

Monthly Status Report

Reporting Period

June 2022

SIP-TIC-PCO-RPT-00006 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 June 2022 was \$2.1million. Total Project spending to date is \$11.6 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.
	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.
	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"> Interim Design under development by the Design-Builder. The Technical Team continues to participate in weekly Technical Working Group meetings with the Design-

		Objectives	Project Status	Comments
				Builder to collaborate on various design and construction aspects.
	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 employment targets are included in the DBA with incentive payments for exceeding the targets.
Partners/Stakeholders	Indigenous Groups	Continue to build and maintain positive collaborative working relationships with the Identified Indigenous Groups (IIGs).	●	<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	Continue to build and maintain positive relationships and reach agreement on Project requirements with City of Richmond and owners of interfacing infrastructure.	●	<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. The Project Team is meeting with impacted utility companies to explore utility relocation options. The Project Team is meeting weekly with TransLink and the Coast Mountain Bus Company to share project information and ensure coordination between the various parties.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<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.

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)

4. June 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.• 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">○ Occupational Health and Safety Program○ Health and Safety Plan○ Emergency Response Plan• Approved the Design-Builder's proposed Qualified Coordinator.• Continued recruitment for the Occupational Health and Safety Advisor role for the Project.• Onboarded the Prime Contractor Health and Safety Manager.
Three-Month Lookahead:	<ul style="list-style-type: none">• Onboard an Occupational Health and Safety Advisor.• Develop a TI Corp site-specific safety plan.• Review the Design-Builder's Health and Safety Program and safe work procedures.• Review and approve the Design-Builder's Health and Safety Plan initiation.

4.2 Quality

Scope:	<ul style="list-style-type: none">• Establish quality management Project objectives and performance measures.• 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.
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Monthly Highlights:	<ul style="list-style-type: none"> • Began review of the Design-Builder’s quality submittals including the Quality Manual, Design Quality Management Plan, Construction Quality Management Plan, and Traffic Quality Management Plan • Started development of a Project Audit Plan and schedule. • Commenced development of a 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 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 Construction Environmental Management Plan. • Reviewed the Interim Design Package and drainage designs and discussed permitting requirements with the Design-Builder. • Procured arboricultural services to perform an arboricultural assessment within the Project limits.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Finalize the Archaeological Workplan. • Manage the Arborist Team and ensure the tree assessment is completed prior to vegetation removal. • Review requirements for the City of Richmond Watercourse Crossing Permit and discuss the permitting process with the City.

	<ul style="list-style-type: none"> • Ensure the Design-Builder has reviewed the drainage design with the design consultants and determine if permit amendments are required. • Ensure the Design-Builder has completed a Baseline Noise Assessment, prior to commencement of construction activities.
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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 – Meeting held on-site to discuss relocation design. Relocation design under development. ○ East Highway 99 Combined (Ministry of Transportation and Infrastructure, Bell, Rogers) Fiber Line – Design-Builder has provided preliminary realignment design. Detailed electrical designs under development by the individual utility owners and Design-Builder. • Monitored the Design-Builder’s Geotechnical Investigation and Utility Locate Program on site. • Geotechnical Investigation Program has been completed and associated data and borehole logs are to be provided for information. • Reviewed the Design-Builder’s submittals including the Key Individuals (e.g., Quality Director), Checking Team proposal, and the Interim Design Submission (i.e., Design drawings, Seismic Design Memo, Drainage Report, and Geotechnical Report).
Three-Month Lookahead:	<ul style="list-style-type: none"> • Install Project information signs along Highway 99 and Steveston Highway. • Finalize the Performance Measurement Plan. • Review the Design-Builder’s submittals including the Manual Counterflow Plan, Settlement Monitoring Plan, Construction Management Plan, and Final Design submission for early works (i.e., utility relocations and preload). • Establish a site 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.

	<ul style="list-style-type: none"> • Continue to monitor the Design-Builder’s Utility Locate Program on-site. • Monitor the City of Richmond’s watermain shutoff to allow construction activities to occur in the vicinity.
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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"> • Approved the Design-Builder’s proposed Contract Indigenous Coordinator and held an Indigenous Relations coordination and planning meeting. • Continued discussions with IIGs on various agreements. • Continued engagement on Indigenous construction monitoring opportunities and site visits. • Ongoing meetings with 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. • Began Cultural Awareness Training for the Design-Builder’s Key Individuals.
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. • Facilitate discussions between the Design-Builder and IIGs to inform development of the Indigenous Participation Plan (IPP). • Develop 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 (the City). • Engagement with the City and TransLink on the future construction impacts, stakeholder concerns, and other inputs to the Project.
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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. ○ Provided notification to the City regarding the Prime Contractor designation of the Design-Builder. ○ Participated in an Interim Design review meeting with the City in which the Design-Builder highlighted key aspects prior to the design submission. ○ Facilitated the Interim Design review by the City and returned consolidated comments back to the Design-Builder. • 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. ○ Participated in an Interim Design review meeting with TransLink in which the Design-Builder highlighted key aspects prior to the design submission. ○ Facilitated the Interim Design review by TransLink – comments expected back early-July. • 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"> • Execute the MA through City staff sign-off. • Continue to facilitate reviews of the Design-Builder submittals and design packages with the City and TransLink. • Monitor the City’s watermain shutoff to allow for construction activities to occur in the vicinity. • Assist with coordination and participate in the official ground-breaking event for the Project.

