



Broadway Subway Project

Oak-VGH Station Information Session

April 28, 2021



Purpose

- Share information about the method of construction and timing of the Broadway Subway Project around the future Oak-VGH Station
 - Safety for residents, businesses and visitors
 - Traffic, access, parking and construction information
 - Mitigation from site activities

Presentation Overview

1. Broadway at a Glance
2. Project Team and Partners
3. Our Commitments
4. Project Overview
5. Construction Sequence
6. Being a good neighbour
7. Questions and Comments

Broadway at a Glance

- More than 125,000 people living in the corridor
- Second largest employment centre in the province, with more than 105,000 jobs along the Broadway corridor
- 110,000 transit trips each day
- One of the busiest routes for goods movement in City of Vancouver
- Largest hospital (VGH) in Western Canada
- High-tech clusters drawing commuters for work and to centres for research, innovation and education

Project Team and Partners



transportation
investment
corporation





Our Commitments



Our Commitments to You

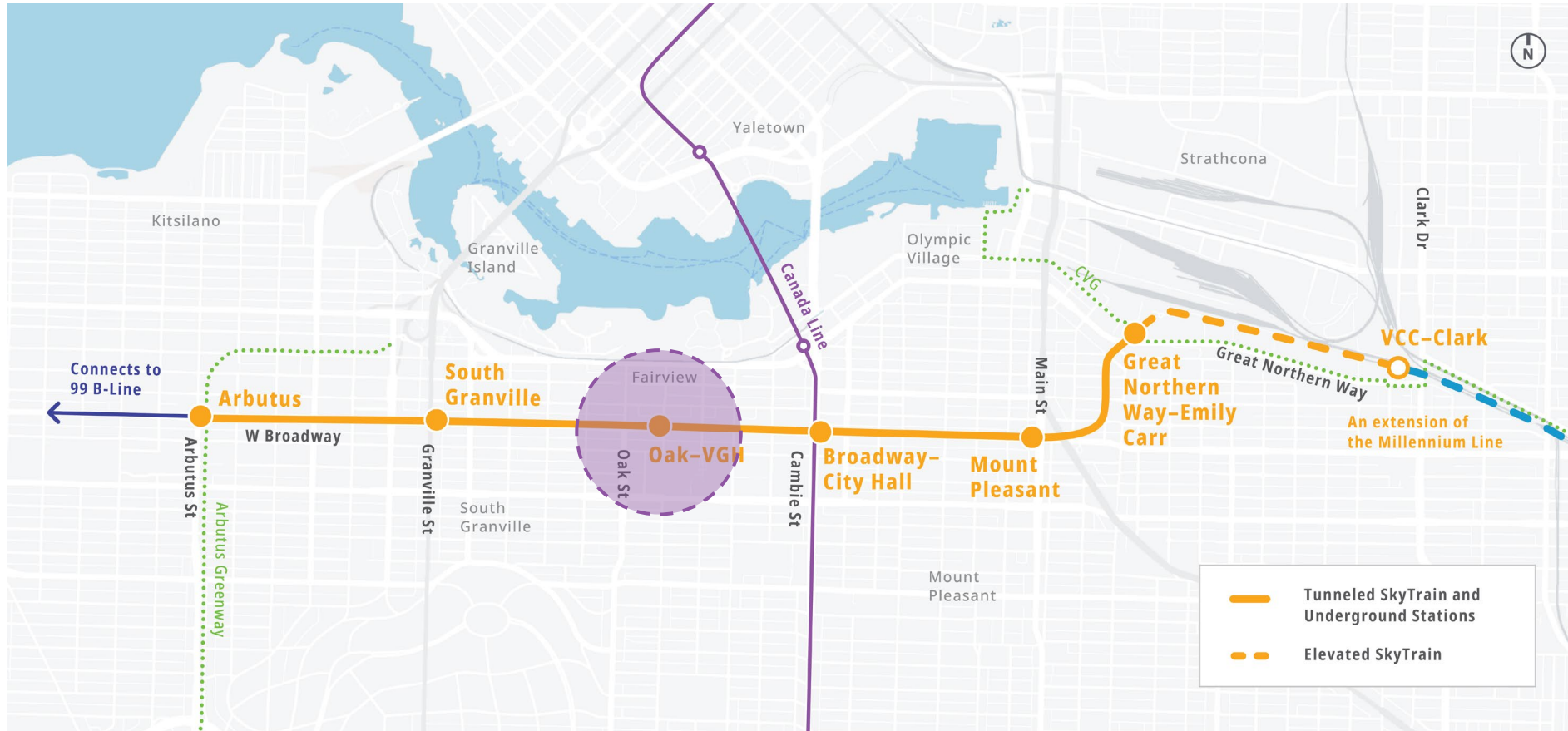
- Safety: For public and for workers
- Mobility: Buses, vehicles, pedestrians, cyclists, emergency vehicles
- Access: Businesses, residences, services
- Communicate transparently, clearly and consistently
- Provide regular updates and advanced notice of construction activities
- Mitigate construction impacts wherever possible
- Minimize transmission of dirt, dust, light, noise and vibration



