

# Welcome

Thank you for attending this Community Meeting for the Broadway Subway Project.

**Today, we invite you to:**

- › Learn more about the Project
- › Meet members of the Broadway Subway Project team
- › Ask questions and provide comments



**Fall Engagement Program**

- › Attend a Community Meeting
- › Find us at a pop-up event near you
- › Learn more online at [\*\*engage.gov.bc.ca/broadwaysubway\*\*](https://engage.gov.bc.ca/broadwaysubway)

# Project Overview

The Broadway Subway Project is a 5.7 km extension of the Millennium Line, from VCC–Clark Station to Broadway and Arbutus. It includes six new underground stations, and will provide fast, frequent, reliable SkyTrain service to BC's second-largest jobs centre, world-class health services, an emerging innovation and research hub, and growing residential neighbourhoods.

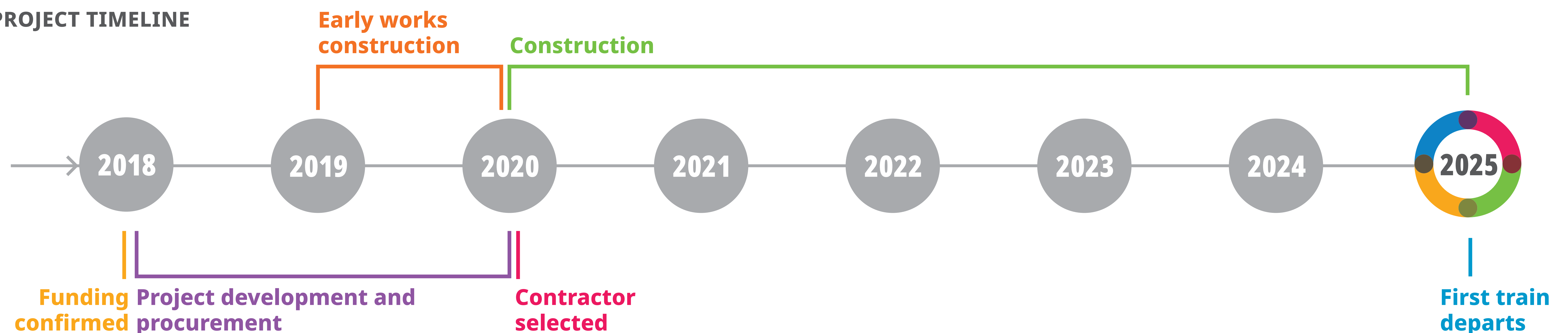
Once in service, the trip from VCC–Clark Station to Arbutus Station will take 11 minutes, saving the average transit commuter almost 30 minutes a day and relieving congestion along Broadway.

The Broadway Subway Project budget is \$2.83 billion, funded and delivered by the Government of B.C., with contributions from the Government of Canada and the City of Vancouver.

## Where we are now

Early works construction started in February 2019 to prepare for subway construction. The Project is undergoing a competitive selection process to identify a contractor to design and build the rapid transit line. More detailed information about construction will be available once the contractor is selected in mid-2020.

