



**PATTULLO BRIDGE
REPLACEMENT**



transportation
investment
corporation

Monthly Status Report

Reporting Period
April 2024

1. Introduction

1.1 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 driving, cycling, or walking, 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 lanes, 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 2024. 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. Additional information and updates about the Project can be found on the Project's website <https://www.pattullobridgereplacement.ca>.

1.2 Project Delivery

Transportation Investment Corporation (TI Corp), a provincial Crown corporation, is delivering and overseeing this \$1.377 billion Project. The Project is being delivered under B.C.'s Community Benefits Agreement and the Project workforce is being provided by B.C. Infrastructure Benefits Inc.

The Fraser Crossing Project Corporation (Contractor) has been selected to design and build the new bridge. The Province will own and maintain the new bridge when it is complete.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

1.3 Project Goals








Measure specific data to confirm the following Project goals and objectives are being met in accordance with the Project's **Performance Measurement Plan**:

1. Provide a **structurally sound bridge crossing** to maintain a critical local and regional connection;
2. **Improve safety for all users** with modern lane widths, road curvature, centre median barrier and separated pedestrian and cycling lanes; and
3. **Improve connectivity, reliability and modal choice** while supporting environmental objectives.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

2. Project Update

2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within the approved scope.		<ul style="list-style-type: none"> The Project includes a new four-lane bridge, improved connections to, from and near the bridge and dedicated walking and cycling lanes and is on track to be delivered within the approved scope.
	Schedule	Project delivered within the approved schedule.		<ul style="list-style-type: none"> Schedule-related risks are being monitored. The Project has been subjected to significant challenges including supply chain issues. The contractor is actively working to mitigate impacts.
	Budget	Project delivered within the approved budget of \$1.377 billion.		<ul style="list-style-type: none"> Project spending for the month of April 2024 was \$10.3 million. Total Project spending to date is \$905.7 million. Budget related risks and issues, including inflationary and schedule pressures, are being monitored. The Project is currently within budget.
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.		<ul style="list-style-type: none"> Monitored the implementation of the health and safety program and provided on-site monitoring. There have been seven (7) lost time injuries on the Project to date. Lost Time Injury Frequency Rate (LTIFR) for the Project is 0.59 which is less than the WorkSafeBC 2022 rate of 1.7* for heavy construction (Bridge, Overpass, or Viaduct Construction or Repair). <i>* Injury rate data reflects Large Employer 100+ Person Years employer size.</i>
	Quality	Implement an effective Quality Management System.		<ul style="list-style-type: none"> Continued monitoring the structural steel fabrication, including steel component testing. Continued to review quality record packages of fabricated components.
	Environmental	Ensure our work is performed in an environmentally responsible manner.		<ul style="list-style-type: none"> Shared Fisheries Act Authorization (FAA) for existing bridge demolition with First Nations for consultation. Continued discussions between the contractor, Project, and environmental regulators on environmental performance, demolition environmental management plans and permitting.
	Archaeology	Ensure the work is performed in a manner that meets the standards of the Heritage Conservation Act.		<ul style="list-style-type: none"> Continued to progress the archaeological field program in collaboration with First Nations.

Partners/Stakeholders	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.	●	<ul style="list-style-type: none"> Continued to closely monitor final design progress. Continued S1 tower construction and started stay cable installation. Continued balanced cantilever girder erection on main bridge. Prepared N1 pier cap forms and falsework system for installation. Continued north approach girder erection from N2 to N3. Continued south approach girder erection from S6 to S7 and S6 to SR1. Continued substructure works at various pier locations. Continued Old Yale Overpass deck construction and approach embankments. Continued King George Boulevard retaining walls and embankment. Continued precast deck panel fabrication for main bridge and started south approach deck panel fabrication. Continued monitoring structural steel fabrication and shipments, including re-inspection activities. Continued daily site monitoring and reporting.
	Community Benefits	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	●	<ul style="list-style-type: none"> Ongoing coordination and collaboration with BCIB to implement the CBA. Ongoing discussions regarding current and future Project workforce.
	First Nations	Continue to build and maintain a positive collaborative working relationship.	●	<ul style="list-style-type: none"> Continued to engage with First Nations in relation to Project permitting, habitat offsetting planning, bridge demolition planning, Project participation, and opportunities. Continued consultation on mitigation measures, in accordance with permit conditions of the Environmental Assessment Certificate (EAC) and the Vancouver Fraser Port Authority's Project and Environmental Review (PER) Project permit.
	Third Parties	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	<ul style="list-style-type: none"> Working closely with municipalities on traffic management, roadway conditions and construction activities. Continued handover/transfer agreement discussions regarding the existing bridge with TransLink. Working closely with utilities and railway companies on design and construction activities and obtaining required permits.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> Continued engagement with local businesses, stakeholders, residents, and the public. Ongoing website and social media updates.