4.7 Public and Stakeholder Engagement

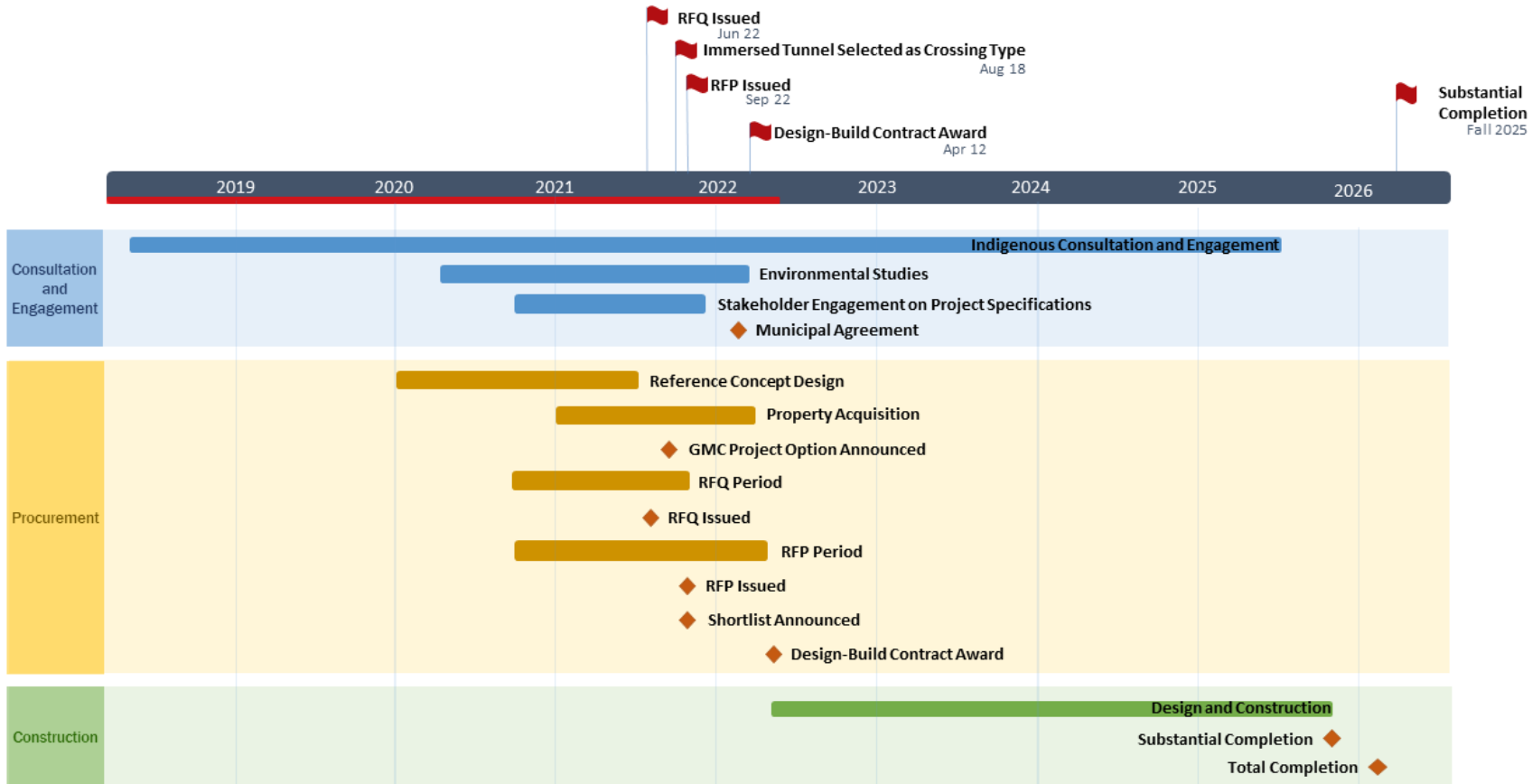
Scope:	<ul style="list-style-type: none"> • Manage ongoing public and stakeholder communications and engagement.
Monthly Highlights:	<ul style="list-style-type: none"> • Shared public communication of final geotechnical investigation via e-notifications. • Shared notice of upcoming traffic control to first responders. • One enquiry was received via the 24-hour construction phone line. • Met regularly with the Design-Builder to ensure public impacts are considered and appropriate communication methods are utilized. • Reviewed the Design-Builder’s Communications Protocol.

