

Pattullo Bridge Replacement Project

Spring 2020 Project Overview



Artist's rendering of the new bridge.

The Pattullo Bridge Replacement Project is moving forward and this Project Overview provides updated information on the Project.

If you would like to receive more information, or talk to someone from the Project, please send us an email at PattulloBridgeProject@gov.bc.ca or call us at **778-379-2481**.

engage.gov.bc.ca/pattullobridge

Project Overview

The Pattullo Bridge is a key connection between the communities of Surrey and New Westminster. The new toll-free four-lane bridge will provide important improvements for everyone using the bridge, including people who are cycling, walking or driving, as well as communities on either side of the bridge.

The new bridge will provide:

- A safer crossing for all bridge users with modern, wider lanes, separated by a centre median barrier
- Dedicated walking and cycling paths, separated from traffic by a barrier on both sides of the bridge
- Better connections to, from and near the bridge

The new bridge is scheduled to open in fall 2023. The existing bridge will remain in use until the new bridge is open to traffic. Once the new bridge is open, the existing bridge will be removed.

The new bridge will be built to allow for potential future expansion to six lanes.

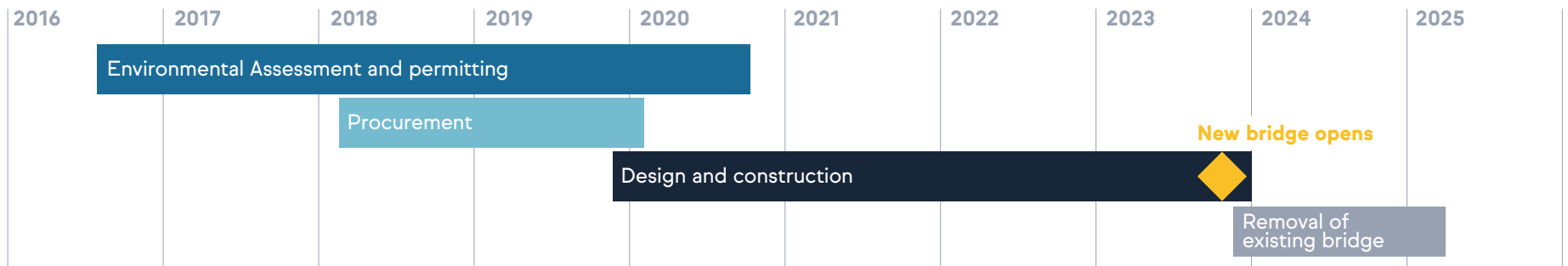
Project delivery

Transportation Investment Corporation, a provincial Crown corporation, is delivering and overseeing this \$1.377 billion project. The Project will be delivered under B.C.'s Community Benefits Agreement and the Project workforce will be provided by B.C. Infrastructure Benefits.

Fraser Crossing Partners has been selected to design and build the new bridge.

The Province will own and maintain the new bridge when complete.

Anticipated Project timeline



Project Need

The Pattullo Bridge opened more than 80 years ago, in 1937, and does not meet modern design standards.

The traffic lanes are too narrow and the bridge requires lane closures at night for safety. The current bridge has one narrow sidewalk with no protection from traffic.

A new bridge is needed to maintain this critical link between New Westminster and Surrey.



Photos of the existing Pattullo Bridge.

Work on the Project

The Pattullo Bridge Replacement Project will be delivered under the Province's Community Benefits Agreement (CBA).



B.C. Infrastructure Benefits (BCIB) is responsible for implementing the CBA for the Project and will be the employer for workers on the Project.

The CBA prioritizes hiring of locals, Indigenous peoples, women, people with disabilities and other underrepresented groups, and enables a culturally competent and respectful worksite. Through BCIB, this Project will grow and mobilize a safe, diverse and skilled workforce and increase opportunities for apprenticeships.

BCIB is responsible for implementing the CBA on this Project and will be the employer for all workers. To apply for work, sign up for e-news, or to learn more about BCIB, please visit www.bcib.ca.



New Bridge Design

The new bridge design includes two in-river piers, reduced from the six the current bridge has in the river.

This design, with one tower and fewer piers, results in:

- Reduced construction activities in the river
- Easier navigation of the river due to less infrastructure in the water
- Reduced in-river footprint with fewer direct impacts on aquatic habitat

The new design also accommodates the City of New Westminster's future waterfront greenway, and includes habitat development and site restoration in Surrey.