Project Overview



Alignment Overview: 6 New Stations



Family of Stations



Great Northern Way - Emily Carr



Mount Pleasant



Broadway - City Hall



Oak - VGH

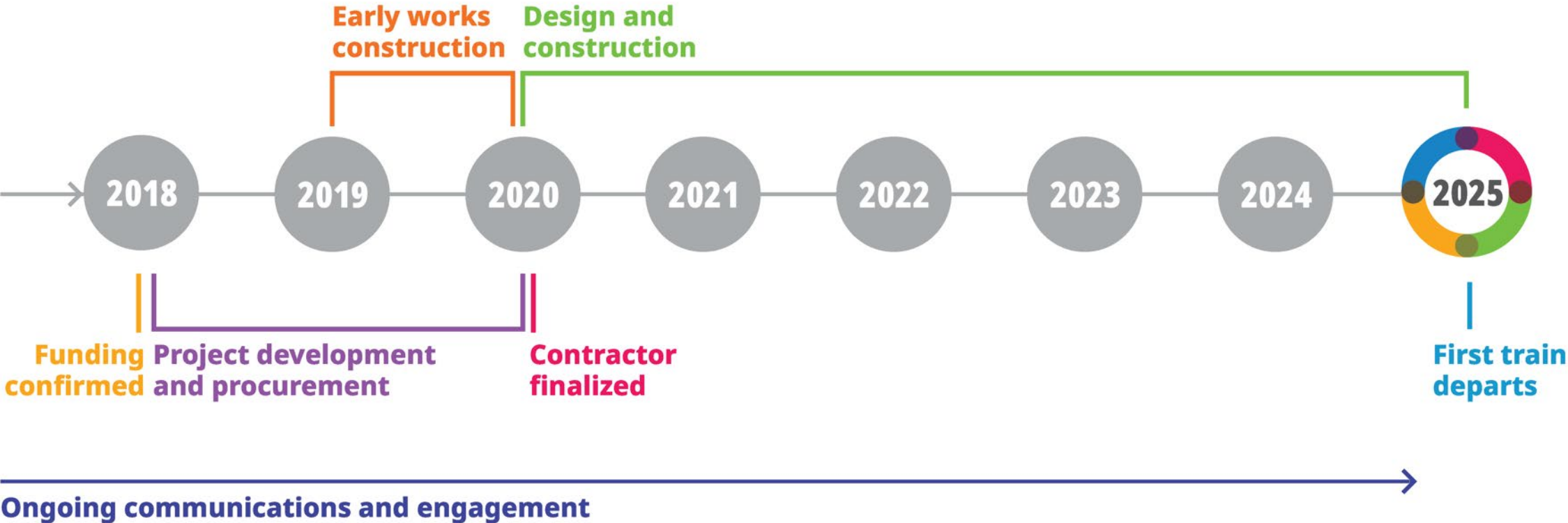


South Granville



Arbutus

Project Overall Schedule



Oak-VGH Station



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

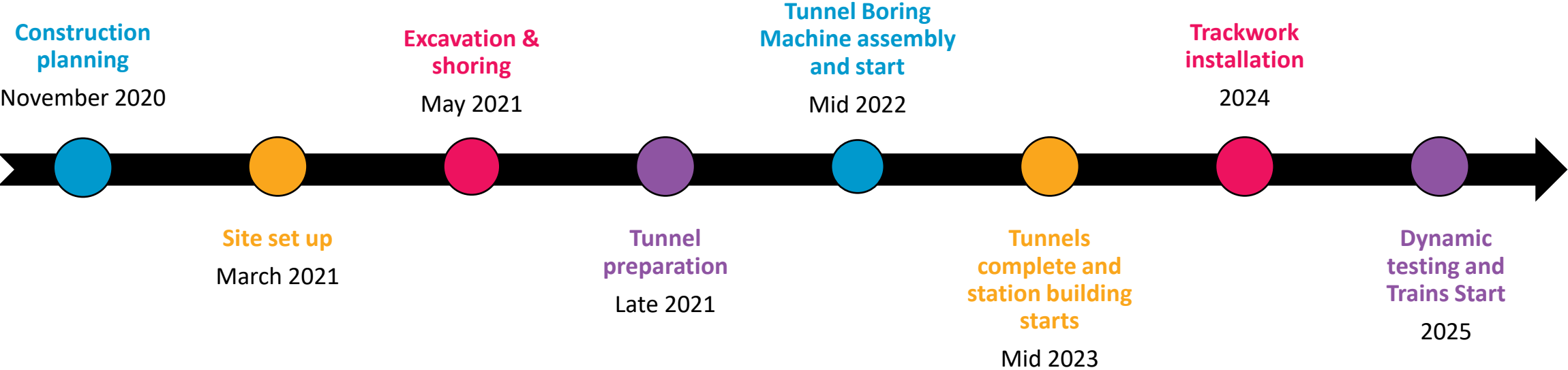
- Located on the southwest corner of Broadway and Laurel Street, near Oak Street
- Better access to Vancouver General Hospital and the rest of the medical district



