

Monthly Status Report

Reporting Period
August 2024

1. Introduction

1.1 Project Overview

The Steveston Interchange Project (the Project) is a component of the Highway 99 Tunnel Program and is being delivered in advance of the new immersed tube tunnel project.

The Project will address many of the safety, congestion, and mobility challenges at the interchange for all modes of travel by:

- Upgrading the interchange to be consistent with modern design standards.
- Reducing vehicle queues for northbound off-ramp traffic and transit to Steveston.
- Improving mobility for east-west traffic on Steveston Highway.
- Improving transit operations at the interchange.
- Providing new separated cycling and pedestrian connections along Steveston Highway across Highway 99.

The Project will replace the existing two-lane overpass structure at Steveston Highway and Highway 99 with a new five-lane structure that accommodates two eastbound lanes and three westbound lanes (including a left turn lane). The Project will also include new pedestrian and cycling infrastructure, as well as improved connections to and from the overpass.

The replacement overpass is designed to integrate with the new eight-lane immersed tube tunnel replacing the existing George Massey Tunnel along Highway 99.

Additional information and updates about the Steveston Interchange Project can be found on the Highway 99 Tunnel Program website: <https://www.highway99tunnel.ca/project-overview>.

1.2 Project Delivery

Transportation Investment Corporation, a Provincial Crown Corporation, is delivering and overseeing the Project on behalf of the Ministry of Transportation and Infrastructure and the B.C. Transportation Financing Authority. The estimated cost of the Project including planning, construction, and financing during construction is \$87.5 million.





The Project is being delivered through a Design-Build (DB) contract model and is currently in the implementation phase. Flatiron Constructors Canada Limited, comprised of Flatiron Constructors Canada Limited and Urban Systems Ltd., was selected as the Design-Builder on April 12, 2022. Construction on the Project began in 2022 and is expected to be completed in fall 2025.

1.3 Project Goals



- Support sustainability of Fraser River communities.
- Facilitate increased share of sustainable modes of transportation.
- Enhance regional goods movement and commerce.
- Support a healthy environment.




2. Project Update

2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within approved scope.		<ul style="list-style-type: none"> The Project will replace the existing two-lane overpass structure at Steveston Highway and Highway 99 with a new five-lane structure that accommodates two eastbound lanes and three westbound lanes (including a left turn lane) and new separated pedestrian and cyclist infrastructure, as well as improved connections to and from the overpass. The Project is within the approved scope.
	Schedule	Project delivered within the approved schedule.		<ul style="list-style-type: none"> The Project is on schedule for the new interchange to be operational in fall 2025.
	Budget	Project delivered within approved budget of \$87.5 million.		<ul style="list-style-type: none"> Project spending for the month of August 2024 was \$1.0 million. Total Project spending to date is \$41.3 million. The Project is forecasted to be delivered within the approved budget.
	Safety	Ensure that Project work is performed safely, in compliance with all applicable safety regulations, and in accordance with government policy.		<ul style="list-style-type: none"> Monitored the implementation of the Design-Builder's health and safety program and performed spot audits and joint site inspections with the Design-Builder. Reviewed safety documentation within methodology statements. There has been zero (0) lost time injuries on the Project to date. Lost Time Injury Frequency Rate (LTIFR) for the Project is zero (0), which is less than the WorkSafeBC 2023 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>

		Objectives	Project Status	Comments
	Quality	Implement an effective Quality Management System.	●	<ul style="list-style-type: none"> Continued review of quality documentation, including turnover packages, inspection and test plans, methodology statements, and correlated check-sheets. Continued monitoring of the Design-Builder's Quality Management System, including Quality Records, Nonconformity Reports/Log, and Opportunity for Improvement Log. Continued surveillance and quality audits of the Design-Builder's field construction activities.
	Environmental	Ensure Project work is performed in an environmentally responsible manner.	●	<ul style="list-style-type: none"> The necessary permits and authorizations are in place for the Project as listed in <i>Section 3: Project Documents and Achievements to Date</i>. Any additional regulatory authorizations will be obtained as required.
	Design and Construction	Development of a reference concept, technical requirements/specifications, and related technical studies for the Project and manage activities on-site.	●	<ul style="list-style-type: none"> The Project design has been finalized by the Design-Builder. Continued Technical Working Group meetings to discuss design related topics. Continued Construction Working Group weekly meetings between the Province and the Design-Builder. Commenced installation of additional stone columns in the northwest quadrant.
	Community Benefits	Successfully implement the Special Project Needs Agreement (SPNA).	●	<ul style="list-style-type: none"> The Design-Builder and its sub-contractors are required to carry out the Project in accordance with the SPNA. Apprenticeship, trainee, and equity targets are included in the Design-Build Agreement (DBA), with incentive payments for exceeding the targets. The Design-Builder's Community Benefits Plan is in place and quarterly reporting is provided.
Dartnar	First Nations	Continue to build and maintain positive collaborative working relationships with First Nations.	●	<ul style="list-style-type: none"> Continued consultation and engagement with First Nations on permitting, environmental