The new bridge will be located just north and upstream of the existing bridge, and will optimize the use of the existing road networks and travel patterns on both sides of the bridge.



Artist's rendering of the new bridge.

A Safer and More Reliable Crossing

The new bridge will improve safety and reliability for drivers, cyclists and walkers, as well as goods movement.

Key features of the new crossing include:

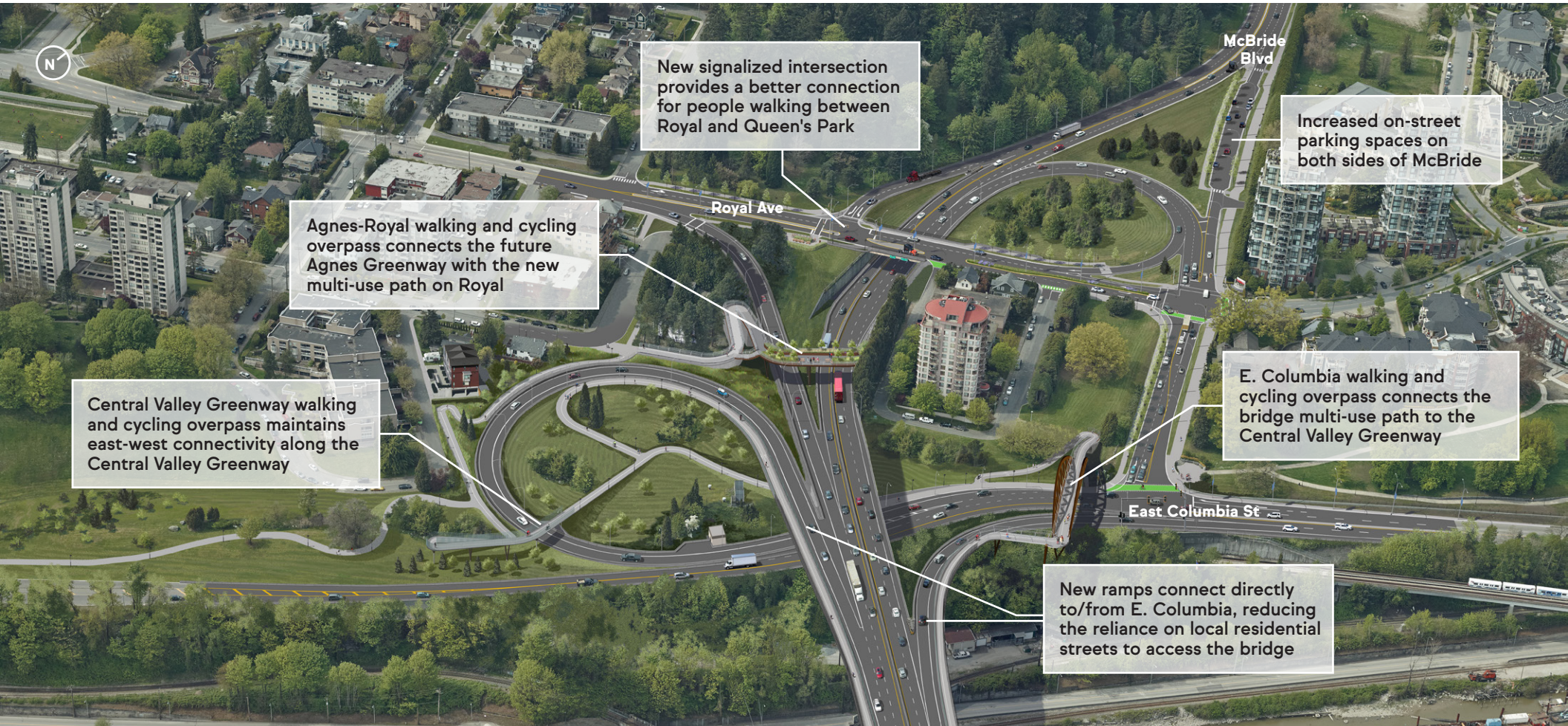
- Modern lane widths and a centre median barrier that will improve safety and ease of travel on this corridor
- Improved and more direct connections to regional road networks on either side of the bridge
- Wider walking and cycling paths on both sides of the bridge deck, separated from traffic by a barrier
- New high-quality walking and cycling paths connecting to the bridge, providing a safe alternate transportation mode



Artist's rendering of the new bridge deck.