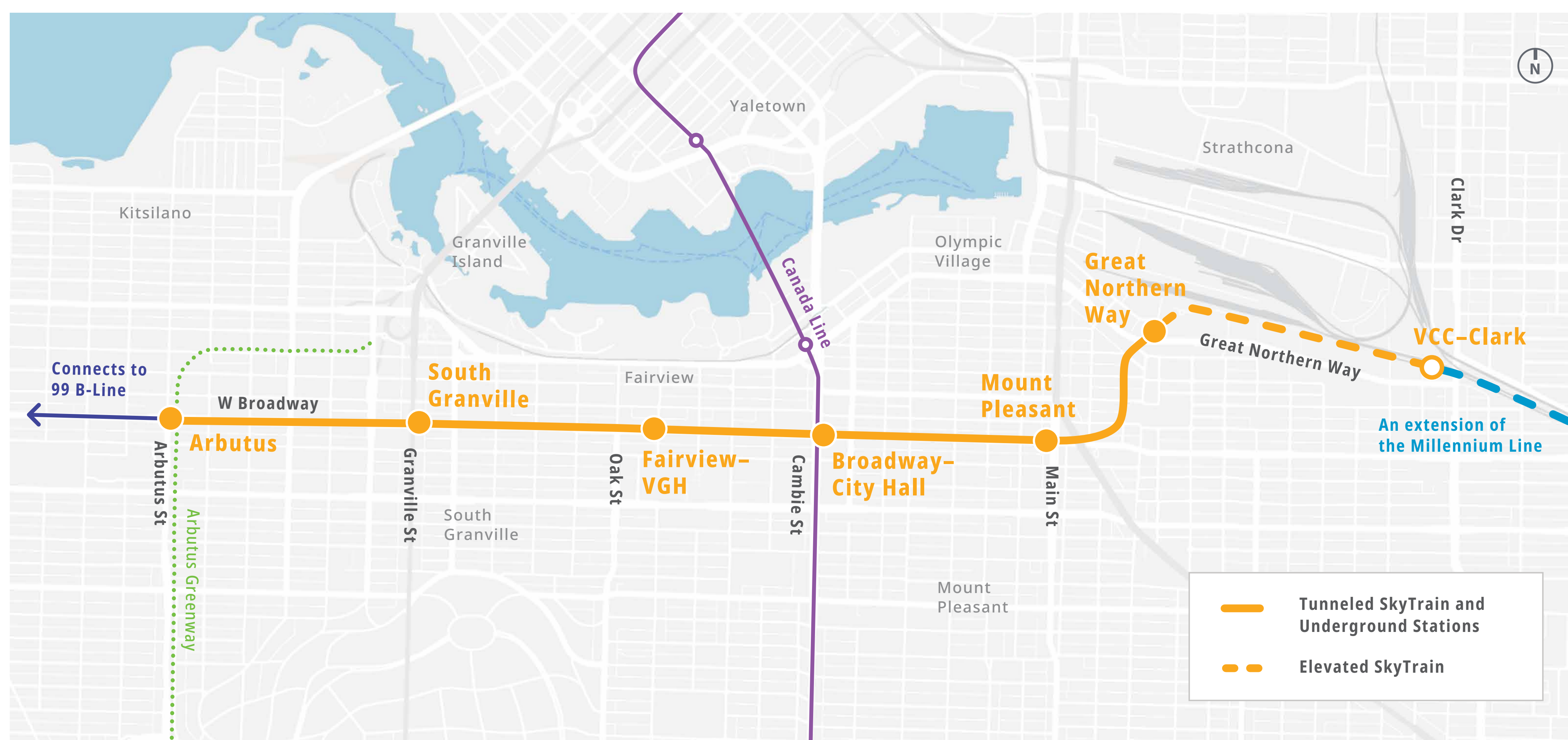
## PROJECT TIMELINE



# Expanding the Regional Transit Network

The Broadway extension will be a faster, more frequent and reliable transit option for those travelling along Broadway. As an extension of the Millennium Line, it will connect to the current SkyTrain network, including Expo and Canada Lines, and will integrate with the regional bus network.

The new line will make it easier to live, work, travel, shop and access services in the Broadway Corridor, adding to regional livability.



Station names are interim and not considered final at this time.

## Once complete, the Project will:

- › Have the capacity to move three times as many people as the current 99 B-Line
- › Provide faster, convenient, and more reliable transit service
- › Fill a critical gap in the regional transit network
- › Reduce congestion and improve travel time for transit commuters
- › Connect to bus, HandyDART, walking and cycling for a complete multi-modal experience
- › Support the environment by reducing greenhouse gas emissions

# Public Engagement

Efforts to identify a rapid transit solution for the Broadway Corridor have been underway for decades. As part of the UBC Line Rapid Transit Study (2009-2012), an evaluation of approximately 200 technology and route options was completed, along with extensive stakeholder and public engagement.



The most recent rounds of public engagement were led by TransLink:

## Planning Stage 1: December 2016 to February 2017

Information on the route and alignment was shared with stakeholders and the public.

## Planning Stage 2: May to July 2017

Stakeholders and the public provided input on construction considerations and mitigations, and station design features.

Input received during the planning stages has been considered in preliminary station designs and the early development of mitigation measures. Please refer to [engage.gov.bc.ca/broadwaysubway](https://engage.gov.bc.ca/broadwaysubway) for more information on previous engagement, including the engagement summary reports.

# What We Heard: Station Design

Residents, businesses, transit users, stakeholders, and the public have helped to shape the Project to date.

Stations will be integrated within the existing streetscape along Broadway. Stations will include:

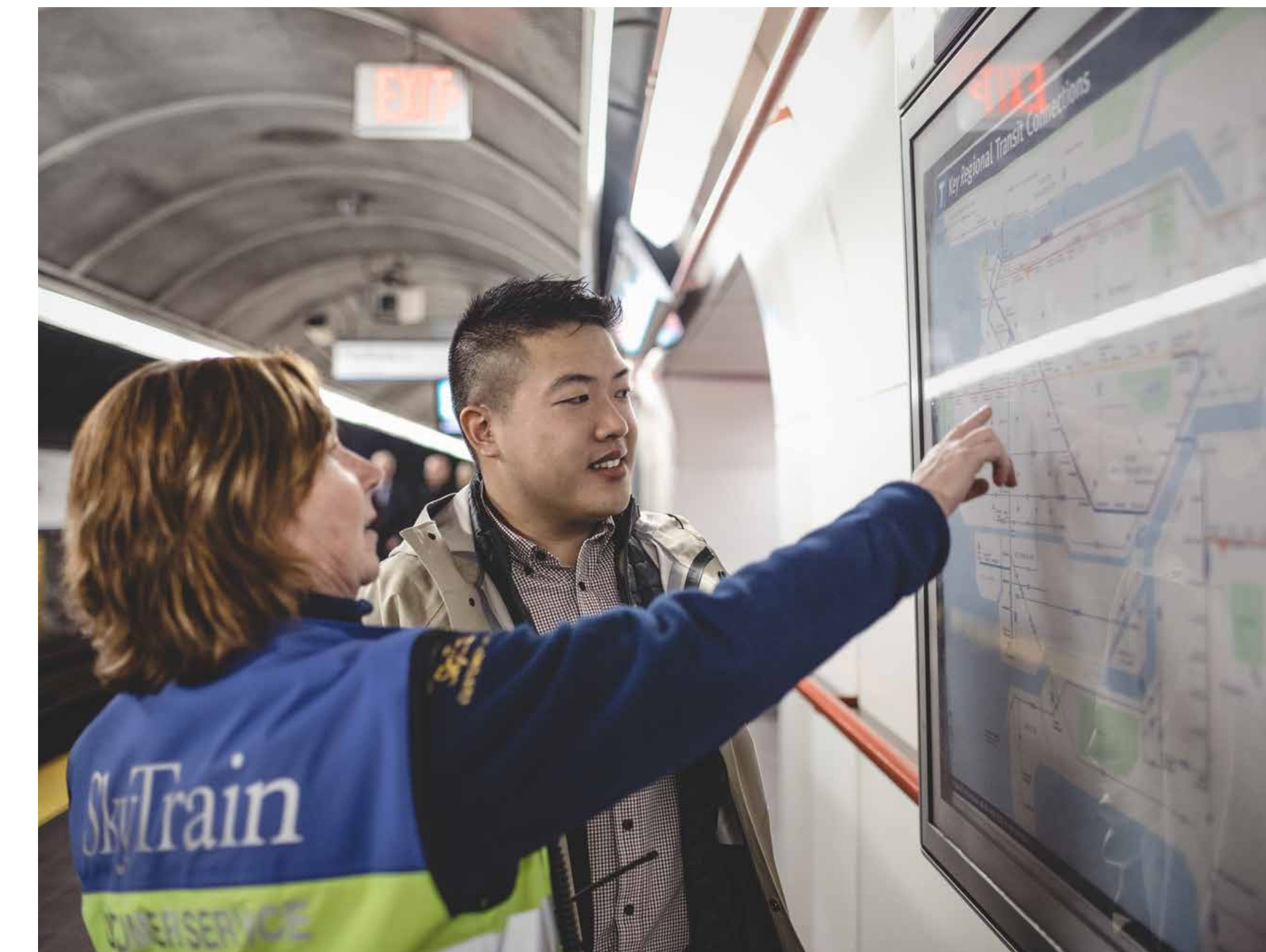
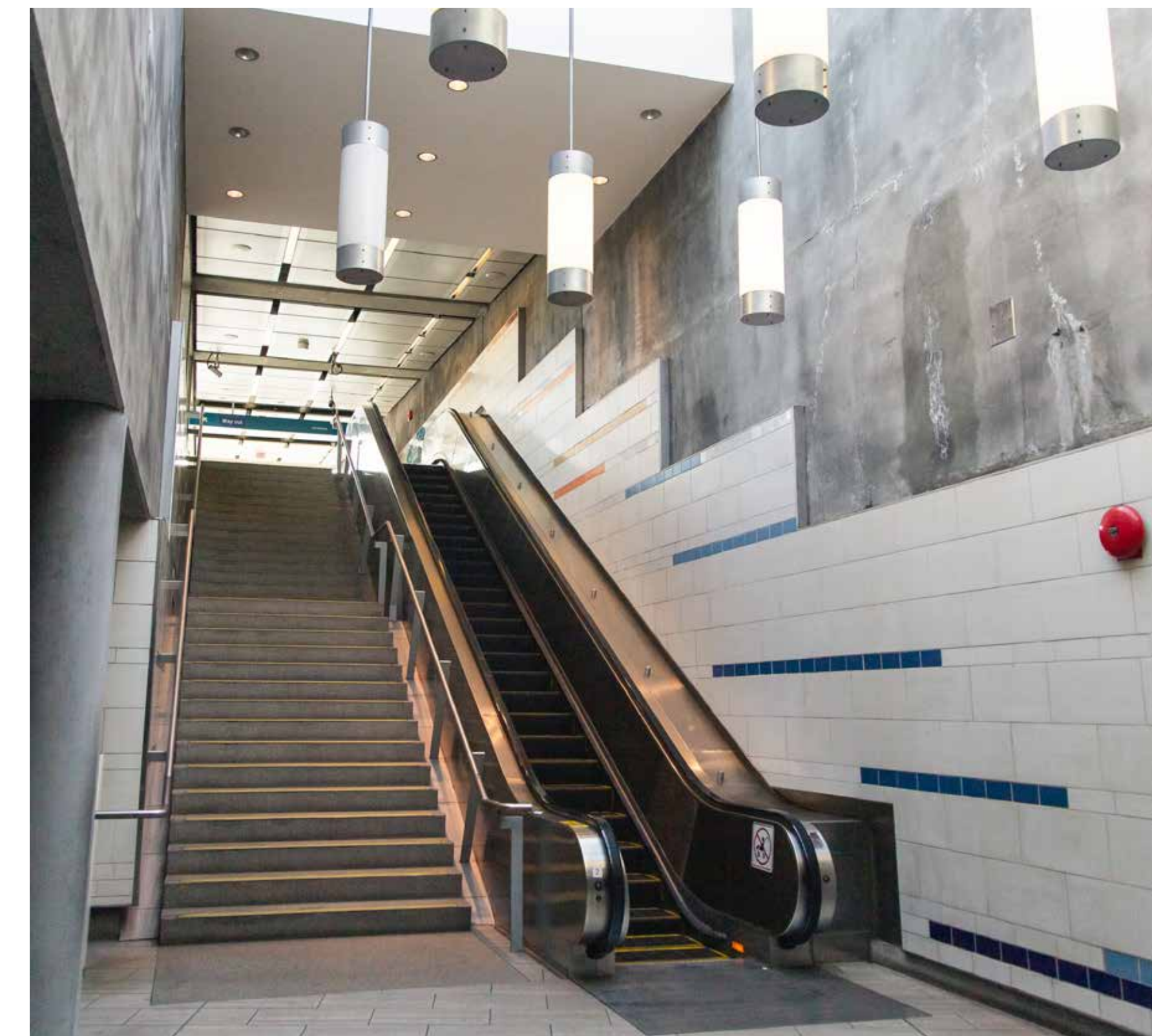
- › Street furniture
- › Bike parking

