



**PATTULLO BRIDGE  
REPLACEMENT**



transportation  
investment  
corporation

# Monthly Status Report

---

**Reporting Period**  
**November 2020**

# 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 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 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 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.

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, 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 (CBA) and the Project workforce will be provided by B.C. Infrastructure Benefits Inc (BCIB).

Fraser Crossing Partners has been selected to design and build the new bridge the Province will own and maintain the new bridge when 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

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	Overall Project	DBF Contract	Owner/Other	Comments
Project Delivery	Scope	Project delivered within the approved scope.	●	●	●	Project Team is actively managing scope.
	Schedule	Project delivered within the approved schedule.	●	●	●	Schedule related risks are being monitored, particularly in relation to regulatory authorizations required for in-river works. The contractor is actively working to mitigate any potential impacts.
	Budget	Project delivered within the approved budget.	●	●	●	Project has an approved budget of \$1.377 billion. Actual and forecasted Project expenditures are within the approved budget.
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	●	●	●	The health and safety plan for the Project work is in place. The plan includes specific COVID-19 protocols.
	Quality	Implement an effective Quality Management System.	●	●	●	Work-specific quality management plans are in place. Continued in-person quality monitoring of steel pipe pile fabrication, as well as steel quality testing.
	Environmental	Ensure our work is performed in an environmentally responsible manner.	●	●	●	One plan, required by the Project's Environmental Assessment Certificate (EAC) and Port Environmental Review (PER) permit, has yet to be accepted by the Environmental Assessment Office (EAO). Canadian Navigable Waters Act (CNWA) permit approved and Water Sustainability Act (WSA) package 2 conditionally approved.
	Property Acquisition	Acquire and manage properties required to deliver the Project.	●	●	●	Property acquisitions nearing completion.
	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.	●	●	●	Preparing for additional physical hydraulic model test run. Met with the contractor to review preliminary static pile load test results. Completed shoreline quantification survey. Completed technical design review of multi-use path (MUP) plans.
	Community Benefits	Work collaboratively with BCIB to successfully implement the CBA.	●	●	●	Approximately 13 full time CBA hired employees are actively working on site. Permitting discussion for upcoming site work nearing completion.
Partners/Stakeholders	Indigenous Groups	Continue to build and maintain a positive collaborative working relationship.	●	●	●	Project Team continues to engage with the Identified Indigenous Groups (IIGs) in relation to Project permitting and opportunities. Continued Project-specific agreement discussions with Indigenous Groups.
	Third Parties	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	●	●	MUP connections review ongoing; design refinements under consideration. Continued agreement discussions with TELUS and railway companies. Executed support agreement with TransLink.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	●	●	Ongoing engagement with local residents and the public continued in the month. Work continued on the development of communication plans related to specific works.

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Stay the Course – no action required

## 2.2 Key Milestones Achieved to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> <li>– <a href="#">Project Overview Report</a> (May 2020)</li> <li>– <a href="#">Executed Design-Build-Finance Agreement</a> (February 2020)</li> <li>– <a href="#">Project Report</a> (July 2020)</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>– <a href="#">Environmental Assessment Application</a> (August 2018)</li> <li>– <a href="#">EAO Assessment Report</a> (April 2019)</li> <li>– <a href="#">EAO Environmental Assessment Certificate (EAC)</a> (April 2019)</li> <li>– <a href="#">Port and Environmental Review (PER) Permit</a> (May 2019)</li> </ul>
	Design and Construction	<ul style="list-style-type: none"> <li>– Shoreline Quantification Survey (November 2020)</li> <li>– Static Load Pile Test (November 2020)</li> </ul>
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> <li>– CN Master Use Agreement (May 2019)</li> <li>– <a href="#">City of Surrey Municipal Agreement</a> (September 2019)</li> <li>– City of New Westminster Municipal Agreement (September 2019)</li> <li>– Metro Vancouver Accommodation Agreement (December 2019)</li> <li>– VFPA construction, land and demolition licenses finalized (December 2019)</li> <li>– TransLink Support Agreement (November 2020)</li> <li>– Shaw Telecommunications Facilities Relocation Agreement (March 2020)</li> <li>– Zayo Telecommunications Facilities Relocation Agreement (March 2020)</li> </ul>