Connections in New Westminster

The new bridge will continue to connect directly to McBride Boulevard and new direct ramps will connect the bridge to East Columbia Street. Improved walking and cycling paths will connect to the bridge and facilitate better east-west travel across the city.



New signalized intersection provides a better connection for people walking between Royal and Queen's Park

Increased on-street parking spaces on both sides of McBride

Agnes-Royal walking and cycling overpass connects the future Agnes Greenway with the new multi-use path on Royal

Central Valley Greenway walking and cycling overpass maintains east-west connectivity along the Central Valley Greenway

E. Columbia walking and cycling overpass connects the bridge multi-use path to the Central Valley Greenway

New ramps connect directly to/from E. Columbia, reducing the reliance on local residential streets to access the bridge

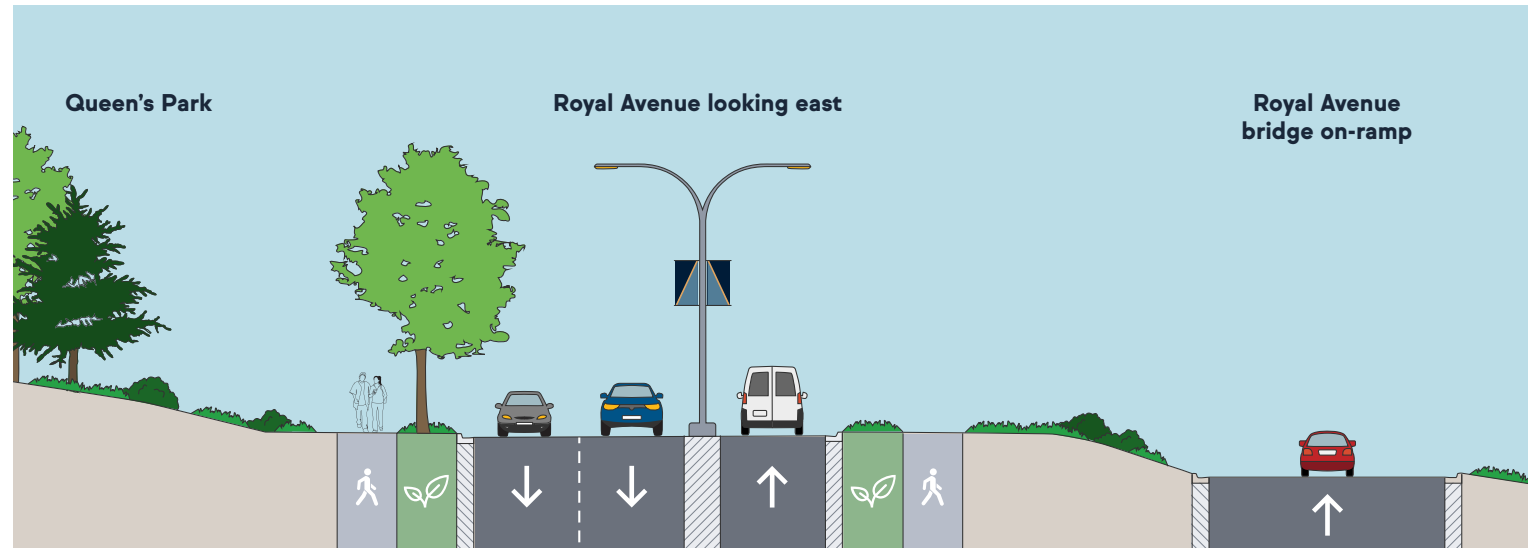
Artist's rendering of the New Westminster bridge connections.

Community Integration in New Westminster

Many urban design features are being incorporated into the Project, including boulevards, landscaping, street furniture, and wayfinding.

Urban Integration

- All multi-use paths will be separated from roads by barriers or boulevards
- Installation of medians and boulevards on McBride and Royal
- Road improvements and multi-use paths will meet urban design aesthetics
- Walking and cycling facilities will include bike racks, seating, wayfinding, and lighting



Example of streetscape looking east on Royal Avenue, between Dufferin Street and Bushby Street.