Stations will be designed with “Crime Prevention Through Environmental Design” principles, including:

- › Good lighting and an open, transparent design to maximize visibility and safety
- › Security cameras and emergency phones

Inside the stations, there will be:

- › Up and down escalators and elevators
- › Clear wayfinding and passenger information
- › Accessible surfaces, such as tactile strips
- › Public art
- › Capacity to accommodate future passenger growth



# Great Northern Way Station

Great Northern Way Station will be located on the east side of Thornton Street, just north of Great Northern Way. This station facilitates better access to Great Northern Way Campus including the Emily Carr University of Art and Design and the Centre for Digital Media, as well as the emerging creative economy hub in the False Creek Flats.

In this area, the line will have an elevated track and a portal where the line will then start to travel underground. Details about the design and construction activities will be determined by the contractor once selected in mid-2020, but we anticipate:

- › The removal of material excavated from the tunnel
- › Equipment and workers accessing the subway tunnel
- › Construction of the station entrance

During construction, the Project will reroute sections of the Central Valley Greenway while ensuring a safe cycling and walking detour.



Artist's renderings of preliminary conceptual station design. Final streetscape and potential development will be subject to the City of Vancouver's Broadway Plan.

# Mount Pleasant Station

Mount Pleasant Station will be located at the southwest corner of Broadway and Main Street, for connectivity to the restaurants and shops of Main Street and the growing business and residential community of Mount Pleasant.