Construction Sequence



Construction Sequence






Innovative Engineering

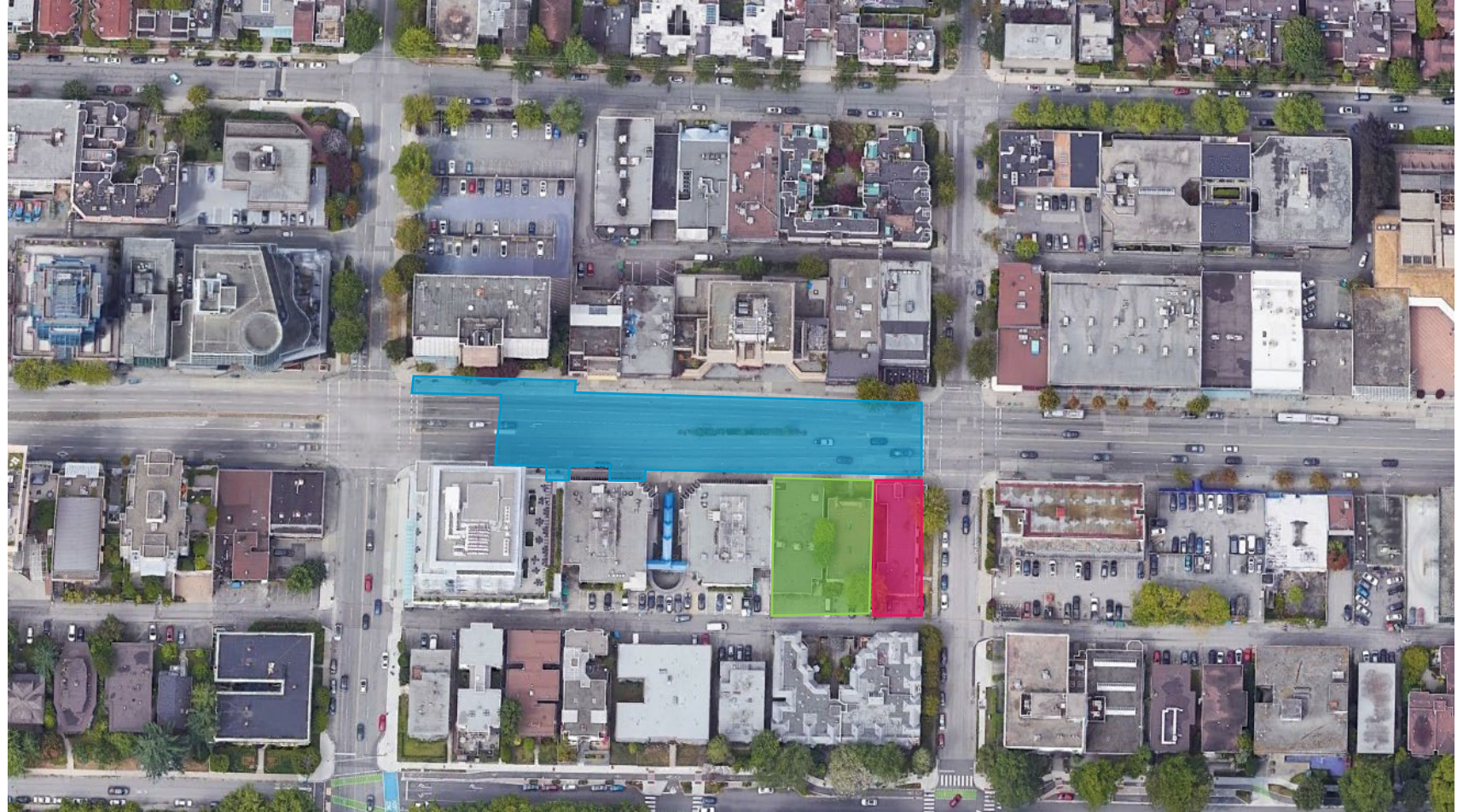
Implement a solution to manage traffic and construction in one of the busiest corridors in North America during construction

- Maintain traffic access throughout construction
- Minimize disruption to businesses, residents and visitors
- Continue access to public transit
- Maintain pedestrian access to residences, businesses, hospitals and health services

Station Location

Legend:

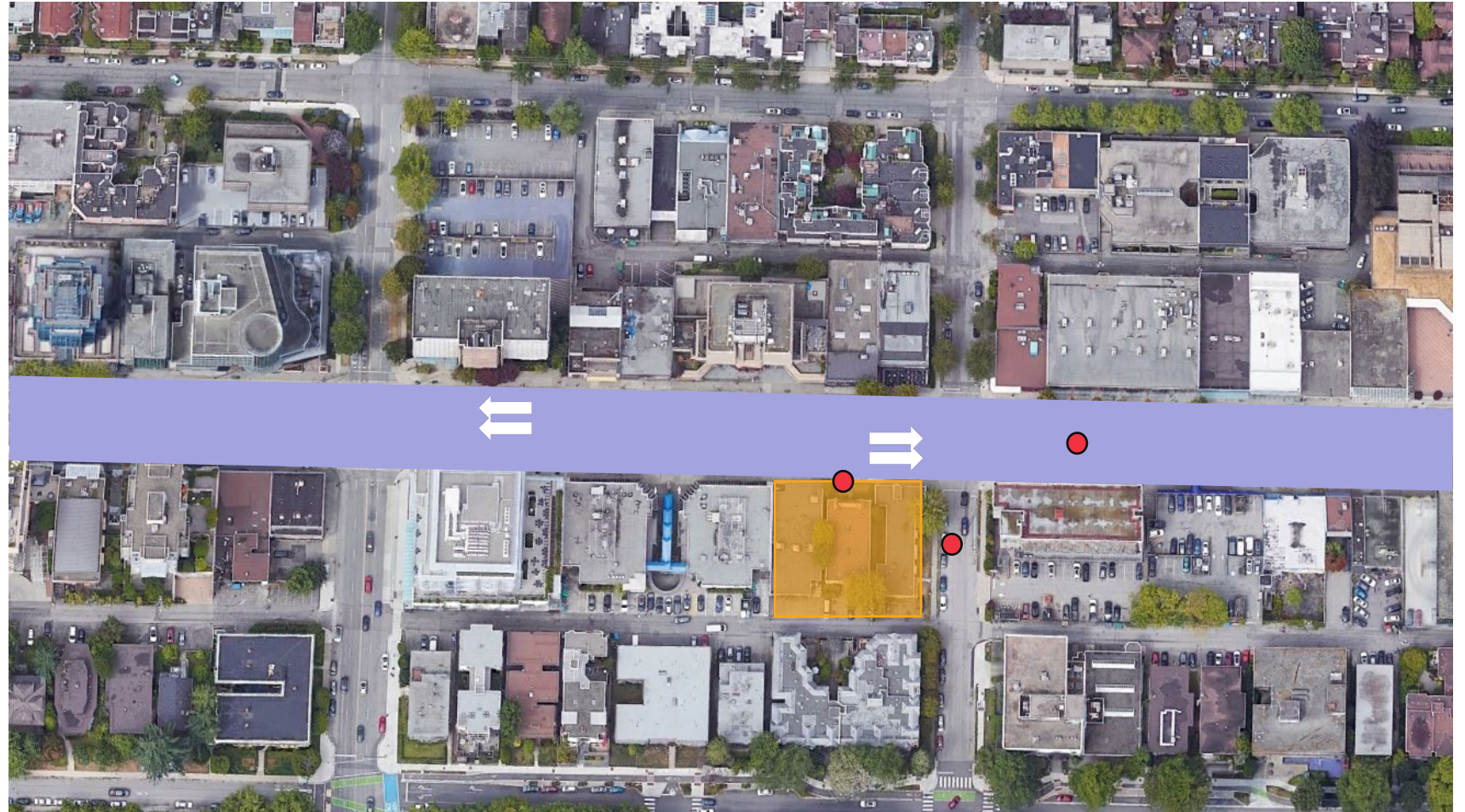
-  Underground Station Work Site
-  Station Entrance
-  Laydown Work Site



Geotechnical Investigation and Building Demolition Spring 2021

Legend:

- Open traffic flow
- Demolition zone
- Boreholes



- Geotechnical investigations collect information about the ground conditions that help inform our construction plans
- To prepare the site of the future station, building demolition began in March and finished in April.

Maintaining Traffic Flow along Broadway

- 4 lanes of traffic, two eastbound and two westbound, will be maintained while the traffic decking is installed and throughout construction
- Traffic signals modifications will be required at intersections to accommodate lane re-alignment
- Short-term lane closures for utility relocation



Drilling and Inserting Columns Summer 2021

Legend:

- Open traffic flow
- Traffic Deck Support System
- Work Site







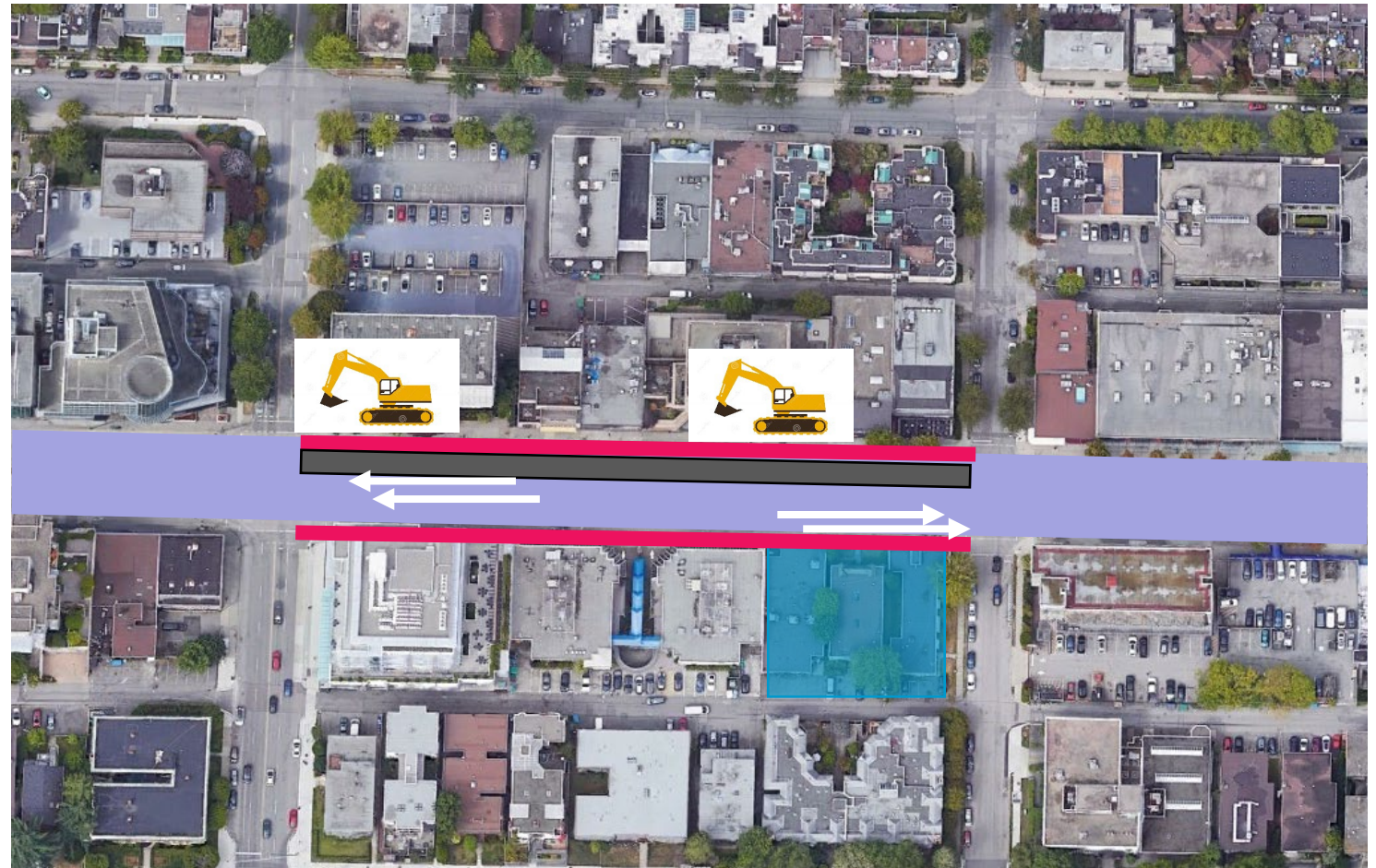
- Stage 1: Lanes closed to traffic on the south side of Broadway during drilling works on the south side
- Stage 2: Lanes closed to traffic on the north side of Broadway during drilling works on the north side