## 2.3 November Highlights

Project Delivery	Safety	<ul style="list-style-type: none"> <li>- Five incidents were registered on the Project's Health and Safety log for the month. None of the incidents resulted in lost time due to injury and all were deemed minor. The Project's Lost Time Injury Rate remains at 0.</li> </ul>
	Quality	<ul style="list-style-type: none"> <li>- Continued in person quality monitoring of steel pipe pile fabrication.</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>- Administrative EAC amendment reviewed and approved by the EAO.</li> <li>- Received CNWA permit approval from Transport Canada.</li> <li>- Received conditional approval on the WSA package 2 submission from the Ministry of Ministry of Forests, Lands, Natural Resource Operations &amp; Rural Development.</li> <li>- The Project had no Environmental Incident Reports in November.</li> </ul>
	Design and Construction	<ul style="list-style-type: none"> <li>- Conducted the static load pile test and began reviewing the preliminary results.</li> <li>- Completed shoreline quantification survey by drone.</li> <li>- Completed technical design review of MUP connection plans.</li> </ul>
Partners/Stakeholders	Indigenous Groups	<ul style="list-style-type: none"> <li>- Five Technical Heritage Committee meetings were held in November with participating IIG representatives.</li> </ul>
	Third Parties	<ul style="list-style-type: none"> <li>- Executed TransLink consent agreement for in-river works.</li> </ul>
	Public and Stakeholder Engagement	<ul style="list-style-type: none"> <li>- Held workshop to review the Integrated Incident Communications Plan.</li> <li>- Received one public enquiry regarding the set up of traffic management. Issue raised being reviewed.</li> </ul>

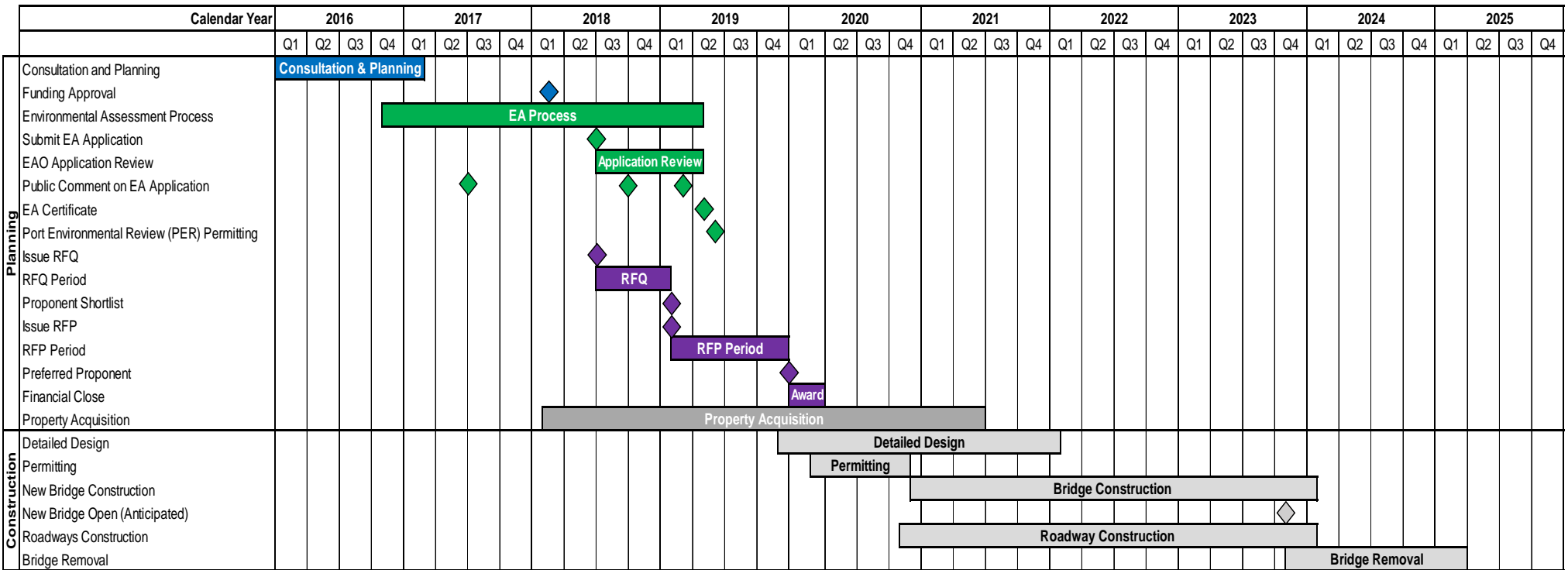
### 3. Schedule

The following schedule depicts deliverables, milestones and associated dates and timelines for the implementation phase of the Project, as well as anticipated construction timelines.



