

Monthly Status Report

Reporting Period

July 2022

SIP-TIC-PCO-RPT-00007 R0

1. Introduction

1.1 Project Overview

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

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

- Upgrade the interchange to be consistent with modern design standards.
- Reduce vehicle queues for northbound off-ramp traffic and transit to Steveston.
- Improve mobility for east-west traffic on Steveston Highway.
- Improve transit operations at the interchange.
- Provide new 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 structure(s) of five lanes that accommodates two eastbound lanes and three westbound lanes (including a left turn lane) and new pedestrian and cyclist infrastructure, as well as improved connections to and from the overpass.

The reference concept is a two-bridge replacement overpass, that 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 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 BC Transportation Financing Authority. The estimated cost of the Project including planning, construction, and financing during construction is \$87.5 million.

The Project will be 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 is anticipated to begin in 2022 and 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 includes replacement of the existing interchange at Steveston Highway and Highway 99 with a wider overpass to accommodate three additional vehicle lanes (including a left turn lane) and new pedestrian and cyclist paths, as well as enhanced connections and transit improvements. The Project is within the approved scope and on track.
	Schedule	Project delivered within approved schedule of interchange open in 2025.	●	<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 July 2022 was \$1.7 million. Total Project spending to date is \$13.4 million; the Project is forecasted to be delivered within budget.
	Safety	Ensure that Project work is preformed safely, in compliance with all applicable safety regulations, and in accordance with government policy.	●	<ul style="list-style-type: none"> Occupational Health and Safety (OH&S) requirements for the Project are defined within the Project Management Plan and the Design-Build Agreement (DBA). Lost Time Injury Frequency Rate (LTIFR) for the Project remains at 0. The average Injury Rate for Bridge, Overpass, or Viaduct Construction or Repair from 2020 is 1.1 per WorkSafeBC.
	Quality	Implement an effective Quality Management System.	●	<ul style="list-style-type: none"> Quality management requirements for the Project are documented in the Quality Management Plan and compliance to the Plan will be monitored through ongoing audits of the Project work. Accepted the Design-Builder's Design Quality Management Plan. Accepted the Design-Builder's Construction Quality Management Plan.
	Environmental	Ensure Project work is performed in an environmentally responsible manner.	●	<ul style="list-style-type: none"> Permits and authorizations are in place for the Project as listed in Section 3: Project Documents and Achievements to Date.

	Objectives	Project Status	Comments
	Design and Construction	●	<ul style="list-style-type: none"> Closing out remaining items on the Interim Design. Final Design is under development by the Design-Builder. The Technical Team continues to participate in weekly Technical Working Group meetings with the Design-Builder. Accepted the Design-Builder's Design Management Plan.
	Community Benefits	●	<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 employment targets are included in the DBA with incentive payments for exceeding the targets.
Partners/Stakeholders	Indigenous Groups	●	<ul style="list-style-type: none"> The Project Team continues to consult and engage with the Identified Indigenous Groups (IIGs) on permitting, economic development opportunities, cultural awareness and recognition, and construction monitoring.
	Third Parties	●	<ul style="list-style-type: none"> The Project Team is working with the City of Richmond to finalize a Project-specific Municipal Agreement (MA). The Project Team continues to meet on a regular basis with City of Richmond staff regarding the Project and to expedite the MA. Utility relocation designs are under development. The Project Team and Design-Builder are with TransLink and the Coast Mountain Bus Company bi-weekly.
	Public and Stakeholder Engagement	●	<ul style="list-style-type: none"> The Project Team is providing information to community organizations, businesses, and residents that are in close proximity to the Project. Accepted the Design-Builder's Communications Protocol.

Status	Description
●	Managing critical issues and negotiating resolution – action required immediately.
●	Managing some issues and negotiating resolution – action required in the near term.
●	Stay the course – no action required.