		Objectives	Project Status	Comments
				<p>plans, economic development opportunities, cultural awareness and recognition, and construction monitoring.</p> <ul style="list-style-type: none"> The Design-Builder reports that targets for Indigenous contracting opportunities have been met.
	Third Parties	Continue to build and maintain positive relationships and collaborate on Project requirements with the City of Richmond (the City) and owners of interfacing infrastructure.		<ul style="list-style-type: none"> Continued bi-weekly meetings with the City of Richmond on Project activities. Continued bi-weekly meetings with TransLink and the Coast Mountain Bus Company.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.		<ul style="list-style-type: none"> Continued to provide information to community organizations, businesses, and residents that are in close proximity to the Project.

Status	Description
	Managing critical issues and negotiating resolution; action required immediately.
	Managing some issues and 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"> • GMC Business Case (April 2021) • Cost Report (April 2021) • GMC Relationship Review Process Description (April 2021) • Request for Qualifications Issued (June 2021) and Closed (August 2021) • Request for Proposals Issued (September 2021) • Executed Design-Build Agreement (April 2022)
	Environmental	<ul style="list-style-type: none"> • Agricultural Land Commission (ALC) Approval (October 2021) • Fisheries and Oceans Canada (DFO) – Letter of Advice (October 2021) • Heritage Conservation Act (HCA) – Inspection Permit (November 2021) • Water Sustainability Act (WSA) – Order for Change Approval of Section 11 Permit (November 2023) • Water Sustainability Act (WSA) – Short-Term Use of Water (October 2022) • City of Richmond watercourse crossing permit received (September 2023) • City of Richmond Non-stormwater Discharge Permit received (August 2024)
	Design and Construction	<ul style="list-style-type: none"> • Reference concept design developed (August 2021) • Construction began (July 2022) • Final design completed (June 2023)
	Community Benefits	<ul style="list-style-type: none"> • Special Project Needs Agreement (SPNA) (June 2021)
Partners/Stakeholders	First Nations	<ul style="list-style-type: none"> • Ongoing engagement and consultation • Design-Builder confirmed that Indigenous contracting targets have been met
	Third Parties	<ul style="list-style-type: none"> • BC Hydro Protocol Agreement (December 2018) • City of Richmond Municipal Agreement (August 2022)
	Public and Stakeholder Engagement	<ul style="list-style-type: none"> • Presentations to various stakeholders (2021 – ongoing)

4. Monthly Highlights and Three Month Lookahead

4.1 Safety

Scope:	<ul style="list-style-type: none"> • Manage Project Occupational Health and Safety (OH&S) activities using a collaborative and proactive management approach with all principal stakeholders. • Monitor relevant OH&S performance metrics by setting measurable targets and objectives in the form of key performance leading and lagging indicators. • Ensure the Project complies with relevant Federal and Provincial Acts and Regulations and Municipal codes and by-laws, as well as applicable best industry practice guidelines. • Outline relevant health and safety management processes and activities to ensure health and safety of workforce and public is always safeguarded.
Monthly Highlights:	<ul style="list-style-type: none"> • The total number of incidents and accidents documented on the health and safety log for the month was three (3). • The Lost Time Injury Frequency Rate (LTIFR) for the Project is zero (0), which is less than the WorkSafeBC 2023 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> • Continued site safety monitoring of project activities. • Reviewed documents and statistics submitted by the Design-Builder.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Review Design-Builder’s submitted documentation and monthly statistics. • Continue to inspect and monitor construction activities of the Design-Builder. • Continue spot audits of relevant Design-Builder activities.

