

Eglinton Crosstown West Extension

Meet the Builders Open House

STRABAG

June 4, 2024

Welcome

Thank you for attending the Eglinton Crosstown West Extension Meet the Builders Open House

Event Focus:

- Meet the builder: STRABAG - the builder for the eastern tunnel of the Eglinton Crosstown West Extension
- What you can expect to see
- Construction methods and timelines
- Project and community benefits
- Future engagement opportunities

The Eglinton Crosstown West Extension



9.2 km of new rapid transit line



Seven (7) new stations



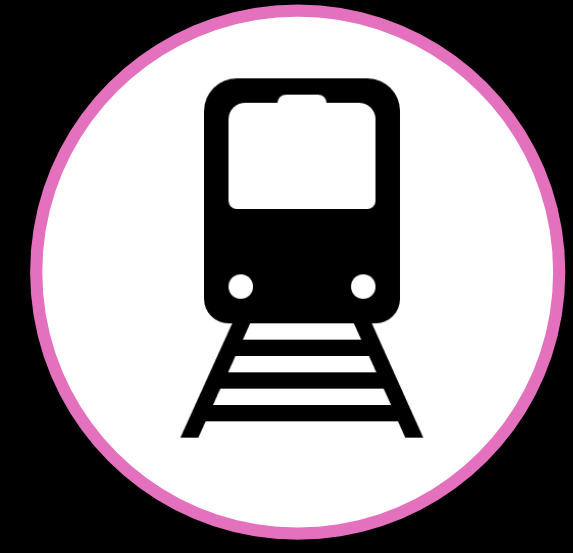
Five (5) connections to other transit options, including: UP Express, Kitchener GO Train, GO Transit, TTC and MiWay buses



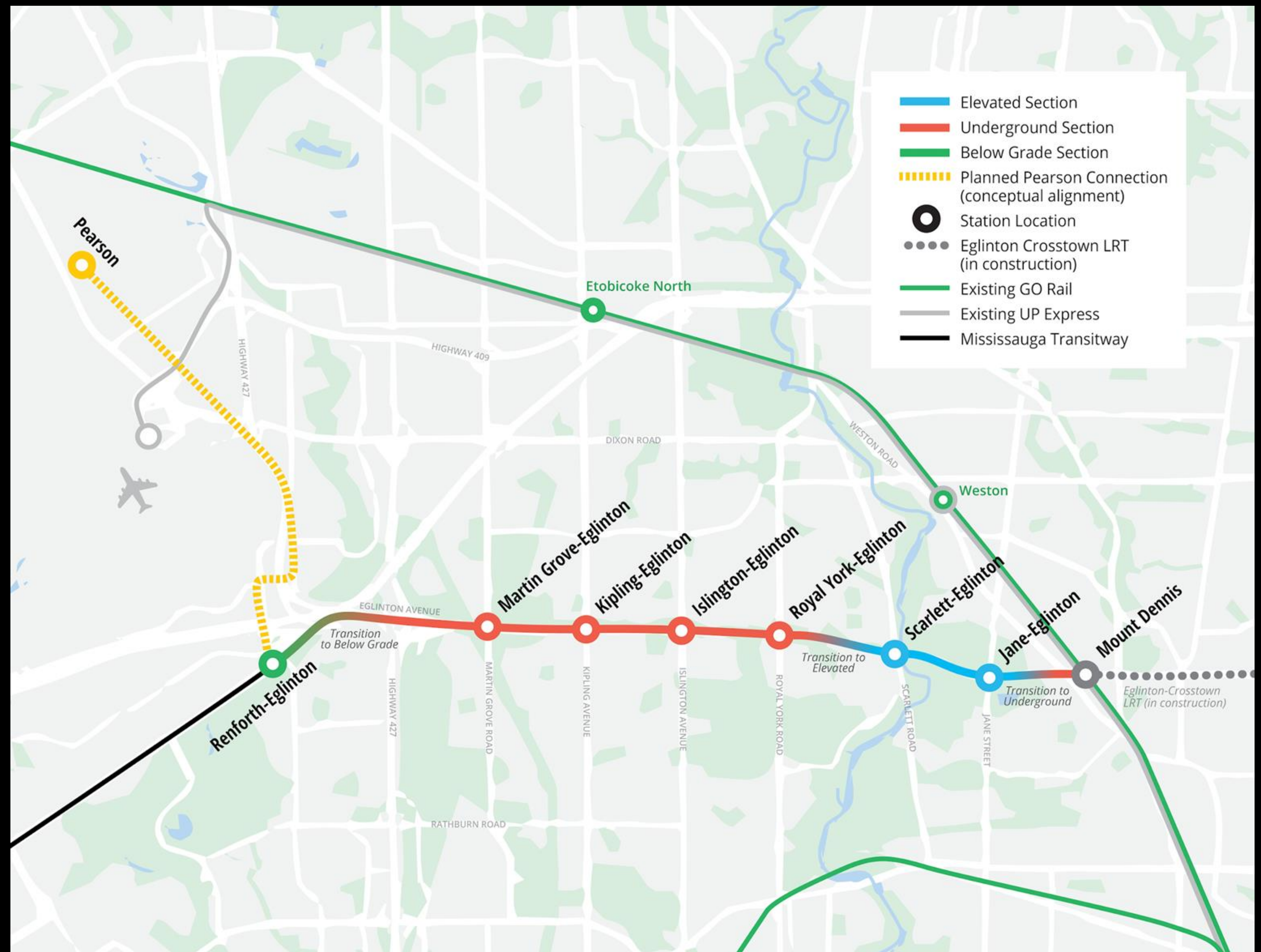
37,500 more people within walking distance to transit



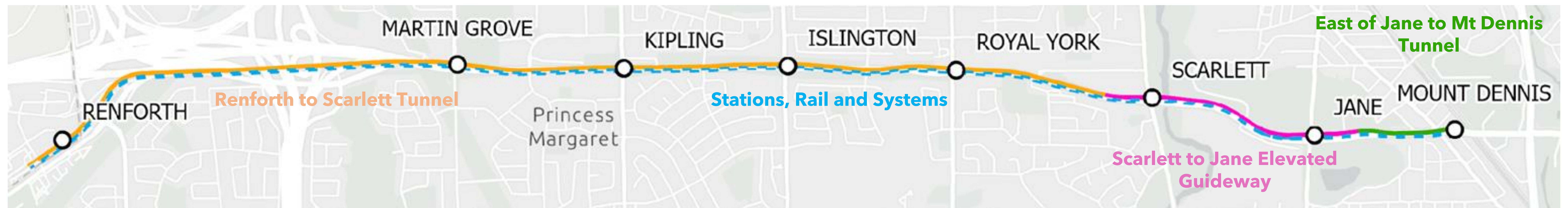
23,600 more jobs within walking distance to transit





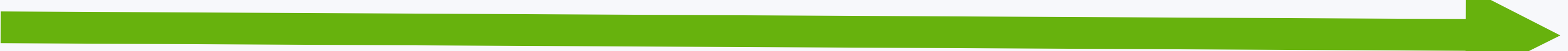
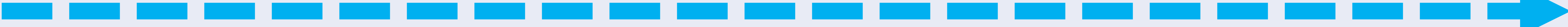
Up to 69,700 daily rides



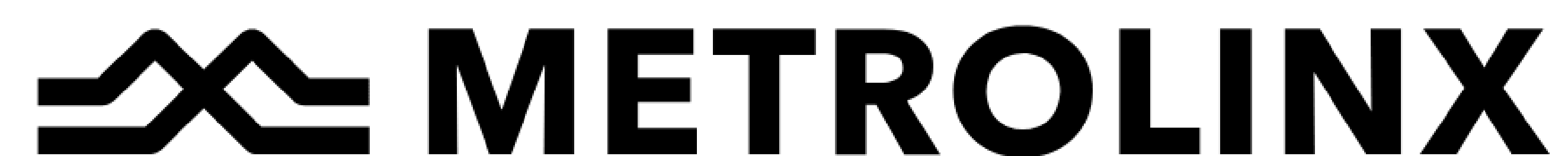
ECWE Timeline



The project is being delivered through four contracts, with separate contractors

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Renforth to Scarlett Tunnel - currently under construction	 Construction									
Scarlett to Jane Elevated Guideway - currently in early works	 Design, Early Works and Construction									
East of Jane to Mt Dennis Tunnel - currently in early works	 Design, Early Works and Construction									
Stations, Rail and Systems - currently preparing for procurement	 Design, Early Works and Construction									

Who's building the ECWE?