Walking and Cycling in New Westminster

Walking and cycling connections

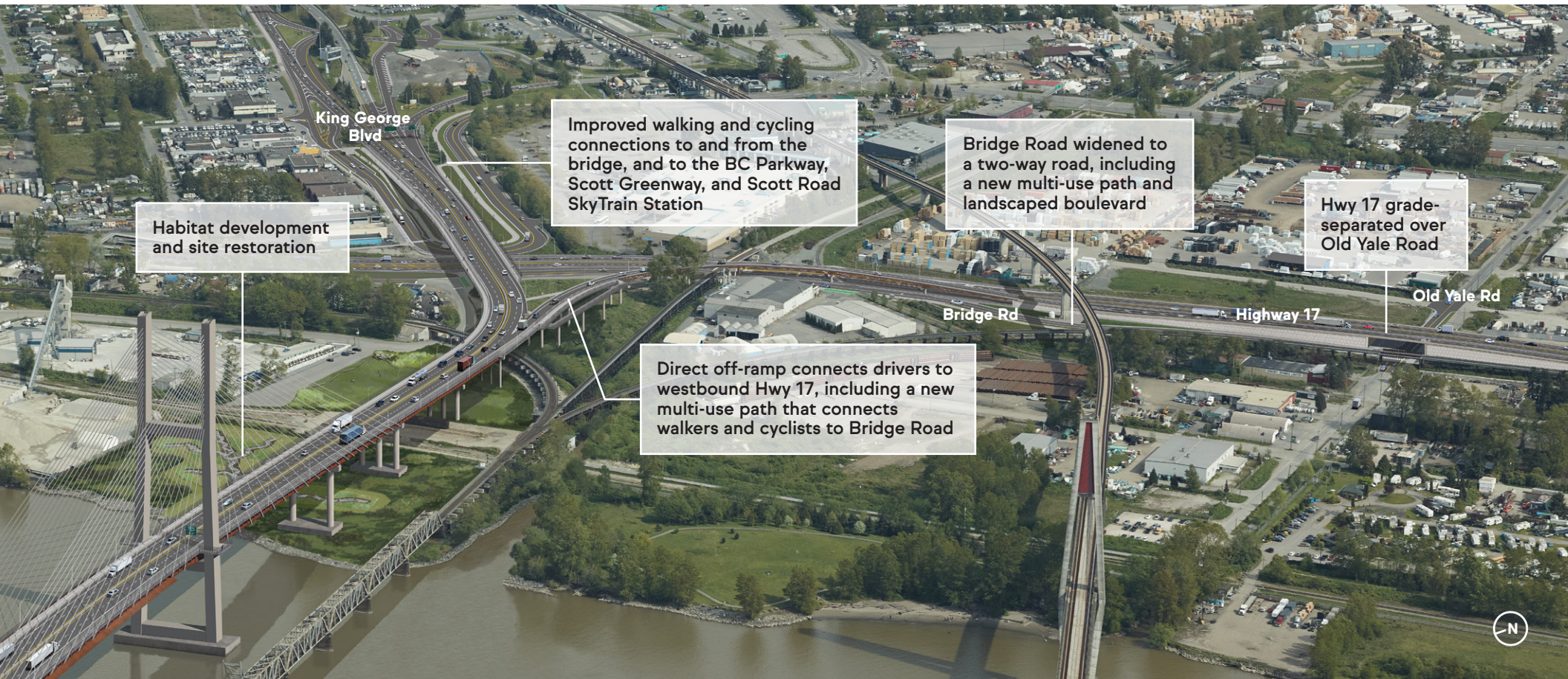
- **Agnes-Royal Overpass:** connection to and from the future Agnes Greenway with landscaping on a 10m wide bridge deck, as illustrated by the concept image to the right
- **East Columbia Street Overpass:** a tied-arch structure connecting the bridge multi-use path to the Central Valley Greenway
- **Central Valley Greenway (CVG) Overpass:** maintains east-west connection along the CVG across the E. Columbia Street on-ramp



Agnes-Royal Overpass: landscaped walking and cycling path over the bridge approach in New Westminster.

Connections in Surrey

The new bridge will continue to connect directly to King George Boulevard, and a new off-ramp will connect the bridge to westbound Highway 17. Improved walking and cycling paths will connect to the bridge and existing greenways.



