

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending January 31, 2021

1. PROJECT DASHBOARD

Project Delivery Objectives		Overall Project	DB Contractor	Owners/Other Works	Comments
Safety	Take every reasonable step to ensure that the work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	●	●	●	Safety meetings and orientations ongoing.
Budget	Delivered within the approved budget.	●	●	●	The Project has an approved capital budget of \$260 million and continues to track on budget.
Schedule	Delivered within the approved schedule.	●	●	●	Most key Project activities are proceeding on schedule. Working with Design-Builder to mitigate schedule impacts
Scope	Deliver the approved scope.	●	●	●	Delivery of the specified components is on track.
Indigenous Groups	Continue to build and maintain a positive collaborative working relationship	●	●	●	Discussions and consultation with Indigenous groups ongoing.
Environmental	Ensure the work is performed in an environmentally responsible manner.	●	●	●	The Project will be delivered in accordance with the obligations identified in the Overview Environmental Effects Assessment.
Community Benefits	Incorporate the Community Benefits Objectives into the Project.	●	●	●	Community Benefits Objectives outlined in the Design-Build Agreement for implementation by the Design-Builder.
Third Parties	Continue to build and maintain positive relationships with Project Partners and other third parties.	●	●	●	Early and frequent engagement and advancing agreements with Project partners and other third parties.
Stakeholder Engagement	Continue to build and maintain positive relationships with the community, and other stakeholders.	●	●	●	Engagement with key Project partners is ongoing. Community and stakeholder engagement will continue.
Quality	Implement an effective Quality Management System.	●	●	●	Quality audits and reviews performed as required per the Quality Management Plan.

Status	Description
●	Not currently applicable, as the Project is in Procurement Phase
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

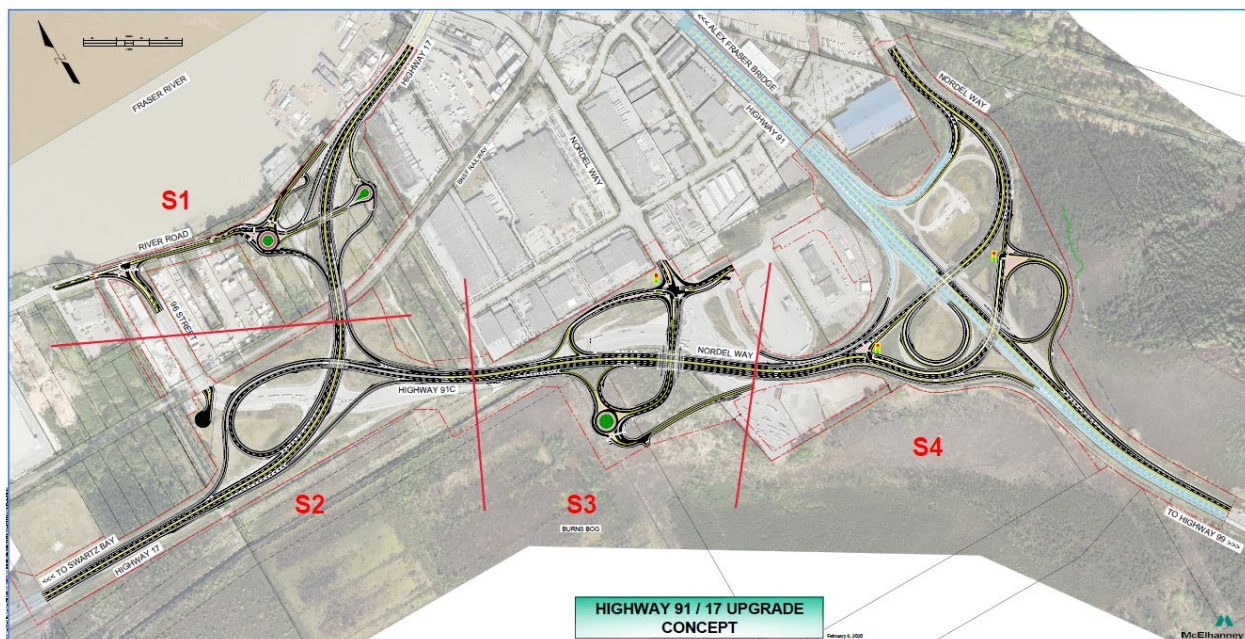
2. Introduction

Project Overview

The Highway 91/17 & Deltaport Way Upgrade Project (the Program) is comprised of the Highway 91/17 Upgrade Project, as well as the 27B Avenue and Deltaport Way Improvements Project. The 27B Avenue and Deltaport Way improvements have been completed and will no longer be reported out on in subsequent monthly reports.

The Highway 91/17 Upgrade Project (the Project) is a subcomponent project of the broader Program and includes a combination of improvements to the existing Highway 91, Highway 17, and Highway 91 Connector corridors to improve travel safety and efficiency. These upgrades will improve local and commercial travel time and reliability in the area, reduce conflicts between commercial vehicles and other traffic, and support community and economic development. The Highway 91/17 components also complement the recently completed 72nd Avenue Interchange Project and the Alex Fraser Bridge Project.