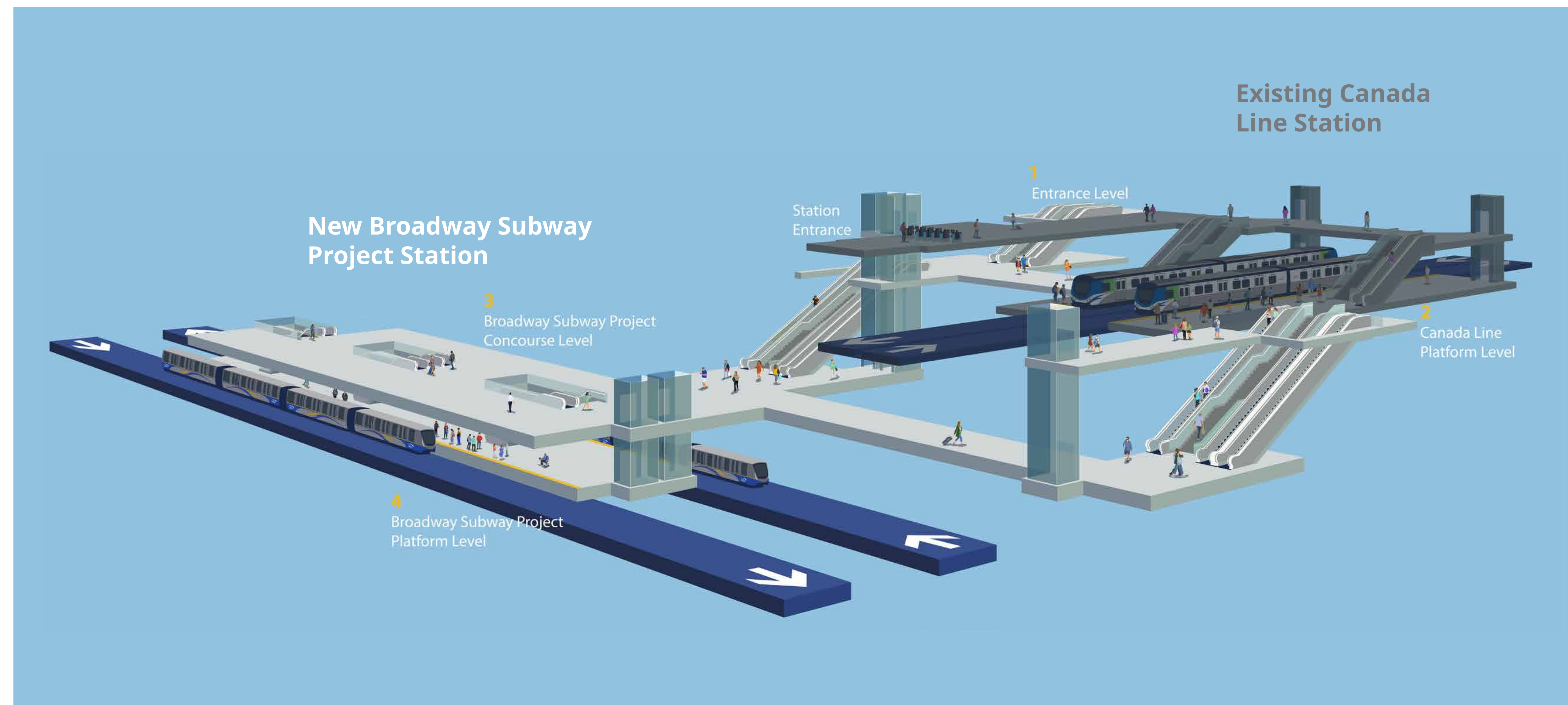
Artist's rendering of preliminary conceptual station design. Final streetscape and potential development will be subject to the City of Vancouver's Broadway Plan.

# Broadway–City Hall Station

Broadway–City Hall Station will use the existing entrance to the Canada Line at the southeast corner of Broadway and Cambie Street to ensure a convenient underground connection between the Millennium and Canada lines. The station will provide greater access to Vancouver City Hall, the Cambie Village area, and destinations along the Canada Line, including the Vancouver International Airport.

This will be an integrated station that will provide a seamless connection between the two lines.