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) • Project Management Plan (October 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 2021)
	Design and Construction	<ul style="list-style-type: none"> • Reference concept design developed (August 2021)
	Community Benefits	<ul style="list-style-type: none"> • Special Project Needs Agreement (SPNA) (June 2021)
Partners/Stakeholders	Indigenous Groups	<ul style="list-style-type: none"> • Ongoing engagement and consultation.
	Third Parties	<ul style="list-style-type: none"> • BC Hydro Protocol Agreement (December 2018)
	Public and Stakeholder Engagement	<ul style="list-style-type: none"> • Presentations to various stakeholders (2021 – ongoing) • News Release – “Steveston Interchange procurement moving forward.” (September 2021) • News Release – “New five-lane Steveston Interchange moves ahead.” (March 2022) • News Release – “Five-lane interchange breaks ground in Richmond.” (July 2022)

4. July 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 Federal, Provincial and Municipal acts, regulations, codes, and applicable guidelines.• Identify specific health and safety roles and responsibilities.• Outline relevant health and safety management processes and activities.
Monthly Highlights:	<ul style="list-style-type: none">• Total number of incidents documented on the health and safety log for the month was 0.• Lost Time Injury Frequency Rate (LTIFR) for the Project remains at 0, which is below the WorkSafeBC average of 1.1 for <u>Bridge, Overpass, or Viaduct Construction or Repair</u>.• The following Design-Builder occupational health and safety documents were received by the Project Team for review:<ul style="list-style-type: none">○ Construction-phase Health and Safety Plan• Hired and onboarded the Occupational Health and Safety Advisor for the Project.• Drafted a TI Corp site-specific Safety Plan.
Three-Month Lookahead:	<ul style="list-style-type: none">• Finalize a TI Corp site-specific safety plan.• Complete review of the Design-Builder's Health and Safety Program and safe work procedures.• Support in establishing a site office.• Review and approve the Design-Builder's construction phase Health and Safety Plan.• Develop a TI Corp Site Safety Orientation Program.• Develop a critical risks protocol and hazard map for the Project.• Develop an auditing schedule to review compliance with Design-Build Agreement.• Develop a robust Job Hazard Analysis review and monitoring protocol.

4.2 Quality

Scope:	<ul style="list-style-type: none">• Establish quality management Project objectives and performance measures.
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	<ul style="list-style-type: none"> • Oversee and monitor Project quality management activities. • Review the Design-Builder’s Quality Management plans and system. • Conduct surveillance audits of the Project work. • Identify and implement continuous improvement initiatives.
Monthly Highlights:	<ul style="list-style-type: none"> • Reviewed the Design-Builder’s quality submittals including the Quality Manual, Design Quality Management Plan, Construction Quality Management Plan, and Traffic Quality Management Plan. • Continued development of a Project Audit Plan and schedule. • Commenced development of an internal Quality Management Plan for the Implementation Phase of the Project.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Complete review of the Design-Builder’s quality submittals. • Complete the Project Audit Plan and schedule, and implement on the Project. • Complete the internal Quality Management Plan for the Implementation Phase of the Project. • Develop additional Project quality plans and procedures, as required.

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 assessment and public engagement processes. • Manage outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.
Monthly Highlights:	<ul style="list-style-type: none"> • Monitored the Design-Builder discussions with the private property owner regarding the potential site offices and laydown locations, including permitting requirements. • Reviewed the Design-Builder’s Environmental Work Plan for the temporary site office. • Reviewed the Design-Builder’s Construction Environmental Management Plan. • Completed the arboricultural assessment within the Project limits.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Finalize the Archaeological workplan.