A Design-Build Agreement between the BC Ministry of Transportation and Infrastructure (the Ministry), the BC Transportation Financing Authority (BCTFA), and Pacific Gateway Constructors General Partnership (the Design-Builder) was signed on December 13, 2019.



January 2021 Highlights

Project highlights this month include:

Stakeholder Engagement

- Ongoing public and stakeholder engagement to advise of Project activities including the Nordel Way Truck Parking Area relocation, Highway 99 preload removal, and Project ground improvements

Environment	<ul style="list-style-type: none"> Environmental protection measures continue as part of increased active construction, including at the Delta Nature Reserve (DNR)/roadway interface Design-Builder providing environmental submissions
Safety	<ul style="list-style-type: none"> Social distancing being followed for the staff required to work in the field
Design	<ul style="list-style-type: none"> Ongoing development and review of Design-Builder detailed design
Construction	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> River Road West embankment fills on ramps and roundabout completed Stone columns installation for future River Road structure River Road East excavation of existing Hwy 17 alignment completed for construction of future structure <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Embankment fill completed on north side of Hwy 91C Retaining wall construction on north side of Hwy 91C completed <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> Stone columns installation on Weigh Scale Interchange roundabout <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> Hwy 91C EB to Hwy 91 SB ramp shift construction commencement Hwy 91 West Side detour implemented and Hwy 91 west embankment fill completed
Traffic Management	<ul style="list-style-type: none"> Hwy 91 southbound (SB) to Nordel Way eastbound (EB) offramp closures Hwy 17 westbound (WB) nighttime slow lane closure. Hwy 91C WB nighttime slow lane closures.
Quality	<ul style="list-style-type: none"> Ongoing implementation and review of quality system

3. PROJECT DELIVERY

Project Controls

Completed this Month	<ul style="list-style-type: none"> Regular project control meetings Ongoing review of risk register
Key activities for Next 3 months	<ul style="list-style-type: none"> Ongoing project control meetings Ongoing review of Risk Register Ongoing review of project schedule, scope and budget

4. PROJECT DEVELOPMENT

Communications and Stakeholder Engagement

Completed this Month	<ul style="list-style-type: none">• Provided updates to interested stakeholder groups as requested• Convene third Traffic Advisory Committee meeting• Reviewed contractor communications submittals• Ongoing enquiry response• Supported the Design-Builder with traffic and construction notifications to the public, community, and stakeholders. Includes the Highway 99 preload removal work (south of the George Massey Tunnel) and Nordel Way Truck Parking Area relocation• Ongoing Project website updates
Key Activities for Next 3 months	<ul style="list-style-type: none">• Convene fourth Traffic Advisory Committee meeting• Continue to support the Design-Builder regarding upcoming traffic and construction notification. Includes the Highway 99 preload removal work• Continue to update Project webpage• Ongoing enquiry response• Ongoing Project website updates

Environment

Completed this Month	<ul style="list-style-type: none">• Ongoing regular weekly meetings with the Design-Builder regarding environmental components of the Project• Ongoing securing, extension, and amendment of environmental permits• Environmental Work Plans and Habitat Offsetting Plans received and implemented• Design-Builder environmental protection measures ongoing for the DNR and Burns Bog interface locations
Key Activities for Next 3 months	<ul style="list-style-type: none">• Securing, extension, and amendment of environmental permits as required• Address concerns at construction interface locations at the Delta Nature Reserve• Ongoing environmental oversight of Design-Builder's environmental mitigation measures• Ongoing submission review in accordance with the DBA requirements

Agriculture

Completed this Month	<ul style="list-style-type: none">• Design changes at former DNR area and reduction in peat/sand excavation ongoing, surplus appears to be significantly reduced• 2020 Status report for the Agricultural Land Commission (ALC) ongoing
Key activities for Next 3 months	<ul style="list-style-type: none">• Prepare 2020 update report for ALC• Identify any requirements to meet Agricultural Land Reserve conditions and proceed with action items.