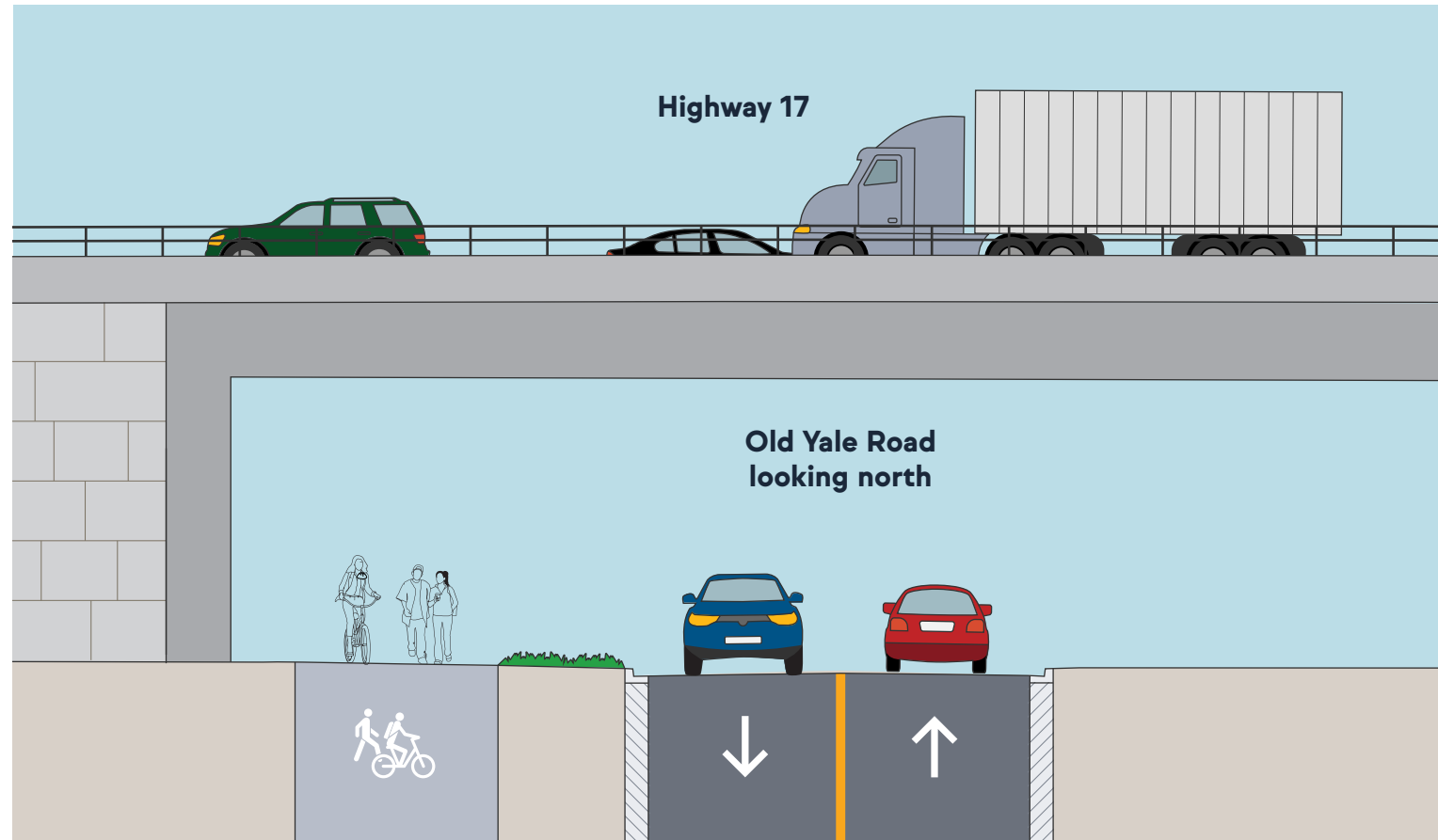
Artist's rendering of the Surrey bridge connections.

Highway 17 and Old Yale Road in Surrey

Highway 17 will be grade-separated over Old Yale Road, improving traffic flow on Highway 17.