Excavation and Traffic Deck Installation

Summer/Fall 2021

Legend:

-  Traffic Deck Support System
-  Temporary traffic deck being built
-  Open traffic flow
-  Work Site







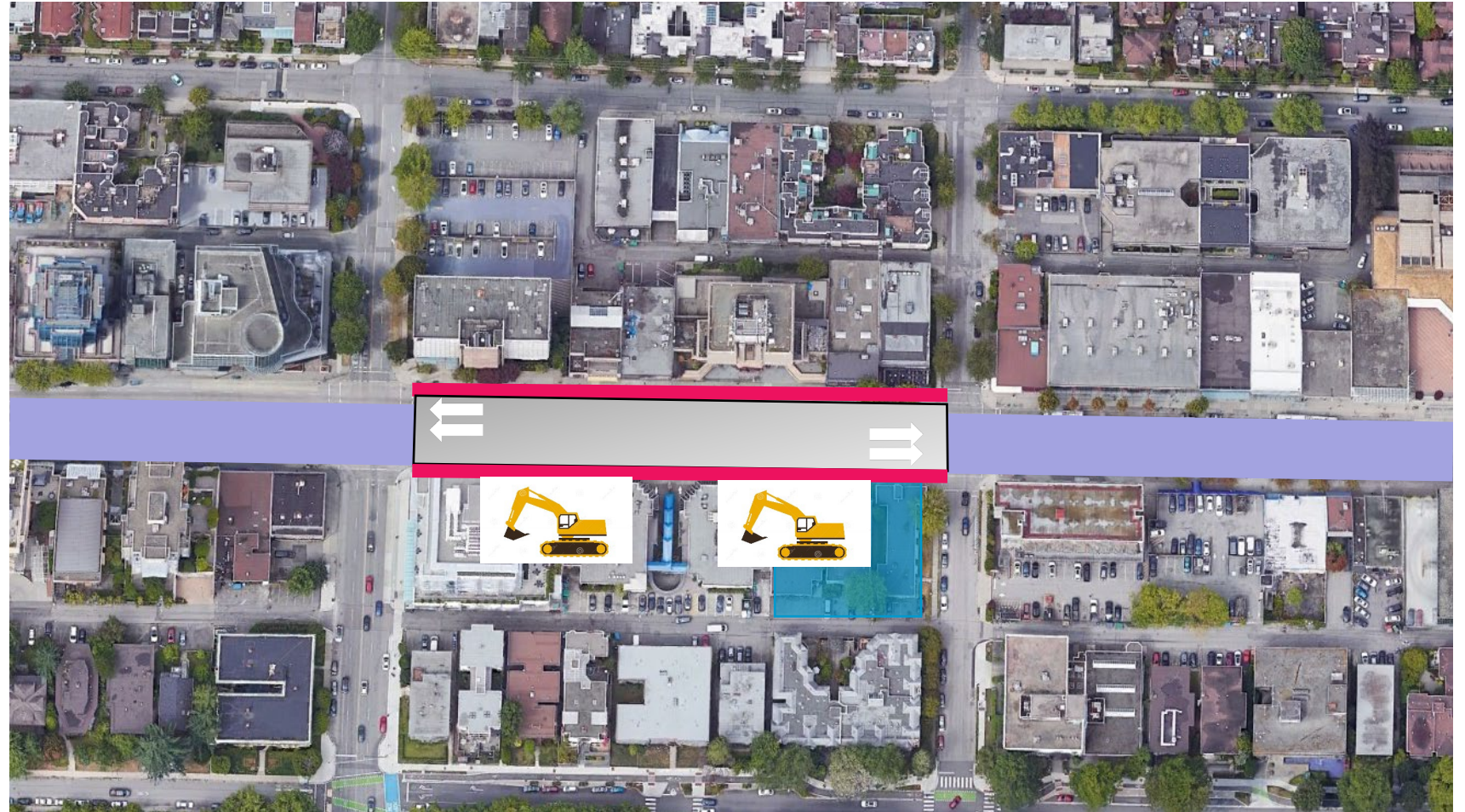
- Stage 3: North side lanes closed to traffic during excavation and as the traffic deck is being built on the north side