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Managing day to day operations

3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> • Completion of three phases of public consultation (2013-2016) • Executed Design-Build-Finance Agreement (February 2020) • Project Overview Report (May 2020) • Project Report (July 2020)
	Environmental	<ul style="list-style-type: none"> • Environmental Assessment Certificate (EAC) (April 2019) • Port and Environmental Review (PER) Permit (May 2019) • Canadian Navigable Waters Act Approval (November 2020) • Water Sustainability Act (WSA) Change Approval (November 2020) • Water Sustainability Act Short Term Use Approval (December 2020) • Fisheries Act Authorization (February 2021) and subsequent amendments (January 2022, November 2022 and February 2024)
	Community Benefits	<ul style="list-style-type: none"> • Community Benefits Agreement (July 2018) • BCIB Health and Safety Program (May 2019) • BCIB-AIRCC Enabling Agreement Executed (July 2019) • Project Definition: Pattullo Bridge Replacement Project (July 2019) BCIB-Contractor Agreement Executed (February 2020) • BCIB-Subcontractor Agreement Executed (February 2020)
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> • CN Master Agreement (May 2019) • City of Surrey Municipal Agreement (September 2019) • City of New Westminster Municipal Agreement (September 2019) • Metro Vancouver Accommodation Agreement (December 2019) • Construction and land licenses acquired from Vancouver Fraser Port Authority (VFPA); VFPA demolition license finalized (December 2019) • CP Grade Separation Construction Agreement (January 2020) • Shaw Telecommunications Facilities Relocation Agreement (March 2020) • Zayo Telecommunications Facilities Relocation Agreement (March 2020) • CP Overpass Crossing and Maintenance Agreement (December 2020) • TransLink Consent Agreement for in-river works (December 2020) • MOTI-FortisBC Energy Inc. Pipeline Removal Agreement (February 2023) • MOTI-TransLink Pattullo Bridge Decommissioning Agreement (May 2023)

4. Monthly Highlights and Three Month Lookahead

4.1 Safety

Scope:	<ul style="list-style-type: none"> Establish Occupational Health and Safety (OH&S) Project delivery objectives and performance measures. Manage Project OH&S activities. Monitor relevant OH&S performance metrics. Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.
Monthly Highlights:	<ul style="list-style-type: none"> Continued to receive health and safety updates and incident reports from BCIB and the contractor. 28 incidents were documented in the health and safety log for the month. None of the incidents resulted in a Lost Time Injury. Lost Time Injury Frequency Rate (LTIFR) for the Project is 0.59 which is less than the WorkSafeBC 2022 rate of 1.7* for heavy construction (Bridge, Overpass, or Viaduct Construction or Repair). <p><i>* Injury rate data reflects Large Employer 100+ Person Years employer size.</i></p>
Three Month Lookahead:	<ul style="list-style-type: none"> Update Safe Work plans and Safe Job procedures as required. Continue to deliver training on the Job Hazard Assessment and Risk Mitigation Plan. Conduct OH&S audits as and when required.

4.2 Quality

Scope:	<ul style="list-style-type: none"> Establish quality management Project objectives and performance measures. Manage Project quality management activities. Monitor relevant quality management performance metrics.
Monthly Highlights:	<ul style="list-style-type: none"> Continued review and discussion on quality records for the Project. Continued structural steel fabrication activities, including auditing and steel and weld testing. 13 Non-Conformity Reports (NCRs) were initiated in the month related to bearings, concrete works, and pre-cast works. To date there have been a total of 464 NCRs (72 open and pending, two (2) void, and 390 closed). The established Project quality control programs continued to review testing results and identify any steel and structural component fabrication contractual non-compliances for remediation/resolution.
Three Month Lookahead:	<ul style="list-style-type: none"> Continue steel fabrication quality monitoring, surveillance auditing, and initiate inspections and tests as required. Continue review of the contractor's inspection and test plans and associated records. Continue review of quality-related submittals.