Highway 17 and Old Yale Road

- Grade separation provides uninterrupted traffic flow along Highway 17
- Old Yale Road will intersect with the new two-way Bridge Road at a stop-controlled intersection
- The Scott Greenway on the west side of Old Yale Road will be maintained for pedestrian and cyclist access to and from Brownsville Bar Park, the waterfront, and to the new Bridge Road multi-use path



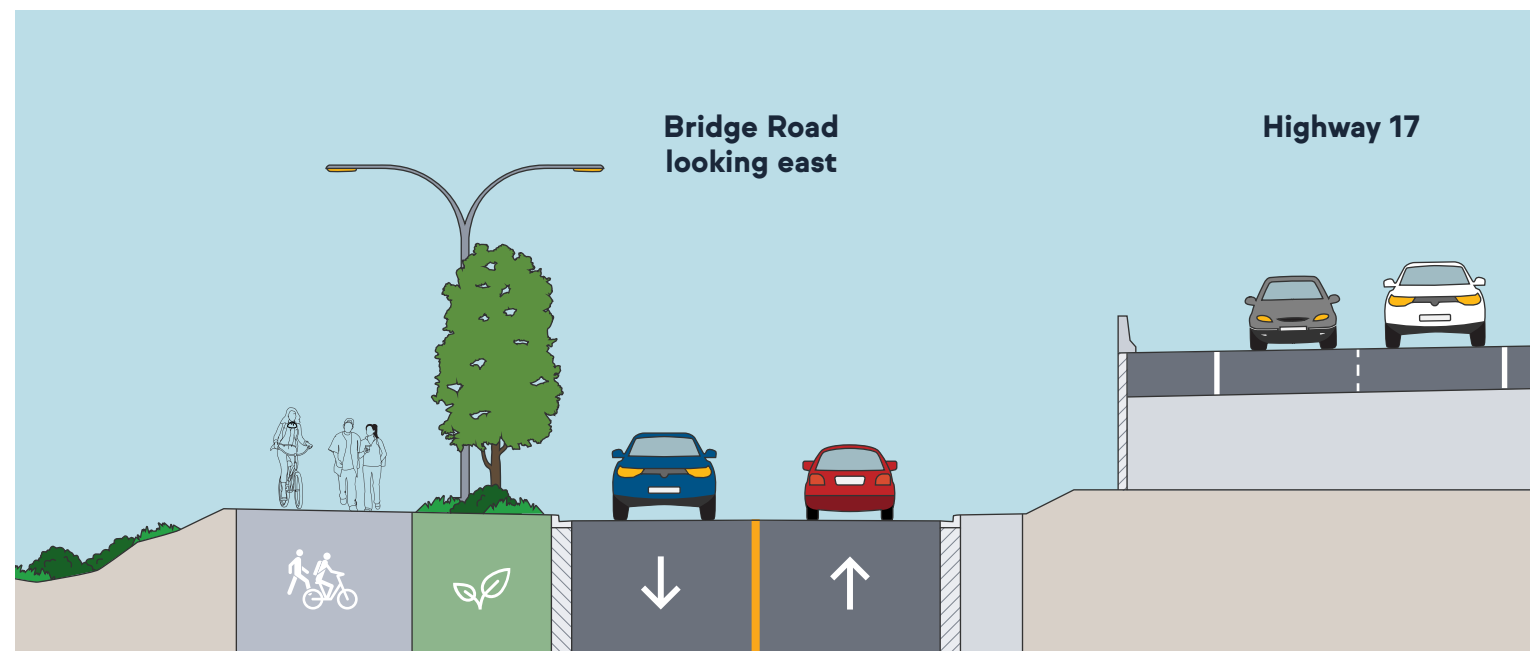
Cross-section illustration of Highway 17 grade-separated over Old Yale Road.

Bridge Road Upgrade in Surrey

Improved pedestrian and cyclist paths will facilitate easier connections on and off the bridge, and better connections to the Scott Road SkyTrain Station. Lighting and wayfinding will be improved for pedestrians and cyclists.

Bridge Road

- Bridge Road will be widened from its current one-way eastbound configuration to a two-way road
- This change will improve the connection for westbound vehicles from Bridge Road onto Old Yale Road
- A new multi-use path will provide dedicated space for pedestrians and cyclists, and will connect to the Scott Greenway and the new bridge



Cross-section illustration of two-way Bridge Road.