Delivering the Advanced Tunnel 1 (Renforth to Scarlett)

- In construction since July 2021
- Tunnel Boring machines (to create east and west bound tunnels) are called Renny and Remy
- Remy completed its works in April 2024. Renny completed its works in May 2024

STRABAG

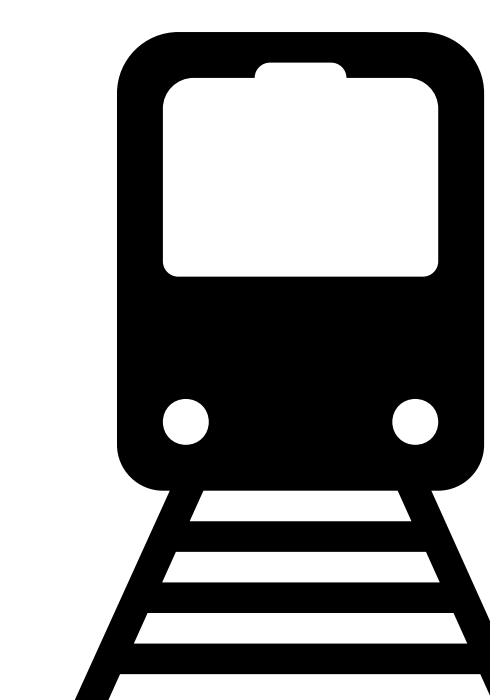
Delivering the Advanced Tunnel 2 (East of Jane Street to Mount Dennis)

- Construction began in 2023
- The tunnel is approximately 500 metres and will connect to the elevated guideway
- Early works currently underway
- Expected to be completed in 2027
- **Meet us today!**

AECON

Delivering the Elevated Guideway (West of Scarlett Road to just East of Jane Street)

- Construction set to begin in 2025
- A 1.5 km guideway
- Expected to be completed in 2028.



To be determined

Delivering the Stations, Rails and Systems (Renforth to Mount Dennis)

- Currently in procurement

STRABAG Canada

“

STRABAG Canada stands as a construction leader, renowned for its expertise in tunnelling across diverse terrains. The company's portfolio showcases a commitment to precision and innovation, with **tunnel projects** contributing to transportation networks, and water infrastructure in Canada. Explore the underground realms sculpted by STRABAG, where engineering excellence defines a resilient and interconnected future.

Along with the 500m tunnel connecting the **Eglinton Crosstown West Extension** to the **Mount Dennis Station**, STRABAG is also the delivery partner for the **Scarborough Subway Extensions Advanced Tunnel** and the **Ashbridges Bay Wastewater Treatment Plant** in Toronto.

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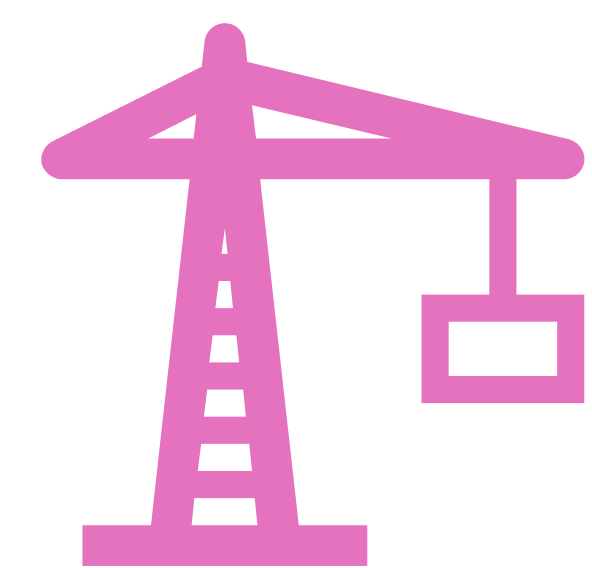
STRABAG

STRABAG's Corporate Sustainability Goals



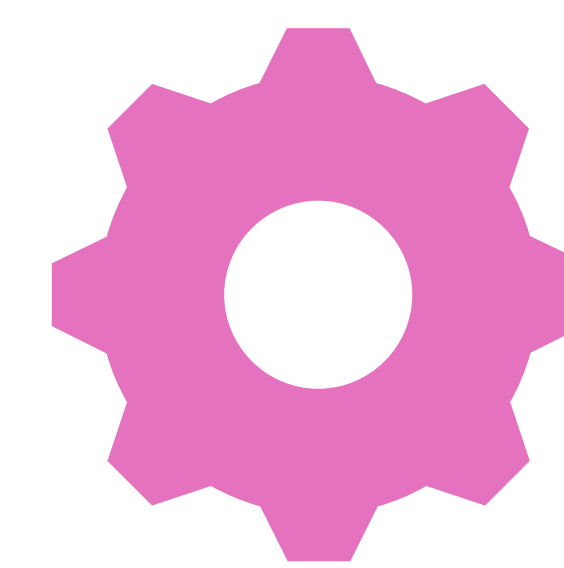
Climate-neutral
administration

2025



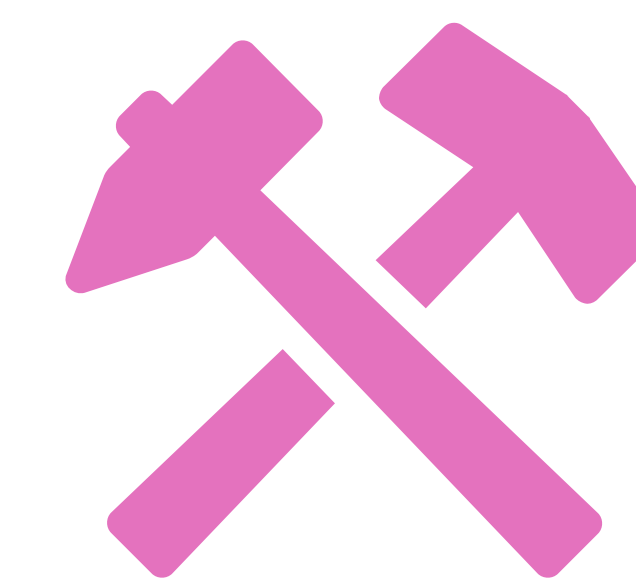
Climate-neutral
construction projects

2030



Climate-neutral
operation of buildings

2035



Climate-neutral
building materials

2040



Climate-neutral
infrastructure

2040

Scan here to find out more



Meet the STRABAG team



Simon Koeck

Project Co. Representative

Boring fact: Makes his own maple syrup every year.



Thomas Wenz

Construction Team Lead

Boring fact: Believes that the real football is soccer.



Ronnie Barcelona

Construction Services Manager

Boring fact: Can spend hours in Home Depot & Canadian Tire but can't spend even a minute in a regular shopping mall.

Meet the STRABAG team



Veena Lalman

Environmental Manager

Enjoys pancakes (wishes for someone to give me home made maple syrup each year), soccer and spending hours in a shopping mall!



Noelle Ebraemi

Community Engagement Lead

Boring fact: Is very good at spotting dogs from long distance but cannot find the scissors in the same spot they always are.



Jenna Floyd

Community Engagement
Coordinator

Boring fact: Loves taking naps and once had a froggy friend for nearly a decade.