4.3 Environmental

<p>Scope:</p>	<ul style="list-style-type: none"> • Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port's Project and Environmental Review (PER) permit as well as other necessary environmental permits. • Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process and Management Plans. • Oversee outstanding environmental permits, permit amendments and associated environmental studies, monitoring, and compliance processes for existing bridge demolition. • Supporting consultation on permit related matters including Project FAA offsetting commitments.
<p>Monthly Highlights:</p>	<ul style="list-style-type: none"> • Ongoing conversations between the contractor, Province, and environmental regulators on the Project's environmental requirements. • Progressed Cumberland Point industrial site assessments and met with Metro Vancouver regarding anticipated Project demolition offsetting requirements. Continued planning and consultation on qiqéyt offsetting site. • 68 environmental non-compliances were reported for the month of April by the Independent Environmental Monitor in relation to spill prevention, hazardous materials management, non-hazardous waste management, and surface water and erosion and sediment control. The majority of the non-compliances were minor, and spills were cleaned up appropriately. • Continued meetings between the Project team, the contractor and VFPA to improve Project environmental compliance requirements. • Sent the Fisheries Act Authorization (FAA) for Demolition application to the First Nations for review and comment prior to submitting to the Department of Fisheries and Oceans. • Sent the Marine Demolition Communications Plan and Marine Demolition Staging Plan to VFPA for review.
<p>Three Month Lookahead:</p>	<ul style="list-style-type: none"> • Continue to liaise with regulators on follow-up actions and commitments arising from the required Project permits and approvals. • Continue working with the contractor and environmental regulators to ensure the Project's permitting requirements are met. • Continue to develop offsetting detailed design at qiqéyt and consult on the conceptual design for the Cumberland Point industrial site. • Continue working towards a long-term access agreement with Metro Vancouver for the Cumberland Point industrial site in New Westminster. • Oversee ongoing development of the Demolition Environmental Management Plan, WSA submission and other Environmental Management Plans and permitting updates. • Receive First Nations' input on the FAA application for bridge demolition and facilitate workshops to address feedback. • Continue to progress the Project lands amendment with EAO for bridge demolition and other minor scopes of work outside of the Certified Project Area. • Continue to support consultation efforts for existing bridge demolition, FAA, and Project offsetting.

4.4 Archaeology

Scope:	<ul style="list-style-type: none"> Managing, directing, and undertaking all archaeological work, including Archaeology Impact Assessment (AIA), Systematic Data Recovery (SDR), and archaeological monitoring in consultation with First Nations.
Monthly Highlights:	<ul style="list-style-type: none"> Scheduled archeological monitoring across Project sites in both New Westminster and Surrey as required. Working to complete regulatory AIA and investigation reports.
Three Month Lookahead:	<ul style="list-style-type: none"> Continue archaeological monitoring and archaeological investigations as required. Continue to liaise with regulators on follow-up actions and commitments from required Project permits and approvals. Finalize preparations for the existing bridge demolition AIA. Plan archaeological support for habitat offsetting.

4.5 Design and Construction

Scope:	<ul style="list-style-type: none"> Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project. Review the final bridge design including roadways, associated structures, drainage, and utilities. Compliance reviews during construction. Provide oversight of contractor on-site activities throughout the Project's lifecycle. Management of the Project's schedule, scope, and progress.
Monthly Highlights:	<ul style="list-style-type: none"> Continued progress on the remaining final design drawings and Issued For Construction (IFC) drawings. Completed north approach girder erection from N2 to the temporary support tower, started girder erection from N2 to the N3 abutment. Continued preparing for N1 pier cap construction. Advanced S1 tower construction; 32 of 33 segments completed on the west and east legs, one of three wall pours completed for segment 33 on both east and west legs. Continued main bridge balanced cantilever construction; installed remaining Segment 1 back span and main span precast deck panels, and prepared for concrete pours. Started stay cable installation on main bridge with two of 40 pairs installed. Advanced substructure works for on-land piers S3, SR1, SR2, SR3 in Surrey. Advanced on-land multi-use path substructure works in New Westminster and Surrey. Completed south approach girder erection from S6 to S7, started girder erection from S6 to SR1, and continued preparing for S3 to S4 and S5 to S6 girder erection. Continued coordination with CN Rail for S5 to S6 girder erection. Continued to advance King George Boulevard – 112 Ave retaining walls and approach embankment construction. Continued Old Yale Road Overpass Phase 1 deck construction, and Phase 1 east and west approach embankment construction.
Three Month Lookahead:	<ul style="list-style-type: none"> Complete monthly riverbed monitoring surveys. Continue reviewing final design packages. Continue site monitoring at piers and other locations in New Westminster and Surrey. Continue monitoring main bridge construction and structural steel erection.

