November 20, 2023 GSP Official Update Package & 2023 Standard Specifications Publication

The following contains the GSPs that consist of the November 20, 2023 update package. Only the changed documents are included in this package and any unchanged sections from the last update are not included. To view all GSPs, please visit out website: https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/general-special-provisions-gsps.

The package is set up with three parts. The first part is a memo containing a listing of the revisions to the Standard Specifications that are included in the 2023 publication, available for download at: https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/manuals/standard-specifications-road-bridge-and-municipal-construction. The second part is an itemized list of the GSP file names, file types, and a brief description of the change. The third part is a memo detailing the changes in the GSPs, followed by track changes versions of the indexes and GSPs that are being updated. Please use the PDF bookmarks to navigate around this update package electronically.

If you choose to print this package, we suggest printing double sided to save paper and it is formatted to start new sub-sections on the right-hand page.

Distribution Date: November 20, 2023

Package Effective Date: November 20, 2023

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Please note: The following is a brief description of the latest updates that are being published in the 2024 Standard Specifications. The updated Sections should be reviewed in depth to become completely knowledgeable of the full extent of the revisions. Any Sections not listed below are unchanged from the 2023 Standard Specifications.

The 2024 Standard Specifications Book is effective for all WSDOT projects advertised on or after Monday, November 20, 2023.

Minor changes are not listed. The following are considered minor changes:

- Fixing errors regarding capitalization, punctuation, and spelling
- Removing the word "any" when it is not needed
- Changing the word from "any" to "all" where applicable
- Changing the word from "which" to "that" where applicable.

DIVISION 1 – General Requirements

1-01.2(1) Abbreviations and Miscellaneous

Added an abbreviation for DMCS.

1-01.3 Definitions

Added a definition for Freeway, Pathway, and Trail. (Also these words were capitalized throughout the book)

1-02.6 Preparation of Proposal

The revisions to this section move the Delivery of DBE forms into GSP 1-02.6.OPT2.GR1.

1-02.13 Irregular Proposals

GSP 1-02.13.OPT1.2024.GR1, which added SVBE Forms into this section, is incorporated into the Standard Specifications. This GSP will also be subsequently deleted as part of this update package.

1-05.3 Working Drawings

Working Drawing Licensure WACs are updated to include WAC 308, which includes additional professions.

1-06.1(4) Fabrication Inspection Expense

In Table 1, the term *culvert* is revised to *Structures*. This revision aligns with a new Standard Plan for Buried Structures.

1-06.6 Recycled Materials

In the second paragraph, corrected the Section number reference to the Table for Maximum Allowable percent (By Weight) of Recycled Material.

1-07.7(2) Load-Limit Restrictions

The term *culvert* is revised to *Structures*. This change aligns with a new Standard Plan for Buried Structures.

1-07.18(1) Insurance Provider Requirements

GSP 1-07.18(1).OPT1.2024.GR1, which restricted the use of wrap up policies, is incorporated into the Standard Specifications. This GSP will also be subsequently deleted as part of this update package.

1-07.23(1) Construction Under Traffic

Added new subsections 1-07.23(1)A, Drop-Offs and 1-07.23(1)A1, General Requirements. Item number 6 is moved under the new subsection 1-07.23(1)B, Open Trenches, and addresses both general requirements and steel plate requirements. Subsections 1-07.23(1)B1, General Requirements, 1-07.23(1)B2, Steel Plates, 1-07.23(1)B3, Signing, and 1-07.23(1)B4, Submittals are added as well.

1-08.1(7)A Payment Reporting

This section is retitled from *Payment Certification* to *Payment Reporting* and is rewritten to reflect actual DMCS process. Added that a Contractor's report of actual amount paid is due no later than the 20th of the month for payments in the prior month.

1-08.3 Progress Schedule

Section on progress schedules is reorganized and the Type C schedule is incorporated into the Standard Specifications. Preliminary schedule due date is changed from 5 days after execution of Contract to 10 days after execution of contract.

1-08.8 Extensions of Time

In the third paragraph, item number 5(h) is added regarding extensions of time for changes to railroad restrictions. Previous item numbers 5(h), 5(i), and 5(j) become 5(i), 5(j), and 5(k), respectively.

1-09.1 Measurement of Quantities

This revises the reference from AASHTO M 32 to AASHTO M 336M.

1-09.2(1)A1 Equipment

The revision to this section no longer allows for photos of tickets.

1-09.6 Force Account

The revisions to this section update markups and allowable services.

1-10.3(3)K Portable Temporary Traffic Control Signal

GSP 1-10.3(3)K.OPT1.2024.GR1 is incorporated into the Standard Specifications. This GSP will also be subsequently deleted as part of this update package.

DIVISION 2 – Roadway Excavation and Embankment

2-09.2 Materials

Lean concrete and pea gravel are added to the materials. Additionally, a statement is added that pea gravel will be accepted by visual inspection.

2-09.3(1)E Backfilling

Added lean concrete Type 1 as an acceptable backfill material.

2-09.3(2) Classification of Structure Excavation

The term *culvert* is revised to *Structures*. This change aligns with a new Standard Plan for Buried Structures.

2-09.3(3)D Shoring and Cofferdams

Minor changes to wording to clarify throughout. Under construction requirements (in the shoring section), clarified the paragraph on backfill for drilled holes for soldier piles.

2-09.4 Measurement

Revisions to the measurement for horizontal limits is included to better align with the new standard plans for buried structures.

DIVISION 3 – Acceptance of Aggregate

N/A

DIVISION 4 – Ballast and Crushed Surfacing

4-04.3(12) Permeable Ballast

This is a new subsection in the 2024 Standard Specifications. The construction requirements for permeable ballast were removed in the 2023 book as the language implied that the material was used as a shoulder finishing application. Permeable ballast is rarely used as a shoulder finishing application, however, the materials it often specified as a free draining material for other construction applications. The construction requirements for this material have been updated.

DIVISION 5 – Surface Treatments and Pavements

5-01.3(1)B Equipment for Panel Replacement

Changed reference from Section 6-09 to 6-22.

5-01.3(4)F Joints

Added clarification that this section applies to replaced concrete panels.

5-01.3(5) Partial Depth Spall Repair

The second to last paragraph is revised to change the cross reference the correct section in 5-03.

5-01.3(7) Sealing Existing Concrete Random Cracks

Added clarification that this section applies to cement concrete pavement.

5-01.3(8) Sealing Existing Transverse and Longitudinal Joint

Heading change to make transverse joints first. Added clarification that this section that it applies to cement concrete pavement.

5-01.5 Payment

Added paragraph in payment section cross referencing Section 5-03 for payment of all joint or crack sealing.

5-02.4 Measurement

Additional option for furnishing and placing crushed aggregate by the square yard.

5-02.5 Payment

Added new pay item "Furnishing and Placing Crushed ()", per square yard.

5-03.2 Materials

Added Poured Rubber Joint Seal

5-03.3 Construction Requirements, 5-03.4 Measurements, and 5-03.5 Payment

- The Construction Requirements, Measurement, and Payment sections for Crack Sealing have been reorganized, and changes are made to improve clarity of: the connection between crack/joint type and scope of work; the connection between crack/joint type and acceptable sealant; and the connection between scope of work and the corresponding bid item.
- 2. Regarding fill heights for CCP crack/joint sealing modified some tolerances and added some tolerances.
- 3. Renamed bid items related to crack sealing to be more descriptive for the types of cracks.

OLD BID ITEM NAME	OLD SPEC SECTION	NEW BID ITEM NAME	NEW SPEC SECTION
Crack Sealing – FA	5-03.3(2) 5-03.4 5-03.5	Crack Sealing Bit Pvmt – FA	5-03.3(2) 5-03.4 5-03.5
Crack Sealing ¼ inch to 1 inch in width – LF	5-03.3(2) 5-03.4 5-03.5	Crack Sealing Bit Pvmt ¼ inch to 1 inch – LF	5-03.3(2) 5-03.4 5-03.5
Crack Sealing greater than 1 inch in width – LF	5-03.3(2) 5-03.4 5-03.5	Crack Sealing Bit Pvmt wider than 1 inch – LF	5-03.3(2) 5-03.4 5-03.5
Crack Sealing – CM	5-03.3(2) 5-03.4 5-03.5	Crack Sealing Bit Pvmt – CM	5-03.3(2) 5-03.4 5-03.5
Crack Sealing – LF	5-03.3(2) 5-03.4 5-03.5	Crack Sealing Bit Pvmt - LF	5-03.3(2) 5-03.4 5-03.5

4. Renamed bid items related to bridge paving joint seals to provide a more intuitive connection between the bid item name and the scope of work. Made corresponding changes to Standard Plan A-40.20 by new GSP.

corresponding changes to etandard Flat TX 40.20 by new Ger .			
OLD BID ITEM NAME	OLD SPEC SECTION	NEW BID ITEM NAME	NEW SPEC SECTION
HMA Sawcut And Seal	5-03.3(2)C1 5-03.4 5-03.5 6-08.3(11)	HMA Joint Seal at Bridge End	5-03.3(4)A 5-03.4 5-03.5 6-08.3(11)
Paved Panel Joint Seal	5-03.3(2)C2 5-03.4 5-03.5 6-08.3(11)	HMA Joint Seal at Bridge Deck Panel Joint	5-03.3(4)B 5-03.4 5-03.5 6-08.3(11)
Sealing Existing Longitudinal and Transverse Joint	5-03.4 5-03.5	Clean and Seal Bridge Deck Panel Joint	5-03.3(5) 5-03.4 5-03.5 6-08.3(11)

5. Renamed three bid items related to CCP crack and joint sealing to provide a more intuitive connection between the bid item name and the scope of work.

OLD BID ITEM NAME	OLD SPEC SECTION	NEW BID ITEM NAME	NEW SPEC SECTION
Sealing Existing Concrete Random Crack	5-01.3(7) 5-03.3(3)A 5-03.4 5-03.5	Sealing Existing CCP Random Crack	5-01.3(7) 5-01.5 5-03.3(6)A 5-03.4 5-03.5
Sealing Existing Transverse and Longitudinal Joint	5-03.3(3)B	Sealing Existing CCP Transv	5-01.3(8) 5-01.4 5-01.5
Sealing Existing Longitudinal and Transverse Joint	5-01.3(8) 5-03.4 5-03.5	and Longit Joint	5-03.3(6)B 5-03.4 5-03.5
Longitudinal Joint Seal	5-03.3(2)B 5-03.4 5-03.5	Sealing CCP to HMA Longit Joints	5-01.4 5-01.5 5-03.3(7) 5-03.4 5-03.5

5-04.2(1) How to Get an HMA Mix Design on the QPL

Adding conditions in which a reference mix design may be extended.

5-04.2(2)B Using HMA Additives

Revisions are included to the requirements for when additives are added to High RAP/Any RAS mix designs.

5-04.3(3)A Mixing Plant

GSP 5-04.3(3)A.OPT1.2024.GR5 is incorporated into item number 5, which corrected the test method. This GSP will also be subsequently deleted as part of this update package.

5-04.3(9)A Test Sections

Removed the minimum 600-ton requirement for test sections.

5-04.3(9)A1 Test Section – When Required, When to Stop

Modified footnote number one of Table 8, removed language requiring the reference test section to be produced from the same calendar year and plant.

5-04.3(9)B4 Mixture Statistical Evaluation – Pay Factors

The revisions to this section spell out upper and lower specification limits.

5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing

Section revised to allow the Contractor to take correlation cores.

5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments

Table 16 is replaced. Contractor Coring requirements are added along with other clarifications throughout the table.

5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting

Section revised to regarding the cost correlation cores to address either WSDOT or Contractor coring options.

5-04.3(12)A2 Longitudinal Joints

Revised last paragraph regarding sealing and sawing longitudinal joints.

5-04.4 Measurement

Measurement for roadway cores revised to reference new language in Section 5-04.3(10)C4 on Contractor cores.

5-04.5 Payment

Asphalt Fog Seal payment description is revised to cross reference Section 5-02.5. Temporary Pavement Marking payment description is revised to cross reference Section 8-23.5. Water payment description is revised to cross reference Section 2-07.5.

5-05.3(1) Concrete Mix Design for Paving

This revisions adds a requirement for unique identification for each mix design.

5-05.3(8)A Contraction Joints

The last paragraph is revised to cross reference Section 5-03 for joint and crack sealing.

5-05.3(8)C Construction Joints

References corrected and clarified that measurement/payment for Construction Joints are in accordance with Section 5-03.

DIVISION 6 – Structures

6-01.10 Utilities Supported by or Attached to Bridges

Moved sheet requirement from this section to Section 9-28.12.

6-02.2 Materials

Materials reference for Threaded Anchor Rods, Nuts, and Resin Bonding Materials is added.

6-02.3(2) Proportioning Materials

Lean Concrete & Pumpable Lean concrete are removed from the *Cementitious Requirement for Concrete* table.

6-02.3(2)A Contractor Mix Design

Contractor's mix designs now require a unique identification number. Lean Concrete - Type 2 is excluded from the mix design requirements.

6-02.3(2)D Lean Concrete

Lean concrete specifications are modified and adds a new table for lean concrete.

6-02.3(4) Ready-Mix Concrete

The revision to this section states that all concrete shall be batched, unless otherwise specified.

6-02.3(9)B Casting

Early Release requirements are removed as part of plant certifications.

6-02.3(9)C Curing

The last three paragraphs of this section are aligned with item number 2, as they are part of said item.

6-02.3(16) Plans for Falsework and Formwork

Added in that plans are required for fixed form barriers regardless of the height.

6-02.3(16)B Pre-Contract Review of Falsework and Formwork Plans

The term *culvert* is revised to *Structures* when referring to buried structures.

6-02.3(18) Placing Anchor Bolts

This section is revised to distinguish between grouted anchors and resin bonded anchors.

6-02.3(18)A Resin Bonded Anchors

GSPs 6-02.3(18).OPT1.GR6 are incorporated into this new subsection 6-02.3(18)A. This GSP will also be subsequently deleted as part of this update package.

6-02.3(24)J1 Splicing Quality Control Manager

This new subsection is added; Section 6-02.3(24)J1 is renumbered to 6-02.3(24)J2 and Section 6-02.3(24)J2 is renumbered to 6-02.3(24)J3.

6-02.3(24)J3 Nondestructive Splice Tests

This section is revised to incorporate the new requirement for a Splicing Quality Control Manager.

6-02.3(26)A Post-Tensioning Materials

Changed reference from Section 6-09 to 6-21.

6-02.4 Measurement

The description of measurement for lean concrete is revised to include the new types.

6-02.5 Payment

Resin bonded anchor statement is added in. Payment for lean concrete is revised to include the new types.

6-03.3(33) Bolted Connections

The minimum bolt tensions are updated to current values shown in ASTM F3125.

6-05.3(15) Completion of Cast-In-Place Concrete Piles

The requirement to fill steel casings with Class 4000P concrete is changed to 5000P concrete to be consistent with the Bridge Design Manual.

6-07.3(2)D Hazardous Waste Containment, Collection, Testing, and Disposal Submittal Component

Additional information on containment system submittal requirement is added, as well as a new paragraph regarding hold times and permissible lead.

6-07.3(3)C Quality Control and Quality Assurance During Hold Point Inspection

New section to add requirements for hold point inspection for containment of contaminants.

6-07.3(11)B1 Submittals

These revisions clarify submittal requirements for powder coating plans.

6-07.3(11)B3 Galvanized Surface Cleaning and Preparation

The revisions to this section correct an ASTM Section reference and modifies language that clarifying specifications apply to all galvanized surfaces.

6-07.3(11)B5 Testing

The revisions to this section correct an ASTM Section reference and also modifies language that clarifying specifications apply to all galvanized surfaces.

6-08.3(1) **Definition**

The term concrete box culvert is changed to concrete box structure to be consistent with the new Standard Plan for Buried Structures.

6-02.3(7)A Concrete Deck Preparation

Changed reference from Section 6-09 to 6-21.

6-08.3(8)C Placing Waterproof Membrane

Moved language from Section 6-08.3(11): At expansion joints, the membrane shall be slack or folded to allow for Structure movements without stress to the membrane.

6-08.3(11) Paved Panel Joint Seals and HMA Sawcut and Seals

The content of this section is replaced with a cross refence to Section 5-03 for bridge joints (with the exception of the language moved into Section 6-08.3(8)C).

6-09 Vacant

A complete rewrite is underway. Class M, microsilica, and fly ash deck overlays will be moved into Section 6-21 and latex modified deck overlays is being moved into Section 6-22. See 6-21/6-21 for a summary of changes. Section 6-09 is vacated.

6-11.1 Description

This was revised to take out language referring to L walls and counterfort walls.

6-11.3(1) **Submittals**

This section is revised to clarify the requirements of the wall working drawings, and also revised to require a complete submittal regardless of what combination of precast and cast-in-place components will be required.

6-11.3(3) Precast Reinforced Concrete Wall Stem Panels

Revision in this section are meant to clarify requirements; language is revised to use similar language used in the standard plan to make it easier to follow.

6-11.3(4) Cast-In-Place Concrete Construction

Time between the concrete placement operations is changed to 24 hours to be consistent with the Standard Plans.

6-11.3(5) Backfill, Weepholes, and Gutters

Revised to say that the Cement concrete gutter shall be as shown in the Plans or Standard Plans, not just the Standard Plans.

6-11.4 Measurement

Traffic barrier/pedestrian barrier is removed.

6-11.5 Payment

The payment description for Conc. Class 4000 For Retaining Wall is revised. Additionally, the Barrier items are deleted, and Section 6-10 is referenced for payment.

6-13.3(1) Quality Assurance

The reference to the Materials Laboratory Geotechnical Services Branch is revised to read State Geotechnical Office

6-13.5 Payment

The payment description for Gravel Borrow for Structural Earth Walls is revised to include geosynthetic walls.

6-15.3(4) Preconstruction Conference

The reference to the Materials Laboratory Geotechnical Office is revised to read State Geotechnical Office.

6-15.3(6) Soil Nailing

Sentence has minor revision for clarity.

6-16.2 Materials

Lean Concrete is added.

6-16.3(5) Backfilling Shaft

The revisions to this section add a cross reference to the new information on lean concrete in Section 6-02.3(2)D.

6-16.3(6)D Installing Lagging and Permanent Ground Anchors

The revisions to this section divides the content into two sections (adding 6-16.3(6)E, Backfill Behind Lagging), rearranges the information for clarity, and is updated with a cross reference to the new information on lean concrete in Section 6-02.3(2)D.

6-17.3(4) Preconstruction Conference

The reference to the Materials Laboratory Geotechnical Services Branch is revised to read State Geotechnical Office.

6-18 Vacant

This Section, previously titled Shotcrete, is vacated. Projects requiring shotcrete specifications will use project specific provisions provided by the Bridge Office until 6-18 is updated in the 2025 Standard Specifications.

6-19.3(2)B Shaft Installation Narrative

The reference to the Geotechnical Division is revised to read State Geotechnical Office.

6-19.3(3)B3 Temporary Shaft Casing

The first sentence is split into two sentences for clarity.

6-19.3(3)B5 Permanent Slip Casing

For clarity, "column shaft construction joint" is changed to read "shaft construction joint at the base of the shaft column splice zone"

6-19.3(7)B Concrete Placement Requirements

The last sentence of the first paragraph is deleted.

6-19.3(7)D Requirements for Placing Concrete Underwater

Revisions to this section add language to require that all liquid above the shaft construction joint is to be removed prior to removing the tremie.

6-19.3(7)F Shaft Construction Joint

This section is reworded for clarity.

6-19.3(9)F Contractor's Investigation and Remedial Action Plan

This section is reworded for clarity.

6-19.5 Payment

Cleaning and preparing the shaft is added to list under "Constructing Diam. Shaft".

6-20 Buried Structures

Throughout this section the term *culvert* is either removed or replaced with the term *Structure*.

6-20.1 Description

Description of Work is revised to include Class 4000D concrete topping slabs.

6-20.1(1) Definitions

Definition for the Composite Arch System is removed. Definition for "Headwall" is revised. Definitions for "Wingwall", "Class 4000D Concrete Topping Slab", "Hydraulic Design Flood Elevation", "Zone of Influence" are added.

6-20.2 Materials

Materials requirements are expanded to include Controlled Density Fill, Lean Concrete, NEPCOAT Qualified Product List B Primer, and Class 4000D concrete topping slab.

6-20.3(1)A Design Delivery Method

This section is revised to include a reference to the Standard Plans that are being published for buried structures.

6-20.3(1)A2 Contracting Agency Supplied Design

Contractor supplied design is revised to include a reference to the Standard Plans that are being published for buried structures. Additionally, the last two sections are revised to address the process for changing from regular rebar to welded wire reinforcement. Applies to all designs, not just the new standard plans.