STRABAG CANADA - recent projects



Highway 401 RER Tunnel Project

Eglinton Crosstown West Extension -
Advance Tunnel Contract 2



Scarborough Subway Extension - Advance Tunnel



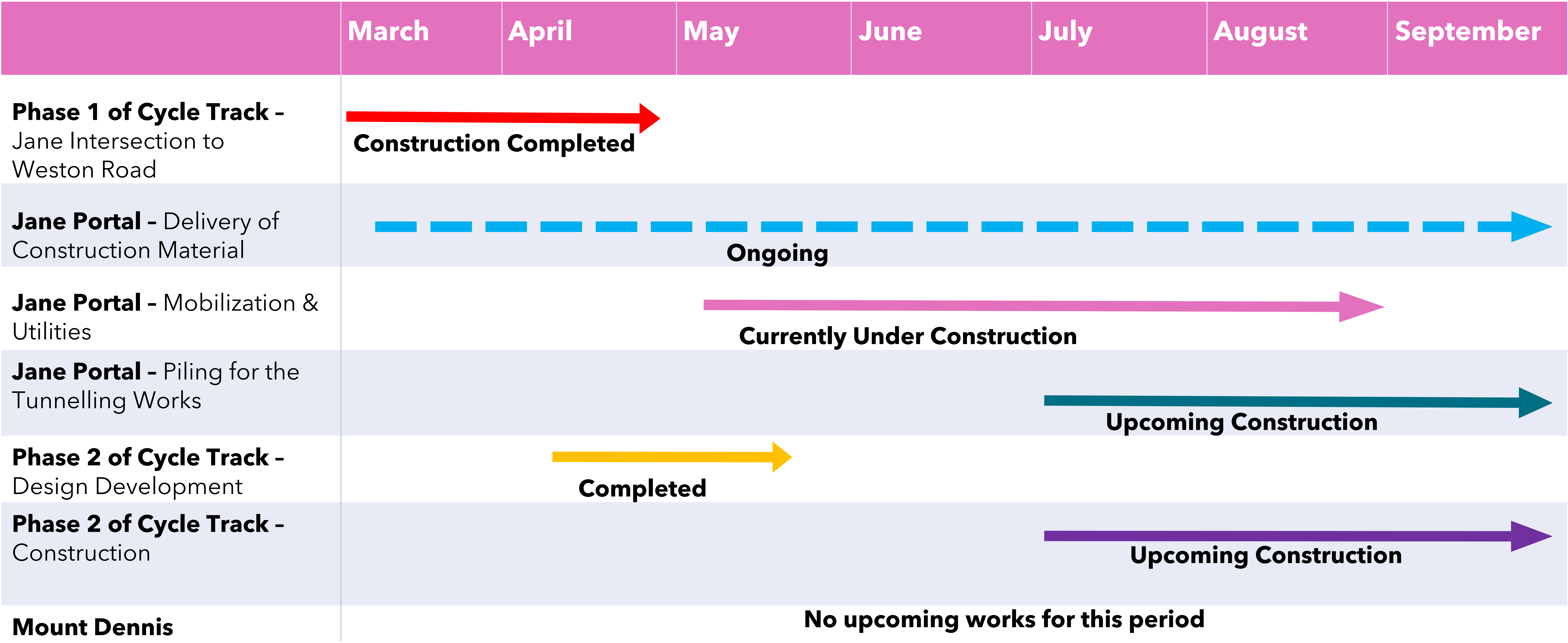
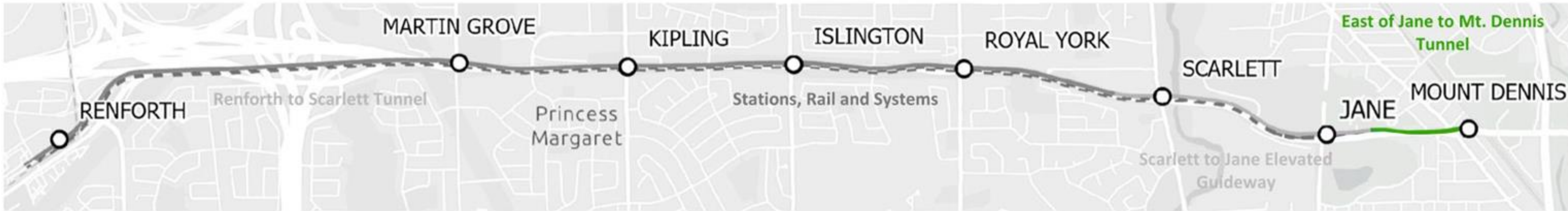
Ashbridges Bay Wastewater Treatment Plant



Niagara Falls Water Treatment Plant

Project timeline - Jane to Mount Dennis

Construction works for the Jane Portal and Cycle Track



Construction breakdown

2024 Jane portal and cycling track works

Time	Activity	Details & Purpose	What to Expect
Spring - Summer	Jane Portal - Preparation of site	<ul style="list-style-type: none">. Preparing all resources to ensure a smooth project execution.. Installing utility infrastructure necessary for the project.	<ul style="list-style-type: none">. Trucks transporting materials to and from the Jane portal site.
Summer	Jane Portal - Large drilling to support excavation	<ul style="list-style-type: none">. Creating the structure to support the tunnel works.	<ul style="list-style-type: none">. Drills being used to remove soil, allowing the workers to pour concrete into casing and install steel piles inside.. The community can expect some noise and vibrations.
Summer - Fall	Phase 2 of Cycle Track - Construction	<ul style="list-style-type: none">. Completing the second phase of the Cycle Track which is located on Eglinton Avenue West, between Weston Road and Black Creek Drive.	<ul style="list-style-type: none">. Concrete being poured, concrete barriers being installed and line painting.

Mitigating potential impacts

What we have heard from the community

Implement measures to mitigate negative effects on birds, bats and other animal species

Protect parkland and mitigate environmental impacts on these areas

Minimize tree removals and replant in affected areas (as much as possible)

Mitigate construction impacts on the community, such as noise and vibration

Support indigenous plantings, community gardens and community open spaces

Provide advance notice about any community impacts, and opportunities to work with the community

- Metrolinx is committed to minimizing ECWE project impacts through:
 - **Design** (integrating ways to reduce or mitigate the impact on the environment)
 - **Construction** (ensuring Metrolinx contracts adhere to specific requirements and expectations to mitigate construction impact)
 - **Operation** (regular maintenance and monitoring to confirm that mitigation is working)

Metrolinx will manage the potential for impact on:

Recreation & parks

Traffic

Noise & vibration

Humber River & watercourses

Wildlife

Vegetation & trees

Landscape restoration

During construction, some lands in the area will be impacted. Metrolinx is developing a Landscape Restoration Plan to restore these lands.

- The Plan will set the direction for the development of the future plantings along the alignment including new native trees, shrubs, and pollinator seed mixes restoring areas impacted by the Elevated Guideway and adjacent to the construction area.
- The Plan is currently at 60% completion (available online) and we will be presenting the 90% plan to the public this summer.

Priority 1: Restore lands impacted by ECWE construction –

Landscapes that are disturbed by construction activities will be fully restored to a condition equal to or better than the existing.

Priority 2: Improve adjacent lands –

Selected sites that lie immediately adjacent to the ECWE project lands will be improved by controlling invasive species and adding native species. This helps protect newly restored lands in the Eglinton Flats area.

Priority 3: Enhance additional landscapes –

Other sites within the Eglinton Corridor may be selected for strategic landscape enhancement. Compensatory tree planting that cannot be accommodated on restoration sites will be used to improve existing landscapes and add to the City's urban forest canopy.

A cohesive line-wide strategy for restoration that creates an enhanced green corridor

Restoration planning work has been shaped by discussions with TRCA, City of Toronto and the community

Noise, Vibration and Dust Management Approach

Jane Portal to Mount Dennis

- Transit construction brings noise, vibration, and dust. Metrolinx and STRABAG are committed to minimizing and managing these impacts.
- Noise, vibration and dust is continuously monitored 24-7.
- Data will inform the implementation of any additional mitigation measured as necessary, and with your input.
- Public complaints will be addressed in a timely manner.



What is piling?