	<ul style="list-style-type: none"> • Review requirements for the City of Richmond Watercourse Crossing Permit and discuss the permitting process with the City. • Ensure the Design-Builder has reviewed the drainage design with the design consultants and determine if permit amendments are required. • Design-Builder to coordinate with the Province and nearby residents to conduct a Baseline Noise Assessment, prior to commencement of construction activities. • Review Environmental workplans.
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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 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, as needed.
Monthly Highlights:	<ul style="list-style-type: none"> • Participated in weekly Technical Working Group meetings with the Design-Builder to progress design. • Participated in coordination meetings with the Design-Builder and the utility owners to progress utility relocation designs. <ul style="list-style-type: none"> ○ BC Hydro Distribution Line –Relocation design under development and expected to be finalized in August. ○ East Highway 99 Combined Fiber Line (Ministry of Transportation and Infrastructure, Bell, Rogers) – Detailed electrical designs under development by the individual utility owners. • Installed Project information signs along Highway 99 and Steveston Highway. • Reviewed the Design-Builder’s design submittals including: <ul style="list-style-type: none"> ○ Interim Design items (Climate Change Adaptation Report, Landscape Drawings, Road Safety Audit Report, Pavement Design Report). ○ Final Design Early Works items (Preload, Ground Improvements, Utility Relocations, Geotechnical Memos). • Reviewed the Design-Builder’s management plans, including the Construction Management Plan and the Operations and Maintenance Plan. • Accepted the Design-Builder’s Design Management Plan. • Reviewed the Design-Builder’s Work Method Statement for the office laydown.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Finalize the Performance Measurement Plan. • Review the Design-Builder’s submittals including the Manual Counterflow Plan, Settlement Monitoring Plan, ITS Implementation Plan, and the Final Design packages.

	<ul style="list-style-type: none"> • Establish an office near the Project site once the location is finalized by the Design-Builder. • Install cameras for the Project Team’s monitoring of the Project site, once the site office location has been finalized. • Monitor the Design-Builder’s Design Validation Testing for the Reversible Lane Control System. • Monitor the Design-Builder’s on-site construction activities: <ul style="list-style-type: none"> ○ City of Richmond watermain shutoff ○ Utility relocations (BC Hydro Distribution Line, Combined Fiber Line, Reversible Lane Control System electrical). ○ Clearing and grubbing activities around the bridge structure. ○ Installation of stone columns and ground improvements.
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4.5 Indigenous Groups

Scope:	<ul style="list-style-type: none"> • Consultation and engagement with the Identified Indigenous Groups (IIGs) on the reference concept, permitting, economic development opportunities, cultural awareness and recognition, and construction monitoring.
Monthly Highlights:	<ul style="list-style-type: none"> • Continued discussions with IIGs on various agreements. • Continued engagement on Indigenous construction monitoring opportunities and site visits. • Ongoing meetings between TI Corp and IIGs to develop a scope for Indigenous Cultural Awareness and Recognition opportunities. • Continued working with IIGs to support Project activities, including cultural awareness and recognition, mentorship opportunities for Indigenous youth, and construction and archaeological monitoring opportunities. • Completed Cultural Awareness Training for the Design-Builder’s Key Individuals. • Facilitated discussions between the Design-Builder and the IIGs to inform development of the Indigenous Participation Plan (IPP). • Received and reviewed the IPP from the Design-Builder. • Flatiron began initial meetings with the IIGs.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Finalize agreements for engagement and construction monitoring with interested IIGs. • Continue engagement on Indigenous construction monitoring opportunities and building monitoring capacity with interested IIGs. • Develop and implement the Indigenous Cultural Awareness and Recognition Plan, in collaboration with interested IIGs. • Continue engagement on environmental plans and permitting.