6-20.3(1)C General Design Criteria

In the first paragraph, additional publication references are added for tunnels. In the last paragraph, language is modified to be consistent with the Bridge Design Manual.

6-20.3(1)E Hydraulic Considerations

The last paragraph is revised to reference the Bridge Design Manual and take out specific requirement. Since scour requirements constantly evolving this will allow the update of the BDM without changing this section.

6-20.3(1)F Worker, Pedestrian and Bicycle Fall Protection

The revisions to this section update the title **Fall Protection** to **Worker**, **Pedestrian and Bicycle Fall Protection**. Additional modifications remove redundant design criteria.

6-20.3(1)H Concrete Structures

Changes to this section include modifications to the criteria for fill depth and the addition of requirements for Class 4000D concrete topping slab.

6-20.3(1)I Structural Plate Structures

The applicable chapter of the Bridge Design Manual is added to this Section. Additional requirements are added when using galvanized or zinc coated structural plate structures.

6-20.3(2)A Plans, Specifications and Calculations

For Contractor supplied Designs the working drawing requirement changes from a Type 3 to a Type 2E with a 30-day review period. There are extensive changes to this section including added components that are now required as part of this working drawing submittal.

6-20.3(2)B Load Rating Report

Design criteria for load rating is removed and replaced with the reference to the Bridge Design Manual. The last paragraph is added which removes the load rating requirements for structures conforming to the standard plan.

6-20.3(2)C Dewatering System

The previous section on fabrication shop drawings is deleted, as it has been incorporated into the section for working drawings. As a result, Section 6-20.3(2)D is renumbered to 6-20.3(2)C (Dewatering System), Section 6-20.3(2)E is renumbered to 6-20.3(2)D (Manufacturer's Installation Instructions), and 6-20.3(2)F is renumbered to 6-20.3(2)E (Installation Plan). Other minor revisions to these sections include language updates.

6-20.3(5) Excavation

Added in reference to 9-33.2(1). Modified reference from 6-20.3(2)C to 6-20.3(2)D.

6-20.3(6)A Bedding and Leveling

Title changed to read "Bedding and Leveling". Revision to paragraph clarify construction requirements for leveling materials.

6-20.3(7)A Precast Concrete Structures

Modified for clarity.

6-20.3(8) Placement and Assembly

Minor revisions to placement and assembly to cover bedding and leveling and foreign materials.

6-20.3(8)A Precast Concrete Structures

Paragraph 2 is revised to include a cross reference to primer materials in Division 9. Paragraph 3 changes the term "tongue and groove joints" to "tongue and groove (ship lap) and butt joints. The last paragraph changes the term "concrete deck" to "concrete topping slab".

6-20.3(9)A Backfilling of Structural Plate Structures

The term "structural backfill envelope" is changed to "zone of influence".

6-20.3(10) Wingwalls and Headwalls

100-year mean recurrence is revised to water surface of the Hydraulic Design Flood Elevation to be consistent with the Hydraulics Manual.

6-20.5 Payment

Payment for Class 4000D Concrete Topping Slab is to be included in the LS payment for the Contractor Designed Buried Structure.

6-21 Modified Concrete Overlay – Microsilica or Fly Ash & 6-22 Modified Concrete Overlay – Latex

These are new sections in the 2024 Standard Specifications:

- 1. Moved those portions of 6-09 related to microsilica modified concrete overlays and fly ash modified concrete overlays into new Section 6-21.
- 2. Moved those portions of Section 6-09 related to latex modified concrete overlays into new Section 6-22.
- 3. Created and defined new terms to improve clarity. (e.g., Idealized Existing Bridge Deck Surface Model", "Top of Overlay Model", "Process Wastewater", and "Scarification Depth".
- 4. Added blended hydraulic cement type 1L(X) as a 1:1 replacement option for portland cement type 1 or 2 in microsilica and fly ash modified concrete, and class M concrete.
- 5. Added a requirement to include the volume of concrete admixtures in the calculation of Water/Cementitious ratio.
- 6. Created a tolerance for excavating with a rotary milling machine. ±0.10%, and +0.01, -0.02.
- 7. Created a tolerance for excavating with a hydro-demolition machine. $\pm \frac{1}{4}$ inch of the scarification depth.
- 8. Increased the minimum pressure washer rating for "water-blasting" to 7,500 psi.
- 9. Clarified what excavation equipment is allowed versus required as scarification nears the "Scarification Depth". (Hydro-demolishing is required for the last ½ inch of scarification depth. Rotary milling is not allowed within 1 inch of rebar.)
- 10. Added requirement for the contractor to map and submit the size and location of deck repair areas.
- 11. Several changes to improve clarity on what work is associated with each pay item
- 12. Added a requirement for the contractor to scan the bridge deck for shallow rebar before beginning scarification.

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- 13. Slightly different allocation of risk for damaging rebar. (Now addresses damage to epoxy coating, caused by Hydro-demolition, above the Scarification Depth WSDOT cost.)
- 14. Several changes to better define what constitutes Type 1 versus Type 2 deck repair.
- 15. Clarified that "water-blasting" with a pressure-washer rated at a minimum of 7,500 psi (instead of sandblasting) is acceptable for final cleaning of the surface before placing the overlay.
- 16. Eliminated some instances of ambiguity caused by references to specs outside of Section 5-03, by incorporating the exact text into Section 5-03. (Paving machine, process water.)
- 17. Added responsibility for WSDOT Project Engineer to create the 3-dimensional model for (1) scarification and (2) top of overlay, using data collected by the contractor.
- 18. Several changes to clarify the required sequence of events.

<u>DIVISION 7 – Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains and Conduits</u>

7-02.2 Materials

Added steel rib reinforced polyethene culvert and HDPE pipe as acceptable thermoplastic culvert pipe, and added butyl rubber sealant to acceptable joining materials.

7-08.3(1)C Bedding the Pipe

Edited paragraph two to remove placement in loose layers.

7-08.3(3) Backfilling

Changed restriction equipment operating above a pipe until backfill reaches 3 feet.

7-08.4 Measurement

Gravel backfill for foundation or gravel backfill for pipe zone beddings description of measurement is changed from, "when used for foundation" to, "when included in the proposal."

DIVISION 8 – Miscellaneous Construction

8-01.2 Measurement

Permeable Ballast is removed from the list of materials as it is not used in Section 8-01.

8-02.3(2) Work Plans

Submittals for Roadside Work Plan and Weed and Pest Control Plan are to be submitted 15 days prior to earth disturbing plans. A Type 3 Working Drawing is required for both.

8-02.3(2)B Weed and Pest Control Plan

The requirements for the Weed and Pest Control Plan Number 2 are revised to required inclusion of a site-specific plan. Numbers 6 & 7 are added to capture the requirements of address aquatic invasive species.

8-02.3(2)C Plant Establishment Plan

Item number 3 is revised to require contact for the full duration of the contract.

8-02.3(3)A Chemical Pesticides

The website is updated in the first paragraph. The second paragraph is revised to expand upon and clarify the requirements of a licensed commercial applicator/operator.

8-02.3(3)B Roadside Seeding, Planting and Lawn Area Weed Control

Section is renamed (was Planting and Lawn Area Weed Control). Clarification is added to indicate that seeding is part of planting.

8-02.3(5)A Seeding Area Preparation

Item number 3 is changed from tilling slopes flatter than 2:1 (was 3:1).

8-02.3(5)C Planting Area Preparation

In item number 5, the term "cultivate" is changed to 'till" and 3:1 is revised to 2:1.

8-02.3(8)A Dates and Conditions for Planting

In the eighth paragraph, "drought" is added to the list of unsuitable conditions in which planting is not allowed to occur.

8-02.5 Payment

Staking is added in the paragraph under "PSIPE".

8-03.3(7)B Irrigation Sleeves

Corrected section number.

8-03.3(9)F Cross-Connection Control Device Installation

Only licensed BAT inspectors are allowed do cross connection testing. Certified Water Works Operators are removed.

8-04.3(1) Concrete Curbs, Gutters, and Spillways

This section on curbs, gutters, and spillways is revised to allow opening to traffic after the curb reaches 2500 psi strength. This will allow some flexibility for progressing the work for short term projects such as roundabout construction.

8-07.1 Description

Description was modified for clarity.

8-07.3(1) Aggregates and Proportioning

Aggregates and proportioning of precast traffic curb are updated.

8-10 Guide Posts and Barrier Delineators

This entire Section is updated including the title to incorporate barrier delineators. There are also minor changes to flexible guideposts. The existing GSPs for barrier delineators are incorporated into this section, and they will also be subsequently deleted as part of this update package:

8-10.1.OPT1.GR8

8-10.3.OPT1.GR8

8-10.3.OPT2.GR8

8-10.4.OPT1.GR8

8-10.5.OPT1.GR8

8-11.3(1)A Erection of Posts

An incidental statement was added for the polymer modified asphalt mastic.

8-11.3(1)H Guardrail Construction Exposed to Traffic

Section is updated with correction to type of terminal end section to place at the end of each work shift.

8-11.4 Measurement

GSP 8-11.4.OPT5.2024.GR8 is incorporated into the Standard Specifications. Measurement of beam guardrail anchor Type 10 anchor is changed to Type 11. This GSP will also be subsequently deleted as part of this update package.

8-11.5 Payment

GSP 8-11.5.OPT3.2024.GR8 is incorporated into the Standard Specifications. Payment of beam guardrail anchor Type 10 anchor is changed to Type 11. This GSP will also be subsequently deleted as part of this update package.

8-14.3(5)C Surface Applied Detectable Warning Surfaces

In the first sentence, removed the word ramp since surface applied detectable warning surfaces are applied at other locations (i.e., Shoulders, splitter islands). Additionally, temperature requirements for applications of DWS are removed in lieu of manufacturer recommendations. Finally, the last sentence is revised to read, "Permanent installments of surface applied detectable warning surfaces shall be secured with mechanical fasteners." This is added to reinforce the idea that glue-only is not allowed for permanent installations (temporary are still able to use the glue down version of DWS).

8-17.3 Construction Requirements

This section is revised for clarity. Information on attenuator foundations and backstops is modified to rely on the manufacturer's installation procedures as some attenuator foundations and backstops do not require steel reinforcement.

8-20.3(2) Excavating and Backfilling

The second paragraph is revised to cross reference Section 8-20.3(5)E1, Open Trenching.

8-20.3(5)B Conduit Type

Corrected typo in the first paragraph, and RMC locations in item number 2 is revised for clarification.

8-20.3(5)E1 Open Trenching

Item number 5 is revised to allow lean concrete.

8-20.3(5)E2 Conduit Plowing

Plowing is revised to allow more options but clarifies that the critical issue is that the conduit not move in the trench. The second to last paragraph is revised address cover for multiple conduits.

8-20.3(10) Service, Transformer and ITS Cabinets

Minor clarification to aerial services. Added minimum burial depth for timber poles. Also added a new paragraph. With the increased use of remote metering, clarification is added that a service rated disconnect is needed downstream of the meter (customer side). In the last paragraph, a correction to this paragraph is made as only service cabinets use service

agreement numbers. All other cabinets use a 10-character identification code. Updated to match lettering requirements for light poles. Periodic questions came up regarding cabinet labeling, particularly regarding letter height.

8-20.3(11) Testing

A new paragraph is added regarding the location of cabinet testing.

8-20.3(12) Painting

Specification for slip base faying surfaces are added as bare galvanized steel (no color; letter LS-16).

8-20.3(13)A Light Standards

The last paragraph is revised to add a minimum burial depth of 6 feet for poles shorter than 30 feet.

8-20.3(14)D Test for Induction Loops and Lead-In Cable

GSP 8-20.3(14)D.OPT1.2024.GR8 is incorporated into the Standard Specifications, correcting Test D. This GSP will also be subsequently deleted as part of this update package.

8-21.3(9)B Erection of Steel Structures

Submittal requirements are added for erection of steel structures.

8-30 Water Crossings

New Section 8-30 Water Crossings is added. Previously this content was in 8-SA4.GR8, which will be deleted along with 8-SA(9-03.11).GR8 as part of this update package. Some information will be retained as a GSP. See the GSP memo for additional information.

8-31.3(2)B Plan Requirements

GSPs 8-31.3(2)B.OPT1.2024.GR8 and 8-31.3(2)B.OPT2.2024.GR8 are incorporated into the Standard Specifications. Item number 3(a) is revised to screen intake elements and other materials. Item number 3(g) is added, addressing stream diversion bags. Item number 8 is revised, water quality impacts is changed to read exceeding allowable water quality standards. These GSPs will also be subsequently deleted as part of this update package.

8-31.3(3)A Fish Exclusion Assistance

Title is changed to Fish Exclusion Assistance (was Contractor Provided Labor). Reference to FA item is removed as it included in the payment section.

8-31.3(4) Dewatering Work Areas

GSP 8-31.3(4).OPT1.2024.GR8 is incorporated into the Standard Specification. The last paragraph regarding fish screens is revised. This GSP will also be subsequently deleted as part of this update package.

8-31.3(5) Inspection and Maintenance

The last sentence of the last paragraph is deleted. This information appears in Payment.

8-31.3(7)A Contractor Provided Labor

The last sentence is deleted. This information appears in Payment.

8-31.5 Payment

The Force account item description is revised to allow other assistance as required by the Engineer.

DIVISION 9 – Materials

9-02.1 Asphalt Material, General

Changed "approved" to "accepted" in second paragraph.

9-02.1(4) Performance Graded (PG) Asphalt Binder

Minor changes for clarification to the first paragraph.

9-02.1(6) Cationic Emulsified Asphalt

Fixed ASTM reference in second paragraph..

9-02.1(8) Flexible Bituminous Pavement Marker Adhesive

Flexible guide posts are added to the list of features that allow the use of this type of adhesive. Contractors are now limited to submission of 2 lots for adhesive. Testing for additional lots will be at the expense of the Contractor. The Flexibility test is updated to WSDOT T 432.

9-02.2(1) Certification of Shipment

Changed acceptance to be "will" rather than "may" to remove the option of other acceptance.

9-03.1(2)A Deleterious Substances

Clarified "fine" aggregate.

9-03.1(4)A Deleterious Substances

Clarified "coarse" aggregate.

9-03.1(4)C Grading

Modified last paragraph for clarification.

9-03.4(2) Grading and Quality

Modified sentence on coating for clarification.

9-03.5 Pea Gravel

Added a new section for pea gravel spec gradation.

9-03.8(2) HMA Test Requirements

Modified the last table to be greater than or equal to 3 on the last line of the table.

9-03.11 Streambed Aggregates

This section including the subsections have been updated. Streambed aggregates are updated. Limitations on deleterious materials are clarified for each gradation. Streambed gradation is changed. Streambed fine aggregate and streambed sand are added. Habitat boulders are deleted.

9-03.12(1)B Class B

Added that 9-03.10 should be for "Gravel Base".

9-03.21(1)E Steel Slag

Modified to clarify to "surface" waters of the state.

9-04.2(1) Hot Poured Joint Sealants

This section is modified by limiting to the number of lots allowed to be submitted for testing for hot poured sealants. Costs for additional testing of lots to be borne by the Contractor.

9-05.23 High-Density Polyethylene (HDPE) Pipe

Added "minimum" to specification for HDPE pipe cell classification.

9-05.51(3) Concrete Block

Removed ASTM reference, and cross-referenced Section 9-12.1 for Concrete Blocks.

9-05.51(4) Concrete Brick

Removed ASTM reference, and cross-referenced Section 9-12.2 for Concrete Bricks.

9-06.4 Resin Bonded Anchor System

Added new section for Resin Bonded Anchor System.

9-08.2 Powder Coating Materials for Coating Galvanized Surfaces

Correction of ASTM reference for Specific Gravity of Powder Coating Materials.

9-12.1 Concrete Blocks

Specification for concrete blocks for manholes is deleted.

9-14.1 Materials Submittals and Acceptance

Corrected references in table for Long Term Mulch, as well as references in table for Biodegradable Erosion Control Blanket and removed the requirement for lab results to be from NTPEP.

9-14.6(5) Wattles

Corrected cross reference for straw filler.

9-17.1(2) Reflective Sheeting

Removed type of reflective sheeting for guide posts and cross-referenced Section 9-28.12.

9-18 Barrier Delineators

This new section of the spec book is added for the materials for barrier delineation (tabs). This information was formerly located in GSP 8-10.2.OPT1.GR8, which will be deleted as part of this update package.

9-28.1 **General**

Sign sheeting requirements is updated to match the current Traffic Manual.

9-28.10 Digital Printing

Minor revision to change "department" to be "Contracting Agency"

9-28.12 Reflective Sheeting

Reflective sheeting table is updated. ATMS D4956 is referenced and duplicate information from the ASTM is deleted from Section 9-28.12.

9-29.6 Light and Signal Standards

Testing standards for light, signal, and slip base hardware are updated.

9-29.6(1) Steel Light and Signal Standards

The third sentence is deleted, as testing standards referenced are only applicable to hardware.

9-29.6(3) Timber Light Standards, Timber Strain Poles, Timber Service Supports

This revision updates the treatment for timber poles.

9-29.6(5) Foundation Hardware

The last paragraph is deleted as it was a duplication of testing standards (see first paragraph).

9-29.13(10)D Cabinets for Type 2070 Controllers

GSP 8-20.2(9-29.13(10)D).OPT1.2024.GR8 is incorporated into the Standard Specifications, which made a correction to item number 1. This GSP will also be subsequently deleted as part of this update package.

9-29.13(12)

GSP 8-20.2(9-29.13(12)).OPT1.2024.GR8 is incorporated into the Standard Specifications, which made a correction to item number 3. This GSP will also be subsequently deleted as part of this update package.

9-32.1 Type 1 Mailbox Support

This revision retitles this section and adds the MASH requirement Type 1 mailbox supports.

9-32.7 Type 2 Mailbox Support

This revision removes the option of Type 2 mailbox supports meeting NCHRP 350.

9-35.3 Work Zone Sign Posts

This section's title, previously "Wood Sign Posts", is revised to "Work Zone Sign Posts". The new table has updated sizes for wood posts and now includes the option of using steel posts in work zones.

9-35.14 Portable Temporary Traffic Control Signal

GSP 1-10.3(3)K(9-35.14).OPT1.2024.GR1 is incorporated into the Standard Specifications. This GSP will also be subsequently deleted as part of this update package.

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Please note: New revisions to WSDOT General Special Provisions are described below. Previous GSPs that are not revised in this package are still in effect. Special Provisions take precedence over the Standard Specifications in accordance with Section 1-04.2.

The following list is a brief description of the latest revisions, with an explanation of why each change was made. The actual provisions should be reviewed in depth to become completely knowledgeable of the full extent of the revisions. These provisions will be available at the following location:

https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/general-special-provisions-gsps

INTRODUCTION

INTRO.GR1

Changed to reference the 2024 Standard Specifications.

DIVISION 1 – General Requirements

There were minor revisions throughout the instructions which are not called out below. These changes fixed errors in the instruction or added a description for the GSP but did not change intent.

1-02.4(1).OPT1.FR1 - Revised use instructions only.

Instructions for when to use this GSP (reference information) have been modified to add electronic design files.

1-02.6.OPT1.FR1 - Renamed - was 1-02.6.OPT8.FR1

This GSP (maximum funds available) and the associated instructions were renamed and reordered. No changes to text were made. 1-02.6.INST4.GR1 was renamed to 1-02.6.INST1.GR1 as part of this change.

1-02.6.OPT2.GR1 - Revised and Renamed - was 1-02.6.OPT3.GR1

This GSP (subcontractor list not required) was revised to delete the fourth and fifth paragraph rather than the fifth and sixth due to changes in the 2024 Standard Specifications. It was also renamed and reordered.

1-02.6.OPT3.NEW.GR1 - New GSP

This GSP (delivery of DBE forms) was added. This replaces the paragraph which was removed from the 2024 Standard Specifications with instructions to only be used in Federal Aid Projects.

1-02.6.OPT4.GR1 - Renamed - was 1-02.6.OPT1.GR1

This GSP (SVBE) was renamed and reordered. No changes to text were made.

1-02.6.OPT5.NEW.FR1 - Renamed - was 1-02.6.OPT4.FR1

This GSP (Alternative Bids) was renamed and reordered. No changes to text were made.

1-02.6.OPT6 - Renamed - was 1-02.6.OPT5.FR1

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This GSP (Cumulative Alternative Bidding) was renamed and reordered. No changes to text were made.

1-02.9.OPT1.GR1 - Revised

This GSP (DBE document submittal) was revised for clarity and to add in missing form numbers. The trucking credit form was removed from this GSP and added to 5 days after Award in GSP 1-03.3.OPT2.GR1.