Legend: Consultation & Planning Environmental Review Procurement Property Acquisition Construction

PROJECT SCHEDULE | November 2020



## 4. Project Delivery

---

### 4.1 Safety

<b>Scope:</b>	<ul style="list-style-type: none"><li>- Establish Occupational Health and Safety (OH&amp;S) Project delivery objectives and performance measures.</li><li>- Manage Project OH&amp;S activities.</li><li>- Monitor relevant OH&amp;S performance metrics.</li><li>- Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.</li></ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"><li>- Continued to receive health and safety updates from BCIB and the contractor.</li><li>- Site safety inspections and coordination ongoing.</li><li>- Total number of incidents documented on the health and safety log for the month was 5. All were deemed minor and none of the incidents resulted in lost time due to injury. Lost Time Incident Rate (LTIR) for the Project remains at 0.</li></ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"><li>- Update Safe Work Plans and Safe Job Procedures as required.</li><li>- Deliver training on the Job Hazard Assessment and Risk Mitigation Plan for all Project Team members.</li><li>- Conduct OH&amp;S audits as and when required.</li></ul>

### 4.2 Quality

<b>Scope:</b>	<ul style="list-style-type: none"><li>- Establish quality management Project objectives and performance measures.</li><li>- Manage Project quality management activities.</li><li>- Monitor relevant quality management performance metrics.</li></ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"><li>- Continued in-person quality monitoring of steel pipe pile fabrication, as well as steel quality testing.</li><li>- Continued Non-conformity Reporting (NCR) and verification activities related to the Non-conformity Report tracking system. The contractor is refining its reporting process.</li><li>- 3 new Non-Compliance Reports (NCR) were issued in November. NCR tracking log shows 14 open NCRs. NCRs have been deemed minor and relate to process and procedure. No material or major Quality issues have been identified to date.</li></ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"><li>- Continue to manage the TI Corp quality management audit program including identifying Non-Compliance Events.</li><li>- Continue steel fabrication quality monitoring, and surveillance auditing and initiate inspections as required.</li></ul>

## 4.3 Environmental

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port and Environmental Review (PER) permit.</li> <li>- Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process.</li> <li>- Oversee outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.</li> <li>- Support the Technical Heritage Committee and archaeology investigation program.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- One plan, required by the Project's EAC and PER permit, has yet to receive acceptance by the Environmental Assessment Office (EAO).</li> <li>- Amendment to the PER permit, to allow activities to occur outside of the defined work hours, is under review by the VFPA.</li> <li>- Continued to advance the archaeological field program in collaboration with Indigenous groups.</li> <li>- Canadian Navigable Waters Act (CNWA) permit approved and Water Sustainability Act (WSA) package 2 conditionally approved.</li> <li>- The Project team received no Environmental Incident Reports in the month.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Continue to liaise with environmental regulators on follow-up actions and commitments arising from the EAC and PER permit.</li> <li>- Continue to meet with key regulators in support of progressing Project permitting.</li> <li>- Continue archeological monitoring and archaeological investigations.</li> </ul>

## 4.4 Property Acquisition

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Review of properties along the Project corridor and refinement of property acquisition plans.</li> <li>- Acquire land required to deliver the Project.</li> <li>- Secure construction licences across the river for bridge construction and demolition as well as a Vancouver Fraser Port Authority (VFPA) lease for the new bridge.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- Progressed property acquisition, required by the contractor's design, to near completion.</li> <li>- Continued discussions with the VFPA regarding ownership and use of existing pilings in the Fraser River.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Finalize property surveys where required and obtain executed survey plans from utility and rail companies to secure Arterial Highway tenure on Provincially owned land.</li> <li>- Finalize agreement to retain existing pilings in the Fraser River for use by the contractor.</li> </ul>

## 4.5 Design and Construction

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project.</li> <li>- Review the final bridge design including roadways, associated structures, drainage, and utilities.</li> <li>- Compliance reviews during construction.</li> <li>- Provide oversight of contractor on-site activities throughout the Project’s lifecycle.</li> <li>- Management of the Project’s schedule, scope and progress.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- Reviewed and provided input into the contractor’s river hydraulics management plan and other river hydraulics related documents.</li> <li>- Completed monthly riverbed monitoring surveys and data collection.</li> <li>- Conducted the static load pile test and began reviewing the preliminary results.</li> <li>- Completed shoreline quantification survey by drone.</li> <li>- Completed technical design review of MUP connection plans.</li> <li>- Preparing for additional physical hydraulic model test run.</li> <li>- Attend technical meetings with the contractor to discuss technical aspects of their design, as well as geotechnical and archaeological field investigation works.</li> <li>- The contractor’s geotechnical investigation program in both New Westminster and Surrey continued with remote archaeological monitoring in-place.</li> <li>- Continued to progress the archaeological investigation at pier locations in Surrey.</li> <li>- Daily site monitoring and reporting ongoing.</li> <li>- The investigation and locating of existing utilities in the Project area continued to progress.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Run additional physical hydraulic model test as required.</li> <li>- Complete detailed internal review of all the physical modelling test results.</li> <li>- Complete review of the static load pile test results.</li> <li>- Complete monthly riverbed monitoring surveys.</li> <li>- Complete compliance reviews during construction.</li> <li>- Archaeological assessment work to continue.</li> <li>- Complete set up of the Project office.</li> <li>- Complete the geotechnical investigation program.</li> <li>- Complete the investigation and locating of existing utilities in the Project area.</li> <li>- Complete the demolition of homes in New Westminster in support of site preparation.</li> </ul>