4.2 Quality

Scope:	<ul style="list-style-type: none"> • Monitor the Design-Builder’s Project Quality Management System performance. • Monitor the Design-Builder’s on-site and off-site construction activities, including inspections and testing. • Monitor the Design-Builder’s internal and external audits, including audit reports. • Conduct site monitoring and site surveillance audits of Project work. • Monitor the Design-Builder’s Non-Conformity tracking system, Non-Conformity Reports, including Correction, Corrective Actions, and Opportunity for Improvement Log. • Review the Design-Builder’s quality documentation, including inspection and test plans, correlated check-sheets, and work method statements. • Lead internal quality meeting and attend quality-related Project team and Design-Builder meetings. • Monitor the Design-Builder’s quality control and quality assurance activities. • Review Design-Builder’s turnover documentation.
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Monthly Highlights:	<ul style="list-style-type: none"> Reviewed the Design-Builder's quality documentation, including inspection and testing plans, materials documentation, third-party reports, and correlated quality items in work method statements for upcoming work. Continued quality monitoring of the Mechanically Stabilized Earth (MSE) wall construction. Continued quality monitoring of construction of the east and west bridge wing walls including reinforcing steel installation and concrete supply, testing, pouring, and curing. Monitored all Design-Builder's site activities, including field inspections and testing. The Design-Builder issued three (3) new Non-Conformity Reports (NCRs) this month related to construction. To date, there have been a total of 29 NCRs reported by the Design-Builder (three (3) open and 26 closed). The Province issued one (1) NCR this month. To date, there have been five (5) NCRs issued by the Province (zero (0) open and five (5) closed).
Three-Month Lookahead:	<ul style="list-style-type: none"> Continued review of the Design-Builder's quality documentation (i.e., inspection and testing plans and checklists) for upcoming work. Continued review of quality turnover packages. Monitor and conduct surveillance of the Design-Builder's site activities. Conduct site surveillance audits of the Project work based on the Design-Builder's construction schedule. Conduct audits of the Design-Builder's quality management system. Monitor the Design-Builder's schedule of internal and external audits, including audit reports. Participate in the Design-Builder's audits as an observer. Monitor the Design-Builder's Non-Conformity Report tracking system and Opportunities for Improvement Log. Identify and implement continuous improvement initiatives. Review the Design-Builder's monthly reports.

4.3 Environmental

Scope:	<ul style="list-style-type: none"> Manage follow-up and compliance actions required under relevant environmental regulations and permits. Liaise with regulators and stakeholders on matters related to the Project commitments made through the environmental and public engagement processes. Manage outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.
Monthly Highlights:	<ul style="list-style-type: none"> The Design-Builder received the Non-Stormwater Discharge Permit from the City of Richmond on August 16, 2024. Reviewed the Design-Builder's monthly and weekly environmental reports. Reviewed the surface water quality monitoring data from the Design-Builder and the Independent Environmental Monitor.
Three-Month Lookahead:	<ul style="list-style-type: none"> Continue to monitor and support archaeological spot-monitoring events. Review the Design-Builder's annual Construction Environmental Management Plan update.

	<ul style="list-style-type: none"> • Continue to monitor and review the effectiveness of the recycled concrete aggregate material mitigation. • Continue to monitor and provide input to Design-Builder on rain and water management.
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4.4 Design and Construction

Scope:	<ul style="list-style-type: none"> • Provide technical advice to the Project Team on a broad range of Project issues, and inputs into the Design-Build Agreement (DBA). • Oversee compliance with the design and construction requirements of the DBA, including undertaking reviews and audits, on-site monitoring, and other engagement with the Design-Builder.
Monthly Highlights:	<ul style="list-style-type: none"> • Participated in weekly Technical Working Group and Construction Working Group meetings with the Design-Builder to progress design and construction items. • Continued weekly meetings with the Design-Builder to discuss the Bridge Demolition Plan. • Reviewed the Design-Builder’s updated design submittals, which included: <ul style="list-style-type: none"> ○ Updates to the watermain design change drawing package ○ Structures concrete mix design • Reviewed the Design-Builder’s updated construction Work Method Statements and associated Traffic Control Plans, including: <ul style="list-style-type: none"> ○ Work Method Statement – stone column installation updates ○ Work Method Statement and Traffic Control Plans – existing structure demolition • Monitored the Design-Builder’s on-site construction activities, including: <ul style="list-style-type: none"> ○ Installation of end-span girders in the northeast quadrant ○ Stage 2 MSE precast wall panel installation in the northeast ○ Abutment cap rebar and formwork construction, concrete pour, and curing in the northeast and northwest ○ Drainage installation along Steveston Highway eastbound fronting Richmond Country Farms ○ Install formwork and rebar for northeast and northwest wingwalls ○ Concrete placement for northeast wingwall ○ Mobilize to place additional stone columns in the northwest quadrant ○ City of Richmond watermain relocation installation ○ Settlement and vibration monitoring and surveying ○ Anchor testing for soil nail walls
Three-Month Lookahead:	<ul style="list-style-type: none"> • Monitor the Design-Builder’s on-site construction activities, including: <ul style="list-style-type: none"> ○ Formwork, rebar and concrete pour for Stage1 deck and diaphragms ○ Drainage installation at west intersection ○ Additional stone column placement in the northwest quadrant ○ City of Richmond watermain tie-ins ○ MSE wall precast panel installation ○ Preload placement alongside Steveston Highway eastbound fronting Richmond Country Farms