1-02.9.OPT2.GR1 - Revised

This GSP (SVBE document submittal) was revised for clarity.

1-02.13.OPT1.2024.GR1 - Deleted

This GSP (SVB plan and forms) and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-03.3.OPT2.GR1 - New

This new GSP (DBE trucking form) was added to change the DBE trucking forms submittal to 5 days after Award.

1-04.2.OPT1.GR1 - Revised

This GSP (Unifier) was revised for clarify that form needs to be submitted for new users throughout the life of the Contract.

1-07.11.OPT8.FR1 - Deleted

This GSP (FTA DBE) was deleted. FTA projects will now use 1-07.11.OPT3.FR1 instead when there is a Condition of Award.

1-07.12.OPT1.GR1 – Revised with interim GSP

The interim GSP dated 10/3/2023 was added to this package. This updated the Federal Aid Provision Form.

1-07.18(1).OPT1.2024.GR1 - Deleted

This GSP (no wrap up insurance policy) and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-07.18(5),OPT2.2025.GR1 - New GSP

This GSP (OCP) revised the supplemental insurance form to the correct form number.

1-07.18(5).OPT1.FR1 - Revised

This GSP (OCP) revised the supplemental insurance form to the correct form number.

1-07.28(8).OPT1.GR1 - Revised use instructions only

Instructions for when to use this GSP (Railroad flagging or protective services) was reworded to add clarity.

1-08.3(1).OPT1.GR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

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1-08.3(2).NEW.GR1 - Renamed - was 1-08.3(1).GR1

The General Requirement heading moved from Section 1-08.3(1) to 1-08.3(2) due to reordering of Section 1-08.3 in the 2024 Standard Specifications.

1-08.3(2).OPT2.FR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-08.3(2)B.OPT1.FR1 - Revised and Renamed - was 1-08.3(1).OPT2.FR1

This GSP and the associated instructions were renamed and revised due section number changes in the 2024 Standard Specifications.

1-08.3(2).OPT2.FR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-08.3(3).OPT1.GR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-08.3(4).OPT1.GR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-08.3(5).OPT1.GR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications. The Bid Item "Schedule Update" has also been deleted.

1-08.3(5).OPT2.GR1

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-08.9.INST2.GR1 - Deleted

This instruction statement was in error. All the Liquidated Damage Specs should be supplementing 1-08.9 rather than revising.

1-08.9.INST1.GR1 - Renamed - Was 1-08.9.INST3.GR1

The GSPs in 1-08.9 were reordered so the main GSP referenced in the Standard Specifications is first and then the supplemental ones.

1-08.9.OPT1.NEW.FR1 - Renamed - Was 1-08.9.OPT3.FR1

The GSPs in 1-08.9 were reordered so the main GSP referenced in the Standard Specifications is first and then the supplemental ones.

1-08.9.OPT2.NEW.FR1 - Renamed - Was 1-08.9.OPT1.FR1

The GSPs in 1-08.9 were reordered so the main GSP referenced in the Standard Specifications is first and then the supplemental ones.

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1-08.9.OPT3.NEW.FR1 - Renamed - Was 1-08.9.OPT2.FR1

The GSPs in 1-08.9 were reordered so the main GSP referenced in the Standard Specifications is first and then the supplemental ones.

1-09.2(1)A1.OPT1.2024.GR1 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications.

1-09.3.OPT1.GR1 - Revised use instructions only

Instructions for when to use this GSP (Fuel Cost Adjustment) was updated to include new fuel usage factors.

1-10 - Revised use instructions

Through Section 1-10 use instructions were revised to allow added items to be part of lump sum traffic control.

1-10.3(3).OPT3.FR1 - Revised

This GSP (smart work zone system) was revised to update the vendors.

1-10.3(3).OPT4.FR1 - Revised

This GSP (queue warning system) was revised to update the vendors.

1-10.3(3)B(9-35.4).OPT1.2025.GR1 - Renamed - was 1-10.3(3)B(9-35.4).OPT1.2024.GR1

This GSP (GPS and remote communication requirements for sequential arrow signs) was renamed since it was not included in the 2024 Standard Specifications.

1-10.3(3)K.OPT1.2024.GR1 - Deleted

This GSP (portable temporary traffic control signal) and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

1-10.3(3)K(9-35.14).OPT1.2024.GR1 - Deleted

This GSP (portable temporary traffic control signal) and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

1-10.5(2).OPT1.GR1 - Revised

This GSP (automated flagger assistance devices) was revised to remove operating from the payment. Operation is paid for by "Flaggers".

DIVISION 2 – Roadway Excavation and Embankment

There were minor revisions throughout the instructions for use in the Index file which are not called out below. These changes fixed errors in the instruction or added a description for the GSP but did not change intent or when to use. A new Index is included in this package.

There were no revisions, deletions, or new GSPs added to Division 2.

DIVISION 3 – Acceptance of Aggregate

N/A – no changes to Division 3 GSPs

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DIVISION 4 – Ballast and Crushed Surfacing

N/A – no changes to Division 4 GSPs

DIVISION 5 - Surface Treatments And Pavements

5-03.3(2)B.OPT1.2024.GR5 - Deleted

All crack and joint sealing GSPs have been deleted. GSP information was incorporated into the 2024 Standard Specifications.

5-03.3(3)C.OPT1.2024.GR5 - Deleted

All crack and joint sealing GSPs have been deleted. GSP information was incorporated into the 2024 Standard Specifications.

5-03.5.OPT1.2024.GR5 - Deleted

All crack and joint sealing GSPs have been deleted. GSP information was incorporated into the 2024 Standard Specifications.

5-04.2(1)A2.OPT1.2024.GR5 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

5-04.2(9-03.21(1)A).OPT1.2025.GR1 - Renamed - was 5-04.2(9-03.21(1)A).OPT1.2024.GR1

This GSP was renamed since it was not included in the 2024 Standard Specifications. No other changes were made to this GSP.

5-04.3(3)A.OPT1.2024.GR5 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

5-05.1.OPT1.GR5 – Revised use instructions only

A table for which GSPs to use for pigmented, textured, or both pigmented and textured concrete was added.

5-05.2.OPT1.GR5 - New

This is a new GSP for when color treated concrete will be "Brick Red".

5-05.2.OPT2.FR5 – Renamed and revised – was 5-05.2.OPT1.FR5

This is a new GSP for when color treated concrete will be any color other than "Brick Red".

5-05.3.OPT2.FR5 - Revised use instructions only

The tables for pattern manufactures were updated.

5-05.3(1).OPT8.GR5 - Revised

This was revised to add change to a combined aggregate for textured concrete.

DIVISION 6 – Structures

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6-02.2.OPT1.GR6 - Deleted

This GSP was deleted. Resin Bonded Anchor requirements were added to the Standard Specifications. References to use this GSP were deleted from the index.

6-02.2.OPT60(C).GB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-02.3.OPT8(L).GB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-02.3(5)G.OPT1.2025.GR6 - New

This GSP fixes an error in the frequency of concrete testing.

6-02.3(18).OPT1.GR6 - Deleted

This GSP and its associated instructions were deleted. Resin Bonded Anchor requirements were added to the Standard Specifications. References to use this GSP were deleted from the index.

6-02.3(25)L2.OPT1.2025.GR6 - New

This GSP fixes an error in the table for girder lateral stability and stress analysis.

6-06.2.OPT1.GB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-06.2.OPT8.FB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-06.3(2).OPT1.GB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-06.3(2).OPT7.GB6 - Revised

This GSP was revised to delete the resin bonded anchor reference to the Special Provisions.

6-09 - Deleted

All GSPs and their associated instructions for Section 6-09 were deleted. 6-09 is Vacant in the book. Modified Concrete Overlays are now Section 6-21 (microsilica or fly ash) or 6-22 (latex).

6-11 - NEW

6-11.2, 6-11.3, 6-11.4, and 6-11.5 GSPs are added including instructions to add in requirements for precast reinforced concrete retaining walls until they are added to the 2025 book.

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6-16.3(3).OPT1.2025.GR6 - New

This was revised to remove the word "minimum" before diameter. Too large of a diameter can also cause problems.

6-18.SA1.2025.GR6 - New

This adds back in Section 6-18 which was vacated in the 2024 Standard Specifications.

6-18.2.OPT1.GB6 - Deleted

This GSP has been incorporated into 6-18.SA1.2025.GR6.

6-18.3.OPT1.GB6 - Deleted

This GSP has been incorporated into 6-18.SA1.2025.GR6.

6-18.4.OPT1.GB6 - Deleted

This GSP has been incorporated into 6-18.SA1.2025.GR6. New measurement is by the square yard.

6-18.5.OPT1.GB6 - Deleted

This GSP has been incorporated into 6-18.SA1.2025.GR6. Payment has changed from "Shotcrete Facing For Rock/Soil Slope Stabilization", per cubic yard to "Shotcrete Facing", per square foot.

6-20.3(1).OPT1.2025.GR6 - NEW

This GSP was revised to clarify that the Contractor needs to supplement the Geotech report for any walls and foundations not covered.

DIVISION 7 – Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains and Conduits

N/A – no changes to Division 7 GSPs

DIVISION 8 - Miscellaneous Construction

8-10.1.OPT1.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

8-10.1.OPT1A.GR8 - New GSP

This is a new GSP with the description for linear delineation panels.

8-10.2.OPT1.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

8-10.2.OPT1A.GR8 - New GSP

This is a new GSP with the material requirements for linear delineation panels.

8-10.3.OPT1.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

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8-10.3.OPT2.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

8-10.3.OPT1A.GR8 - New GSP

This is a new GSP with the construction requirements for linear delineation panels.

8-10.4.OPT1.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

8-10.4.OPT1A.GR8 - New GSP

This is a new GSP with the measurement for linear delineation panels.

8-10.5.OPT1.GR8 - Deleted

This GSP (barrier delineators) was deleted as it has been incorporated into the 2024 Standard Specifications

8-10.5.OPT1A.GR8 - New GSP

This is a new GSP with the payment for linear delineation panels.

8-11.2.OPT2.FR8 - Revised GSP

This GSP (cable barrier) was revised to update to MASH-16 requirements rather than NCHRP 350.

8-11.3.OPT2.FR8 - Revised GSP

This GSP (cable barrier) was revised to add clarity. References for a 3-cable system were removed.

8-11.4.OPT5.2024.GR5 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-11.5.OPT3.2024.GR5 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-20.2(9-29.6(2).OPT1.2025.GR8 - New GSP

This GSP and the associated instructions were added to allow the keeper plate to be either 28 or 26 gage due to procurement issues for the 28 gage.

8-20.2(9-29.6(2).OPT1.2025.GR8 - New GSP

This GSP and the associated instructions were added to allow the use of pentachlorophenol treatment of timber poles until existing stock is used up or banned.

8-20.2(9-29.13(10)D).OPT1.2024.GR8 - Deleted

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This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-20.2(9-29.13(11).OPT1.GR8 - Revised

This GSP was revised to update a supplier name and address.

8-20.2(9-29.13(12)).OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-20.3.OPT1.FR8 - New GSP

This GSP and the associated instructions were added to allow equipment being removed to stay the property of WSDOT.

8-20.3(14)D.OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-21.2(9-28.12).OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-31.3(2)B.OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-31.3(2)B.OPT2.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-31.3(4).OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

8-31.3(2)B.OPT1.2024.GR8 - Deleted

This GSP and the associated instructions were deleted as it has been incorporated into the 2024 Standard Specifications

DIVISION 9 - Materials

STDPLANS.GR9 - Revised

Revised to chapter changes with the new publication to the Standard Plans.

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<u>Deleted GSPs</u>
The following is a list of all GSPs that have been deleted as part of this package.

1-02.6.INST2.GR1	5-03.3(2)B.INST1.GR5
1-02.6.OPT1.GR1	5-03.3(2)B.OPT1.2024.GR5
1-02.6.OPT3.GR1	5-03.3(3)C.INST1.GR5
1-02.6.OPT4.FR1	5-03.3(3)C.OPT1.2024.GR5
1-02.6.OPT5.FR1	5-03.5.INST1.GR5
1-02.6.INST4.GR1	5-03.5.OPT1.2024.GR5
1-02.6.OPT8.FR1	5-04.2(1)A2.INST1.GR5
1-02.13.GR1	5-04.2(1)A2.OPT1.2024.GR5
1-02.13.INST1.GR1	5-04.2(9-03.21(1)A).OPT1.2024.GR5
1-02.13.OPT1.2024.GR1	5-04.3(3)A.INST1.GR5
1-07.11.OPT8.FR1	5-04.3(3)A.OPT1.2024.GR5
1-07.18(1).GR1	6-02.2.OPT1.GR6
1-07.18(1).INST1.GR1	6-02.3(18).INST1.GR6
1-07.18(1).OPT1.2024.GR1	6-02.3(18).OPT1.GR6
1-08.3(1).GR1	6-09.GR6
1-08.3(1).INST1.GR1	6-09.2.GR6
1-08.3(1).OPT1.GR1	6-09.2.OPT1.2025.GR6
1-08.3(1).INST2.GR1	6-09.2.INST1.GR6
	6-09.2.0PT8.BSP.GB6
1-08.3(1).OPT2.FR1	
1-08.3(2).GR1	6-09.3.GR6
1-08.3(2).INST3.GR1	6-09.3(1).GR6
1-08.3(2).OPT2.FR1	6-09.3(1).INST1.GR6
1-08.3(3).GR1	6-09.3(1).OPT1.BSP.GB6
1-08.3(3).INST1.GR1	6-09.3(2).GR6
1-08.3(3).OPT1.GR1	6-09.3(2).INST1.GR6
1-08.3(4).GR1	6-09.3(2).OPT1.BSP.GB6
1-08.3(4).INST1.GR1	6-09.3(3).GR6
1-08.3(4).OPT1.GR1	6-09.3(3).INST1.GR6
1-08.3(5).GR1	6-09.3(3).OPT1.GB6
1-08.3(5).INST1.GR1	6-09.3(3).OPT2.GB6
1-08.3(5).OPT1.GR1	6-09.3(3).OPT3.GB6
1-08.3(5).OPT2.GR1	6-09.3(3).OPT9.BSP.GB6
1-08.9.INST2.GR1	6-09.3(3).OPT10.BSP.GB6
1-09.2.GR1	6-09.3(3)A.GR6
1-09.2(1).GR1	6-09.3(3)A.INST1.GR6
1-09.2(1)A.GR1	6-09.3(3)A.OPT1.2025.GR6
1-09.2(1)A1.GR1	6-09.3(3)B.GR6
1-09.2(1)A1.INST1.GR1	6-09.3(3)B.INST1.GR6
1-09.2(1)A1.OPT1.2024.GR1	6-09.3(3)B.OPT1.2025.GR6
1-10.3(3)B(9-35.4).OPT1.2024.GR1	6-09.3(3)C.GR6
1-10.3(3)K.GR1	6-09.3(3)C.INST1.GR6
1-10.3(3)K.INST1.GR1	6-09.3(3)C.OPT1.2025.GR6
1-10.3(3)K.OPT1.2024.GR1	6-09.3(3)D.GR6
1-10.3(3)K(9-35.14).GR1	6-09.3(3)D.INST1.GR6
1-10.3(3)K(9-35.14).OPT1.2024.GR1	6-09.3(3)D.OPT1.2025.GR6

6-09.3(3)E.GR6	6-09.5.OPT8.BSP.GB6
6-09.3(3)E.INST1.GR6	6-09.5.OPT9.BSP.GB6
6-09.3(3)E.OPT1.2025.GR6	6-09.5.OPT11.GB6
6-09.3(4).GR6	6-18.2.OPT1.GB6
6-09.3(4).INST1.GR6	6-18.3.INST1.GR6
` '	6-18.3.OPT1.GB6
6-09.3(4).OPT1.BSP.GB6	6-18.4.INST1.GR6
6-09.3(5),GR6	6-18.4.OPT1.GB6
6-09.3(5).INST1.GR6	
6-09.3(5).OPT1.GB6	6-18.5.INST1.GR6
6-09.3(5).OPT2.GB6	6-18.5.OPT1.GB6
6-09.3(5).OPT7.GB6	8-10.1.OPT1.GR8
6-09.3(5).OPT8.BSP.GB6	8-10.2.OPT1.GR8
6-09.3(5).OPT9.BSP.GB6	8-10.3.OPT1.GR8
6-09.3(5).OPT10.BSP.GB6	8-10.3.OPT2.GR8
6-09.3(6).GR6	8-10.4.OPT1.GR8
6-09.3(6)B.GR6	8-10.5.OPT1.GR8
6-09.3(6)B.INST1.GR6	8-11.4.INST2.GR8
6-09.3(6)B.OPT1.GB6	8-11.4.OPT5.2024.GR8
6-09.3(6)C.GR6	8-11.5.INST1.GR8
6-09.3(6)C.INST1.GR6	8-11.5.OPT3.2024.GR8
6-09.3(6)C.OPT2.BSP.GB6	8-20.2(9-29.13(10)D).INST1.GR8
6-09.3(8).GR6	8-20.2(9-29.13(10)D).OPT1.2024.GR8
6-09.3(8).INST1.GR6	8-20.2(9-29.13(12)).INST1.GR8
6-09.3(8).OPT4.BSP.GB6	8-20.2(9-29.13(12)).OPT1.2024.GR8
6-09.3(8).OPT4.BSP.GB6	8-20.3(14)D.INST1.GR8
6-09.3(9).GR6	8-20.3(14)D.OPT1.2024.GR8
6-09.3(9).INST1.GR6	8-21.2(9-28.12).GR8
6-09.3(9).OPT2.BSP.GB6	8-21.2(9-28.12).OPT1.2024.GR8
6-09.3(10).GR6	8-31.3(2)B.INST1.GR8
6-09.3(10).INST1.GR6	8-31.3(2)B.OPT1.2024.GR8
6-09.3(10).OPT1.BSP.GB6	8-31.3(2)B.INST2.GR8
6-09.3(11).GR6	8-31.3(2)B.OPT2.2024.GR8
6-09.3(11).INST1.GR6	8-31.3(4).INST1.GR8
6-09.3(11).OPT2.BSP.GB6	8-31.3(4).OPT1.2024.GR8
6-09.3(12).GR6	8-SA4.FR8
6-09.3(12).INST1.GR6	8-SA4(9-03.11).GR8
6-09.3(12).OPT2.BSP.GB6	
6-09.3(13).GR6	
6-09.3(13).INST1.GR6	
6-09.3(13).OPT2.BSP.GB6	
6-09.3(14).GR6	
6-09.3(14).INST1.GR6	
6-09.3(14).OPT1.BSP.GB6	
6-09.4.GR6	
6-09.4.INST1.GR6	
6-09.4.OPT2.BSP.GB6	
6-09.5.GR6	
6-09.5.INST2.GR6	
6-09.5.OPT7.BSP.GB6	

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FILE	Туре	Revision	Notes
1-02.6.OPT2.GR1	GSP Option	Rename and Revise	Was 1-02.6.OPT3.GR1
1-02.13.GR1	GSP Heading	Delete	
1-02.13.INST1.GR1	GSP Instruction	Delete	
1-02.13.OPT1.2024.GR1	GSP Option	Delete	
1-02.4(1).OPT1.FR1	GSP Option	Index change only	
1-02.6.INST1.GR1	GSP Instruction	Rename	Was 1-02.6.INST4.GR1
1-02.6.INST2.GR1	GSP Instruction	Delete	
1-02.6.INST4.GR1	GSP Instruction	Rename	Now 1-02.6.INST1.GR1
1-02.6.OPT1.FR1	GSP Option	Rename	Was 1-02.6.OPT8.FR1
1-02.6.OPT1.GR1	GSP Option	Rename	Now to 1-02.6.OPT4.GR1
1-02.6.OPT3.GR1	GSP Option	Rename and Revise	Now to 1-02.6.OPT2.GR1
1-02.6.OPT3.NEW.GR1	GSP Option	New	
1-02.6.OPT4.FR1	GSP Option	Rename	Now 1-02.6.OPT5.NEW.FR1
1-02.6.OPT4.GR1	GSP Option	Rename	Was 1-02.6.OPT1.GR1
1-02.6.OPT5.FR1	GSP Option	Rename	Now to 1-02.6.OPT6.FR1
1-02.6.OPT5.NEW.FR1	GSP Option	Rename	Was 1-02.6.OPT4.FR1
1-02.6.OPT6.FR1	GSP Option	Rename	Was 1-02.6.OPT5.FR1
1-02.6.OPT8.FR1	GSP Option	Rename	Now 1-02.6.OPT1.FR1
1-02.9.OPT1.GR1	GSP Option	Revise	
1-02.9.OPT2.GR1	GSP Option	Revise	
1-03.3.OPT2.GR1	GSP Option	New	
1-04.2.OPT1.GR1	GSP Option	Revise	
1-07.11.OPT8.FR1	GSP Option	Delete	Not in package sent in Sept.
1-07.12.GR1	GSP Heading	Revise	Sent as Interim on 10/3
1-07.18(1).GR1	GSP Heading	Delete	
1-07.18(1).INST1.GR1	GSP Instruction	Delete	
1-07.18(1).OPT1.2024.GR1	GSP Option	Delete	
1-07.18(5).OPT1.FR1	GSP Option	Revise	
1-07.18(5).OPT2.2025.GR1	GSP Option	New	
1-07.28(8).OPT1.GR1	GSP Option	Index change only	
1-08.3(1).GR1	GSP Heading	Rename	Now 1-08.3(2).NEW.GR1
1-08.3(1).INST1.GR1	GSP Instruction	Delete	
1-08.3(1).INST2.GR1	GSP Instruction	Rename and Revise	Now 1-08.3(2)B.INST1.GR1
1-08.3(1).OPT1.GR1	GSP Option	Delete	
1-08.3(1).OPT2.FR1	GSP Option	Rename and Revise	Now 1-08.3(2)B.OPT1.FR1