- A foundational technique used to construct underground structural support systems.
- Ensures stability and support for the surrounding infrastructures and buildings during the construction of stations and other subway structures, until the permanent concrete structure of the station is completed. Pile walls will be installed around the perimeter of the future station footprints.
- A pile wall consists of overlapping piles to form structural walls and achieve the required water tightness. Some of the piles are reinforced with steel beams. This activity is performed before excavation of the station shaft.
- To install the pile walls, a drilling machine will create holes of approximately 18m in depth, at 1m in diameter, around the perimeter of the sites, respectively.
- A drilling rig machine will install the casing (a hollow tube) by rotating into the ground until it reaches the bedrock, section by section. Excavated material will then be removed from the casing using the auger.
- Once the drilling process is completed, reinforcements to the pile walls will be added using a crawler crane and concrete will be poured to ensure no gaps in solid materials, reinforcing the ground.



Drilling machine used in pile construction

Piling - What to expect in the community

- Noise from equipment drilling piles, loading of excavated material, deliveries of steel beams and concrete is expected.
- Equipment used during this operation includes drilling machines, cranes, excavators, concrete pumps, and concrete trucks on-site.
- Several trucks entering and leaving worksites daily, following a specified route.
- Certified flag-persons in place to ensure safety for the community and workers on-site.
- Piling equipment will remain within the work site for the duration of the piling process.



Construction zones along the Eglinton Ave. W.

Construction Updates - Jane portal

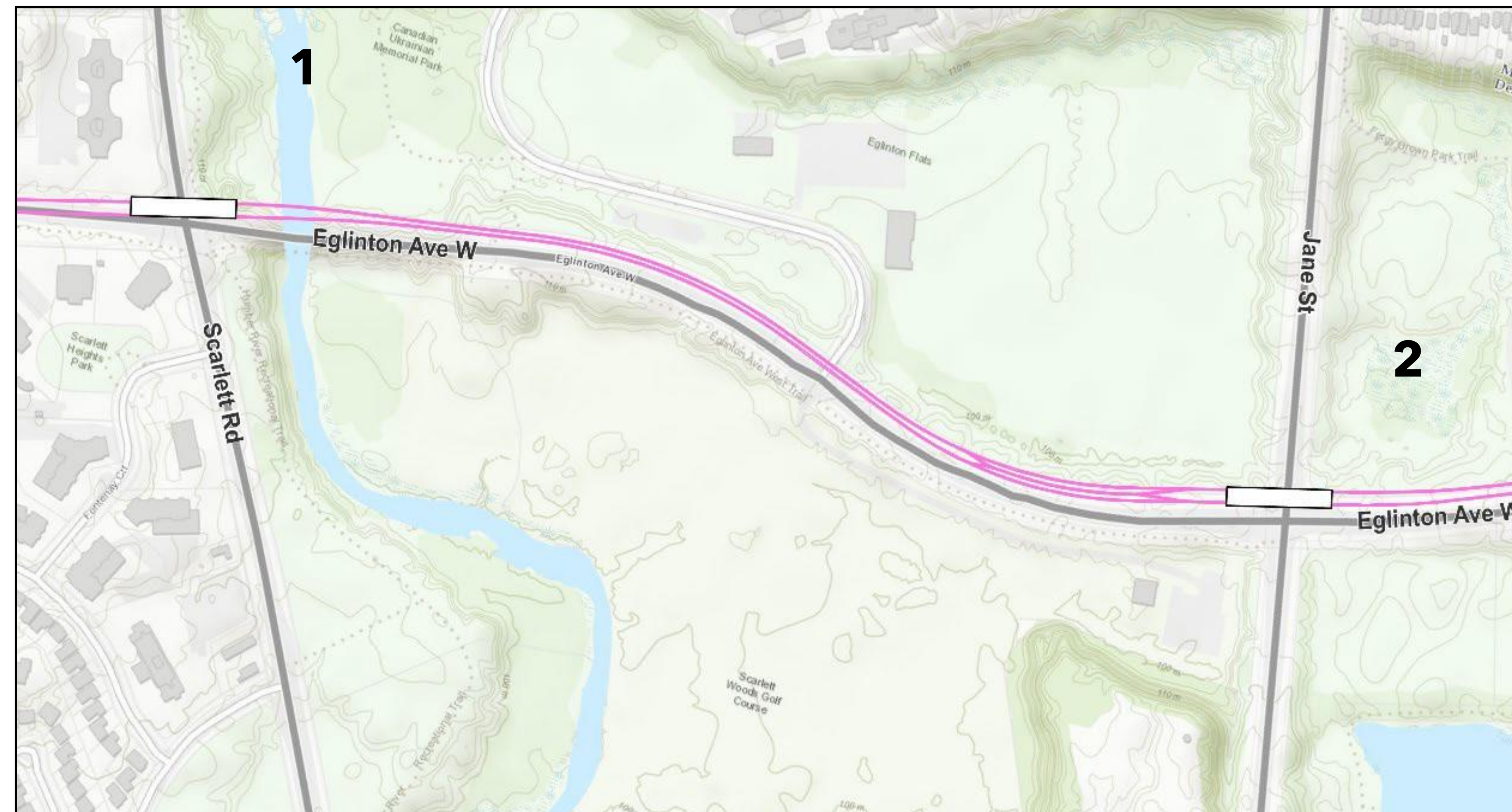
- Site preparation for the construction of the Jane portal shaft and related work has started.
- There will be two portals along the ECWE, one at Scarlett Road and the other at Jane Street.
- These portals will serve as the entry and exit points for the elevated guideway



Rendering of Jane portal


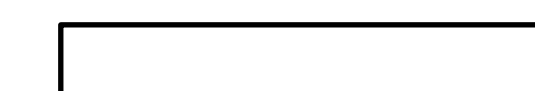
What is a portal?

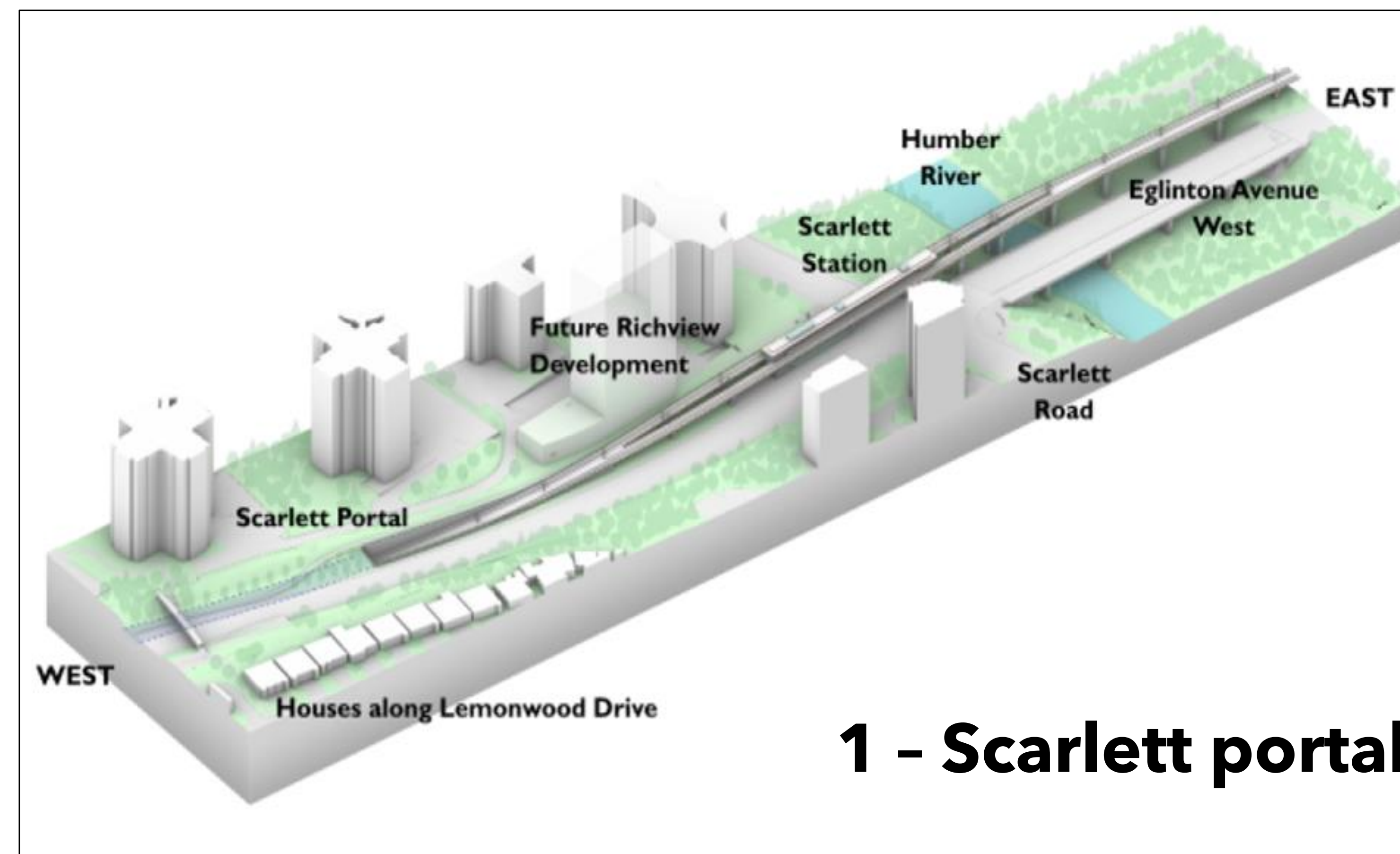
A portal is where the tracks transition from underground to the elevated guideway.