	<ul style="list-style-type: none"> ○ Phase 1 bridge deck pour ○ Phase 1 bridge approach roadworks ○ Pavement and electrical works at west intersection
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4.5 First Nations

Scope:	<ul style="list-style-type: none"> ● Consultation and engagement with First Nations on the design, Project logistics, permitting, environmental plans, economic development opportunities, cultural awareness and recognition, and construction and archaeological monitoring.
Monthly Highlights:	<ul style="list-style-type: none"> ● Continued engagement on environmental plans and permitting. ● Continued discussions with First Nations to support Project activities. ● Continued Project procurement discussions between the Design-Builder and First Nations. ● The Design-Builder reports that Indigenous contracting targets outlined in the Design-Build Agreement have been met.
Three-Month Lookahead:	<ul style="list-style-type: none"> ● Coordinate additional site visits with interested First Nations. ● Continue engagement with First Nations to develop the Cultural Recognition Program. ● Continue engagement on environmental plans and permitting, landscaping, planting, and construction monitoring opportunities. ● Facilitate further discussions between the Design-Builder and First Nations, as needed. ● Continue to discuss job shadowing and mentorship opportunities for Indigenous youth.

4.6 Third Parties

Scope:	<ul style="list-style-type: none"> ● Project-specific Municipal Agreement (MA) with the City of Richmond. ● Engagement with the City and TransLink on construction impacts, stakeholder concerns, and other inputs to the Project.
Monthly Highlights:	<ul style="list-style-type: none"> ● City of Richmond: <ul style="list-style-type: none"> ○ Continued bi-weekly meetings between the Project Team, the Design-Builder, and City of Richmond staff. ○ Completed reviews of Design-Builder submittals and design packages by City staff. ○ Coordination between the Project Team, the Design-Builder, and City of Richmond staff related to installation of the new watermain. ● TransLink and Coast Mountain Bus Company (CMBC): <ul style="list-style-type: none"> ○ Continued bi-weekly meetings between the Project Team, the Design-Builder, TransLink, and CMBC. ○ Completed reviews of Design-Builder submittals and design packages by TransLink and CMBC staff.
Three-Month Lookahead:	<ul style="list-style-type: none"> ● Complete reviews of the Design-Builder submittals and design packages by the City of Richmond and TransLink. ● Continue to support the Design-Builder in obtaining any relevant permits for upcoming work.