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FILE	Туре	Revision	Notes
1-08.3(2).GR1	GSP Heading	Delete	
1-08.3(2).INST3.GR1	GSP Instruction	Delete	
1-08.3(2).NEW.GR1	GSP Heading	Rename	Was 1-08.3(1).GR1
1-08.3(2).OPT2.FR1	GSP Option	Delete	
1-08.3(2)B.GR1	GSP Heading	New	
1-08.3(2)B.INST1.GR1	GSP Instruction	Rename and Revise	Was 1-08.3(1).INST2.GR1
1-08.3(2)B.OPT1.FR1	GSP Option	Rename and Revise	Was 1-08.3(1).OPT2.FR1
1-08.3(3).GR1	GSP Heading	Delete	
1-08.3(3).INST1.GR1	GSP Instruction	Delete	
1-08.3(3).OPT1.GR1	GSP Option	Delete	
1-08.3(4).GR1	GSP Heading	Delete	
1-08.3(4).INST1.GR1	GSP Instruction	Delete	
1-08.3(4).OPT1.GR1	GSP Option	Delete	
1-08.3(5).GR1	GSP Heading	Delete	
1-08.3(5).INST1.GR1	GSP Instruction	Delete	
1-08.3(5).OPT1.GR1	GSP Option	Delete	
1-08.3(5).OPT2.GR1	GSP Option	Delete	
1-08.9.INST1.GR1	GSP Instruction	Rename	Was 1-08.9.INST3.GR1 - Not in package sent in Sept.
1-08.9.INST2.GR1	GSP Instruction	Delete	Not in package sent in Sept.
1-08.9.OPT1.NEW.FR1	GSP Option	Rename	Was 1-08.9.OPT3.FR1. Not in package sent in Sept.
1-08.9.OPT2.NEW.FR1	GSP Option	Rename	Was 1-08.9.OPT1.FR1. Not in package sent in Sept.
1-08.9.OPT3.NEW.FR1	GSP Option	Rename	Was 1-08.9.OPT2.FR1. Not in package sent in Sept.
1-09.2(1).GR1	GSP Heading	Delete	
1-09.2(1)A.GR1	GSP Heading	Delete	
1-09.2(1)A1.GR1	GSP Heading	Delete	
1-09.2(1)A1.INST1.GR1	GSP Instruction	Delete	
1-09.2(1)A1.OPT1.2024.GR1	GSP Option	Delete	
1-09.2.GR1	GSP Heading	Delete	
1-09.3.OPT1.FR1	GSP Option	Index change only	
1-10.1(1).OPT1.GR1	GSP Option	Index change only	
1-10.2(9-35).OPT1.GR1	GSP Option	Index change only	
1-10.3(3)(9-35.8).OPT1.GR1	GSP Option	Index change only	
1-10.3(3).OPT1.GR1	GSP Option	Index change only	
1-10.3(3).OPT2.GR1	GSP Option	Index change only	
1-10.3(3).OPT3.FR1	GSP Option	Revise	
1-10.3(3).OPT4.FR1	GSP Option	Revise	
1-10.3(3).OPT5.GR1	GSP Option	Index change only	
1-10.3(3)B(9-35.4).OPT1.2024.GR1	GSP Option	Rename	Now 1-10.3(3)B(9-35.4).OPT1.2025.GR1

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FILE	Туре	Revision	Notes
1-10.3(3)B(9-35.4).OPT1.2025.GR1	GSP Option	Rename	Was 1-10.3(3)B(9-35.4).OPT1.2024.GR1
1-10.3(3)K(9-35.14).GR1	GSP Heading & Instruction	Delete	
1-10.3(3)K(9-35.14).OPT1.2024.GR1	GSP Option	Delete	
1-10.3(3)K.GR1	GSP Heading	Delete	
1-10.3(3)K.INST1.GR1	GSP Instruction	Delete	
1-10.3(3)K.OPT1.2024.GR1	GSP Option	Delete	
1-10.4(2).OPT1.GR1	GSP Option	Index change only	
1-10.4(2).OPT2.GR1	GSP Option	Index change only	
1-10.4(2).OPT3.GR1	GSP Option	Index change only	
1-10.4(2).OPT5.GR1	GSP Option	Index change only	
1-10.4(2).OPT7.GR1	GSP Option	Index change only	
1-10.4(2).OPT8.GR1	GSP Option	Index change only	
1-10.5(2).OPT1.GR1	GSP Option	Revise	
1-10.5(2).OPT2.GR1	GSP Option	Index change only	
1-10.5(2).OPT3.GR1	GSP Option	Index change only	
1-10.5(2).OPT4.GR1	GSP Option	Index change only	
1-10.5(2).OPT6.GR1	GSP Option	Index change only	
1-10.5(2).OPT7.GR1	GSP Option	Index change only	
5-03.3(2).GR5	GSP Heading	Index change only	
5-03.3(2)B.GR5	GSP Heading	Index change only	
5-03.3(2)B.INST1.GR5	GSP Instruction	Delete	
5-03.3(2)B.OPT1.2024.GR5	GSP Option	Delete	
5-03.3(3).GR5	GSP Heading	Index change only	
5-03.3(3)C.GR5	GSP Heading	Index change only	
5-03.3(3)C.INST1.GR5	GSP Instruction	Delete	
5-03.3(3)C.OPT1.2024.GR5	GSP Option	Delete	
5-03.3.GR5	GSP Heading	Index change only	
5-03.5.GR5	GSP Heading	Index change only	
5-03.5.INST1.GR5	GSP Instruction	Delete	
5-03.5.OPT1.2024.GR5	GSP Option	Delete	
5-03.GR5	GSP Heading	Index change only	
5-04.2(1).GR5	GSP Heading	Index change only	
5-04.2(1)A.GR5	GSP Heading	Index change only	
5-04.2(1)A2.GR5	GSP Heading	Index change only	
5-04.2(1)A2.INST1.GR5	GSP Instruction	Delete	
5-04.2(1)A2.OPT1.2024.GR5	GSP Option	Delete	
5-04.2(9-03.21(1)A).OPT1.2024.GR5	GSP Option	Rename	Now 5-04.2(9-03.21(1)A).OPT1.2025.GR5
5-04.2(9-03.21(1)A).OPT1.2025.GR5	GSP Option	Rename	Was 5-04.2(9-03.21(1)A).OPT1.2024.GR5

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5-04.3(3)A.GR5	GSP Heading	Index change only	
5-04.3(3)A.INST1.GR5	GSP Instruction	Delete	
5-04.3(3)A.OPT1.2024.GR5	GSP Option	Delete	
5-05.1.OPT1.GR5	GSP Option	Index change only	
5-05.2.OPT1.FR5	GSP Option	Rename and Revise	Now 5-05.2.OPT2.FR5
5-05.2.OPT1.GR5	GSP Option	New	
5-05.2.OPT2.FR5	GSP Option	Rename and Revise	Was 5-05.2.OPT1.FR5
5-05.3(1).OPT2.GR5	GSP Option	Rename and Revise	Was 5-05.3(1).OPT8.GR5
5-05.3(1).OPT8.GR5	GSP Option	Rename and Revise	Now 5-05.3(1).OPT2.GR5
5-05.3.OPT1.GR5	GSP Option	Index change only	
5-05.3.OPT2.FR5	GSP Option	Index change only	
6-02.2.OPT1.GR6	GSP Option	Delete	
6-02.2.OPT60(C).GB6	GSP Option	Revise	
6-02.3(18).GR6	GSP Heading	Index change only	
6-02.3(18).INST1.GR6	GSP Instruction	Delete	
6-02.3(18).OPT1.GR6	GSP Option	Delete	
6-02.3(25).GR6	GSP Heading	Index change only	
6-02.3(25)L.GR6	GSP Heading	Index change only	
6-02.3(25)L2.GR6	GSP Heading	New	
6-02.3(25)L2.INST1.GR6	GSP Instruction	New	
6-02.3(25)L2.OPT1.2025.GR6	GSP Option	New	
6-02.3(5).GR6	GSP Heading	Index change only	
6-02.3(5)G.GR6	GSP Heading	Index change only	
6-02.3(5)G.INST1.GR6	GSP Instruction	New	
6-02.3(5)G.OPT1.2025.GR6	GSP Instruction	New	
6-02.3.OPT8(L).GB6	GSP Option	Revise	
6-06.2.OPT1.GB6	GSP Option	Revise	
6-06.2.OPT8.FB6	GSP Option	Revise	
6-06.3(2).OPT1.GB6	GSP Option	Revise	
6-06.3(2).OPT7.GB6	GSP Option	Revise	
6-09.2.GR6	GSP Heading	Delete	
6-09.2.INST1.GR6	GSP Instruction	Delete	
6-09.2.OPT1.2025.GR6	GSP Option	Delete	
6-09.2.OPT8.BSP.GB6	GSP Option	Delete	
6-09.3(1).GR6	GSP Heading	Delete	
6-09.3(1).INST1.GR6	GSP Instruction	Delete	
6-09.3(1).OPT1.BSP.GB6	GSP Option	Delete	
6-09.3(10).GR6	GSP Heading	Delete	

FILE	Туре	Revision	Notes
6-09.3(10).INST1.GR6	GSP Instruction	Delete	
6-09.3(10).OPT1.BSP.GB6	GSP Option	Delete	
6-09.3(11).GR6	GSP Heading	Delete	
6-09.3(11).INST1.GR6	GSP Instruction	Delete	
6-09.3(11).OPT2.BSP.GB6	GSP Option	Delete	
6-09.3(12).GR6	GSP Heading	Delete	
6-09.3(12).INST1.GR6	GSP Instruction	Delete	
6-09.3(12).OPT2.BSP.GB6	GSP Option	Delete	
6-09.3(13).GR6	GSP Heading	Delete	
6-09.3(13).INST1.GR6	GSP Instruction	Delete	
6-09.3(13).OPT2.BSP.GB6	GSP Option	Delete	
6-09.3(14).GR6	GSP Heading	Delete	
6-09.3(14).INST1.GR6	GSP Instruction	Delete	
6-09.3(14).OPT1.BSP.GB6	GSP Option	Delete	
6-09.3(2).GR6	GSP Heading	Delete	
6-09.3(2).INST1.GR6	GSP Instruction	Delete	
6-09.3(2).OPT1.BSP.GB6	GSP Option	Delete	
6-09.3(3).GR6	GSP Heading	Delete	
6-09.3(3).INST1.GR6	GSP Instruction	Delete	
6-09.3(3).OPT1.GB6	GSP Option	Delete	
6-09.3(3).OPT10.BSP.GB6	GSP Option	Delete	
6-09.3(3).OPT2.GB6	GSP Option	Delete	
6-09.3(3).OPT3.GB6	GSP Option	Delete	
6-09.3(3).OPT9.BSP.GB6	GSP Option	Delete	
6-09.3(3)A.GR6	GSP Heading	Delete	
6-09.3(3)A.INST1.GR6	GSP Instruction	Delete	
6-09.3(3)A.OPT1.2025.GR6	GSP Option	Delete	
6-09.3(3)B.GR6	GSP Heading	Delete	
6-09.3(3)B.INST1.GR6	GSP Instruction	Delete	
6-09.3(3)B.OPT1.2025.GR6	GSP Option	Delete	
6-09.3(3)C.GR6	GSP Heading	Delete	
6-09.3(3)C.INST1.GR6	GSP Instruction	Delete	
6-09.3(3)C.OPT1.2025.GR6	GSP Option	Delete	
6-09.3(3)D.GR6	GSP Heading	Delete	
6-09.3(3)D.INST1.GR6	GSP Instruction	Delete	
6-09.3(3)D.OPT1.2025.GR6	GSP Option	Delete	
6-09.3(3)E.GR6	GSP Heading	Delete	
6-09.3(3)E.INST1.GR6	GSP Instruction	Delete	

FILE	Туре	Revision	Notes
6-09.3(3)E.OPT1.2025.GR6	GSP Option	Delete	
6-09.3(4).GR6	GSP Heading	Delete	
6-09.3(4).INST1.GR6	GSP Instruction	Delete	
6-09.3(4).OPT1.BSP.GB6	GSP Option	Delete	
6-09.3(5).GR6	GSP Heading	Delete	
6-09.3(5).INST1.GR6	GSP Instruction	Delete	
6-09.3(5).OPT1.GB6	GSP Option	Delete	
6-09.3(5).OPT10.BSP.GB6	GSP Option	Delete	
6-09.3(5).OPT2.GB6	GSP Option	Delete	
6-09.3(5).OPT7.GB6	GSP Option	Delete	
6-09.3(5).OPT8.BSP.GB6	GSP Option	Delete	
6-09.3(5).OPT9.BSP.GB6	GSP Option	Delete	
6-09.3(6).GR6	GSP Heading	Delete	
6-09.3(6)B.GR6	GSP Heading	Delete	
6-09.3(6)B.INST1.GR6	GSP Instruction	Delete	
6-09.3(6)B.OPT1.GB6	GSP Option	Delete	
6-09.3(6)C.GR6	GSP Heading	Delete	
6-09.3(6)C.INST1.GR6	GSP Instruction	Delete	
6-09.3(6)C.OPT2.BSP.GB6	GSP Option	Delete	
6-09.3(8).GR6	GSP Heading	Delete	
6-09.3(8).INST1.GR6	GSP Instruction	Delete	
6-09.3(8).OPT3.BSP.GB6	GSP Option	Delete	
6-09.3(8).OPT4.BSP.GB6	GSP Option	Delete	
6-09.3(9).GR6	GSP Heading	Delete	
6-09.3(9).INST1.GR6	GSP Instruction	Delete	
6-09.3(9).OPT2.BSP.GB6	GSP Option	Delete	
6-09.3.GR6	GSP Heading	Delete	
6-09.4.GR6	GSP Heading	Delete	
6-09.4.INST1.GR6	GSP Instruction	Delete	
6-09.4.OPT2.BSP.GB6	GSP Option	Delete	
6-09.5.GR6	GSP Heading	Delete	
6-09.5.INST2.GR6	GSP Instruction	Delete	
6-09.5.OPT11.GB6	GSP Option	Delete	
6-09.5.OPT7.BSP.GB6	GSP Option	Delete	
6-09.5.OPT8.BSP.GB6	GSP Option	Delete	
6-09.5.OPT9.BSP.GB6	GSP Option	Delete	
6-09.GR6	GSP Heading	Delete	
6-11.2.GR6	GSP Heading	Index change only	

FILE	Туре	Revision	Notes
6-11.2.INST1.GR6	GSP Instruction	New	
6-11.2.OPT1.2025.GR6	GSP Option	New	
6-11.3.GR6	GSP Heading	Index change only	
6-11.3.INST1.GR6	GSP Instruction	New	
6-11.3.OPT1.2025.GR6	GSP Option	New	
6-11.4.GR6	GSP Heading	Index change only	
6-11.4.INST1.GR6	GSP Instruction	New	
6-11.4.OPT1.2025.GR6	GSP Option	New	
6-11.5.GR6	GSP Heading	Index change only	
6-11.5.INST1.GR6	GSP Instruction	New	
6-11.5.OPT1.2025.GR6	GSP Option	New	
6-11.GR6	GSP Heading	Index change only	
6-16.3(3).INST1.GR6	GSP Instruction	New	Not in package sent in Sept.
6-16.3(3).OPT1.2025.GR6	GSP Instruction	New	Not in package sent in Sept.
6-16.3.GR6	GSP Heading	Index change only	Not in package sent in Sept.
6-16.GR6	GSP Heading	Index change only	Not in package sent in Sept.
6-18.2.OPT1.GB6	GSP Option	Delete	Not in package sent in Sept.
6-18.3.GR6	GSP Heading	Index change only	Not in package sent in Sept.
6-18.3.INST1.GR6	GSP Instruction	Index change only	Not in package sent in Sept.
6-18.3.OPT1.GB6	GSP Option	Index change only	Not in package sent in Sept.
6-18.4.GR6	GSP Heading	Index change only	Not in package sent in Sept.
6-18.4.INST1.GR6	GSP Instruction	Index change only	Not in package sent in Sept.
6-18.4.OPT1.GB6	GSP Option	Index change only	Not in package sent in Sept.
6-18.5.GR6	GSP Heading	Index change only	Not in package sent in Sept.
6-18.5.INST1.GR6	GSP Instruction	Index change only	Not in package sent in Sept.
6-18.5.OPT1.GB6	GSP Option	Index change only	Not in package sent in Sept.
6-18.SA1.2025.GR6	Standalone GSP	New	Not in package sent in Sept.
6-20.3(1).GR6	GSP Heading	New	
6-20.3(1).INST1.GR6	GSP Instruction	New	
6-20.3(1).OPT1.2025.GR6	GSP Option	New	
8-10.1.OPT1.GR8	GSP Option	Delete	
8-10.1.OPT1.NEW.GR8	GSP Option	New	
8-10.2.OPT1.GR8	GSP Option	Delete	
8-10.2.OPT1.NEW.GR8	GSP Option	New	
8-10.3.OPT1.GR8	GSP Option	Delete	
8-10.3.OPT1.NEW.GR8	GSP Option	New	
8-10.3.OPT2.GR8	GSP Option	Delete	
8-10.4.OPT1.GR8	GSP Option	Delete	

FILE	Туре	Revision	Notes
8-10.4.OPT1.NEW.GR8	GSP Option	New	
8-10.5.OPT1.GR8	3-10.5.OPT1.GR8 GSP Option		
8-10.5.OPT1.NEW.GR8	GSP Option	New	
8-11.2(9-16.3(4)).OPT1.GB8	GSP Option	Revise	
8-11.2.OPT2.FR8	GSP Option	Revise	
8-11.3.OPT2.FR8	GSP Option	Revise	
8-11.4.INST2.GR8	GSP Instruction	Delete	
8-11.4.OPT5.2024.GR8	GSP Option	Delete	
8-11.5.INST1.GR8	GSP Instruction	Delete	
8-11.5.OPT3.2024.GR8	GSP Option	Delete	
8-12.2.OPT6.GB8	GSP Option	Revise	
8-12.3.OPT1(B).GB8	GSP Option	Revise	
8-20.2(9-29.13(10)D).INST1.GR8	GSP Instruction	Delete	
8-20.2(9-29.13(10)D).OPT1.2024.GR8	GSP Option	Delete	
8-20.2(9-29.13(11)).OPT1.GR8	GSP Option	Revise	
8-20.2(9-29.13(12)).INST1.GR8	GSP Instruction	Delete	
8-20.2(9-29.13(12)).OPT1.2024.GR8	GSP Option	Delete	
8-20.2(9-29.6(2)).GR8	GSP Heading & Instruction	New	
8-20.2(9-29.6(2)).OPT1.2025.GR8	GSP Option	New	
8-20.2(9-29.6(3)).GR8	GSP Heading & Instruction	New	
8-20.2(9-29.6(3)).OPT1.2025.GR8	GSP Option	New	
8-20.3(1).GR8	GSP Heading	Index change only	
8-20.3(1).INST1.GR8	GSP Instruction	New	
8-20.3(1).OPT1.FR8	GSP Option	New	
8-20.3(14)D.GR8	GSP Heading	Index change only	
8-20.3(14)D.INST1.GR8	GSP Instruction	Delete	
8-20.3(14)D.OPT1.2024.GR8	GSP Option	Delete	
8-21.2(9-28.12).GR8	GSP Heading	Delete	
8-21.2(9-28.12).OPT1.2024.GR8	GSP Option	Delete	
8-21.3(9)E.OPT1.FB8	GSP Option	Revise	
8-30.1.INST1.GR8	GSP Instruction	New	
8-30.1.OPT1.GR8	GSP Option	New	
8-30.2(9-03.11).GR8	GSP Heading & Instruction	New	
8-30.2(9-03.11).OPT1.FR8	GSP Option	New	
8-30.2.GR8	GSP Heading	New	
8-30.3(1).GR8			
8-30.3(1).INST1.GR8	GSP Instruction	New	
8-30.3(1).OPT1.FR8	GSP Option	New	