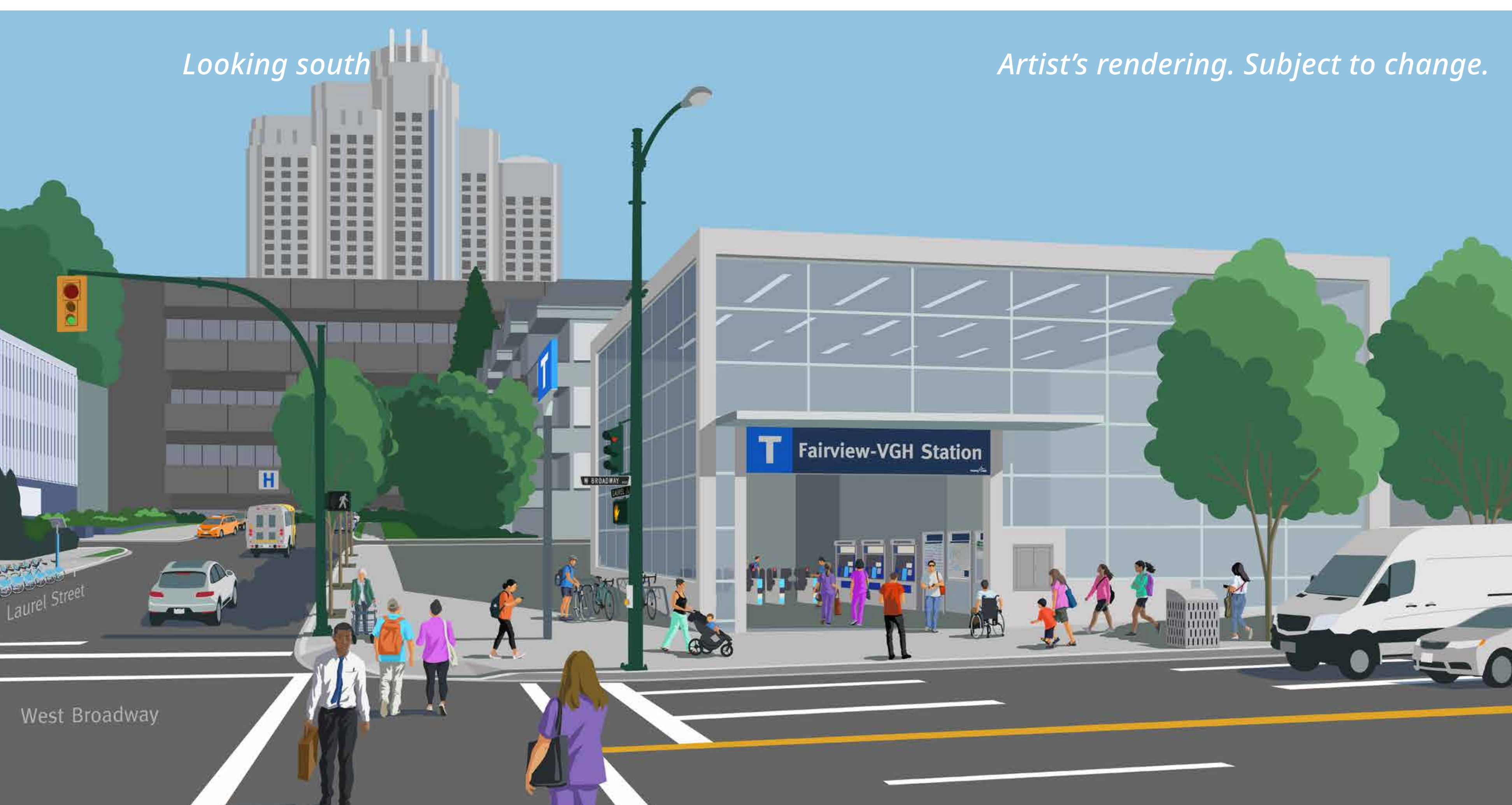
- › Passengers will be able to transfer within the same underground station.
- › The majority of transit riders currently using the street-level entrance are transferring to and from the 99 B-Line. Once the new subway replaces the 99 B-Line, approximately 75% of passengers will transfer underground.



*Artist's rendering of preliminary conceptual station design. Subject to change.*

# Fairview–VGH Station

Fairview–VGH Station will be located on the southwest corner of Broadway and Laurel Street, near Oak Street. This location will provide better access to Vancouver General Hospital and the rest of the medical district.



Artist's rendering of preliminary conceptual station design. Final streetscape and potential development will be subject to the City of Vancouver's Broadway Plan.

# South Granville Station

South Granville Station will be located on the northeast corner of Broadway and Granville Street near the South Granville, Burrard Slopes and Granville Island neighbourhoods. This station entrance will be integrated with a development that will happen concurrent with station construction.



Artist's rendering of preliminary conceptual station design. Final streetscape and development will be subject to the City of Vancouver's Broadway Plan.

# Arbutus Station

Arbutus Station and bus loop will be located at the northeast corner of Broadway and Arbutus Street, and will be adjacent to the Arbutus Greenway. This station and bus loop will connect passengers with 99 B-Line service between Arbutus and UBC as well as serve the people, retail, services and jobs in the area.

Details about design and construction activities will be determined by the contractor once selected in mid-2020, but we anticipate the Arbutus Station area will include:

- › Construction of the underground station, station entrance and bus loop
- › The removal of tunneling equipment

During construction, the Project will reroute sections of the Arbutus Greenway while ensuring a safe cycling and walking detour.

## Potential Future Extension to UBC

At Arbutus, the Broadway Subway Project will be designed to allow for a future extension to UBC.



Artist's renderings of preliminary conceptual station design. Final streetscape and potential development will be subject to the City of Vancouver's Broadway Plan.