**Three-Month
Lookahead:**

- Review the Communications and Engagement plans from the Design-Builder.
- Share Project update with various stakeholders.
- Initiate a Traffic Advisory Committee, including local and regional stakeholders.
- Plan an update meeting for local area residents in the northeast quadrant of the Project site.

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

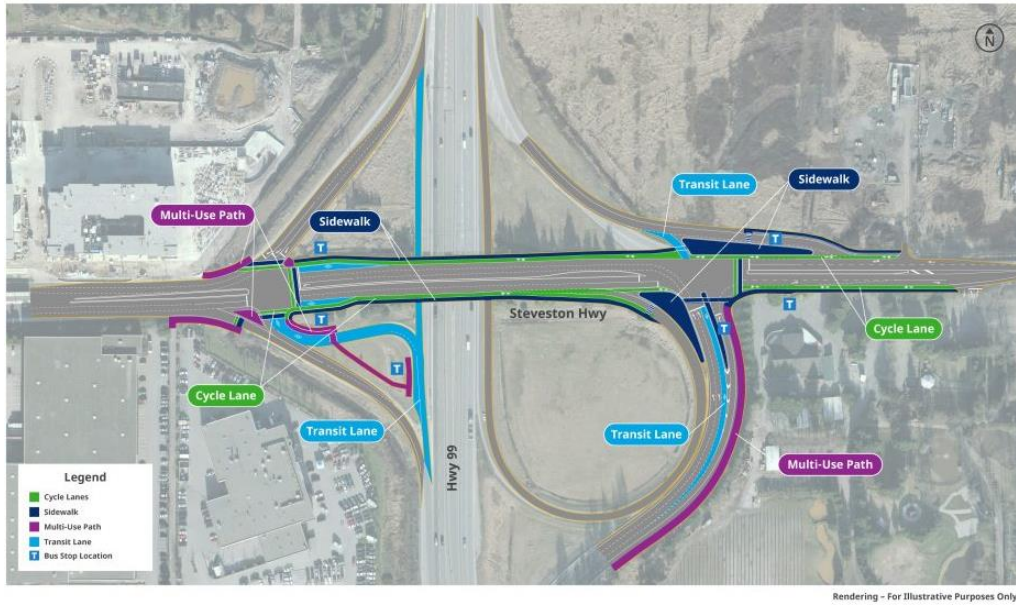


FIGURE 1 – DESIGN RENDERING

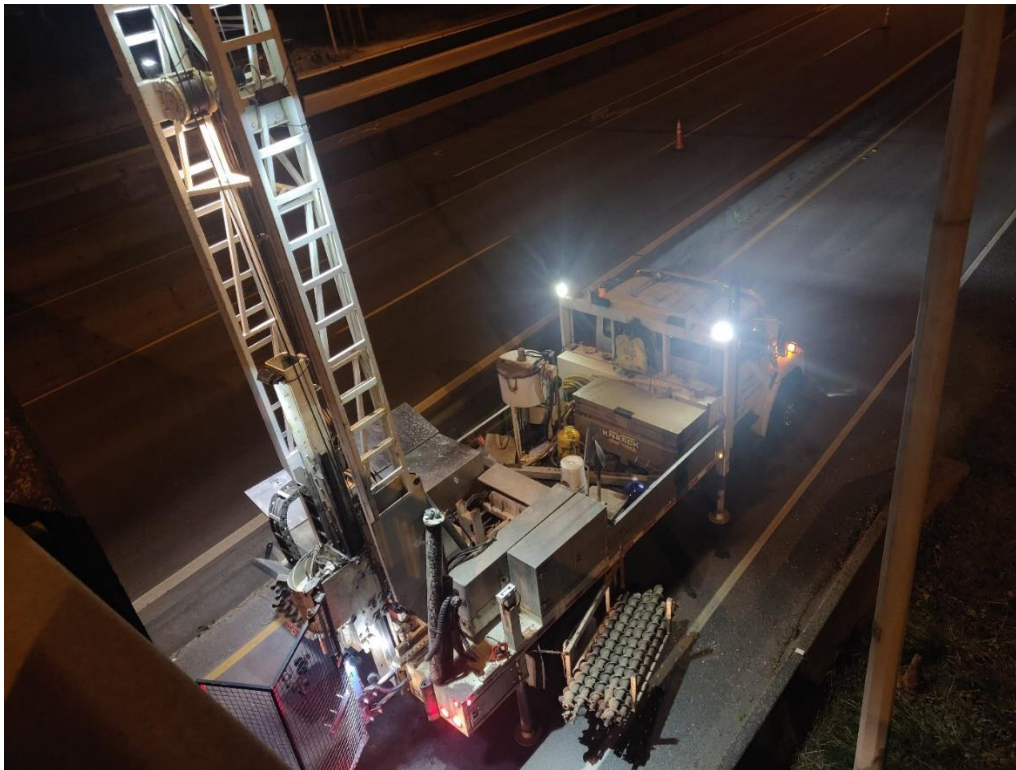


FIGURE 2 – GEOTECHNICAL INVESTIGATIONS AT SITE