FILE	Туре	Revision	Notes	
8-30.3(3).GR8	GSP Heading	New		
8-30.3.GR8	GSP Heading	New		
8-30.5.GR8	GSP Heading	New		
8-30.5.INST1.GR8	GSP Instruction	New		
8-30.5.OPT2.GR8	GSP Option	New		
8-30.GR8	GSP Heading	New		
8-31.3(2).GR8	GSP Heading	Index change only		
8-31.3(2)B.GR8	GSP Heading	Index change only		
8-31.3(2)B.INST1.GR8	GSP Instruction	Delete		
8-31.3(2)B.INST2.GR8	GSP Instruction	Delete		
8-31.3(2)B.OPT1.2024.GR8	GSP Option	Delete		
8-31.3(2)B.OPT2.2024.GR8	GSP Option	Delete		
8-31.3(4).GR8	GSP Heading	Index change only		
8-31.3(4).INST1.GR8	GSP Instruction	Delete		
8-31.3(4).OPT1.2024.GR8	GSP Option	Delete		
8-SA4(9-03.11).GR8	Standalone GSP	Delete		
8-SA4.FR8	Standalone GSP	Delete		
INTRO.GR1	GSP Option	Revise		
STDPLANS.GR9	GSP Option	Revise	Not in package sent in Sept.	
Grand Total				

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1 2 3 4	INTRO.GR1		Provisions <u>er 20, 2023</u> October 3, 2022) cts
5 6	DIVISION1.GR1	General F	Requirements
7 8	DESWORK.GR1	Descripti	on of Work
9 10 11 12 13	DESWORK1.FR	(Ma	
14 15 16 17 18 19	DESWORK2.FB	(Aug Use	scription of Work - Bridge Painting) gust 3, 2015) in projects involving only the painting of metal bridges. ll-ins)
20 21	1-02.GR1	Bid Proce	edures and Conditions
22 23	1-02.1.GR1	Pred	qualification of Bidders
24 25 26 27	1-02.1.INST1	.GR1	(Section 1-02.1, including title, is deleted and replaced with the following) Must use one preceding any of the following:
28 29 30 31 32 33	1-02.1.OP	Γ1.GR1	(Vacant) (April 2, 2018) Use in projects where all of the work will occur outside the highway right of way. Requires approval of HQ Contract Ad and Award Manager.
34 35	1-02.4.GR1	Exa	mination of Plans, Specifications and Site of Work
36 37	1-02.4(1).GR′	1	General
38 39 40	1-02.4(1).II	NST1.GR1	(Section 1-02.4(1) is supplemented with the following) Must use once preceding any of the following:
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1-02.4(1).OPT1.F	(Reference information) (September 3, 2019) Use in projects for which the Contracting Agency is providing Reference Information for the Contractor's use. (2 fill-ins) The first fill-in identifies the web address where the Reference Information is located: https://ftp.wsdot.wa.gov/contracts/. The second fill-in lists the items available for the prospective bidder's review. Structural Reference Information should include bridge inspection reports for all bridges which are being modified as part of the Project scope including but not limited to widening, repair, retrofit (rail, seismic, etc.),

1 2 3 4 5 6 7		painting, overlay and paving. Structural Reference Information should be listed by bridge number. For projects including culverts or bridges associated with water crossings, include the Final Hydraulic Design Report. When applicable, include the project electronic design files.
8 9 10	1-02.6.GR1 Pr	eparation of Proposal
11 12 13 14	1-02.6.INST41.GR1	(Item number 3 in the second paragraph of Section 1-02.6 is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20 21 22 23 24 25 26 27	1-02.6.OPT18.FR1	(Maximum Funds Available) (September 3, 2019) Use in Connecting Washington projects. Contact your Region Program Management Office and CPDM to determine whether to use this GSP and establish a maximum funds available amount. The list of Connecting Washington projects is available at http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/ConnectingWashington.pdf. Use of this GSP requires approval from the HQ Construction Office. (1 fill-in) Fill-in #1 is the maximum funds available for this Contract.
28 29 30	1-02.6.INST2.GR1	(The fourth paragraph of Section 1-02.6 is revised to read) Must use one preceding any of the following:
31 32 33 34 35 36 37 38 39 40 41 42	1-02.6.OPT1.GR1	(Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprises (MWBE) Documentation) (March 14, 2022) Use in all State funded (100%) projects with an estimated cost of \$250,000 or more and requiring the use of Small Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals. Must use with 1-02.9.OPT2.GR1, 1-02.13.OPT1.2024.GR1, and 1-07.11.OPT6.FR1.
43 44 45 46 47	1-02.6.OPT3 <u>2</u> .GR1	(Subcontractor list not required with bid) (The <u>fourth and</u> fifth and sixth paragraphs of Section 1-02.6 are deleted) (August 2, 2004 November 20, 2023) Use in all projects with estimated cost of \$1,000,000 or less.
48 49 50	1-02.6.INST3.GR1	(Section 1-02.6 is supplemented with the following) Must use once preceding any of the following:
51 52 53 54 55	1-02.6.OPT3.NEW.0	GR1 (Delivery of DBE forms) (November 20, 2023) Use in Federal Aid projects with DBE Condition of Award (COA) goals.

1 2 3 4		Must use with 1-02.9.OPT1.GR1, 1-03.3.OPT2.GR1, and 1-07.11.OPT3.FR1
5 6 7	<u>1-02.6.OPT14.</u>	GR1 (Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprises (MWBE) Documentation)
8 9 10		(March 14, 2022) Use in all State funded (100%) projects with an estimated cost of \$250,000 or more and requiring the use of Small
11 12 13		Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals. Must use with 1-02.9.OPT2.GR1, 1-02.13.OPT1.2024.GR1,
14 15 16	1-02.6.OPT4 <u>5</u> .]	and 1-07.11.OPT6.FR1. NEW.FR1(Alternative Bids)
17 18 19 20 21 22		(September 7, 2021) Use in projects when the proposal is to contain alternate items for bidding. Fill-ins consist of a brief description of the portion of the project or of the work that would be subject to alternative bidding. Repeat the "Alternative" paragraphs if the project consists of more than two alternatives.
23 24 25	1-02.6.OPT5 <u>6</u> .	(4 or more fill-ins) FR1 (Cumulative Alternate Bidding)
26 27 28 29 30 31 32 33 34 35	. 02.0.01 10 <u>.</u>	(August 3, 2015) Use in contracts when the award process is modified to include cumulative Alternates. The region shall determine and notify the Ad and Award office of the Funds Available. The bid items shall be segregated into a Base Bid and Alternates as appropriate. Fill-ins consist of a brief description of the portion of the project or of the work that is included in the noted Alternates. The specification language may be adjusted to suit the number of Alternates.
36 37 38 39 40 41 42 43		Use of this GSP requires the approval of the HQ Ad and Award Manager and HQ Assistant State Design Engineer. When requesting approval, provide documentation of funds available, and that Approvals consistent with Design Manual Chapter 300 exist for the Base project and each potential combination of Base plus Alternates. (1 or more fill-ins)
43 44 45	1-02.9.GR1	Delivery of Proposal
46 47 48	1-02.9.INST1.GR ²	(Section 1-02.9 is supplemented with the following) Must use once preceding any of the following:
50 51 52 53 54 55	1-02.9.OPT1.G	R1 (DBE document submittal) (November 20, 2023September 7, 2021) Use in projects that require the use of the Disadvantaged Business Enterprise (DBE) Condition of Award (COA) Participation Goal Requirement. Must use with 1-02.6.OPT3.NEW.GR1, 1-03.3.OPT2.GR1, and 1-07.11.OPT3.FR1.

1 2 3 4 5 6 7 8 9	1-02.9.OPT2.GR	(SVBE document submittal) (November 20, 2023March 14, 2022) Use in all State funded (100%) projects with an estimated cost of \$250,000 or more and requiring the use of Small Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals. Must use with 1-02.6.OPT1.GR1, 1-02.13.OPT1.2024.GR1, and 1-07.11.OPT6.FR1.
11 12	1-02.12.GR1	Public Opening of Proposal
13 14 15	1-02.12.INST1.GR ²	(Section 1-02.12 is supplemented with the following) Must use once preceding any of the following:
16 17 18 19 20 21 22	1-02.12.OPT1.Fl	(Date of Opening Bids) (August 3, 2015) Do not use in projects scheduled for Region bid openings. Use in all projects scheduled for bid openings in Olympia. Do not use with 1-02.12.OPT2.FR1. (1 fill-in) Bid opening is held on Wednesday, except in the event of
23 24 25 26 27		holidays. Should a holiday be observed on the Monday prior to bid opening, bid opening will be held on Thursday of that same week. Contact the HQ Contract Ad & Award Office if additional guidance is necessary.
28 29 30 31 32 33 34 35 36 37 38 39	1-02.12.OPT2.FI	(Date of Opening Bids for Region Bid Openings) (October 3, 2022) Do not use in projects scheduled for bid opening in Olympia. Use in all projects scheduled for Region bid openings. Do not use with 1-02.12.OPT1.FR1. (3 fill-ins) Fill-in #1 is the name of the facility where the bid opening will be held. Fill-in #2 is the address of the facility where the bid opening will be held. Fill-in #3 is the bid opening date.
40 41	1 -02.13.GR1	Irregular Proposals
41 42 43 44 45	1-02.13.INST1.GR ²	(Item number 1 of Section 1-02.13 is supplemented with the following) Must use once preceding any of the following:
46 47 48 49 50 51 52 53 54	1-02.13.0PT1.2(O24.GR1 (SVB Plan and SVBE Forms) (February 6, 2023) Use in all State funded (100%) projects with an estimated cost of \$250,000 or more and requiring the use of Small Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals. Must use with 1-02.6.OPT1.GR1, 1-02.9.OPT2.GR1, and 1-07.11.OPT6.FR1.GR1.
55	1-02.INST1.GR1	(Section 1-02 is supplemented with the following)

1		Mu	ist use once preceding any of the following:
2 3 4 5 6 7 8	1-02.OPT1.0	GR1	(Protest Procedures) (September 7, 2021) Include in all contracts with Federal Transit Administration (FTA) funding. Typically only applies to Ferry System and Sound Transit projects.
9 10	1-03.GR1	Award a	and Execution Of Contract
11 12	1-03.2.GR1	Aw	vard of Contract
13 14 15	1-03.2.INST	1.GR1	(The first sentence of Section 1-03.2 is revised to read) Must use once preceding any of the following:
16 17 18 19 20 21 22	1-03.2.OF	PT1.GR1	(Rapid Award of Contract) (April 7, 2008) Use only in projects when the Regional Administrator has declared an emergency, and the nature of the emergency requires a rapid award and execution of the contract. Requires approval of HQ Contract Ad and Award Manager.
22 23 24	1-03.3.GR1	Ex	ecution of Contract
25 26 27	1-03.3.INST	1.GR1	(Section 1-03.3 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32 33 34	1-03.3.OF	PT1.GR1	(Execution of Contract) (October 3, 2022) Use in projects selected by the Region when it is desired to have Escrow Bid Documentation established for the project. The project must be of significant size and duration to extend over multiple construction seasons.
35 36			Requires Region to set up banking facility for document storage prior to advertisements.
37 38 39 40 41 42	<u>1-03.3.OF</u>	PT2.GR1	(DBE Trucking form) (November 20, 2023) Use in Federal Aid projects with DBE Condition of Award (COA) goals.
43 44			Must use with 1-02.6.OPT3.NEW.GR1, 1-02.9.OPT1.GR1 and 1-07.11.OPT3.FR1
45 46 47 48 49	1-03.3.INST	2.GR1	(The first paragraph of Section 1-03.3 is supplemented with the following) Must use once preceding any of the following:
50 51 52 53 54 55	1-03.3.OF	PT3.GR1	(Connecting Washington) (January 4, 2016) Use in the Connecting Washington projects listed at http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/C onnectingWashington.pdf.

1	1-04.GR1	Scope o	f the Work
2 3 4 5	1-04.2.GR1		ordination of Contract Documents, Plans, Special ovisions, Specifications, and Addenda
4 5 6 7	1-04.2.INST	1.GR1	(Section 1-04.2 is supplemented with the following) Must use once preceding any of the following:
8 9 10 11 12	1-04.2.0	PT1.GR1	(Unifier) (March 9, 2023 <u>November 20, 2023</u>) Use in all projects unless approved for omission by Region Construction.
13 14	1-04.5.GR1	Pro	ocedure and Protest by the Contractor
15 16 17 18	1-04.5.INST	1.GR1	(Section 1-04.5 is supplemented with the following) Must use once preceding any of the following:
19 20 21 22 23 24 25 26 27	1-04.5.O	PT1.GR1	(Partnering) (January 13, 2021) Use in all projects with an Engineer's estimate of \$5 million or greater, and/or Contracts exceeding 200 working days. At the discretion of the Region, may be used in projects with lesser cost and duration where the project complexity, scope of work, or project conditions support the need to host a Project Specific Partnering workshop. Deletion of this item requires Region Construction Engineer approval.
28 29	1-05.GR1	Control	of Work
30 31 32	1-05.3.GR1	Wo	ulda a Duessia ae
JZ			orking Drawings
33 34	1-05.3.INST	1.GR1	(Section 1-05.3 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38	1-05.3.INST 1-05.3.O		(Section 1-05.3 is supplemented with the following)
33 34 35 36 37 38 39 40 41 42		PT2.GR1	(Section 1-05.3 is supplemented with the following) Must use once preceding any of the following: (Right/Left Designation) (October 3, 2022)
33 34 35 36 37 38 39 40 41 42 43 44	1-05.3.0	PT2.GR1 PT3.GR1	(Section 1-05.3 is supplemented with the following) Must use once preceding any of the following: (Right/Left Designation) (October 3, 2022) Use in all WSF projects. (Work Plan) (October 3, 2022)
33 34 35 36 37 38 39 40 41 42 43	1-05.3.O	PT2.GR1 PT3.GR1	(Section 1-05.3 is supplemented with the following) Must use once preceding any of the following: (Right/Left Designation) (October 3, 2022) Use in all WSF projects. (Work Plan) (October 3, 2022) Use in all WSF projects.

2 3 4		use for bridge deck paving existing surfacing profile work (already covered by Section 6-08.3(2)). Do not use for concrete overlay existing surfacing profile work (already covered by Section 6-09.3(10)A).
2 3 4 5 6 7 8 9 10 11 12	1-05.4.OPT2.GR	(Contractor Surveying - Roadway) (January 13, 2021) Use in projects requiring the Contractor to do all surveying needed for roadway items. May be edited to retain portions of surveying for WSDOT crews but editing to assign additional work to the Contractor requires HQ Construction Office approval. Must also use 2-03.4.OPT2.GR2 if roadway excavation or embankment is included in the project.
14 15 16 17 18 19 20 21 22	1-05.4.OPT3.GR	(Licensed Surveyors) (April 4, 2011) Include in projects requiring the Contractor to supply professional land surveyors to establish right-of-way lines and other monuments. Use of this GSP for Local Agency projects requires the approval of the HQ Local Programs Office.
22 23 24 25 26 27	1-05.4.OPT4.GR	(Contractor Surveying – ADA Features) (March 9, 2023) Use in all projects that require any ADA work. Must use with 8-14.3.OPT2.GR8 and 8-14.3.OPT3.GR8 .
28 29	1-05.9.GR1	Equipment
30 31	1-05.9.INST1.GR1	(Section 1-05.9 is supplemented with the following) Must use once preceding any of the following:
32 33 34 35 36 37 38 39 40 41 42		
34 35 36 37 38 39 40 41 42	1-05.9.OPT1.FR1	(Machine control grading) (April 7, 2008) Use in eligible projects that require extensive grading if adequate design files have already been created during the design process. Eligible projects are those that require large areas of linear grading or mass quantities of roadway excavation, and are in locations where satellite signals are not obstructed by natural or manmade feature (such as highly mountainous areas or urban canyons). Requires approval of Region Construction Manager.
34 35 36 37 38 39 40 41	1-05.9.OPT1.FR1	(April 7, 2008) Use in eligible projects that require extensive grading if adequate design files have already been created during the design process. Eligible projects are those that require large areas of linear grading or mass quantities of roadway excavation, and are in locations where satellite signals are not obstructed by natural or manmade feature (such as highly mountainous areas or urban canyons). Requires

1 2 3 4 5 6 7 8			checklist and/or the Region Landscape Architect determine a Class A noxious weed is present in the upland. Fill-in #1 will contain the name of the noxious weed or aquatic invasive species. Fill-in #2 will contain the specific instructions how to clean the equipment prior to leaving the project site. (2 fill-ins)
9 10	1-05.14.GR1	Co	operation With Other Contractors
11 12 13	1-05.14.INST	Γ1.GR1	(Section 1-05.14 is supplemented with the following) Must use once preceding any of the following:
13 14 15 16 17 18 19 20 21	1-05.14.O	PT1.FR1	(Other contracts or other work) (March 13, 1995) Use when it is anticipated that other projects are, or will be, under construction during the life of this project within the limits of this project or when access to, or through adjacent projects may be necessary. (1 fill-in)
22 23 24 25 26 27 28	1-05.14.O	PT2.FR1	(Provide Access) (March 13, 1995) Use on structure contracts which are separate contracts when other contractors are required to haul past the structure being constructed. (1 fill-in)
29			
	1-06.GR1	Control	of Material
30 31 32	1-06.GR1 1-06.INST1.GR	1 (Se	of Material ection 1-06 is supplemented with the following) st use once preceding any of the following:
30 31 32 33 34 35		1 (Se Mu	ection 1-06 is supplemented with the following)
30 31 32 33 34 35 36 37 38 39 40	1-06.INST1.GR	1 (Se Mu GR1	ection 1-06 is supplemented with the following) st use once preceding any of the following: Buy America
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	1-06.INST1.GR 1-06.OPT1.G	1 (Se Mu GR1	ection 1-06 is supplemented with the following) st use once preceding any of the following: Buy America Must use once preceding any of the following: (Buy America) (August 6, 2012) Specification will require the use of domestically sourced
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	1-06.INST1.GR 1-06.OPT1.G	1 (Se Mu GR1	ection 1-06 is supplemented with the following) st use once preceding any of the following: Buy America Must use once preceding any of the following: (Buy America) (August 6, 2012) Specification will require the use of domestically sourced Steel and Iron in accordance with 23 CFR 635.410. Must use if the Project or one of several Contracts from a Project has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities. If the construction phase of this Contract or in any other Contracts has or will be federally funded use 1-

1 2 3		Use when steel or iron in both permanent and temporary installations will be required AND the Project or one of
2 3 4 5 6 7 8 9		several Contracts from a Project that has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities. If the construction phase of this Contract or in any other Contracts has or will be federally funded use 1-06.OPT2(B).FR1.
10 11 12 13		Must also use 1-06.OPT1(A).GR1 (1 fill-in) List of temporary steel or iron construction materials.
14 15 16 17	1-06.OPT1(C).FR1	(Buy America) (September 7, 2021) May be used in any Contract at each Region's discretion.
18 19 20 21 22 23 24 25		Must use in all projects that require the use of structural steel when the use of foreign structural steel would result in a cost benefit approaching 25 percent of the cost of the total project AND the Project or one of several Contracts from a Project that has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities. May not be used if the construction phases of this Contract or in any other Contracts is federal funded.
26 27 28 29 30 31 32 33		If the structural steel items constitute at least 60 percent of the estimated total project cost, alternate bids for domestic and foreign structural steel will be required. Format for alternate bid item is Item Name - Domestic Steel and Item Name - Foreign Steel. (6 fill-ins) (\$\$1\$\$ and \$\$6\$\$ will be the same and \$\$2\$\$ and \$\$5\$\$ will be the same)
34 35 36		ction 1-06 is supplemented with the following) st use once preceding any of the following:
37 38 39 40	1-06.OPT2.GR1	Build America/Buy America Must use once preceding any of the following:
41 42 43 44 45	1-06.OPT2(A).GR1	(Build America/Buy America) (June 6, 2023) Specification will require the use of domestically sourced Steel, Iron, and Construction Materials in accordance with Public Law 117-58, div G §§70901-52.
46 47		Must use if the Project is federal funded for construction.
48 49 50		Do not use if using 1-06.OPT1(A).GR1 , 1-06.OPT1(B).GR1 , or 1-06.OPT1(C).FR1 .
51 52 53	1-06.OPT2(B).FR1	(Build America/Buy America) (October 5, 2022)