# Construction

Construction is anticipated to begin in the fall of 2020, with the line in service in 2025. The majority of the line will be constructed using underground tunnelling methods. Street-level construction and excavation can be expected at locations where stations will be built, as well as at each end of the line.

## CONSTRUCTION STORAGE AND STAGING AREAS

The Project will use some properties adjacent to above-ground station locations for off-street work and storage areas to support construction of the underground stations. This will help keep construction activity off Broadway and adjacent streets as much as possible to mitigate disruption and manage safety for people on foot, wheels or bikes, and in vehicles.

## STATION CONSTRUCTION

Construction of each underground station is anticipated to take approximately two years, and is expected to include approximately one block of excavation, which will be covered to allow traffic to move through the corridor.

Details about construction timing and methods will be determined once we have selected a contractor, but at each station location, we anticipate the following construction activities:

- › Utility relocations
- › Construction staging and storage
- › Construction of underground station infrastructure such as the concrete structure, tracks, platforms, escalators and elevators
- › Construction of station entrances and outdoor plazas, including sidewalks, landscaping and other project completion works

## GREAT NORTHERN WAY TUNNEL PORTAL

Construction at the tunnel portal near Great Northern Way and Thornton Street will be active throughout the duration of construction.



The Broadway Subway Project is a Design, Build, Finance contract. Once the contractor is selected in mid-2020, we will have further details about construction methods and timing.

## Community Benefits Agreement

The Project will be built using a Community Benefits Agreement to help employ locals, women, Indigenous people and others traditionally underrepresented in the trades, and increase B.C.'s skilled and diverse workforce.

# Traffic Management

Ensuring effective traffic management during construction is a priority for the Broadway Subway Project.

- › **Pedestrian access**, including access for people of all abilities, will be maintained to local businesses, residences and medical services.
- › The 10th Avenue cycling route will be maintained. During construction, the Project will reroute sections of the Arbutus and Central Valley greenways to **safe cycling detour routes**.
- › **Access for vehicles, buses and emergency services** will be maintained to local businesses, residences and medical services.
- › **The number 9 and 99 bus service** will continue along Broadway throughout construction.
- › **Trolley bus routes 14, 16 and 17 will be relocated** to adjacent streets in 2020 to keep buses, people and traffic moving during construction.
- › Generally, there will be **three lanes of traffic in each direction** along Broadway, with **one lane dedicated solely for buses**.
- › In station construction areas, generally **two lanes of traffic will be maintained in each direction** for buses and other vehicles on Broadway, with the exception of Broadway at Main Street. The right-of-way on Broadway at Main Street is narrower with less room for station construction, which may result in more significant traffic impacts during underground station construction.

**Priority will be given to emergency vehicles and buses during construction.** Along Broadway, buses move 100,000 people per day, compared to 30,000 in cars.



100,000  
people/day



30,000  
people/day

# Parking Management

**Currently, parking is restricted on Broadway for about seven hours each weekday, in the morning and afternoon peak periods, with the curb lane dedicated to buses, taxis and cyclists. We anticipate this will be extended 24/7 to support the efficient movement of buses and all traffic throughout the construction period.**

Generally, there will be three lanes of traffic in each direction along Broadway, with one lane dedicated solely for buses. In station construction areas, generally two lanes of traffic will be maintained in each direction for buses and other vehicles on Broadway, with the exception of Broadway at Main Street.

The Broadway Subway Project is working with the City of Vancouver to develop a parking management plan to address residential and business parking needs.

- › A previous study suggests there is capacity on adjacent streets and in off-street parking lots to accommodate parking that currently occurs on Broadway.
- › The City is further studying parking between Yew Street and Kingsway along 8th Avenue, Broadway and 10th Avenue as well as all north-south streets in this area. This includes:
  - › parking on adjacent streets; and
  - › surface and underground parking lots.
- › The Project team will work with the City to engage with local businesses, residents and people who park in the area about their parking needs and alternatives. Adjustments to parking regulations, designations or times will be considered as needed.

- › Before and during construction, the Project team, with support from the City and TransLink, will work with local businesses, offices and the medical district to identify alternative transportation and local parking options. We will also help them communicate this information to their employees, customers and visitors.
- › We'll also make information available on the Broadway Subway Project website, on the City of Vancouver's VanConnect, social media channels and through wayfinding signage.

# Environmental and Socio-Economic Review

The Broadway Subway Project team undertook an Environmental and Socio-Economic Review (ESR) to understand potential environmental and socio-economic impacts and develop ways to mitigate the impacts.

This process provided opportunities for consultation with Indigenous groups, the public, stakeholders, and government agencies on the scope of the Review.