	<ul style="list-style-type: none"> • Facilitate discussions between the Design-Builder and IIGs to inform development of the IPP. • Develop job shadowing and mentorship opportunities for Indigenous youth.
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4.6 Third Parties

Scope:	<ul style="list-style-type: none"> • Project-specific Municipal Agreement (MA) with the City of Richmond (the City). • Engagement with the City and TransLink on the future 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"> ○ Ongoing weekly meetings between the Project Team, the Design-Builder, and City staff. ○ Continued engagement on the MA with the City. ○ Facilitated the Final Design Early Works package review by the City and returned consolidated comments back to the Design-Builder. ○ Continued engagement with the City and the Design-Builder regarding the watermain shutoff, decommissioning, and reinstallation plan. • TransLink and Coast Mountain Bus Company (CMBC): <ul style="list-style-type: none"> ○ Ongoing weekly meetings between the Project Team, the Design-Builder, TransLink, and CMBC. ○ Facilitated the Interim Design review (including the Traffic Management Plan) by TransLink and returned comments back to the Design-Builder. • Utilities: <ul style="list-style-type: none"> ○ Regular coordination meetings with impacted utility companies regarding utility relocation designs.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Senior-level meeting between City and TI Corp to finalize MA. • Execute the MA through City staff sign-off. • Continue to facilitate reviews of the Design-Builder submittals and design packages by the City and TransLink. • Monitor the City’s watermain shutoff to allow for construction activities to occur in the vicinity.

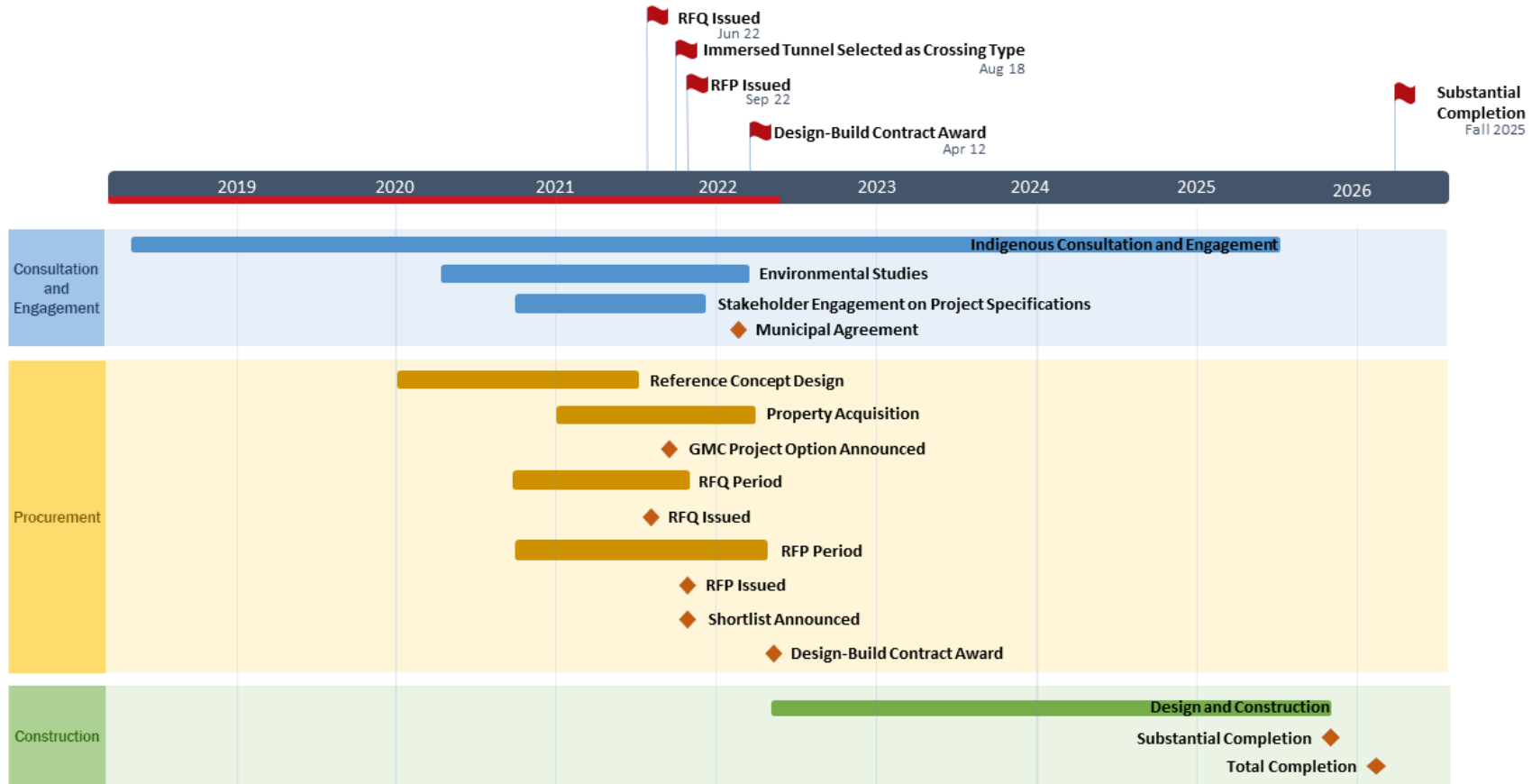
4.7 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> • Manage ongoing public and stakeholder communications and engagement.
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Monthly Highlights:	<ul style="list-style-type: none"> • Conducted a ground-breaking event with media present. • Shared public communication of final geotechnical investigation via e-notifications. • Shared notice of upcoming traffic control to first responders. • Received one enquiry via the 24-hour construction phone line. • Met weekly with the Design-Builder to ensure public impacts are considered and appropriate communication methods are utilized. • Accepted the Design-Builder’s Communications Protocol. • Initiated a Traffic Advisory Committee, including local and regional stakeholders.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Review the Design-Builder’s Construction Communications and Engagement plan. • Share Project update with various stakeholders. • Plan an update meeting for local area residents in the northeast quadrant of the Project site. • Develop materials and identify key contacts for stakeholders to be involved in the Traffic Advisory Committee.