Excavation and Traffic Deck Completion

Fall 2021 – Fall 2022

Legend:

-  Traffic Deck Support System
-  Temporary traffic deck open
-  Open traffic flow
-  Work Site



- Stage 4 and 5: Four lanes of traffic are open, two in each direction
- Underground excavation continues

Preparing for the Tunnel Work Fall 2022

Legend:

- Underground Project Area
- Open traffic flow
- Work Site
- Tunnel boring machine (TBM)



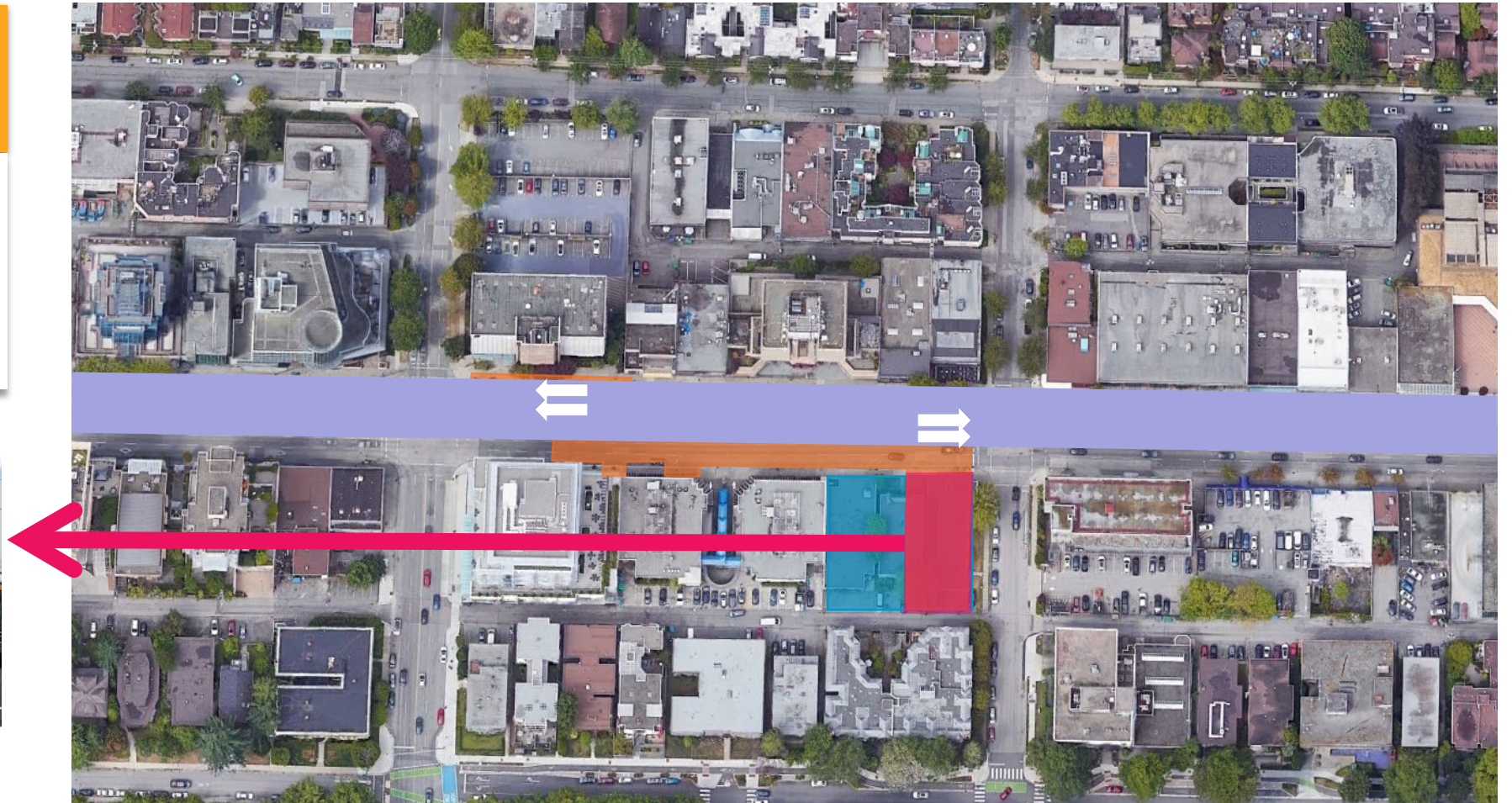
- Pour concrete to prepare the excavation for the tunnel boring machines (18m below street)
- TBMs arrive and traverse through station
- Traffic flows smoothly above this work on the traffic deck

Construct Underground Station and Entrance

2023 - 2024

Legend:



- Underground Project Work Area
- Open traffic flow
- Work Site
- Future Station Entrance