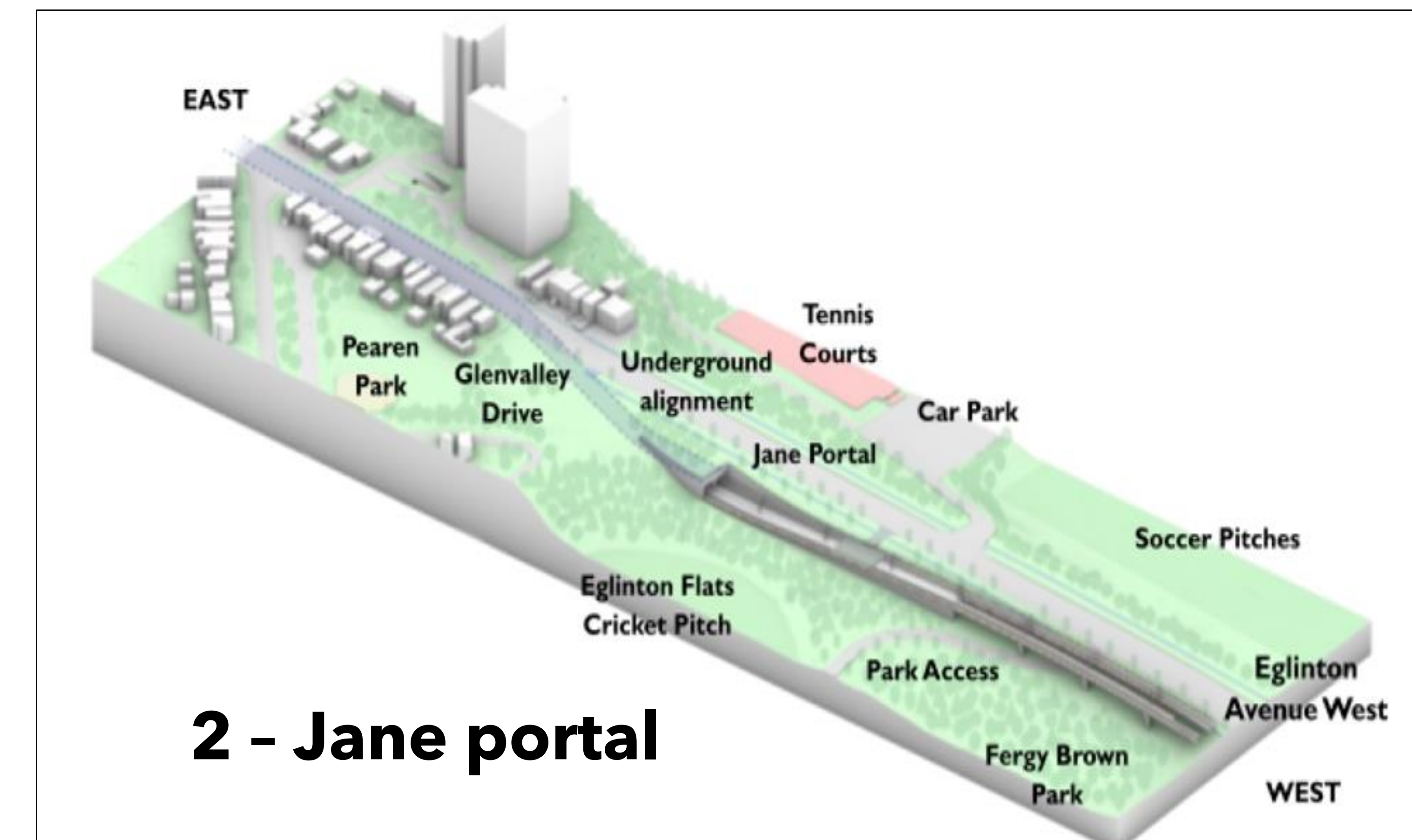
1 - Scarlett portal

Key Map

-  Elevated guideway
-  Portal location



1 - Scarlett portal



2 - Jane portal

Construction Updates - Cycling track works

- Cyclists can use the new cycle track (separated bike tracks) on Eglinton Avenue West, between Jane Street and Weston Road.
- Phase 2 of the cycle track is now under construction until October 2024.
- The new track will be located on Eglinton Avenue West, between Weston Road and Black Creek Drive.



During construction, the multi-use path (cycle track) will move from the north side of Eglinton Ave. to the south side temporarily, before being re-installed.

The cycle track will continue to be in use during this time.



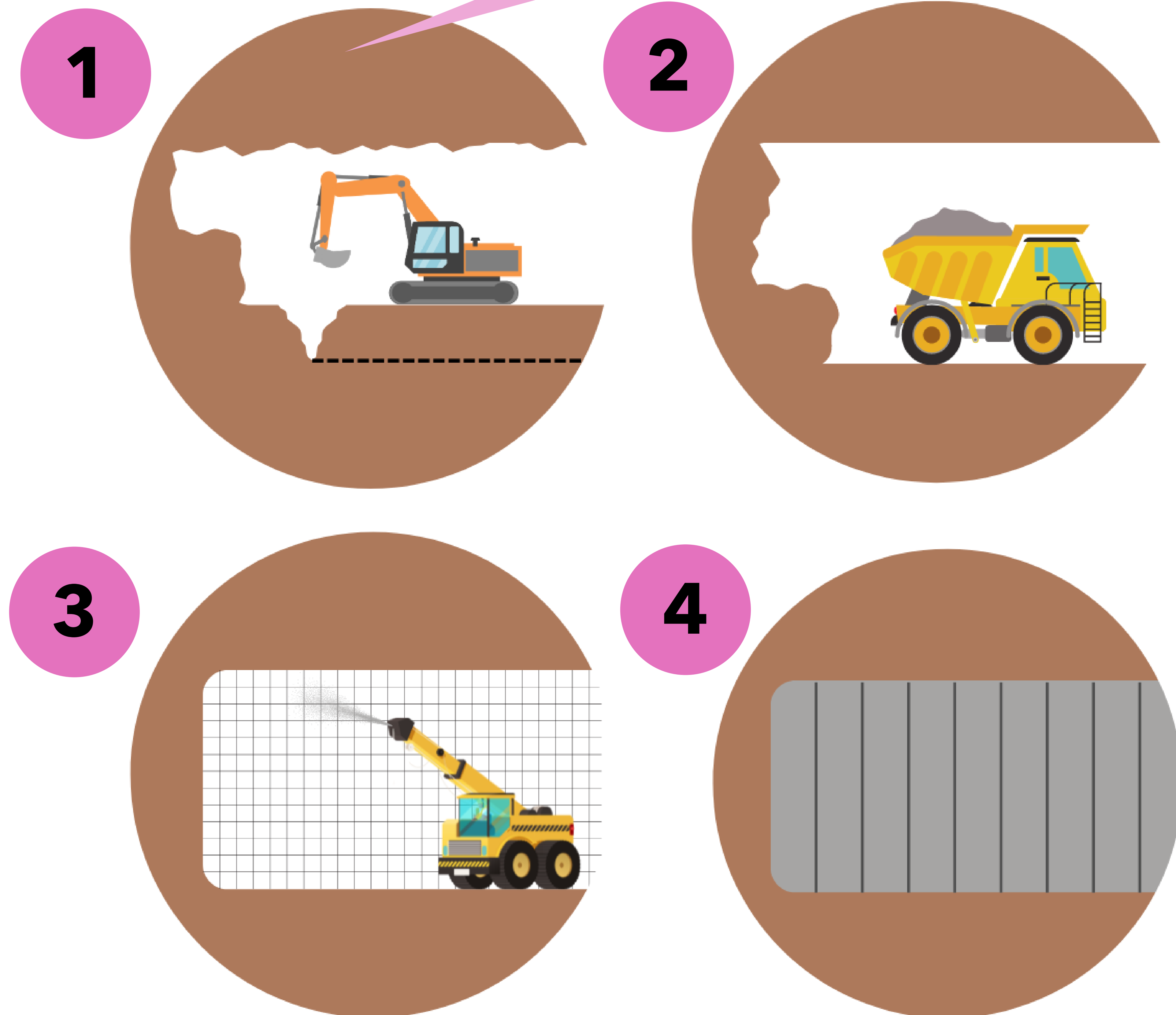
Introduction to the Sequential Excavation Method (SEM)