The scope of the ESR included:

- › Noise
- › Vibration
- › Air Quality/GHG
- › Contaminated Sites/Excavated Materials
- › Archaeological and Heritage Resources
- › Transportation and Access
- › Housing and Property
- › Electric and Magnetic Fields
- › Aquatic Resources
- › Vegetation and Wildlife

A key output of the ESR are measures that will be undertaken to address potential environmental and socio-economic effects during construction. Examples include:

- › Requirement for the Contractor to develop and implement a Construction Environmental Management Plan (CEMP), including specific measures to mitigate effects on environmental and socio-economic conditions.
- › The Ministry of Transportation and Infrastructure will provide oversight of CEMP implementation.

## Construction-related mitigation examples include:

- › Advance notice to residents identifying upcoming construction activities and timing.
- › Measures to manage dust and emissions from construction vehicles and equipment.
- › Site/activity specific measures to minimize construction noise and vibration, where possible.
- › Where feasible, measures to minimize light spill during construction.
- › Pre-construction vibration monitoring including building condition assessments.
- › Noise and vibration monitoring during construction.

# Early Works

Early works have been underway since February 2019 to prepare for subway construction which is anticipated to begin in the fall of 2020. Throughout the early works phase, you can expect to see construction activities related to trolley wire relocation, utility relocations and geotechnical investigations. The Project is providing advance notice to nearby residents and businesses for the planned early works.

## TROLLEY WIRE RELOCATION

Trolley bus routes 14, 16 and 17 will be relocated to adjacent streets before construction begins to keep Broadway safe for workers and the public while keeping buses, people and traffic moving as efficiently as possible during construction.

- › Trolley wires are being installed for these temporary bus detours along:
  - › Macdonald Street, between 4th Avenue and Broadway
  - › 12th Ave, between Arbutus and Granville Street, and Oak and Cambie Street
  - › Cambie Street, between Broadway and 12th Avenue

Changes to existing bus routes will be shared in advance of any service changes in 2020. For questions on current transit services, call TransLink Customer Information at 604-953-3333.

## ADVANCE UTILITY WORKS

To prepare for subway construction, some utilities near the station locations are being relocated. We are working with utility providers to complete this work. Examples of the utilities being relocated include electrical, telecommunications, water, gas and sewer.

## GEOTECHNICAL INVESTIGATION

The Project is also undertaking geotechnical investigations in certain areas along the alignment to better understand sub-surface conditions prior to the start of construction in fall 2020.

We thank everyone for their patience during early works construction. Please visit [engage.gov.bc.ca/broadwaysubway](https://engage.gov.bc.ca/broadwaysubway) for construction updates and information about how to contact us if you have any questions.

# Ongoing Community and Business Engagement

**The Broadway Subway Project team and the contractor will maximize predictability and manage disruption during construction as much as possible.**

A comprehensive communications and community and business relations program will be in place to:

- › Provide timely information about the Project, including construction, traffic and parking information.
- › Work with local businesses and residents to mitigate construction impacts where possible, and help manage issues as they arise.
- › Work with the community to promote alternative travel choices during construction.
- › Work with local businesses to maintain visibility and help customers access their shops and services.



## Communication tools will include:

- › A 24/7 information phone line
- › Email and mail updates
- › Regular updates on the Project website and social media
- › A Community Office is located at 1212 W Broadway

## BUSINESS SURVEY

From July to September 2019, the Broadway Subway Project went door-to-door and floor-to-floor along the Broadway Corridor with a business survey. The purpose of the survey was to learn more about business owners' and managers' communications, customer, parking, access and delivery needs and preferences so these can be considered in the overall construction and mitigation plan.

The information gathered, along with technical requirements, will inform the traffic and construction management and mitigation plans.

# Stay in Touch



Visit [engage.gov.bc.ca/broadwaysubway](https://engage.gov.bc.ca/broadwaysubway)



Email [broadwaysubway@gov.bc.ca](mailto:broadwaysubway@gov.bc.ca)



Drop by our **Community Office**

- › 1212 W Broadway  
Vancouver, BC V6H 3V1
- › Open Mondays, Wednesdays and Thursdays  
from 9 a.m. to 5 p.m.\*



Call our Community Office at **778-572-3544**



Find us on **social media**

- › Twitter @TranBC
- › Instagram @MinistryofTranBC
- › Facebook @TranBC

\*Once construction is underway, the Community Office will be open five days a week, from 9 a.m. to 5 p.m.

## Sign up for Project Updates

If you would like to receive Project updates, please visit our website at [engage.gov.bc.ca/broadwaysubway](https://engage.gov.bc.ca/broadwaysubway), call our Community Office at 778-572-3544 or e-mail [broadwaysubway@gov.bc.ca](mailto:broadwaysubway@gov.bc.ca).