1 2 3			Specification used for providing a list of temporary steel, iron or other construction materials that are excluded from Build America/Buy America requirements.
2 3 4 5 6 7			Use when both permanent and temporary installations will be required AND the Project is federal funded for construction.
8 9 10 11			Must also use 1-06.OPT2(A).GR1 (1 fill-in) List of temporary steel, iron or other construction materials.
12 13	1-06.1.GR1	Appro	oval of Materials Prior to Use
14 15 16 17	1-06.1.INST1.0		Section 1-06.1 is supplemented with the following) lust use once preceding any of the following:
18 19 20 21 22 23	1-06.1.OPT	1.GR1	(April 3, 2017) May be used on any project with Construction Project Engineer, Region Construction Engineering Manager, or Assistant Regional Administrator approval. Should be considered on projects that contain large or numerous electrical or ITS components.
24 25	1-07.GR1	Legal Relat	tions and Responsibilities to the Public
26 27	1-07.1.GR1	Laws	to be Observed
28			
29 30	1-07.1.INST1.	,	Section 1-07.1 is supplemented with the following) lust use once preceding any of the following:
30 31 32 33 34 35 36	1-07.1.INST1.0	Ì	
30 31 32 33 34 35 36 37 38 39 40 41 42 43		Ň 1.GR1	Ferry Tolls and Service (October 3, 2022) Use in all WSF projects. At the discretion of the Region, may also be used in highway projects that have a close proximity
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	1-07.1.OPT	Ň 1.GR1 2.GR1	Ferry Tolls and Service (October 3, 2022) Use in all WSF projects. At the discretion of the Region, may also be used in highway projects that have a close proximity to WSF Terminals. Ferry Terminal Access and Security (October 3, 2022) Use in all WSF projects. Provides access requirements and restrictions at WSF terminals such as Contractor employee ID lists and cards, parking, material delivery, and equipment
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	1-07.1.OPT 1-07.1.OPT	Ň 1.GR1 2.GR1	Ferry Tolls and Service (October 3, 2022) Use in all WSF projects. At the discretion of the Region, may also be used in highway projects that have a close proximity to WSF Terminals. Ferry Terminal Access and Security (October 3, 2022) Use in all WSF projects. Provides access requirements and restrictions at WSF terminals such as Contractor employee ID lists and cards, parking, material delivery, and equipment identification. Confined Space (April 3, 2006) Must use when Contractor workers are required to enter a confined space and all other projects where confined spaces are known to exist. Use requires approval of the Region

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		 Has limited or restricted entry or exit. Examples of spaces with limited or restricted entry are tanks, vessels, silos, storage bins, hoppers, vaults, excavations, and pits. Not primarily designed for human occupancy. Examples of confined spaces include but are not limited to concrete or steel box girder structures, pontoons on floating bridges, existing stormwater/sewer conveyances and vaults, electrical or signal hubs. Fill-in #1: Include each known confined space that the Contractor may enter to perform the work. Describe identified hazards and experience with each known confined space, if any. Must contact Region Safety office for fill-in information.
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1-07.1.OPT4.FR1	Noise Exemption/Variance Conditions (October 3, 2022) Use in projects that have been issued a local agency noise variance or exemption and there is a requirement for notification of property owners by mail. Requires Region Construction Approval. (6 fill-ins) Fill-in #1 is the name of the local jurisdiction(s) issuing the exemption/variance Fill-in #2 is the number of nights allowed Fill-in #3 is the date the exemption/variance expires Fill-in #4 is the distance from the project limits the nighttime notices are to be mailed Fill-in #5 is any additional requirements added to the exemption/variance Fill-in #6 is the number of days the notices need to be mailed before work starts
34 35 36 37 38 39 40 41 42 43 44 45 46 47	1-07.1.OPT5.FR1	Nighttime Construction Work Requirements (October 3, 2022) Use in projects when a local agency noise variance has not been obtained but restrictions are placed on the contract to mitigate nighttime construction noise. Requires Region Construction Approval. (3 fill-ins) Fill-in #1 is the distance from the project limits the nighttime notices are to be mailed to Fill-in #2 is any additional requirements added to the project Fill-in #3 is the number of days the notices need to be mailed before work starts
48 49 50 51 52 53 54	1-07.1.OPT6.FR1	Noise Exemption/Variance Conditions (October 3, 2022) Use in projects that have been issued a local agency noise variance or exemption. This can be used for rural (not heavily populated) areas and where notification of property owners is not required by mail. (5 fill-ins)

1 2 3 4 5 6 7			issuing the Fill-in #3 Fill-in #4	and #2 is the name of the local jurisdiction(s) ne exemption/variance is the number of nights allowed is the date the exemption/variance expires is other requirements
6 7 8	1-07.1(2).GR	1 H	ealth and	Safety
9 10	1-07.1(2).I	NST1.GR1		1-07.1(2) is supplemented with the following) e once preceding any of the following:
11 12 13 14 15 16 17	1-07.1	(2).OPT2.GR1	(Octo Use safet Also	ng and Workboat Safety Requirements) ober 3, 2022) in all WSF projects. Provides communication and y protocols for all diving and work boat activities. provides requirements and restriction for working nd ferry slips.
19 20 21 22 23	1-07.1	(2).OPT3.FR1	(Mard Use	d Health Protection Program) ch 9, 2023) in projects when lead based paint on existing tures and non-structural items will be disturbed. -in).
24 25 26	1-07.3.GR1	Fire P	revention	and Merchantable Timber Requirements
27 28	1-07.3.INST1	,		07.3 is supplemented with the following) nce preceding any of the following:
29 30 31 32 33	1-07.3.OP	T1.GR1	(August 2 Use in p	Service Provisions) 2, 2004) rojects that require work in or adjacent to National eservations.
34 35 36 37 38 39 40			at: http://wso DF/1-07. run-list. 0	o use Forest Service Provisions Appendix located dot.wa.gov/publications/fulltext/ProjectDev/GSPsP 3.Appendix.pdf. Do not include this Appendix in the Dn the Final Check sheet (Form 221-019EF) under Make-Up check the box Forest Service Provisions.
41 42	1-07.3	(2).GR1	Merc	hantable Timber Requirements
43 44 45 46	1-0	7.3(2).INST1.	GR1	(Section 1-07.3(2) is supplemented with the following) Must use once preceding any of the following:
47 48 49 50 51 52 53		1-07.3(2).OP	T1.GR1	(Timber Export Restrictions) (April 7, 2008) Use in projects that have one log truck load (approximately 5,000 board feet) or more of merchantable timber that is to be cut.
53 54 55	1-07.4.GR1	Sanita	tion	

1	1-07.4(2).GR1	Healt	h Hazards
2 3 4 5 6	1-07.4(2).INST1.0		ection 1-07.4(2) is revised to read) st use once preceding any of the following:
7 8 9 10 11	1-07.4(2).OPT	1.FR1	(Site cleanup of biological and physical hazards) (August 7, 2017) Use in all projects known to be inhabited by transients, and all projects known to contain biological or physical hazards such as drug paraphernalia, human excrement, etc. (1 fill-in)
13 14 15	1-07.5.GR1	Environm	ental Regulations
16 17 18	1-07.5.INST1.GR1		on 1-07.5 is supplemented with the following) use once preceding any of the following:
19 20 21 22 23	1-07.5.OPT1.GR′	(Se An	vironmental Commitments eptember 20, 2010) Environmental Commitment Meeting is expected as clined in Division 4 of the Plans Preparation Manual
24 25 26			st use with 1-07.5.OPT2.GR1. Must use once preceding y of the following Environmental Commitment GSPs:
27 28 29 30 31 32 33 34 35	1-07.5.OPT1(A).FR1	(Notification of ground disturbing activities) (August 4, 2014) Use if the project includes a requirement for Cultural Resource Monitoring. (1 fill-in) The fill-in can either be a station reference(s), plan sheet(s), or a certain depth below an elevation control point, etc.
336 37 38 39 40 41 42 43 44	1-07.5.OPT1(B).FR1	(Notification of work in sensitive areas) (April 1, 2019) Use if work is authorized in environmentally sensitive areas. Use the Environmental Commitment Meeting to determine applicability of this provision for the project. (1 fill-in - choose the largest number of days noted in your permits/environmental documentation or 15 days, whichever is greater.)
44 45 46 47 48 49 50 51 52 53 54 55	1-07.5.OPT1(C).FR1	(Setback distance) (April 1, 2019) Use in projects applying either Programmatic Biological Assessment (or Individual BA), Hydraulic Project Approval, or local shoreline conditions where setbacks of certain work are required from sensitive areas like waters of the state, wetlands, or unique upland features. (3 Fill-ins) Fill-in #1 defines the contractor activity that is not allowed (e.g. staging, storing material, maintaining equipment, etc.)

1 2 3		con	in #2 defines the minimum distance between the tractor activity and the sensitive area. in #3 defines the sensitive area(s).
2 3 4 5 6 7 8	1-07.5.OPT2.GR1		nt t 3, 2009) se with 1-07.5.OPT1.GR1 .
9 10	1-07.5(1).GR1	eneral	
11 12 13	1-07.5(1).INST1.GR1		n 1-07.5(1) is supplemented with the following) se once preceding any of the following:
14 15 16 17 18 19 20 21	1-07.5(1).OPT1.FR	(Od Use equ mai (2 f Fill- app	Vater Operations Along Marine Shorelines stober 3, 2022) in all WSF Projects, and any projects where floating sipment or vessels will be operating or mooring near rine shorelines. ill-ins) in #1 is State or Federal Agency issuing permit or proval. in #2 is allowable work dates.
23 24 25	1-07.5(2).GR1	tate Dep	partment of Fish And Wildlife
26 27	1-07.5(2).INST1.GR1		n 1-07.5(2) is supplemented with the following) se once preceding any of the following:
28 29 30 31 32 33 34	1-07.5(2).OPT1.GR	(Ap An of t pro	draulic Project Approval ril 2, 2018) Environmental Commitment Meeting (see Division 4 the Plans Preparation Manual) is mandatory for all jects to determine the applicability of these uirements.
35 36 37 38		pre	st use with 1-07.5(2).OPT2.GR1 . Must use once ceding any of the following Hydraulic Project proval GSPs:
39 40 41 42 43 44 45 46 47 48 49	1-07.5(2).OPT1	(A).FR1	(Work window below ordinary high water) (April 2, 2018) Use in projects with an HPA and a "fish window." Fill-in #1 is the start date of the fish window. Fill-in #2 is the end date. Consider setting the work completion date one day less than permitted end date. This ensures WSDOT has time to remove the nets, which is technically in-water work. (2 fill-ins)
50 51 52 53	1-07.5(2).OPT2.GR	(Ap	/ment ril 2, 2018) st use with 1-07.5(2).OPT1.GR1 .
54 55	1-07.5(3).GR1	tate Dep	partment of Ecology

1 2 3	1-07.5(3).INST1.GR1		ection 1-07.5(3) is supplemented with the following) st use once preceding any of the following:
2 3 4 5 6 7 8 9	1-07.5(3).OPT1.G	R1	Water Quality and Resource Protection (April 2, 2018) An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.
11 12 13 14 15			Must use with 1-07.5(3).OPT2.GR1 . Must use once preceding any of the following Hydraulic Project Approval GSPs:
15 16 17 18 19 20 21 22 23 24 25 26 27 28	1-07.5(3).OPT	1(A).F	R1 (Mixing zone) (August 3, 2009) Use in projects having permitted work within waters of the United States and a mixing zone is allowed by the Washington State Department of Ecology. (1 fill-in) Fill in No. \$\$1\$\$ choose a distance in feet based on either 173-201A of the Washington Administrative Code or the project specific 401 Water Quality Certification from the Washington State Department of Ecology.
26 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	1-07.5(3).OPT	1(B).G	(Stormwater, dewatering water, and other non- storm water discharges) (April 1, 2019) Use with Contracting Agency owned NPDES Construction Stormwater General Permits (CSWGP). This GSP shall not be used on projects where CSWGP administration will be transferred to the Contractor prior to the start of construction. Additional planning, monitoring, sampling, and reporting requirements, beyond the scope of this GSP, may be required if the project is issued a CSWGP that covers discharges to impaired surface waters, such as those listed on the 303(d) list or in a Total Maximum Daily Load (TMDL) coverage area. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.
47 48 49 50	1-07.5(3).OPT2.G	R1	Payment (April 2, 2018) Must use with 1-07.5(3).OPT1.GR1 .
51 52	1-07.5(4).GR1	Air Q	uality
53 54	1-07.5(4)C.GR1	As	bestos Containing Materials
55 55	1-07.5(4)C.INST1.	GR1	(Section 1-07.5(4)C is supplemented with the following)

1		Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12	1-07.5(4)C.OPT1.FF	(Asbestos containing material known or presumed) (October 4, 2021) Must use either OPT1 or OPT2 in all WSDOT projects. Use in projects where the asbestos Good Faith Investigation (GFI) has determined that known and/or presumed, Asbestos Containing Material (ACM) will be disturbed by the work on the project. Must include the asbestos GFI as an appendix.
13 14 15		Must also use 2-02.1.OPT2.GR2 , 2-02.3.OPT4.GR2 , and 2-02.5.OPT11.GR2 .
16 17 18		(1 fill-in) Fill-in is the appendix location for the GFI.
19 20 21 22 23 24 25 26 27 28	1-07.5(4)C.OPT2.FF	(No known asbestos containing material (October 4, 2021) Must use either OPT1 or OPT2 in all WSDOT projects. Use in projects where an asbestos Good Faith Investigation (GFI) has determined that that no known, and/ or assumed, and/or reasonably likely Asbestos Containing Material (ACM) will be disturbed by the work on the project. Must include the asbestos GFI as an appendix.
29 30		Must also use 2-02.3.OPT5.GR2.
31 32 33 34		(1 fill-in) Fill-in is the Appendix location for the GFI.
35 36	1-07.5(5).GR1 U.S.	Army Corps of Engineers
37 38 39		ection 1-07.5(5) is supplemented with the following) ust use once preceding any of the following:
40 41 42 43 44 45	1-07.5(5).OPT1.GR1	U.S. Army Corps Nationwide Permit (April 2, 2018) An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.
46 47 48 49		Must use with 1-07.5(5).OPT2.GR1 . Must use once preceding any of the following Hydraulic Project Approval GSPs:
50 51 52 53 54 55	1-07.5(5).OPT1(B).F	FR1 (Temporary fill restrictions) (February 25, 2013) Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit No. 33. The permit provides for temporary fills for up to six

1 2 3 4 5 6 7 8 9 10 11		months (180 days). The designer must evaluate the length of time needed for temporary fills. Any duration in excess of six months must have received a waiver by the U.S. Army Corps of Engineers. Use the Environmental Commitment Meeting to determine applicability of this provision for the project. (2-fill-ins) Fill-in No. \$\$1\$\$ defines the location of temporary fill(s). Fill-in No. \$\$2\$\$ is number of calendar days of the temporary fill(s) are permitted to be placed.
13 14 15 16 17 18 19	1-07.5(5).OPT1(C).GR1	(Maintaining normal downstream flows) (February 25, 2013) Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit No. 3, 13, 14, or 33.
20 21 22 23 24	1-07.5(5).OPT1(D).GR1	(Measures for heavy equipment) (August 3, 2009) Use if permits authorize heavy equipment operation in wetlands or mudflats.
25 26 27 28 29	1-07.5(5).OPT1(F).GR1	(Creosote timber, piling, and associated debris) (February 6, 2023) Use if the project involves disposing of creosoted materials.
30 31 32 33	(Apr	ment il 2, 2018) t use with 1-07.5(5).OPT1.GR1 .
34 35 36	1-07.5(6).GR1 U.S. Fisheries	and Wildlife Service and National Marine Service
37 38		n 1-07.5(6) is supplemented with the following) e once preceding any of the following:
39 40 41 42 43 44 45 46 47	com (Apr An E of th proje	oduction paragraph for environmental mitments) iil 2, 2018) Environmental Commitment Meeting (see Division 4 ne Plans Preparation Manual) is mandatory for all ects to determine the applicability of these tirements.
48 49 50		t use with 1-07.5(6).OPT2.GR1 . Must use once eding any of the following GSPs:
55 52 53 54 55	1-07.5(6).OPT1(B).GR1	(Temporary storage pile restrictions) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #8, where work will be performed between October 1 and June 1.

1 2 3		If this GSP is used, please ensure that the Plans indicate where the 100 year floodplain is. Do not use for Emergency Projects.
2 3 4 5 6 7 8 9 10 11	1-07.5(6).OPT1(C).FR1	(Floating work platforms) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #15. Fill-in #1 is the maximum number of days. Work with the Region Environmental Coordinator. (1 fill-in)
12 13 14 15 16 17	1-07.5(6).OPT1(D).GR1	(Truck chute cleanout areas) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #27.
17 18 19 20 21 22	1-07.5(6).OPT1(E).GR1	(Creosote-treated wood restrictions) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #69.
22 23 24 25 26 27	1-07.5(6).OPT1(F).GR1	(Pile removal methods) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #71.
28 29 30 31 32	1-07.5(6).OPT1(G).GR1	(Removed pile requirements) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #73.
33 34 35 36 37		This GSP should pertain only to non-bridge projects (i.e., culverts) because treated wood containment for bridges is covered by Section 2-02.3(2)A1 of the Standard Specifications.
38 39 40 41 42 43	1-07.5(6).OPT1(H).FR1	(Pile driving sound pressure monitoring) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #74. Fill-in #1 is the maximum decibel level. (1 fill-in)
44 45 46 47 48 49 50	1-07.5(6).OPT1(I).FR1	(Temporary light restriction) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #76. Fill-in #1 is the waterbody name that has ESA listed species. (1 fill-in)
52 53 54 55	1-07.5(6).OPT1(J).FR1	(Night work required - 2 hrs after sunset to 2 hrs before sunrise) (April 2, 2018)

1 2 3 4 5		Use in projects applying Programmatic Biological Assessment Minimization Measure #82. Fill-in #1 is the Washington city nearest to the project location. (1 fill-in)
7 8 9 10 11 12 13 14	1-07.5(6).OPT1(K).FR1	(Night work required - 1 hr after sunset to 1 hr before sunrise) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #83. Fill-in #1 is the Washington city nearest to the project location. (1 fill-in)
15 16 17 18 19 20 21 22 23 24	1-07.5(6).OPT1(L).FR1	(Night work required - cease work 2 hours before sunrise) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #84. Fill-in #1 is the Washington city nearest to the project location. (1 fill-in)
24 25 26 27 28 29 30 31 32	1-07.5(6).OPT1(M).FR1	(Night and day work – sunrise and sunset restrictions) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #85. Fill-in #1 is the Washington city nearest to the project location.
32 33 34 35 36 37 38 39 40	1-07.5(6).OPT1(N).FR1	(Night and day work – sunrise restrictions only, no sunset restrictions) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #86. Fill-in #1 is the Washington city nearest to the project location.
41 42 43 44	1-07.5(6).OPT1(O).GR1	(Trash and food waste collection plan) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #87.
45 46 47 48 49 50 51 52 53 54 55	1-07.5(6).OPT1(P).FR1	(Day work required April 1 through Sept 22) (September 3, 2019) Use in projects applying Programmatic Biological Assessment Minimization Measure #93. Fill-in #1 is the type of visual or noisy work that is not allowed. Fill-in #2 is the Washington city nearest to the project location. (2 fill-ins)

1 2 3 4 5 6 7	1-07.5(6).	OPT1(Q).((September 7, 2021) Restricts the use of Galvanized or Zinc Coatings below the 100-year water level. Contact Region Biologist for direction on use.
8 9 10	(Apr		Payment (April 2, 2018) Must use with 1-07.5(6).OPT1.GR1 . Assessment Report will be located
11 12 13 14 15 16 17 18 19	(N Us Pro (2 Fil Fil		(Bird Protection and Monitoring) (November 2, 2022) Use in projects that require a Project-specific Bird Protection Plan. Consult Region biologist for assistance. (2 fill-ins) Fill-in #1 defines the birds identified for protection. Fill-in #2 identifies the Appendix in which the MTBA Assessment Report will be located.
20 21	1-07.6.GR1	Permits a	nd Licenses
22 23 24 25	1-07.6.INST1.GR1		on 1-07.6 is supplemented with the following) use once preceding any of the following:
26 27 28 29	1-07.6.OPT1.FR	(Ja An	rmits and Licenses nuary 2, 2018) Environmental Commitment Meeting is expected as tlined in Division 4 of the Plans Preparation Manual.
30 31 32 33 34 35 36 37 38 39 40 41		tab http viro cop Thi del ins per De CS	nis GSP requires editing the data located in the permit ble located at: p://www.wsdot.wa.gov/publications/fulltext/projectdev/En onmentalDocumentation/1-07.6.OPT2.FR1_Table.docx, bying and pasting the revised table inside this fill-in area. is needs to be edited prior to insertion and final printing to lete all permits that are not required for the project and lett additional permits not part of the original table. All rmits will be attached as an Appendix. Include the partment of Ecology permit coverage letter with the lewGP. If using a Nationwide Permit, attach the most
42 43			ent U.S. Army Corps of Engineers Nationwide Permit rification Letter, conditions, and permit drawings.
44 45		(1 1	fill-in)
46 47 48	1-07.6.OPT3.GB		ited States Coast Guard ast use once preceding any of the following:
49 50 51 52 53 54 55	1-07.6.OPT3((A).FB1	United States Coast Guard (January 2, 2018) Use in projects over navigable waters when the Coast Guard is involved. (2 fill-ins)