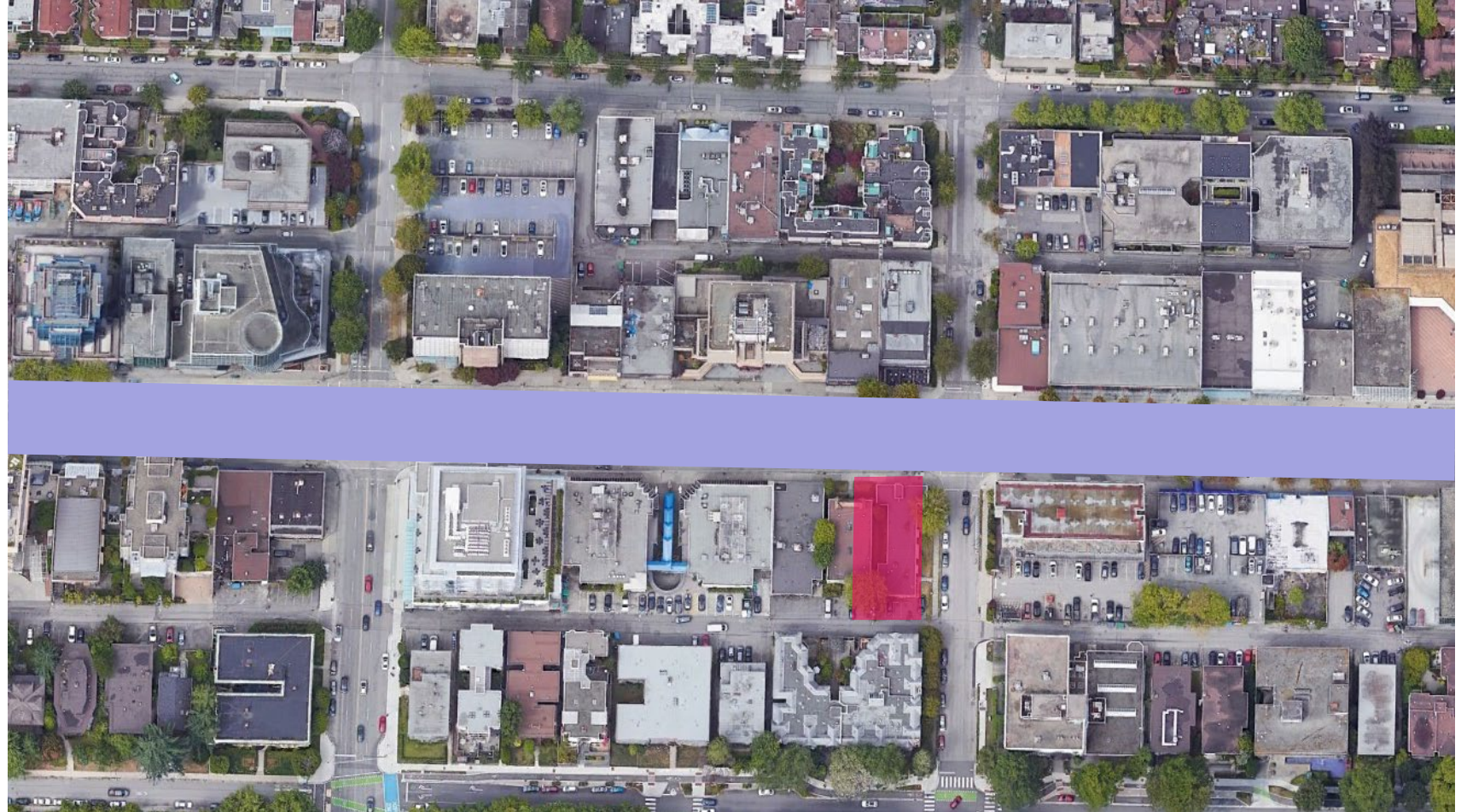


- Construction of the above ground station begins
- Below ground station construction continues

Restoration of the Surface 2024 - 2025

Legend:

-  Open traffic flow
-  Completed Station



- Backfill the underground station
- Removal of the traffic deck
- Repave road surface
- Detours removed and traffic returns to the new normal