	<ul style="list-style-type: none"> • Continue monitoring off-site precast panel fabrication activities for the main bridge. • Start monitoring off-site precast panel fabrication activities for north and south approaches. • Begin detailed landscaping plan for the Project.
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4.6 First Nations

Scope:	<ul style="list-style-type: none"> • Consultation and engagement with First Nations as set out in the EAC. • Engagement with First Nations on Project opportunities and benefits including Project agreements and contracting opportunities.
Monthly Highlights:	<ul style="list-style-type: none"> • Facilitation of working group meetings with First Nations. • Continued to progress Indigenous Art and Cultural Recognition opportunities through a phased approach.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue meetings with First Nations on archaeology, habitat offsetting, the planting plan, environmental non-compliances and bridge demolition planning. • Continue meetings with the Indigenous Marine Users Working Group.

4.7 Third Parties

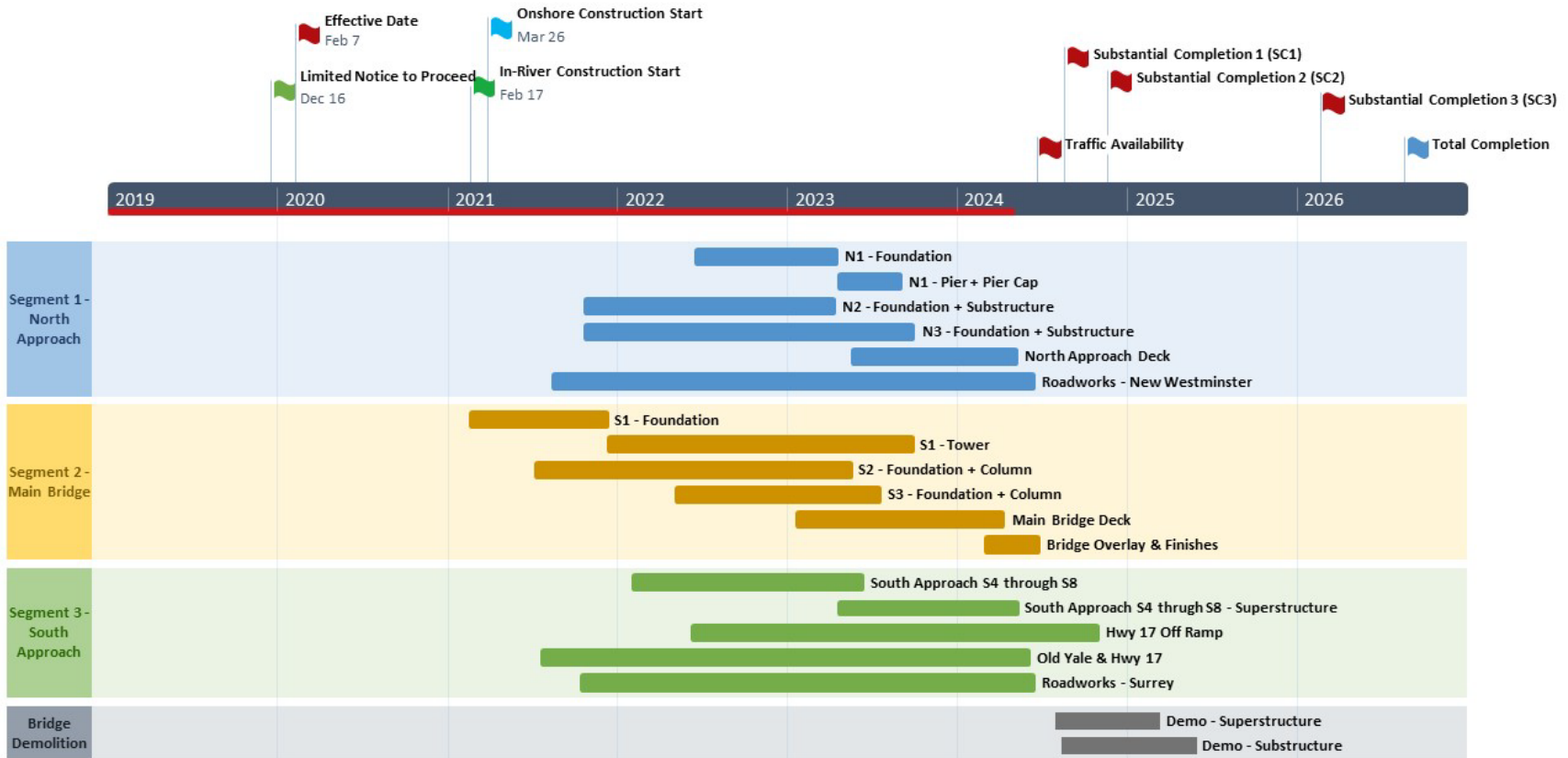
Scope:	<ul style="list-style-type: none"> • Engage with municipalities (cities of New Westminster and Surrey) for the Project implementation phase. • Municipal Agreements. • Railway Construction and Crossing Agreements. • Utility Agreements. • TransLink Agreement.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued meeting biweekly with both the City of Surrey and the City of New Westminster and continued to work closely with both cities on design and construction coordination and traffic management activities. • Continued working closely with utilities and railway companies on design and construction activities. • Continued coordination with CN Rail, Canadian Pacific Kansas City (CPKC), and Metro Vancouver for pier N1 to pier N2 girder erection, and with CN for main bridge girder erection over CN Rail Bridge swing span, and over CN Trestle between piers S5 and S6 on south approach. • Continued coordination with Southern Railway of British Columbia to execute crossing agreements along the new south exit ramp, Highway 17, and Bridge Road corridor. • The contractor initiated the design for repairing the riprap at pier 5 of the CN Rail Bridge, in coordination with CN and the Province.
