | <p>Yes. Streets will be cleaned as needed by street sweeper trucks, to ensure soil and sediment is removed. Dump truck wheels will also be cleaned as sprayed as needed.</p>  |

## 6 CONSTRUCTION SIGHTS AND SOUNDS IN YOUR NEIGHBOURHOOD

**As construction of the Ontario Line at Exhibition Station progresses, Liberty Village residents can expect to see and hear the following (clockwise from top left):**

- Excavators and compactors, used for grading, digging and shoring, as the station and portal are constructed.
- Trucks, and trucking shaker racks, to ensure soil and potential contaminants are not spread from truck wheels in the neighbourhood.
- Hydrovac trucks, which emit noise as they conduct utilities work.
- Street sweeper machines, deployed as needed to keep roads clean.



*Excavator and compactor*



*Shaker Rack, for truck wheel cleaning*



*Street sweeper*



*Hydrovac truck and operator*

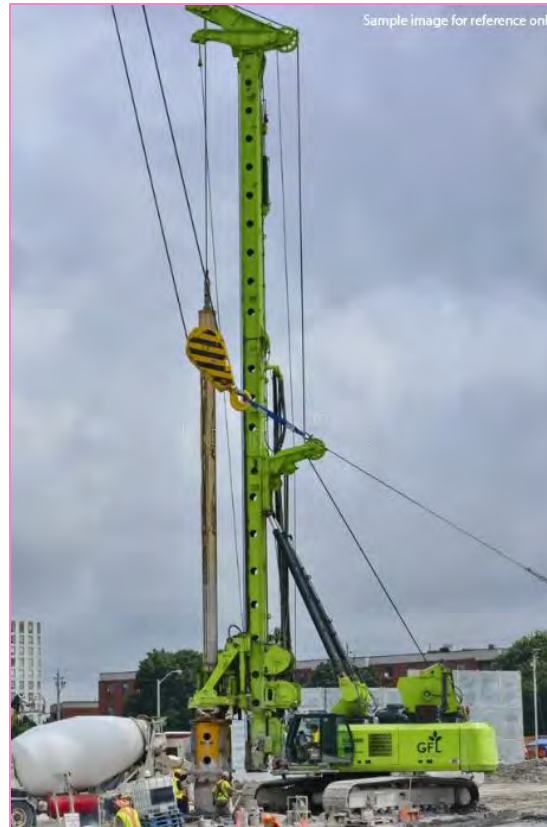


## 7

## PILING WORKS TO PREPARE FOR THE ONTARIO LINE TUNNEL ENTRANCE

### Construction of the subway portal, including piling, will begin in 2024.

- The Ontario Line subway portal will be constructed at the east end of the Exhibition Station site, south of King West Laneway and Pirandello Street.
- The portal will allow Ontario Line trains to move from their at-grade station at Exhibition, to their below-grade tunnel, turning northeast toward King-Bathurst station.
- Piling (or pile drilling) is a foundational technique used in constructing underground structural support systems. It ensures stability and support for the surrounding infrastructures and buildings during the construction of subway structures, until the permanent concrete structure of the station is completed.
- A pile wall consists of overlapping (secant) piles to form structural walls and achieve the required water tightness. Some of the piles are reinforced with steel beams. More community impact details will be communicated in 2024.



*Piling equipment*



*Example of a transit portal*



# 8

## NEW STATION BUILDING NORTH SITE PREPARATION

- Demolition of existing buildings at the foot of Atlantic Avenue and Jefferson Avenue will be completed in 2024.
- Once complete, foundation preparation will commence for a new, accessible station building.
- Preparation includes grading and concrete pouring to form the future footprint of the new Exhibition Station on the north side of the rail corridor.
- Residents can expect equipment using both Atlantic Avenue and Jefferson Avenue, as well as temporary roadway and sidewalk reductions.
- More construction details will be communicated throughout the year as work progresses.