2020 Construction Activities

The following is an overview of construction activities planned for 2020. Construction activities and timing may shift as Project plans are finalized. Residents, businesses and the travelling public will be notified well in advance of construction beginning in their area.



New Westminster

Geotechnical investigation work to gather subsurface soil information

April through June 2020

Utility relocation work

Fall 2020 through 2021

On-land bridge foundation construction

Fall 2020 through 2021



Surrey

Geotechnical investigation work to gather subsurface soil information

March through June 2020

Utility relocation work in the area of Old Yale Road and Highway 17

Fall 2020

Ground improvement work in the area of Old Yale Road and Highway 17

Fall 2020 through 2021

On-land bridge foundation construction

Fall 2020 through 2021



Bridge

Construction of temporary access platforms for marine construction

Fall 2020

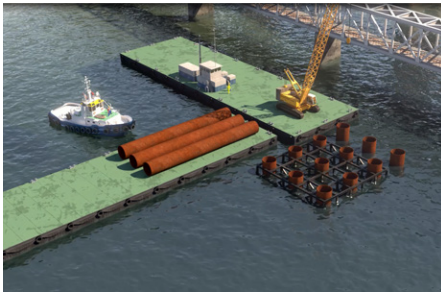
Foundation work on-shore and in-river for bridge piers

Fall 2020 into 2021

Bridge Construction Stages

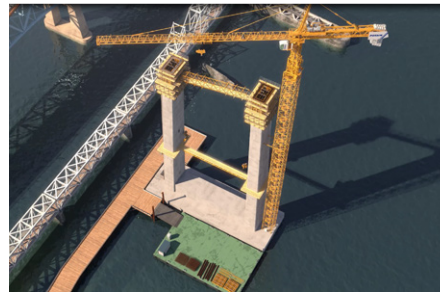
Bridge construction will take approximately three and a half years, including building the foundation, piers, and bridge deck.

1 Foundation for main in-river tower/ pier 2020



- In fall 2020, construction will begin on the main tower and in-river pier. This includes in-river foundation work, which requires pile driving.
- Crews will also build temporary fixed access platforms for marine construction. Barges will also be used to bring materials to site.

2 Main in-river tower/ pier 2021 - 2022



- Once foundation work is complete, crews will begin formwork and concrete pours for the tower.
- A tower crane will be used to achieve this work.
- The tower will be approximately 170 m high.
- Once the tower is progressing vertically, crews will begin cross beam construction.

3 Surrey and New Westminster bridge approaches Fall 2020 - 2023



- Construction of the bridge approaches will involve foundation work, including pile driving, and concrete formwork to form the piers.
- Steel girders will also be used to form the bridge deck and will be lifted into place using cranes.
- More detailed information related to the staging and timing of the construction of roadways and multi-use paths will be available closer to the start date.

4 Bridge deck construction 2022 - 2023



- Bridge deck construction will start in late 2021 and will be built using a balanced cantilever method as cable stays are installed.
- Bridge deck construction will advance in both directions.

Note: construction sequencing may shift as design and construction planning is still underway.

In-river Construction Considerations

The Project will meet a number of requirements related to in-river construction activities.

These are set out in the Environmental Assessment Certificate, Vancouver Fraser Port Authority Project and Environmental Review Permit, and Transport Canada and Fisheries and Oceans Canada permits, among others.

Considerations for instream works include:

- Fish and fish habitat
- Fisheries
- Indigenous use
- Marine users
- River hydraulics

Marine users will be notified of construction works through regular updates to the Project website, the NAVWARNS system, and information posted at boat launches and marinas.

Habitat development and site restoration

The area under the Surrey bridge approach will be restored to provide important habitat for Fraser River fish and wildlife species.



Indigenous Participation

Identified Indigenous Groups, as identified through the Environmental Assessment process, have been participating in the Project. The Project acknowledges the importance of continued involvement and contributions of Identified Indigenous Groups throughout the Project.

Ongoing consultation and engagement includes but is not limited to:

Cultural recognition

The Project is engaging with Identified Indigenous Groups to identify opportunities to incorporate Indigenous cultural recognition features into the Project.

Protecting Indigenous cultural resources

The Project is working to identify and manage potential impacts to cultural resources in the Project area with participation from Identified Indigenous Groups.