Train Track Construction 2024



- Track construction works begin

Train Testing 2025



- Dynamic train testing along the tracks
- Trains operational



Traffic



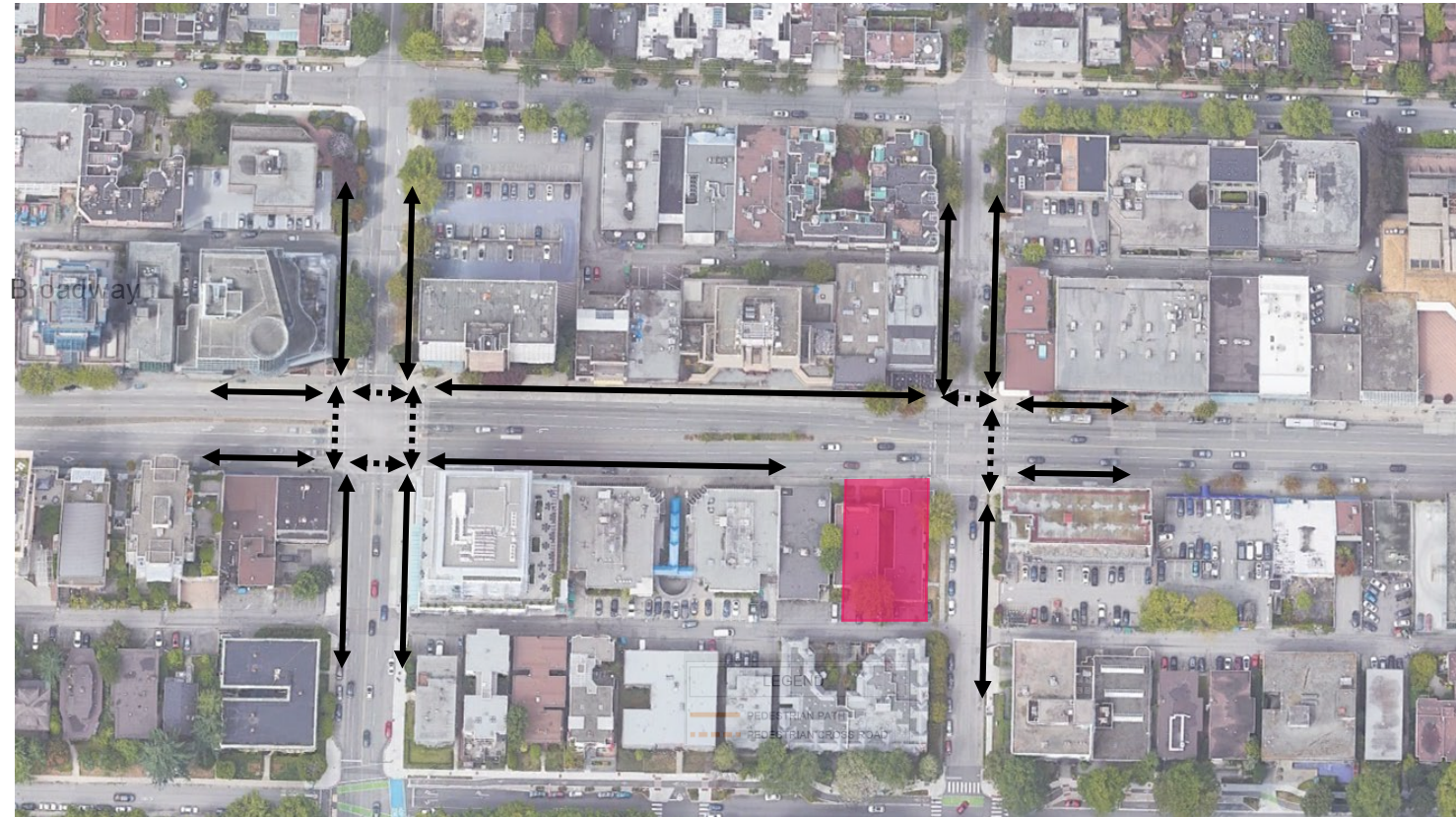
What to expect: Commuter Traffic

We are committed to mitigating impacts throughout construction

- 4 lanes of traffic, two eastbound and two westbound, will be operational while the traffic decking is installed and throughout construction
- Short-term lane closures for utility relocation works in surrounding areas
- Traffic signals modifications will be required at Oak St. and Laurel St. intersections to accommodate lane re-alignment
- Bus access will be maintained

What to expect: Pedestrians

- North sidewalk on Broadway will be maintained
- Sidewalks closer to Station entrance site will be closed
- Pedestrians will be detoured around the site with signage
- Flaggers will be available to direct pedestrians
- Business Wayfinding signs to inform pedestrians



Legend

- Pedestrian path
- - -→ Pedestrian crosswalk



Mitigation Measures



Vibration Management

Project will adhere to guidelines related to vibration from construction activities and monitor vibration levels

Activities that may result in some vibration include:

- Demolition of structures and pavement
- Shoring works for future station and tunnel
- Tunnel Boring
- Building the traffic deck

Noise Management

- Project will adhere to City of Vancouver noise bylaw levels
- Construction activities that generate the most noise will be carried out during core hours:
 - 07:00 a.m. to 8:00 p.m. Monday-Saturday
 - 09:00 a.m. to 8:00 p.m. Sunday/Statutory Holidays
- In 2021, we expect minimal noise during the night

Dust Control

- Water spray to reduce generation of fugitive dust during dry seasons
- Sweep and clean paved surfaces to remove tracking of sand and dirt

Light Management

- Task-specific lighting will be used, large area lighting will be minimized
- Physical barriers (temporary sound walls and site hoardings) will limit light spills
- Existing street lighting conditions will be maintained for traffic



Being a good neighbour



Ongoing Communications

The Project will maximize predictability and manage disruption as much as possible

- Timely information about construction, traffic and parking
- Notifications by email, newsletter, website and direct contact
- Clear signage at point of construction activities
- Where possible, mitigate construction impacts and manage issues as they arise
- Maintain business visibility and help customers access shops and services

Business Advisory Signage

- Comprehensive, temporary wayfinding signage program
- Ensures access and visibility during construction



Parking Map



Connect with us



24/7 Construction Line: 1-844-815-6114



broadwaysubway@gov.bc.ca



broadwaysubway.ca



Community Office: 1212 West Broadway
778-572-3544



**Dedicated Segment Manager and
Business/Community Relations Manager**
for day-to-day contact

Questions and Comments