To build the tunnel east of Jane Street to Mount Dennis, STRABAG will be using the Sequential Excavation Method (SEM) to tunnel.

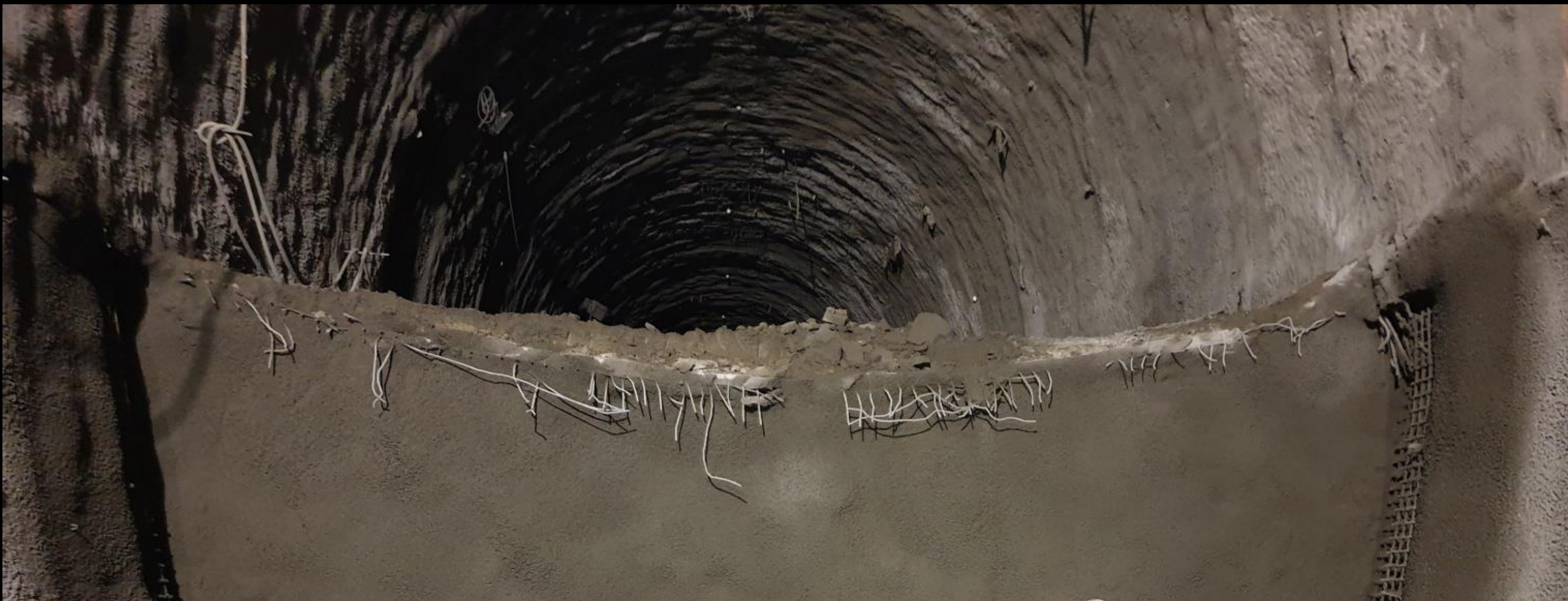
The SEM method digs the tunnel out into small sections

Process of the SEM:

- 1) Excavating: Use an excavator to dig out small, specific sections of the tunnel.
- 2) Mucking: Remove all the materials that were dug out.
- 3) Shotcrete: Spray concrete against the walls that were dug out.
- 4) Final lining: Cast final lining concrete.



Sequential excavation method (SEM)



Let us know your thoughts!

What makes your neighbourhood unique/what do you love about your community?

What are some places or landmarks in your neighbourhood that are special to you, that we could draw inspiration from? (Consider local landmarks, street art, natural features, cultural festivals or events, and gathering places that are meaningful to you.)

Community Benefits

Metrolinx Community Benefits & Supports will be implemented across our transit projects region-wide and delivered in a consistent way to mitigate impacts on local communities and businesses. These benefits will be implemented through four pillars.

This pillar promotes apprenticeship training and workforce development opportunities for local communities and equity seeking groups including 10% hiring targets for BIPOC (Black, Indigenous, People of Colour), women, apprentices and requirements for an anti-racism policy.

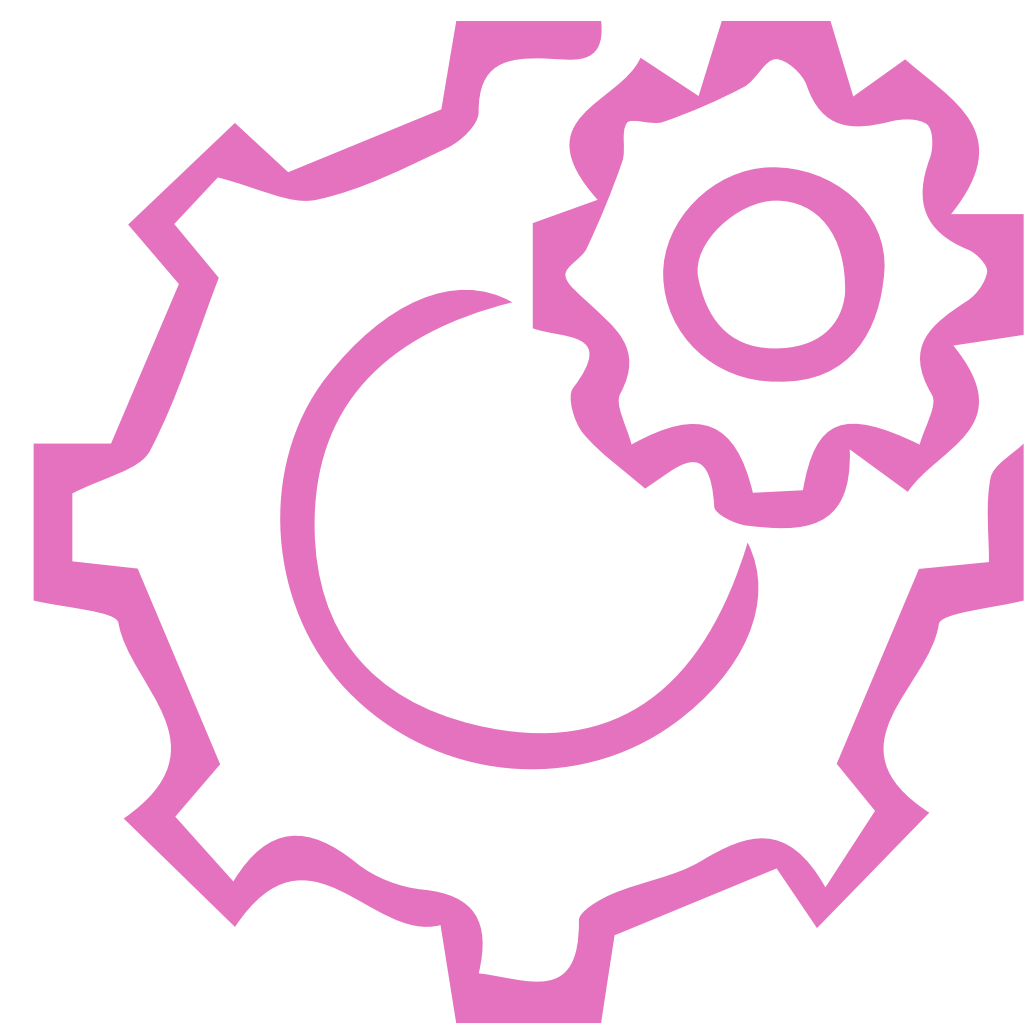
We are working with communities as a connector to the right decision-makers to make improvements to public spaces surrounding transit project construction, where no funding is available.