Fish and fish habitat

Identified Indigenous Groups participated in the design and implementation of an eulachon study and the implementation of a sturgeon study. Fish habitat and habitat design under the Surrey bridge approach is being developed in consultation with the groups.

Fishing and other marine use

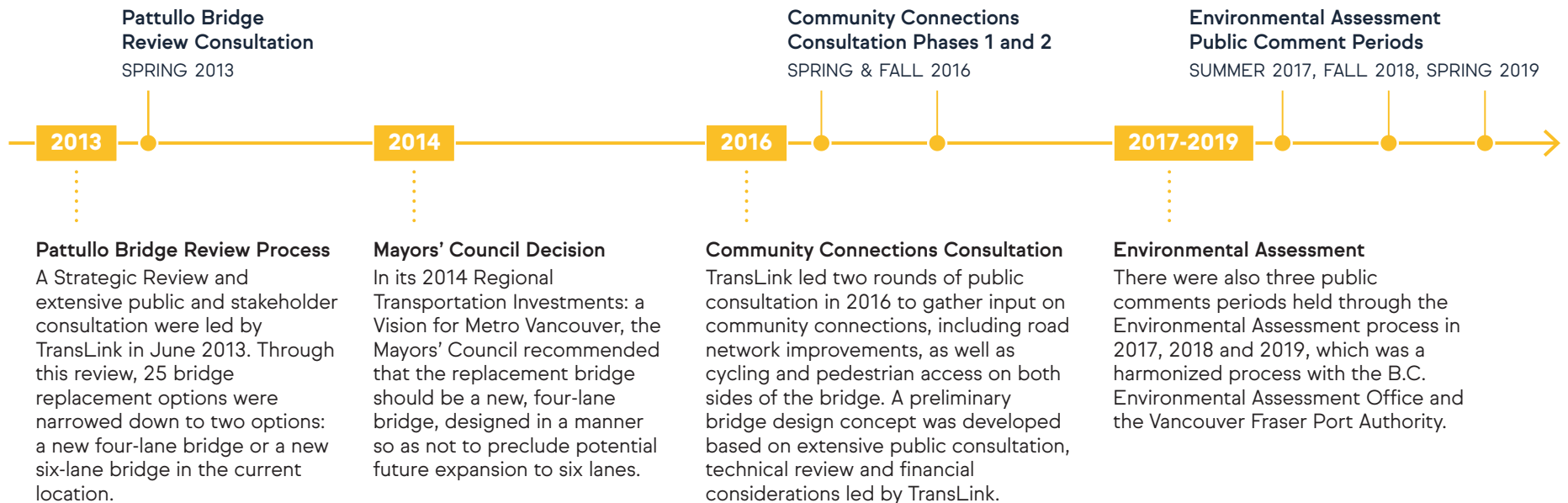
The Project has established processes to consult with Indigenous marine users to hear interests and concerns, and to identify and manage potential impacts related to Indigenous access to, and use of, the Fraser River.



Image of a White Sturgeon.

Public Engagement

Replacement options for the aging Pattullo Bridge have undergone broad and extensive review, and there have been multiple opportunities for public input.



Ongoing engagement

In addition, the Project has engaged with the following groups throughout Project development:

- Local municipalities
- Local stakeholder groups
- Regional agencies
- Railway companies
- Utility companies

Ongoing Construction Communications and Engagement

The Pattullo Bridge Replacement Project team and Fraser Crossing Partners will maximize predictability and manage disruption during construction as much as possible.

Traffic management during construction

- Traffic on the existing Pattullo Bridge will be maintained during construction of the new bridge.
- Access to businesses and residences will be maintained throughout construction; however, in some instances there may be temporary disruptions which will be communicated in advance.
- The Project team will communicate traffic pattern changes through:
 - Regular updates to the Project website
 - Emailed traffic bulletins
 - Road signage for vehicles, pedestrians and cyclists
 - Traffic media

Communications and community relations

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

- Provide timely information about the Project, including construction and traffic information; and
- Work with local businesses and residents to mitigate construction impacts where possible, and help manage issues as they arise.

To contact the Project :



For Project information, please call: **778-379-2481**

For 24/7 construction information, please call: **1-844-815-6149**



Email
PattulloBridgeProject@gov.bc.ca



Visit
engage.gov.bc.ca/pattullobridge



For information about working on the Project, please visit **bcib.ca**



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