5. Schedule

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



6. Project Photos

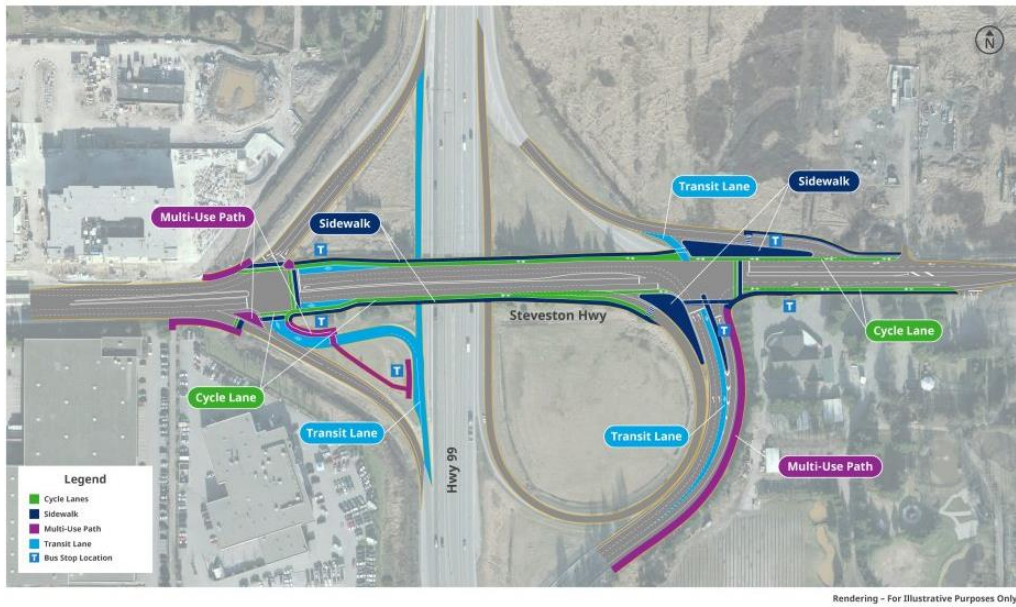


FIGURE 1 – DESIGN RENDERING



FIGURE 2 – GROUND-BREAKING EVENT