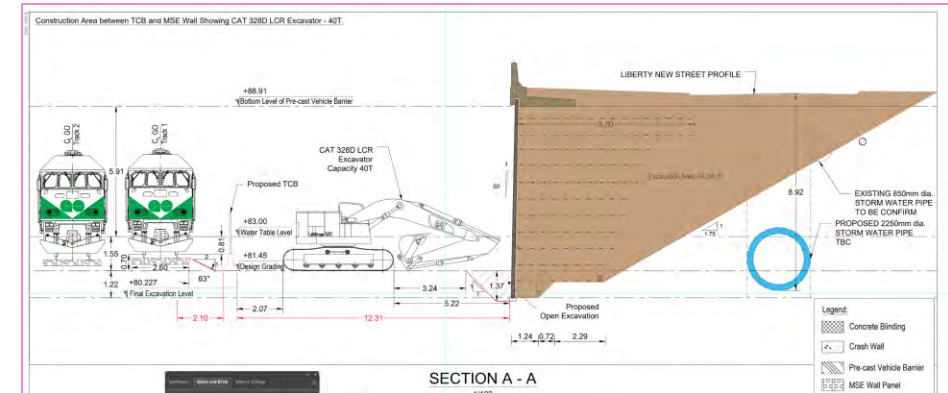


*Example of foundation preparation*

## 9

## RETENTION WALLS TO BE BUILT IN PARALLEL WITH THE GO CORRIDOR

- In 2024, new retention walls along the north and south side of the rail corridors will be constructed.
- Retention walls create structural support for adjacent roadways, infrastructure and soil.
- The new walls are needed to support the Ontario Line rails, as well as the new Exhibition Station.
- The walls are built after demolition and grading activities are complete. Equipment to be used in includes drill riggers, excavators, bobcats, cement trucks, hydrovac trucks, pump trucks and mobile cranes.
- More construction details will be communicated as work progresses.



Example of a retention wall being constructed adjacent to future rails



# ESTIMATED LONG TERM LOOK AHEAD & MAJOR MILESTONES FOR STATION BUILD

## 2025-26

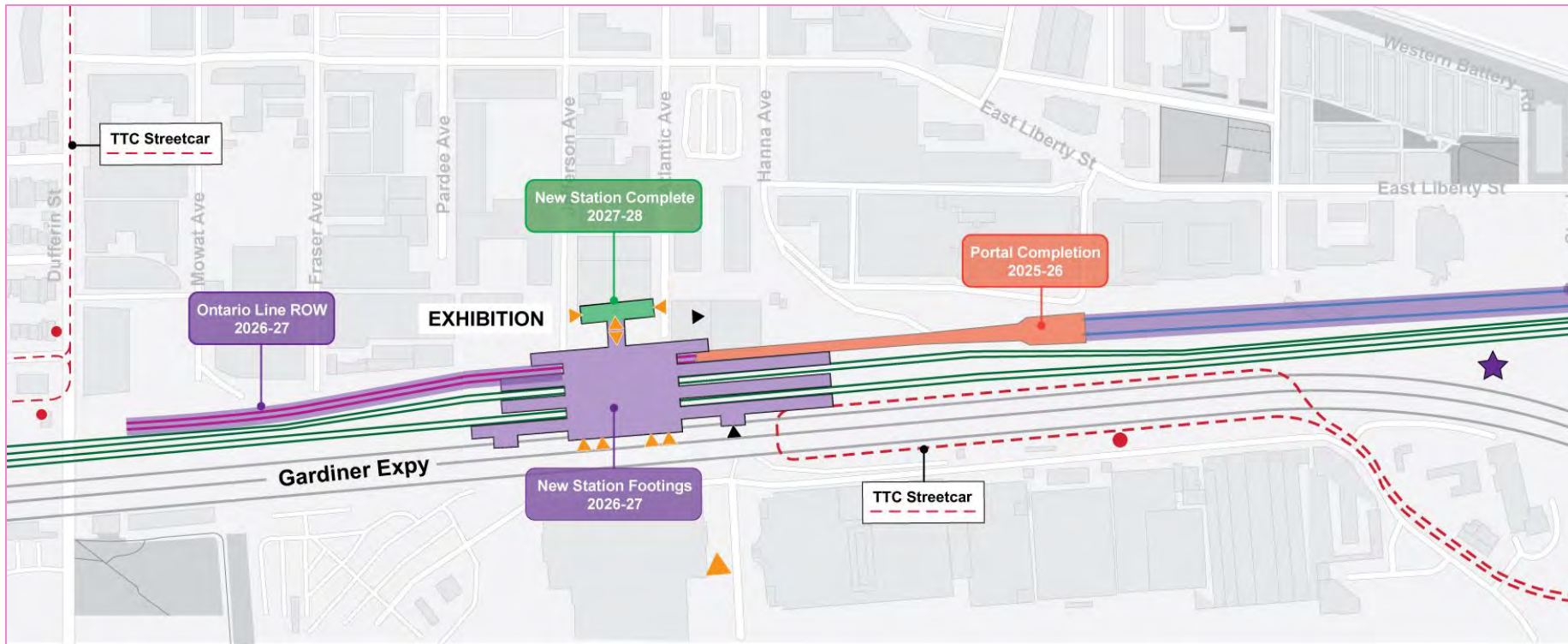
- Portal structural completion
- Insertion of Tunnel Boring Machines and tunneling eastbound
- New station footings

## 2026-27

- New station platform construction begins
- New station structure
- Removal of temporary pedestrian bridge
- Ontario Line right-of-way prepared for track work