This pillar builds and fosters relationships with local businesses to minimize and alleviate business disruptions & reduce the economic impacts as a result of construction, for example through shop local initiatives & procurement from local businesses.

During the design and development phase of our projects, we are finding ways to leave the surroundings in an improved state when construction of the project creates temporary disruptions.

Community Benefits - STRABAG

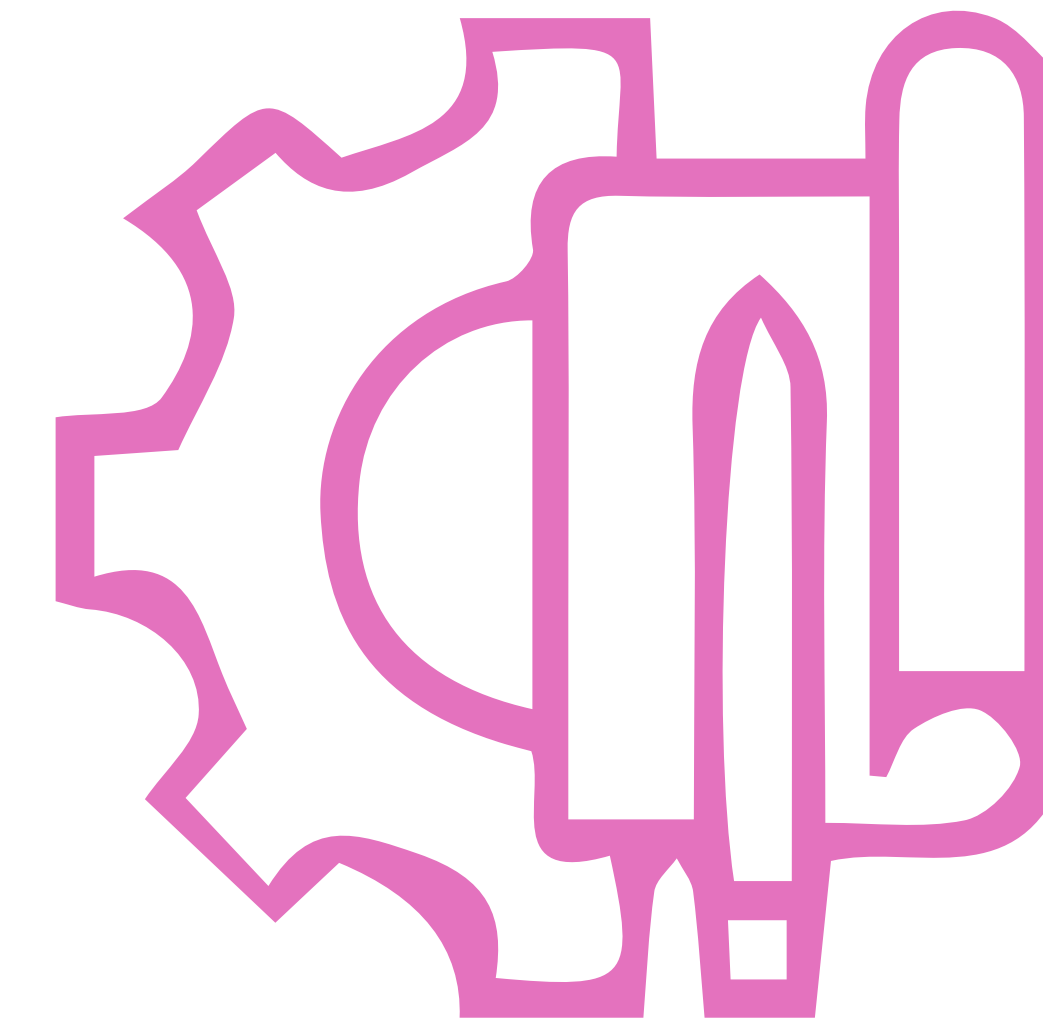


Diverse & Equitable Workforce

STRABAG is implementing new hiring targets on the ATC2 project, progressing towards an even more equitable and diverse workforce.

Key focus includes:

- 10% of persons who identify as black, indigenous Nations or persons of colour
- 10% of persons who identify as female/women

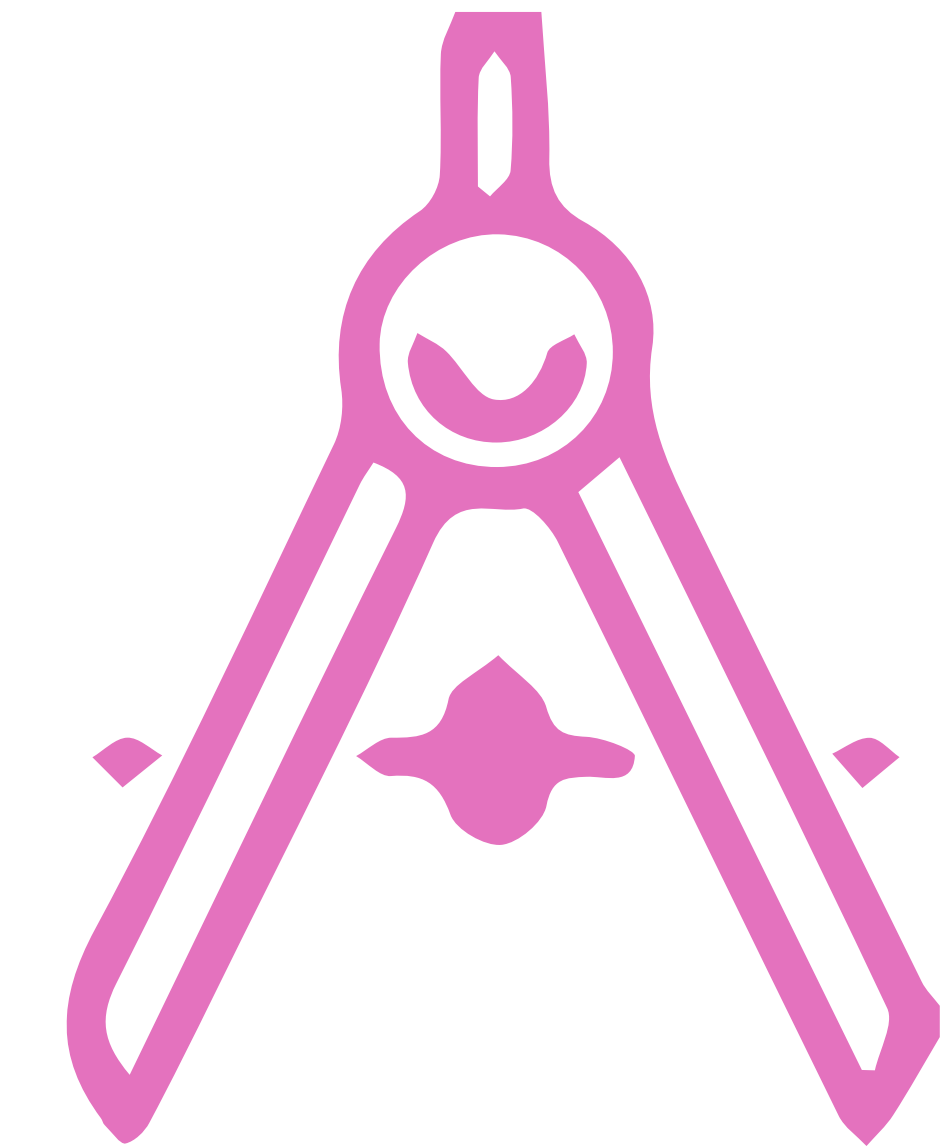


Training and Education

STRABAG is committed to bringing educational opportunities to local community members, newcomers and high school students interested in pathways to apprenticeship.