Indigenous Groups

Completed this Month	<ul style="list-style-type: none"> • Ongoing review and sharing of key project documents with Indigenous Groups • Meetings ongoing with Design-Build contractor and Project team • Continued communication with Indigenous groups regarding Project construction activities
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Responses to Indigenous Group comments on key Project documents • On-going consultation and engagement relating to geotechnical, environmental, and archaeological works

5. DESIGN BUILD PROGRESS

Safety

Completed this Month	<ul style="list-style-type: none"> • Pacific Gateway Constructors is the Prime Contractor on the Project Site • Onsite safety training sessions held for all staff
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Construction activities and ongoing site safety training sessions as required • Daily & weekly safety briefings for active site crews • Monthly mass safety meetings
Safety Incidents	<ul style="list-style-type: none"> • 1 minor employee injury • Minor equipment incidents on site

Design

Completed this Month	<ul style="list-style-type: none"> • Ongoing meetings with various regulatory agencies/stakeholders • Continued development and review of design including detour implementation, landscape, drainage, roadway, electrical, structural, and bridge design • Ongoing discussions regarding substantial completion for the Delta Nature Reserve boardwalk
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing review of design submissions • Ongoing meetings with various regulatory agencies/stakeholders

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • River Road West embankment fill ongoing for ramps and roundabout • River Road structure construction commenced with stone columns installation • River Road East excavation of existing Hwy 17 alignment for construction of future structure completed <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Embankment fill on north side of Hwy 91C completed (phase 1) • Retaining wall construction on north side of Hwy 91C completed
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	<ul style="list-style-type: none"> • Drainage construction commenced in Hwy 17 East <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Ongoing stone Columns installation for Weigh Scale Interchange roundabout • Partial preload placement on Hwy 91 east side <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Hwy 91C EB to Hwy 91 SB ramp shift implemented • Hwy 91 west side embankment fill completed • Sand embankment ongoing in southeast quadrant and Hwy 91 east side. <p>Hwy 99 – Preload removal</p> <ul style="list-style-type: none"> • Sand Preload removal on Hwy 99 SB between 96th Avenue and 112th Avenue commenced
<p>Key Activities for Next 3 months</p>	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Preload of Hwy 17 / River Road on-/off-ramp roundabout areas • River Road utility relocation construction • Excavation for future River Road structure and stone column construction. • Commence River Road structure construction <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Preload of new alignments on north side of Hwy 91C • Preload of widening of Hwy 17 on north and south sides • Drainage installation on south side of Hwy 17 to south side Hwy 91C <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Reconfiguration of intersection of Hwy 91C and truck parking relocation • Preload of south side of Hwy 91C at Weigh Scale Interchange roundabout • Stone column construction at future Weigh Scale Interchange structure • Commence Weigh Scale structure construction <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Hwy 91 east side clearing and grubbing for Nordel Way to Hwy 91 SB on-ramp • Wildlife salvage in southwest quadrant of Nordel Interchange • Preload placement in southeast quadrant of Nordel interchange • Membrane installation on Hwy 91 east side <p>Hwy 99 – Preload removal</p> <ul style="list-style-type: none"> • Removal of preload on Hwy 99 SB between Hwy 17 and 112th Street

Traffic Management

<p>Completed this Month</p>	<ul style="list-style-type: none"> • Hwy 91 SB to Nordel Way EB off-ramp closures. • Hwy 17 WB nighttime slow lane closure
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Key Activities for Next 3 months	<ul style="list-style-type: none"> • Hwy 91C WB nighttime slow lane closures • Nighttime lane closures Hwy 17 EB, WB and Hwy 91C • Nighttime lane closures Nordel way to Hwy 91SB on ramp for Hwy 91 east side construction • Nighttime lane closures Hwy 99 between Hwy 17 and 112 Street • Pending approvals of work plans, preload activities anticipated in all segments
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Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Ongoing quality audits with Design-Builder
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing implementation and monitoring of quality management system • Ongoing quality audits

6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the January 2021 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (January 2021 Works Schedule)
Construction Start		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	N/A
Highway 91C / Weigh Scale Interchange	April 6, 2020	August 14, 2020
Highway 91C/ Highway 17 Interchange	April 6, 2020	July 12, 2020
Highway 17 / River Road Interchange	April 6, 2020	May 8, 2020
Construction Complete		
Highway 91 / Nordel Way Interchange	September 15, 2022	November 14, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	February 12, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 30, 2022
Highway 91C/ Highway 17 Interchange	March 15, 2023*	November 24, 2022
Highway 17 / River Road Interchange	October 4, 2021	October 21, 2021
Substantial Completion Date	November 30, 2022	November 30, 2022
Total Completion Date	May 31, 2023	May 30, 2023

**Design-Build Agreement allows for deferred paving of certain alignments within these segments due to potential weather implications in November.*

7. Site Photographs



S3: Hwy 91C – Northern limit of construction interface with existing East-West ditch. Taken January 4, 2021



S2: Hwy 17 EB > Hwy 91C EB – Some on-site ponding with the increased rain. Taken January 8, 2021



S2: Hwy 17 EB > Hwy 91C EB – Some on-site drainage measures in place during preload/embankment fill placement. Taken



S3: Hwy 91C North/Fortis ROW – Clearing & Grubbing underway. Taken January 20, 2021



S4: Hwy 91 East Side – Full peat excavation underway at toe of fill. Taken January 26, 2021



S4: Hwy 91 East Side – Width of excavation along toe of fill. Taken January 29, 2021

8. Project Cost Report

- To date, \$106 million has been spent on the Project
- The approved capital Project budget is \$260 million