1 2 3 4 5 6	1-07.6.OPT3(B).GB1		United States Coast Guard (September 3, 2019) Use in all projects involving bridge work, including painting, in or near the navigable portion of a waterway when 1-07.6.OPT3(A).FB1 is not used.
7	1-07.7.GR1	Load Lir	nits
8 9 10	1-07.7.INST1.G	,	ction 1-07.7 is supplemented with the following) t use once preceding any of the following:
11 12 13 14 15 16 17	1-07.7.OPT3	(N U o	List of haul routes provided) March 13, 1995) se when WSDOT provides a materials source and roads ther than State highways are designated as the haul route. If fill-ins)
17 18 19 20 21 22 23	1-07.7.OPT4	(N U st	Restrictions on provided haul routes) March 13, 1995) se with 1-07.7.OPT3.FR1 when the agreement ipulates additional requirements. fill-in)
24 25 26 27 28 29	1-07.7.OPT5	<u>d</u> (N U	Contractor provides haul routes for material sources not esignated to come from the provided source) March 13, 1995) se in all projects where WSDOT provides a source of laterials for part or all required materials.
30 31 32 33	1-07.7.OPT6	(1)	Contractor provides haul routes for material sources) March 13, 1995) se in projects when no source of materials is provided.
34 35	1-07.9.GR1	Wages	
36 37	1-07.9(1).GR1	Gen	eral
38 39 40	1-07.9(1).INS	,	Section 1-07.9(1) is supplemented with the following) lust use once preceding any of the following:
41 42 43 44	1-07.9(1)	OPT1.GR1	(January 9, 2023) Use in all Federally funded projects consisting of highway construction and/or landscaping.
45 46 47 48 49			For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.
50 51 52 53 54 55	1-07.9(1).	OPT2.FR1	(January 9, 2023) Use in Federally funded projects consisting of both highway and building construction. (1 fill-in)

1 2 3 4 5 6 7 8		For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.
9 10	1-07.9(1).OPT3.FR1	(May 11, 2010) Use in Federally funded projects consisting of only building construction. (1 fill-in)
11 12 13 14 15 16 17		For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.
18 19 20 21	1-07.9(1).OPT5.FR1	(January 9, 2023) Use in all Federally funded projects consisting of both highway and heavy construction. (1 fill-in)
22 23 24 25 26 27 28 29 30 31 32 33		For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.
	1-07.9(1).OPT6.FR1	(January 9, 2023) Use in all Federally funded projects consisting of highway, heavy, and building construction. (2 fill-ins)
34 35 36 37 38		For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.
39 40	1-07.9(3).GR1 Ap	prentices
41 42 43 44	1-07.9(3).INST1.GR1	(Section 1-07.9(3) is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49	1-07.9(3).OPT1.GR1	Apprentice Utilization (October 3, 2022) Use only on projects advertised by the Washington State Department of Transportation. Use in projects with an Engineer's estimate of \$2 million and greater.
50 51	1-07.11.GR1 Requir	ements for Nondiscrimination
52 53 54 55		ection 1-07.11 is supplemented with the following) ast use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 33 34 34 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	1-07.11.OPT1.GR1	Requirement for Affirmative Action to Ensure Equal Employment Opportunity (October 3, 2022) Use in Federally funded projects exceeding \$10,000 in contract cost.
	1-07.11.OPT2.GR1	Disadvantaged Business Enterprise (DBE) Participation (October 3, 2022) REQUIREMENTS PERTAINING TO "No DBE Goals" DO NOT USE UNTIL FURTHER NOTICE.
	1-07.11.OPT3.FR1	Disadvantaged Business Enterprise (DBE) Participation (October 3, 2022) Requires a CONDITION-OF-AWARD GOAL Use in selected Federal Aid projects with DBE Condition of Award (COA) goals. The final COA DBE Goal is to be furnished or verified by the Office of Equity and Civil Rights. Use of Disadvantaged Business Enterprise Utilization Certification (DOT Form 272 056) and use of Disadvantaged Business Enterprise Written Confirmation Document (DOT Form 422-031) is required in the proposal. Must use with 1-02.6.OPT3.NEW.GR1 1-02.9.OPT1.GR1, and 1-03.3.OPT2.GR1 (1 fill-in) The fill-in shall be one of the following formats:
		percent (%) of the contract total; or dollars for COA DBE goals Do not use in projects with Federal Transit Administration (FTA) funding, or where FTA is the lead funding agency (use 1-07.11.OPT8.FR1 instead). Do not use with 1-07.11.OPT7.GR1 or 1-07.11.OPT8.FR1.
35 36 37 38 39 40 41 42	1-07.11.OPT4.FR1	Special Training Provisions (November 2, 2022) Use in all Federal Aid projects with more than 50 working days that contain Training (Obtain Training Decision & Fill-in from the Office of Equity and Civil Rights). (1 fill-in)
43 44		Note: Fill-in is Total Hours.
44 45 46 47 48 49 50 51 52 53 54 55	1-07.11.OPT6.FR1	Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprise (MWBE) Participation (October 3, 2022) Use in all State funded (100%) projects with an estimated cost of \$250,000 or more. Contact the Office of Equity and Civil Rights at GoalRequests@wsdot.wa.gov for determination of goals. (2 fill-ins) Fill-in #1 is the enforceable COA Goal for Small Business Enterprises

1 2 3 4		Fill-in #2 is the enforceable COA Goal for Veteran-Owned Businesses Must also include 1-02.6.OPT1.GR1, 1-02.9.OPT2.GR1, and 1-02.13.OPT1.2024.GR1.
5 6 7 8 9 10 11 12 13 14 15 16	1-07.11.OPT7.FR1	Federal Small Business Enterprise (FSBE) Participation (October 3, 2022) Use in selected Federal Aid projects with Federal Small Business Enterprise (FSBE) goals. The FSBE Goal is to be furnished or verified by the Office of Equity and Civil Rights. (1 fill-in) The fill-in shall be in the following format: percent (%) of the contract total for FSBE goals; or dollars for FSBE goals Do not use with 1-07.11.OPT3.FR1.
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	1-07.11.0PT8.FR1	Disadvantaged Business Enterprise (DBE) Condition of Award Participation (October 3, 2022) Requires a CONDITION-OF-AWARD GOAL Use in projects with Federal Transit Administration (FTA) funding, or where FTA is the lead funding agency, and the project contains DBE Condition of Award (COA) goals. The final COA DBE Goal is to be furnished or verified by the Office of Equity and Civil Rights. Use of Disadvantaged Business Enterprise Utilization Certification (DOT Form 272 056) and use of Disadvantaged Business Enterprise Written Confirmation Document (DOT Form 422-031) is required in the proposal. (1 fill-in) The fill-in shall be one of the following formats: percent (%) of the contract total for COA DBE goals; or dollars for COA DBE goals Do not use with 1-07.11.OPT3.FR1.
38 39 40	1-07.12.GR1 Fe	deral Agency Inspection
41 42 43	1-07.12.INST1.GR1	(Section 1-07.12 is supplemented with the following) Must use once preceding any of the following:
44 45 46	1-07.12.OPT1.GR1	(<u>October 3, 2023</u> July 25, 2022) Use in all Federally funded projects.
47 48 49 50 51 52 53 54 55	1-07.12.OPT2.FR1	Indian Preference and Tribal Ordinances (October 3, 2022) Use in projects with any portion of the project on an Indian reservation. (3 fill-ins) (\$\$1\$\$ is the Tribe or Reservation; \$\$2\$\$ is the Group(s) as shown on the Summary of Quantities where Work is performed on Tribal Lands, \$\$3\$\$ is the Tribal representative, telephone and address.)

1	1-07.15.GR1	Temporary V	Vater Pollution Prevention
3	1-07.15(1).GR1	Spill Pre	evention, Control, and Countermeasures Plan
2 3 4 5 6 7	1-07.15(1).INST1		on 1-07.15(1) is supplemented with the following) use once preceding any of the following:
8 9 10	1-07.15(1).OF	(O	otification Requirements October 3, 2022) se in all WSF projects.
11 12	1-07.16.GR1	Protection a	nd Restoration of Property
13 14	1-07.16(1).GR1	Private/I	Public Property
15 16 17	1-07.16(1)C.GR1	Privat	te Property
18 19	1-07.16(1)C.I		ection 1-07.16(1)C is supplemented with the following) ust use once preceding any of the following:
20 21 22 23 24 25 26 27	1-07.16(1)C.OPT1.GR1	(October 3, 2022) Use on projects where the Contractor is expected to be accessing R/W from adjacent properties. This provision requires Contractor to obtain permission to use adjacent properties and submit a Working Drawing.
28 29 30 31	1-07.16(1)C.OPT2.GR1	(October 3, 2022) Use in all WSF projects. Requires the Contractor to obtain permission to use adjacent properties.
32	1-07.16(2).GR1	Vegetati	on Protection and Restoration
33 34 35 36	1-07.16(2).INST1		on 1-07.16(2) is supplemented with the following) use once preceding any of the following:
37 38 39	1-07.16(2).OF	Ùs	ugust 2, 2010) se in projects to specify preservation of existing esirable vegetation.
40 41	1-07.16(4).GR1	Archaeo	ological and Historical Objects
42 43 44	1-07.16(4).INST1		on 1-07.16(4) is supplemented with the following) use once preceding any of the following:
45 46 47 48 49 50 51	1-07.16(4).OF	Ùs tha wi pr	recember 6, 2004) see in projects when reconnaissance studies indicate at there is the probability of finding cultural remains thin the project limits which will require monitoring the oject area during clearing, grubbing or excavation perations. Requires a pay item.
52 53	1-07.17.GR1	Utilities and	Similar Facilities
54 55	1-07.17.INST1.GR1	(Section	1-07.17 is supplemented with the following)

1	1-07.18(5).OPT2.2025.	GR1 (Owners and Contractors Protective Insurance)
2		(November 20, 2023)
3 4 5 6 7		Use in all projects unless an increased insurance
4 5		requirement is required. This corrects an error in the standard specifications
6		regarding the insurance form number.
7		regarding the insurance form number.
8		Do not use with 1-07.18(5).OPT1.FR1.
9		
10	1-07.18(5).OPT1.FR1	(Increased Insurance Requirement – Owners and
11		Contractors Protective Insurance)
12		(September 7, 2021 <u>November 20, 2023</u>)
13		Use in projects when the Engineer's estimate is in
14 15		excess of \$10 million or in projects under \$10 million when in the Engineer's judgment the project involves
16		higher than normal risk(s). The project office should
17		contact the Risk Management & Legal Services Division,
18		Administrative Risk Manager (Office: (360) 704-6376,
19		Cell: (360) 742-8501) to discuss the project's risks. The
20		Administrative Risk Manager will advise the region as to
21		the need to require the additional insurance, and if so,
22 23		will provide the fill in amount. This GSP should not be used if the fill-in amounts match the values listed in the
23 24		Standard Specifications.
25		(1 fill-in)
26		(·)
27	1-07.18(5).OPT2.GR1 (R	educed Insurance Requirement)
28		eptember 7, 2021)
29		se in projects when the Engineer's estimate is \$500,000 or
30		SS.
31 32		o not use with 1-07.18(5).INST1.GR1 because this GSP eletes Item number 1 in Section 1-07.18(5).
33		ust use with 1-07.18(5).OPT3.GR1 .
34		
35	1-07.18(5).INST2.GR1 (T	he first sentence of Item No. 2 of Section 1-07.18(5) is
36		vised to read)
37	Mı	ust use once preceding any of the following:
38	1 07 19/5) ODT2 CD1	(Deduced Incurance Dequirement)
39 40	1-07.18(5).OPT3.GR1	(Reduced Insurance Requirement) (September 7, 2021)
41		Use in all projects when the Engineer's estimate is
42		\$500,000 or less.
43		Must use with 1-07.18(5).OPT2.GR1.
44		
45	1-07.18(5).OPT4.FR1	(Increased Insurance Requirement - Commercial
46 47		General Liability (CGL))
47 48		(September 7, 2021) Use in projects when the Engineer's estimate is in
49		excess of \$10 million or in projects under \$10 million
50		when in the Engineer's judgment the project involves
51		higher than normal risk(s). The project office should
52		contact the Risk Management & Legal Services Division,
53		Administrative Risk Manager (Office: (360) 704-6376,
54 55		Cell: (360) 742-8501) to discuss the project's risks. The Administrative Risk Manager will advise the region as to
55		Administrative Mak Manager will advise the region as to

1 2 3 4 5 6 7			the need to require the additional insurance, and if so, will provide the fill in amounts. This GSP should not be used if the fill-in amounts match the values listed in the Standard Specifications. (1 fill-in)
8	1-07.18(5).INST3.G		ection 1-07.18.(5) is supplemented with the following) ust use once preceding any of the following:
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	1-07.18(5).OPT	5.GR1	(Builders Risk Insurance) (October 3, 2022) Use in projects when in the Engineer's judgment the project facilities themselves may be exposed to significant damage. The Project Office should contact the Administrative Risk Manager (Office: (360) 704-6376, Cell: (360) 742-8501), at the Risk Management & Legal Services Division to discuss any high risk components of the project regarding damage to departmental owned/rented facilities or assets. The Administrative Risk Manager will advise the region as to the need to require the additional insurance. CAUTION: Using this provision will result in significantly higher project costs.
	1-07.18(5).OPT	6.FR1	(Pollution Liability Insurance) (October 3, 2022) Use in all projects where in the Engineer's judgment the Work involves remediation of Environmental hazards, the Contractor shall obtain Contractor's Pollution Liability Insurance. The Project Office should contact the Administrative Risk Manager (Office: (360) 704-6376, Cell: (360) 742-8501), at the Risk Management & Legal Services Division, to discuss the Projects Environmental risks to determine if Contractor's Pollution Liability Insurance (CPL) is needed. The Administrative Risk Manager will advise the region as to the need to require the additional insurance, and if so, provide the fill in amount. (1 fill-in)
40 41 42	1-07.23.GR1 Pt	ublic Co	onvenience and Safety
43 44	1-07.23(1).GR1	Cons	truction Under Traffic
45 46 47 48 49 50 51	1-07.23(1).INST1.G		ection 1-07.23(1) is supplemented with the following) ust use once preceding any of the following:
	1-07.23(1).OPT	1.FB1	(Traffic Restrictions) (March 13, 1995) Use in bridge painting projects. (1 fill-in)
52 53 54	1-07.23(1).OPT	4.GR1	(Temporary Access Breaks) (December 6, 2004)

1 2 3 4 5 6 7 8 9		Use to allow temporary access to the traveled way at locations other than those defined in Standard Specifications 1-07.23(1) . Consider for use on all limited access facilities, and on non-interstate limited access.
10 11 12 13 14 15		Requires Region Approval for all projects. Requires FHWA Approval for use on limited access interstate facilities (allow 30 days minimum for approval). Requires Headquarters State Design Engineer approval for use on non-interstate limited access facilities. Region Project Development shall insure that site conditions meet the criteria contained in the provision. Region Construction and Traffic Offices should concur with projects selected for use. Contact Headquarters Design, Access and Hearings Engineer for guidance.
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	1-07.23(1).OPT5.FR1	(Lane Closure Restrictions) (February 6, 2023) Use in projects where traffic volumes require lane closures restrictions. Includes additional information for general restrictions, access, delays, special events and advance notifications. (8 Fill-ins) Fill-in #1 describes the specific facility or location and the hours that closures are allowed. Fill-ins #2 and #3 designate the period of time over a holiday weekend when closures will not be allowed. Fill-in #4 list special events. Fill-in #5 describes the maximum delay at flagging or AFAD stations. Fill-in #6, #7, and #8 provide information on delays when the Contracting Agency needs to make adjustments due to actual traffic conditions.
36 37 38 39	1-07.23(1).OPT6.GR1	(Accommodating Oversized Loads through the Work Zone) (April 14, 2014) Use in projects on the following routes:
40 41 42 43 44		I-5, I-405, I-90, I-82, I-182, SR 18, SR 167 and US 395 (Tri-Cities to Spokane) If there is the potential for the travelled way to be reduced to less than 16 feet
45 46 47 48 49 50 51 52 53 54		The designer is authorized to modify this specification as necessary to coordinate with the rest of the contract provisions that may contradict, provided the intent of the GSP is maintained. The intent being; provide a clear width of at least 16 feet to accommodate a wide load, provide windows of time to accommodate a wide load (if possible) and/or provide notice as described. Changes in this specification should be coordinated with Commercial Vehicle Services.

1 2 3 4			This specification requires that the Engineer must approve any proposed reduction of the travelled way to a single lane with a clear width of less than 16 feet for duration of 4 calendar days or more.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1-07.23(1).OPT7	FR1	(Public Notification) (October 3, 2022) Use in projects where there are roadway, ramp, or other closures. (3 fill-ins) Fill-in #1 is the number of working days signs are to be installed for closures. Fill-in #2 is the stakeholder(s) required to be notified. Suggested notifications include Washington State Patrol, Local fire/police/emergency services, city engineering departments, affected school or transit, or other stakeholder. Fill-in #3 is the number of working days in advance that notification is to occur.
	1-07.23(1).OPT8.FR1		(Maintenance and Protection of Ferry Traffic) (October 3, 2022) Use in single-slip offshore WSF projects. (1 fill-in) Fill-in #1 is the name of the ferry terminal
	1-07.23(1).OPT9	GR1	(Maintenance and Protection of Ferry Traffic) (October 3, 2022) Use in multi-slip offshore WSF projects.
31 32 33 34 35 36	1-07.23(1).OPT1	0.GR1	(Fourth of July Holiday) (October 3, 2022) Use in projects where holiday travel volumes will not make it feasible to work on the day between the weekend and the 4th of July holiday.
37	1-07.24.GR1 Rig	hts of	Way
38 39 40	1-07.24.INST1.GR1		ion 1-07.24 is supplemented with the following) use once preceding any of the following:
41 42 43 44 45	1-07.24.OPT1.FR1	Ùs not	arch 13, 1995) e in projects when it is possible that the right of way will t be fully acquired at the time of award. fill-ins)
46 47 48 49 50	1-07.24.OPT2.GR1	Ùs	ctober 3, 2022) e in all WSF projects, or when the Sundry Site Plan is ing included in the Contract.
51 52	1-07.28.GR1 Rai	Iroads	
53 54 55	1-07.28.INST1.GR1		ion 1-07.28 is supplemented with the following) use once preceding any of the following:

1 2 3 4 5 6 7 8 9	1-07.28.OPT1.FR1	(Additional Requirements for Working with the Railroad) (October 3, 2022) Use in projects when the Contracting Agency Work is within 25 feet of the centerline of the tracks. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (1 fill-in) Fill-in #1 is the name of the railroad company
10 11 12 13 14 15 16 17 18 19 20	1-07.28.OPT2.FR1	(October 3, 2022) Use in projects when the Contracting Agency has entered into an agreement with the Railroad Company the Work is within 25 feet of the centerline of the tracks. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (1 fill-in) Fill-in #1 is the appendix number of the agreement.
20 21 22 23 24 25 26 27 28 29 30 31	1-07.28.OPT3.FR1	(Construction Work by Railroad Company) (October 3, 2022) Use when the Railroad Company is to provide work with the railroad company forces. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (1 fill-in) Fill-in #1 is the work activities that will be provided by the railroad company.
32 33	1-07.28(1).GR1 G	General
34 35 36	1-07.28(1).INST1.GR1	(Section 1-07.28(1) is supplemented with the following) Must use once preceding any of the following:
מכי		must use once preceding any of the following.
37 38 39 40 41 42 43 44 45 46 47 48	1-07.28(1).OPT1.FF	(Contractor's Right of Entry Agreement) (October 3, 2022) Use when the Contracting Agency has made a right of entry agreement with the Railroad. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (2 fill-ins) Fill-in #1 is the Railroad Company's contact for the Right of Entry Agreement. Fill-in #2 is the appendix number for Contractor Right of Entry "SAMPLE".
37 38 39 40 41 42 43 44 45 46 47 48 49 50		(Contractor's Right of Entry Agreement) (October 3, 2022) Use when the Contracting Agency has made a right of entry agreement with the Railroad. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (2 fill-ins) Fill-in #1 is the Railroad Company's contact for the Right of Entry Agreement. Fill-in #2 is the appendix number for Contractor Right of
37 38 39 40 41 42 43 44 45 46 47 48 49		(Contractor's Right of Entry Agreement) (October 3, 2022) Use when the Contracting Agency has made a right of entry agreement with the Railroad. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (2 fill-ins) Fill-in #1 is the Railroad Company's contact for the Right of Entry Agreement. Fill-in #2 is the appendix number for Contractor Right of Entry "SAMPLE".