## 4.6 Community Benefits

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Work collaboratively with British Columbia Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- BCIB labour actively working on site with approximately 13 full time CBA hired employees.</li> <li>- Ongoing coordination with BCIB to ensure the onboarding of employees has been adapted to address COVID-19 public health guidelines.</li> </ul>



	<ul style="list-style-type: none"> <li>- Daily status update meetings are held with BCIB site administration.</li> <li>- BCIB and the contractor permitting discussion for upcoming site work nearing completion.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Follow-up with BCIB site safety protocols implementation.</li> <li>- Ongoing collaboration with BCIB on Project requirements and implementation readiness.</li> <li>- Continue to have status update meetings with BCIB.</li> </ul>

## 5. Partners/Stakeholders

### 5.1 Indigenous Groups

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Consultation and engagement with the Identified Indigenous Groups (IIGs) as set out in the EAC.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- Bi-weekly meetings held with BCIB and the contractor on Indigenous Employment and Contracting.</li> <li>- Three Technical Heritage Committee (THC) meetings were held in November 2020 with Indigenous groups.</li> <li>- Facilitated regular meetings between Indigenous Groups and the contractor.</li> <li>- Continued presenting proposed Indigenous Art and Cultural Recognition (IACR) options to Indigenous groups.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Continue meetings with the Technical Heritage Committee.</li> <li>- Continue meetings with the Indigenous Marine Users Group.</li> <li>- Continue to facilitate meetings between Indigenous groups, BCIB, and the contractor.</li> <li>- Continue discussions with the contractor on Indigenous Art and Cultural Recognition opportunities including the process for art selection.</li> </ul>

### 5.2 Third Parties

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Engage with Municipalities (City of New Westminister and City of Surrey) for the Project implementation phase.</li> <li>- Municipal Agreements.</li> <li>- Railway Construction and Crossing Agreements.</li> <li>- Utility Agreements.</li> <li>- TransLink Agreement.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- Continued meeting weekly with the City of Surrey and City of New Westminister.</li> <li>- Coordinated comments from the municipalities on the contractor’s design, including those on traffic management, utility design, drainage, roadway alignments and multi-use path connection, and incorporated these comments into responses issued to the contractor.</li> </ul>

	<ul style="list-style-type: none"> <li>- Continued agreement discussions with TELUS and railway companies.</li> <li>- Executed TransLink support agreement.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Continue to receive and provide comments from the municipalities on the contractor’s design.</li> <li>- Continue to work with railways and TELUS to finalize agreements.</li> <li>- Continue to meet and coordinate with railways and utilities.</li> <li>- Continue coordination with FortisBC regarding the Pattullo Gas Line Replacement.</li> </ul>

### 5.3 Public and Stakeholder Engagement

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage ongoing public and stakeholder communications and engagement.</li> </ul>
<b>Accomplished in Month:</b>	<ul style="list-style-type: none"> <li>- Held workshop to review the Integrated Incident Communications Plan.</li> <li>- Received one public enquiry regarding the set-up of traffic management. Issue raised being reviewed. Continued collaboration with the contractor’s communications team regarding site activity notifications and distribution to residents, business and stakeholders.</li> <li>- Provide responses and updates regarding MUP connections to interested stakeholders.</li> <li>- Development of stakeholder specific communication and engagement plans ongoing.</li> </ul>
<b>Key Activities for Next 3 Months:</b>	<ul style="list-style-type: none"> <li>- Continued engagement with key stakeholders in New Westminster and Surrey regarding Project designs and construction plans, including with resident groups, HUB Cycling and the Walkers’ Caucus.</li> <li>- Ongoing management of Project communications, including enquiry response.</li> </ul>

## 6. Project Cost Report

The approved Project budget is \$1.377 billion. The Project spending for the month of November 2020 was \$12.6 million and total Project spending to date is \$252 million. The Project is forecast to delivered within budget.