Key focus includes:

- Small group mentorships
- Presentations & information sessions



Local Business Support

STRABAG understands that we are building this transformative project in an established community and looks to support local business where and how possible.

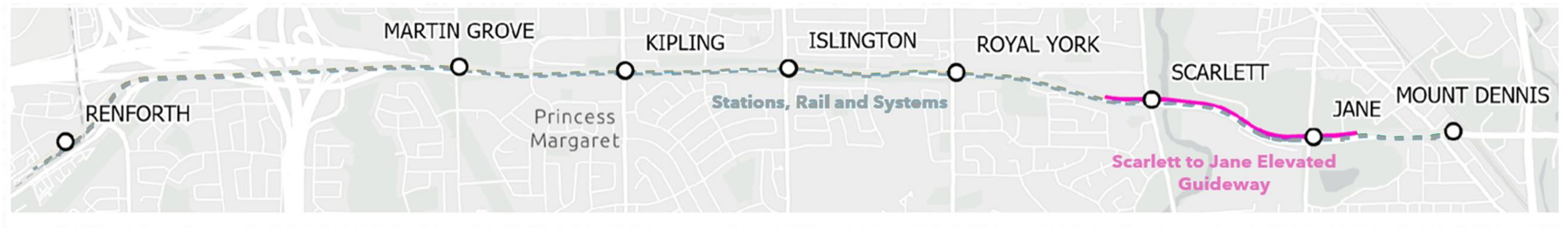
Key focus includes:

- Working with social enterprises
- Purchasing from business run by equity-deserving groups
- Local purchasing
- Local catering

Meet Aecon



- Aecon is a Canadian construction and infrastructure development company who will be designed and building the elevated guideway of the Eglinton Crosstown West Extension (ECWE).
- The scope of work includes the design and construction of the 1.5-kilometre elevated guideway that will run along the north side of Eglinton Avenue West, from Jane Street to Scarlett Road.



There will be a full Meet the Builders Open House for Aecon in late Summer 2024. Stay tuned for details.

Let us know your thoughts!

There will be a Meet the Builders Open House for Aecon - the builder of the elevated guideway from Scarlett Road to Jane Street, in late Summer 2024. Do you have any questions or information you would like presented at this future open house?

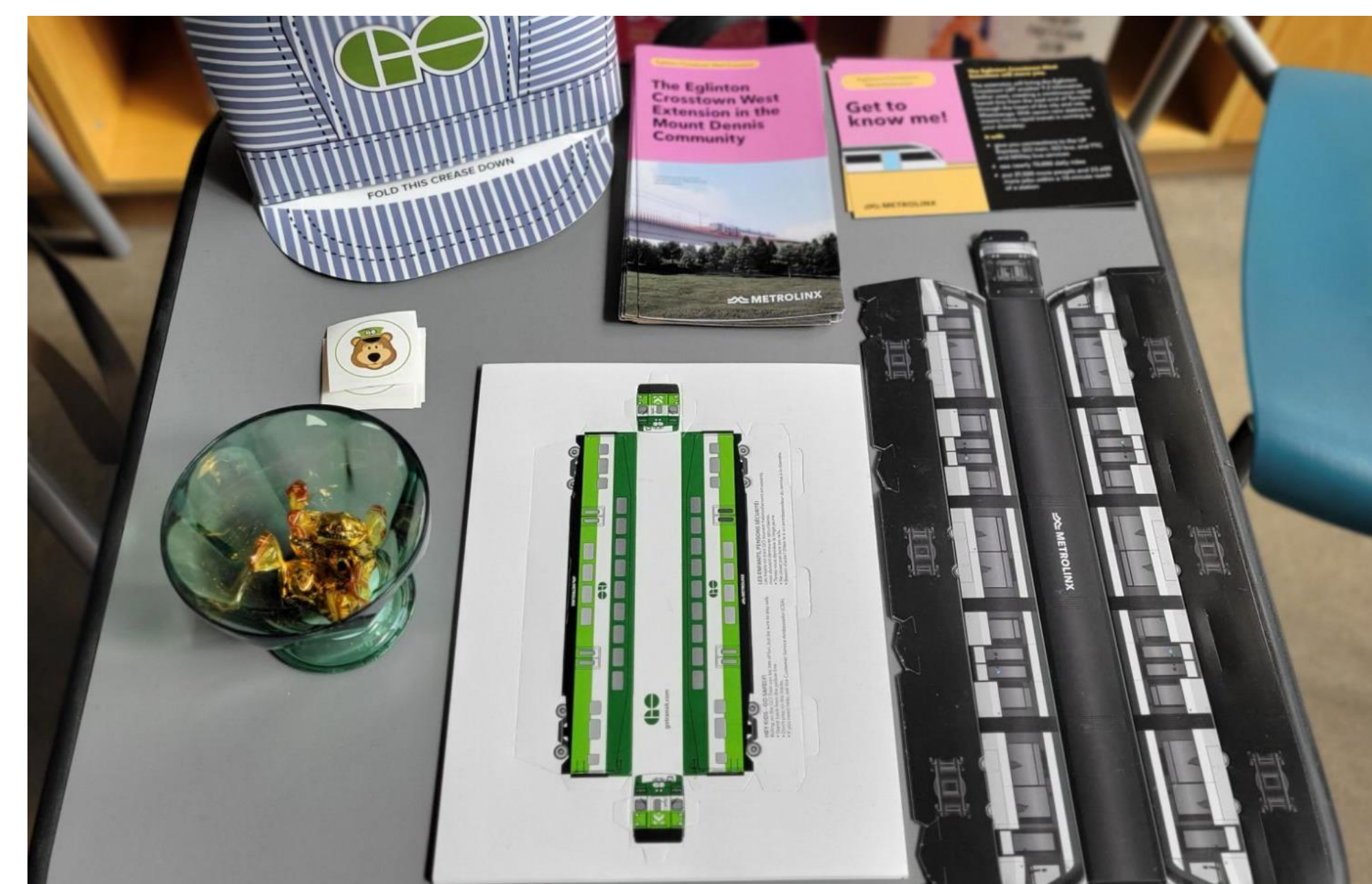
What's next?

Mid-2024

- Community Walks of ECWE stations (June - September)
- Restoration design at 90% completion (July 2024)
- Sharing stations information at community events
- Stations RFP release (August 2024)
- Participation in summer community events to spread general awareness of Project

Late-2024

- Meet the Builders Open House: Aecon (late Summer 2024)
- Full cross passage completion for Renforth to Scarlett tunnel (Fall 2024)
- Open House for the Stations
- Excavation work will begin for Jane portal design (November 2024)
- Cycle Track Phase 2: Weston Road to Black Creek Drive will be completed (November 2024)





Visit us at the Community Office

326 Scarlett Road

Tuesdays and
Thursdays,
10 a.m. - 5 p.m. or
by appointment

Want to know more?

Visit: metrolinx.com/EglintonWest

   @EglintonWestEXT

Email us: EglintonWest@metrolinx.com

Call us: 416-202-8001