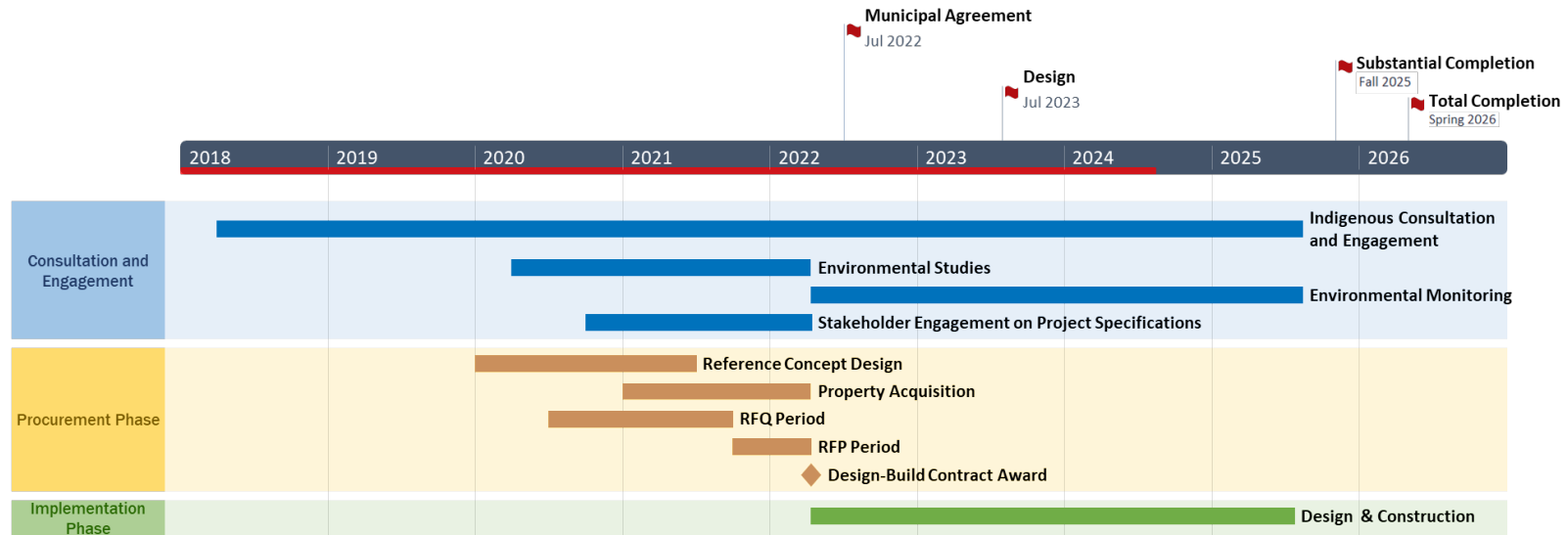
	<ul style="list-style-type: none"> • Coordinate upcoming traffic impacts with the City of Richmond, TransLink and other stakeholders.
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4.7 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> • Overseeing and managing ongoing communications and engagement with the public and stakeholders. • Development and implementation of communication strategies. • Creation of compelling content and messaging, and the cultivation of relationships with key stakeholders.
Monthly Highlights:	<ul style="list-style-type: none"> • Conducted weekly meetings with the Design-Builder to assess potential public impacts and review proposed communication approaches. • Distributed newsletter with an update on the status of the Project and upcoming construction activities. • Prepared and distributed construction notices related to traffic impacts on Steveston Highway and Highway 99. • Hosted a quarterly Traffic Advisory Committee meeting to provide Project updates to local and regional stakeholders and seek feedback on traffic management approaches related to upcoming construction activities.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Prepare and distribute construction notices related to traffic impacts on Steveston Highway and Highway 99. • Provide Project updates on construction activities to residents and stakeholders located nearby the Project site.

5. 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.



6. Project Photos

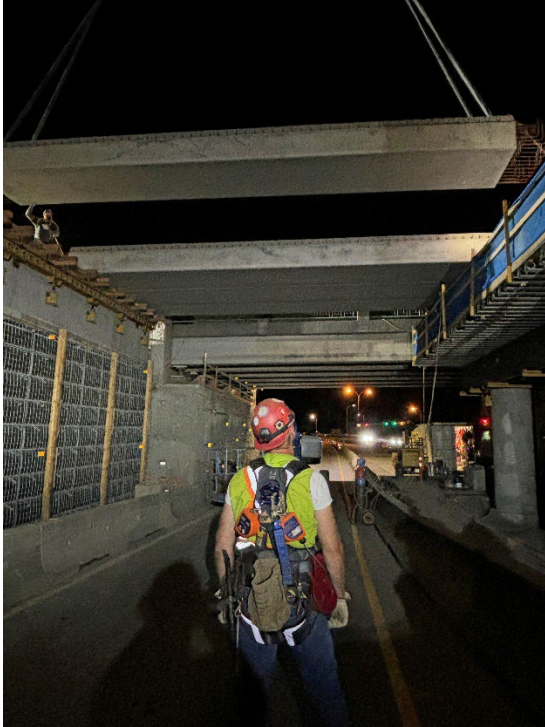


Image 1: Workers manoeuvre east side end-span girders into position on the Phase 1 overpass.



Image 2: All seven east side end-span girders in place.



Image 3: A heavy-lift crane hoisting an end-span girder into position between the main-span girders and the northeast abutment.