Three Month Lookahead:	<ul style="list-style-type: none"> • Continue to engage with municipalities on the Project’s design and construction plans. • Continue to work with railways to finalize agreements. • Complete the design for Rail Bridge Pier 5 riprap repair.

4.8 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> • Manage ongoing public and stakeholder communications and engagement.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued to provide updates regarding Project work including notification distribution to residents, businesses, and stakeholders. Notifications were posted to the website, emailed to local resident and business associations, and sent to the email subscription list. • Communicated traffic pattern changes, including construction of the Highway 17 / Old Yale Road overpass in Surrey, and the extension of the Columbia Street closure for girder installation in New Westminster. • Continued outreach regarding upcoming construction activities and traffic pattern changes in New Westminister including meetings with a resident association and door-to-door business visits along Columbia Street and Front Street Mews regarding the Columbia Street closure. • Outreach with businesses in the project area in Surrey regarding traffic pattern changes related to the Highway 17 / Old Yale Road overpass.
Three Month Lookahead:	<ul style="list-style-type: none"> • Ongoing engagement with the public, residents, businesses and key stakeholders in New Westminister and Surrey regarding upcoming construction work and traffic pattern changes. • Continue regular outreach with resident groups, business associations, the Traffic Advisory Committee and active transportation groups. • Distribute construction notifications and respond to public inquiries.

5. Schedule

The following schedule depicts the contractual deliverables, milestones and associated dates and timelines for the implementation phase of the Project.



6. Project Photos



Figure 1 – Aerial of ongoing bridge tower construction.



Figure 2 – Crews installed the first pairs of cable stays on either side of the bridge tower.



Figure 3 – Aerial of pier N2 in New Westminster girder installation from N2 to the temporary support tower.



Figure 4 – Aerial of girder installation between piers S4 to S5 and S6 and the South Abutment.