## 2027-28

- Completion of station building
- Construction of Station Canopy over all 6 tracks
- Completion of station platforms



**Safety Never Stops: Safety is central to everything we do, and we hold ourselves to the highest standards when it comes to safety. Our top focus is ensuring the safety of the public and the work crews every day.**

- Work crews are experts in their fields and are trained in safety standards to make sure the risk of accidents are avoided. All crews are trained to prevent and recognize potential situations and hazards that can harm workers or the public.
- Construction work involves heavy equipment movements and precautions are taken at all times to make sure there is clear visibility for operators before work takes place.
- Take precautions if you see equipment in your community, such as dump trucks. Remember, if you can't see the driver, they can't see you either. Give yourself time and space and make eye contact with flag persons when crossing paths.
- At the end of the day, the #1 priority is getting **everyone home safe**.



*Future home of the Exhibition Station north building entrance on Atlantic Avenue.*



**Metrolinx will keep the community informed by providing Ontario Line updates and addressing questions and concerns effectively, and quickly.**

**Connect With Us:**

- Email: [OntarioLine@metrolinx.com](mailto:OntarioLine@metrolinx.com)
- Telephone 24/7: 416-202-5100
- Ontario Line e-newsletter: [Metrolinx.com/OntarioLine](https://metrolinx.com/OntarioLine)

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- X / Facebook / Instagram [@OntarioLine](https://www.instagram.com/OntarioLine)

**Join our monthly Construction Liaison Committees (CLC):**

- Interested in having a regular dialogue about construction activities in your area? Speak to a member of our team.
- Email: [OntarioLine@metrolinx.com](mailto:OntarioLine@metrolinx.com)



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**A new emergency exit building will be built at Ordinance Park, between Exhibition Station and the future King-Bathurst Station.**

- East of Exhibition Station, this structure will be delivered to the east end of Ordinance Park, between Lakeshore West and Kitchener/Milton/Barrie/UP Express rail corridors.
- While there will be partial park closures to construct the shaft and the building, the pedestrian bridges will not be impacted.
- EEBs are built in between the stations when station platforms are more than approximately 760 metres apart to allow for easy evacuation of passengers. It consists of a stairwell reaching 32 metres below ground to the subway tunnels, as well as a small exit building at surface level.
- Piling work will be required to create the shaft for the stairwell.

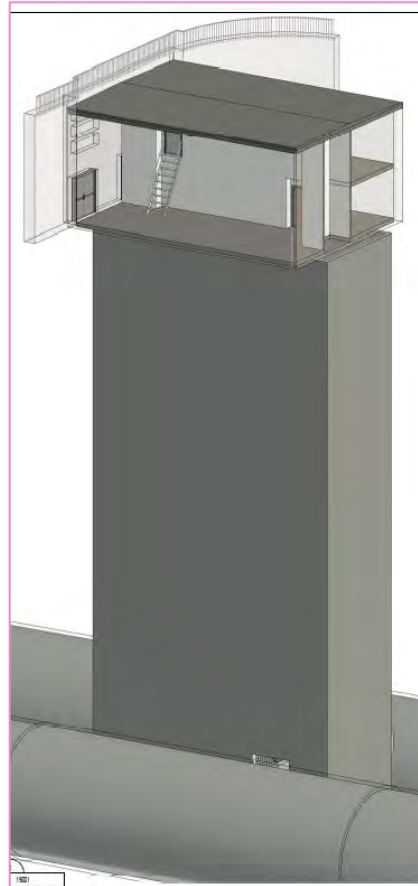


Diagram of the EEB structure



EEB work zone



**To reduce impacts to residents and businesses in the area, we will do the following:**

- Place noise and vibration monitoring equipment on site and in the neighborhood to actively track the impact to ambient noise levels.
- Trucks and equipment will drive on top of a granular platform to minimize dust. In warmer and dry months, water will be spread to help with dust. Adjacent roads will also be cleaned once excavated material is starting to be hauled off.
- Use continuous loop truck routes, reducing the need for trucks to reverse using backup alarms.
- Install site hoarding where possible to help reduce noise.



*Sample site hoarding*





EXHIBITION OPEN HOUSE - FEBRUARY 2024

*Artist's rendering – subject to change. Transit-Oriented Community proposals not shown.*





EXHIBITION OPEN HOUSE - FEBRUARY 2024





**EXHIBITION OPEN HOUSE - FEBRUARY 2024**

*Artist's rendering – subject to change. Transit-Oriented Community proposals not shown.*





Départs in 14 minutes

Départs  
Départ  
4 min

King-Bathurst

Départs  
16:20 16:30  
Exhibition

King-Bathurst

King-Bathurst