1 Use in projects that require submittal review by a 2 Railroad. Projects with work occurring below the bridge 3 deck, work adjacent to the tracks, or work requiring 4 containment systems, falsework, or formwork typically 5 require Railroad review. Deck planing, deck repair, and 6 overlays would typically not require Railroad review as 7 the work is confined between the bridge rails and the 8 deck surface. Contact the Development Division Design 9 Office, Railroad Liaison Engineer at (360) 705-7459 to 10 determine if this GSP is necessary, and to obtain the fill-11 in information. 12 (2 fill-ins) Fill-in #1 is the number of calendar days expected for 13 14 each working drawing. 15 Fill-in #2 is the number of calendar days expected for a 16 re-review of a working drawing. 17 18 1-07.28(6).GR1 Railroad Protective Services 19 20 1-07.28(6).INST1.GR1 (Section 1-07.28(6) is supplemented with the following) 21 Must use once preceding any of the following: 22 23 1-07.28(6).OPT1.FR1 (October 3, 2022) Use when the Contracting Agency has made an 24 agreement with the railroad for Railroad Flagging or 25 26 other protective services. Contact the Development Division Design Office, Railroad Liaison Engineer at 27 28 (360) 705-7459 to determine if this GSP is necessary, 29 and to obtain the fill-in information. 30 (2 fill-ins) 31 Fill-in #1 is the minimum notification to Railroad 32 Company or work within 25' of centerline of tracks. Fill-in #2 is the Railroad Company contact for scheduling 33 34 Railroad Flagging or other protective services. 35 36 1-07.28(8).GR1 **Measurement and Payment** 37 38 1-07.28(8).INST1.GR1 (Section 1-07.28(8) is revised to read) 39 Must use once preceding any one of the following: 40 41 1-07.28(8).OPT1.GR1 (Railroad flagging or protective services) 42 (October 3, 2022) Use when railroad flagging or protective services are 43 44 required for the project and Use when the Contracting 45 Agency has made an agreement with the railroad for 46 Railroad Flagging or other protective services. 47 Estimated Cost to be placed below the line in Ebase for 48 the project office to make direct payments by invoice to 49 the railroad. Contact the Development Division Design 50 Office, Railroad Liaison Engineer at (360) 705-7459 to 51 determine if this GSP is necessary. Do not use with 1-52 07.28(8).OPT2.GR1 53 54 1-08.GR1 **Prosecution and Progress** 55

1 2	1-08.1.GR1	Subcontracting
3 4 5	1-08.1.INST1.	GR1 (Section 1-08.1 is supplemented with the following) Must use once preceding any of the following:
6 7 8	1-08.1.OPT	1.GR1 (Subcontracting) (October 3, 2022) Use in all Federally funded projects.
9 10 11 12 13	1-08.1.OPT	Qualifications Of Building Contractor (March 13, 1995) Use in road construction projects that also include building construction.
14 15	1-08.3.GR1	Progress Schedule
16 17 18	1-08.3(4 <u>2</u>). <u>NE</u>	W.GR1 General Requirements
19 20 21	1 -08.3(1).IN	NST1.GR1 (The first sentence of Section 1-08.3(1) is revised to read) Must use once preceding any of the following:
22 23 24 25 26 27 28 29 30 31	1-08.3(*	1).OPT1.GR1 (August 7, 2006) Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP 1-08.3(2).OPT2.FR1 at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1.
32 33 34	1-08.3(2)B.GF 1-08.3(4 <u>2)E</u>	R1 Type B Progress Schedules 3.INST21.GR1 (Section 1-08.3(42) is supplemented with the following) Must use once preceding any of the following:
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1-08.3(<i>-</i>	42)B.OPT21.FR1 (Additional Required Activities on Progress Schedule) (October 3, 2022November 20, 2023) Use in projects with milestones and/or activities that need to be shown on the progress schedule for successful schedule management. This may not be Work items, but permits, procurement, or other activities known to have risk or drive the length of the schedule. Suggested items include Railroad Right of Entry Agreements and materials requiring long procurement or fabrication periods, such as signal or light poles, structural elements, or mechanical items. If you have a right of entry agreement with the railroad, contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information. (1 fill-in) Fill-in #1 is milestones and/or activities.
54 55	1-08.3(2).GR1	Progress Schedule Types

1 2 3	1-08.3(2).INST3.GR1	(Section 1-08.3(2) is supplemented with the following) Must use once preceding any of the following:
4 5 6 7	1-08.3(2).OPT2.FR1	(Type C Progress Schedule) (September 7, 2021) Include in complex or high impact projects under the following conditions:
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22		The Engineers Estimate exceeds \$15 million or Time for Completion exceeds 180 working days, and when the project includes some or all of the following characteristics: multiple traffic shifts and staged construction is required; complete closure of ramps, surface streets, or interstate is required; designated detour routes require inter-agency agreements; state supplied materials and resources require significant advanced coordination; utility relocation by others is dependent on staged construction; significant impacts to businesses and communities require regular public information reports; commitments to funding partners (not legislative) for specific completion timeframes are documented to exist.
23 24 25 26 27 28 29 30 31		Use requires concurrence of the Region Construction Manager and the approval of the HQ Construction Office. Must include with 1-08.3(1).OPT1.GR1, 1-08.3(3).OPT1.GR1, 1-08.3(5).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1. (1 fill-in) Fill-in #1 is the current version of the scheduling software.
32	1-08.3(3).GR1 S	chedule Updates
34 35 36	1-08.3(3).INST1.GR1	(Section 1-08.3(3) is revised to read)
37		Must use once preceding any of the following:
38 39 40 41 42	1-08.3(3).OPT1.GR ²	Include in complex or high impact projects requiring the use of a Type C Schedule as described for GSP 1-08.3(2).OPT2.FR1 at the discretion of the Region
42 43 44 45 46		Construction Manager. Use requires the approval of the HQ Construction Office. Must include with 1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(5).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1.
47 48	1-08.3(4).GR1 M	easurement
49 50 51	. ,	(Section 1-08.3(4) is supplemented with the following) Must use once preceding any of the following:
52 53 54 55	1-08.3(4).OPT1.GR1	1 (August 5, 2013) Include in complex or high impact projects requiring the use of a Type C Schedule as described for GSP 1-

1 2 3 4 5 6 7		08.3(2).OPT2.FR1 at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with 1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1.
8 9	1 -08.3(5).GR1	Payment Paymen
10 11 12	1-08.3(5).INST1.GR1	(Section 1-08.3(5) is supplemented with the following) Must use once preceding any of the following:
12 13 14 15 16 17 18 19 20 21 22 23	1-08.3(5).OPT1.GF	(Schedule Update) (September 7, 2021) Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP 1-08.3(2).OPT2.FR1 at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with 1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(4).OPT1.GR1, and 1-08.3(5).OPT2.GR1.
24 25 26 27 28 29 30 31 32 33 34	1-08.3(5).OPT2.GF	(September 7, 2021) Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP 1-08.3(2).OPT2.FR1 at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with 1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(4).OPT1.GR1 and 1-08.3(5).OPT1.GR1.
35 36	1-08.4.GR1 Pros	secution of Work
37 38		(The first sentence of Section 1-08.4 is revised to read) Must use once preceding any of the following:
39 40 41 42 43 44 45 46 47 48	1-08.4.OPT1.FR1	(Establish starting date for roadway operations) (August 3, 2015) Must also use 1-08.5.OPT9.FR1 . At the discretion of the Region Administrator, use in short term projects when a delayed start is desirable to allow the Contractor some latitude in scheduling the work. Recommendation by the Region Construction Office is advised. (1 fill-in)
49 50 51 52 53 54 55	1-08.4.OPT2.GR1	(Variable start: State controls start) (August 7, 2006) Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is not known. Region

1 2 3 4 5 6		Construction Engineer, or equivalent, approval is required to use this provision. Must include 1-08.5.OPT1.FR1 and 1-08.5.OPT7.FR1.
7 8 9 10 11 12 13 14	1-08.4.OPT3.FR	(Fixed start: State controls start) (August 7, 2006) Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include 1-08.5.OPT2.FR1 and 1-08.5.OPT7.FR1. (1 fill-in)
15 16	1-08.5.GR1	Time for Completion
17 18 19 20	1-08.5.INST1.GR1	(The third paragraph of Section 1-08.5 is revised to read) Must use once preceding any of the following:
21 22 23 24 25 26 27 28 29 30	1-08.5.OPT1.FR	(Variable start: State controls start) (August 7, 2006) Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is not known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include 1-08.4.OPT2.GR1 and 1-08.5.OPT7.FR1. (2 fill-ins) Fill-ins are contract start times.
31 32 33 34 35 36 37 38 39 40 41 42	1-08.5.OPT2.FR	(Fixed start: State controls start) (August 7, 2006) Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include 1-08.4.OPT3.FR1 and 1-08.5.OPT7.FR1. (1 fill-in) Fill-in is contract start time.
42 43 44 45	1-08.5.INST2.GR1	(Section 1-08.5 is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49 50 51	1-08.5.OPT7.FR	(Time for physical completion) (March 13, 1995) Use in all projects not requiring one of the following "TIME FOR COMPLETION" GSP's. (1 fill-in)
52 53 54	1-08.5.OPT8.FR	1 (Time for physical completion) (March 13, 1995) Must also use 1-08.9.OPT1.FR1.

1 2 3 4		Use in projects requiring an interim or temporary controller for early use of a signal system and where an intermediate physical completion time is required. (2 fill-ins)
5 6 7 8 9	1-08.5.OPT9.FR1	(Time for physical completion) (December 4, 2006) Must also use 1-08.4.OPT1.FR1. (2 fill-ins) Fill-in #2 is the same as fill-in #1 for 1-08.4.OPT1.FR1 .
11 12 13 14 15 16 17	1-08.5.OPT10.FR1	(Time for physical completion) (March 13, 1995) Use in projects with signal work and the Contracting Agency furnishes the signal control equipment. (1 fill-in)
18 19 20 21 22 23 24 25 26	1-08.5.OPT11.FR1	Incentive For Early Completion (August 4, 2003) Use in projects requiring an incentive for early completion. Prior approval from the State Construction office is required for the use of this GSP. (4 fill-ins) \$\$1\$\$, \$\$2\$\$ and \$\$4\$\$ are substantial or physical, \$\$3\$\$ is dollar value established by the Region, must be justified by road user costs.
27 28	1-08.6.GR1 Sus	spension of Work
29 30 31 32	1-08.6.INST1.GR1	(Section 1-08.6 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38 39 40 41 42 43 44	1-08.6.OPT1.FR1	(Procurement Suspension) (January 3, 2017) Requires approval of HQ Construction. Use in projects requiring materials that have long lead times for procurement or fabrication, or proprietary/specialized materials, HMA Mix Design evaluation, and procurement of the materials or HMA Design evaluation is a controlling factor in the time for completion. Not recommended if material procurement or mix design approval are not critical path items. Use 1-08.6.OPT2.FR1 instead, if project does not include HMA paving.
45 46 47 48 49 50 51 52 53 54 55		Fill-in #1 identifies materials that are critical for timely completion and require fabrication or long lead times for procurement. Examples of critical materials may include Hot Mix Asphalt, landscaping (cultivated) items, permanent signing, steel guardrail posts, ITS equipment, modular expansion joints, bridge railing, hydraulic/electrical rehabilitation components, bridge girders, buried structures, steel jackets for seismic retrofits, castings, single-source drain pipe, signal controllers, light standards, or signal standards.

1		Fill-in #2 limits the duration of the suspension for acquisition
2 3 4 5		of critical materials. The duration of the suspension should be appropriate for the work being performed and will vary according to the type of materials required.
5 6 7 8 9		The use of a short duration may be impossible to achieve or may raise the cost of the project. (2 fill-ins)
10 11 12 13	1-08.6.OPT2.FR1	(Procurement Suspension (February 6, 2023) Use in projects requiring materials that have long lead times for procurement or fabrication, or proprietary/specialized
14 15 16 17 18		materials, and procurement of the materials is a controlling factor in the time for completion. WSDOT's preliminary schedule for calculating working days should include the estimated suspension duration as non-working. (2 fill-ins)
20 21 22 23 24 25 26 27 28		Fill-in #1 identifies materials that are critical for timely completion and require fabrication or long lead times for procurement. Examples of critical materials may include: Landscaping (cultivated) items, permanent signing, steel guardrail posts, ITS equipment, modular expansion joints, bridge railing, hydraulic/electrical rehabilitation components, bridge girders, buried structures, steel jackets for seismic retrofits, castings, single source drain pipe, signal controllers, light standards, or signal standards.
29 30 31 32 33		Fill-in #2 limits the duration of the suspension for acquisition of critical materials. The duration of the suspension should be appropriate for the work being performed and will vary according to the type of materials required.
34 35 36	1-08.9.GR1 Liqu	uidated Damages
30 37	1-08.9.INST2.GR1	(Section 1-08.9 is revised to read)
38	1 00.0.111012.0111	Must use once preceding any of the following:
39 40	1-08.9.0PT1.FR1	(Failure to complete temporary signal system)
41	1-00.0.01 11.110	(March 13, 1995)
42		Use in projects requiring an interim or temporary controller
43		for early use of a signal system and where an intermediate
44		physical completion time is required. The Region must
45		determine the appropriate liquidated damages based on
46		road user costs.
47 48 49		Must also use 1-08.5.OPT8.FR1 and 1-08.9.OPT3.FR1. (1 fill-in)
50 51	1-08.9.OPT2.FR1	(Interim Completion Liquidated Damages) (April 6, 2009)
52		Use in projects where an interim completion time is desired
53		(such as the completion of a stage of work, lane closure, or
54		ITS disruption), and the Region determines that user costs
55		for failure to complete the specified portion of work, as

1 2 3 4 5 6 7 8 9	calculated by the Transportation Data Office, are significant enough to warrant liquidated damages. Determination of the liquidated damage amount must adhere to Chapter 700.01 of the Plans Prep Manual. (6 fill-ins) \$\$1\$\$ describes the work to be completed; \$\$2\$\$ is the user cost; \$\$3\$\$ and \$\$4\$\$ is the unit of time (minutes, hours or days); \$\$5\$\$ is the smallest increment of time that will be measured; and \$\$6\$\$ is the contract provision that specifies the completion time. Must also use 1-08.9.OPT3.FR1.
11 12 13	1-08.9.INST31.GR1 (Section 1-08.9 is supplemented with the following) Must use once preceding any of the following:
14 15 16 17 18 19 20 21 22 23	1-08.9.OPT31.NEW.FR1(Liquidated Damages) (September 8, 2020) Use in all projects. (1 fill-in) Fill-in shall be the amount determined by the Design Liquidated Damages Calculation Sheet: http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/DesignLiquidatedDamagesCalculationSheet.xlsm.
24 25 26 27 28 29 30 31 32 33	1-08.9.OPT2.NEW4.FR1 (Failure to complete temporary signal system) (March 13, 1995) Use in projects requiring an interim or temporary controller for early use of a signal system and where an intermediate physical completion time is required. The Region must determine the appropriate liquidated damages based on road user costs. Must also use 1-08.5.OPT8.FR1 and 1-08.9.OPT1.NEW3.FR1. (1 fill-in)
34 35 36	1-08.9.OPT23.NEW.FR1(Interim Completion Liquidated Damages) (April 6, 2009)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Use in projects where an interim completion time is desired (such as the completion of a stage of work, lane closure, or ITS disruption), and the Region determines that user costs for failure to complete the specified portion of work, as calculated by the Transportation Data Office, are significant enough to warrant liquidated damages. Determination of the liquidated damage amount must adhere to Chapter 700.01 of the Plans Prep Manual. (6 fill-ins) \$\$1\$\$ describes the work to be completed; \$\$2\$\$ is the user cost; \$\$3\$\$ and \$\$4\$\$ is the unit of time (minutes, hours or days); \$\$5\$\$ is the smallest increment of time that will be measured; and \$\$6\$\$ is the contract provision that specifies the completion time. Must also use 1-08.9.OPT1.NEW3.FR1.
52 53	1-09.GR1 Measurement and Payment
54 55	1-09.2.GR1 Weighing Equipment

1 2	1-09.2(1).GR1	General Requirements for Weighing Equipment
3 4	1-09.2(1)A.GR1	Electronic Delivery Management System (E-Ticketing)
5 6	1-09.2(1)A1.	GR1 Equipment
7 8 9	1-09.2(1)A1.	INST1.GR1 (Item_number_1 in_the_first_paragraph_of_Section_1-09.2(1)A1 is revised to read) Must use once preceding any of the following:
11 12	1-09.2(1)	A1.OPT1.2024.GR1 (March 9, 2023) Use in all projects.
13 14	1-09.3.GR1	Scope of Payment
15 16 17	1-09.3.INST1.GR1	(Section 1-09.3 is supplemented with the following) Must use once preceding any of the following:
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	1-09.3.OPT1.FR	Fuel Cost Adjustment (August 7, 2017 UpdateAugust 7, 2017) Use requires Region Construction Manager Approval and concurrence from HQ Construction Office. At the Region's discretion, use in Design-Bid-Build projects with more than 200–100 working days or high fuel use projects with an anticipated substantial completion date more than 6 months beyond the bid opening date (for jobs with early bid dates) that include any of the bid items that are eligible for adjustment. Include an estimated amount for the bid item "Fuel Cost Adjustment" in the Engineers Estimate. Only the items described below are eligible for adjustment. (2 or more fill-ins) Fill-ins are the bid items that are eligible for adjustment, and fuel usage factors for those bid items. To determine which Bid Items are eligible for Adjustment: If the bid proposal contains items that fit the description of the items listed below, then those bid items are eligible for adjustment.
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55		Eligible Bid Item Fuel Usage FactorExcavation Incl. Haul, per cubic yard 0.290.70 gal/cyExcavation Incl. Haul — Area per cubic yard 0.290.70 gal/cyBorrow Incl. Haul, per cubic yard 0.250.68 gal/cyBorrow Incl. Haul, per ton 0.170.45 gal/ton Structure Excavation Class Incl. Haul, per cubic yard 0.250.70 gal/cy Shoring or Extra Excavation Class A, lump sum 0.04 gal/dollar Crushed Surfacing, per ton 0.70 gal/ton Crushed Surfacing, per cubic yard 1.021.20 gal/cy Processing and Finishing, per mile 270 gal/mile Agg. From Stockpile for BST, per cubic yard

I 4	0.61 gal/av
1 2	0.61 gal/cy Furnishing and Placing Crushed
3	Furnishing and Placing Crushed, per cubic yard 1.021.20 gal/cy
3 4	Furnishing and Placing Crushed to No. 4,
5	per square yard 0.02 gal/sy
6 7	Furnishing and Placing Crushed Screening No. 4 to 0,
8	per square yard 0.002 gal/sy
	Planing Bituminous Pavement, per square yard 0.09
9	gal/sy
10 11	HMA CI PG, per ton 0.90 gal/ton HMA for , per ton 0.90 gal/ton
12	Commercial HMA, per ton 0.90 gal/ton
13	Cement Concrete Pavement, per cubic yard 1.01.2
14	
15	gal/cy Cement Concrete Pavement -
16	Including Dowels, per cubic yard 1.01.2 gal/cy
17	Concrete Class, per cubic yard gal/cy
17	Commercial Concrete, per cubic yard 4.01.2 gal/cy
19	Superstructure, lump sum 0.020.005 gal/dollar
20	St. Reinf. Bar, per pound 0.020.004 gal/Lb
21	Epoxy-Coated St. Reinf. Bar, per pound 0.020.004
22	gal/Lb
23	gai/Lb
24	Determine the Engineers Estimate for the bid item "Fuel
25	Cost Adjustment":
26	Oost/Adjustmont .
27	Base Fuel Cost and Estimated Monthly Fuel Cost:
28	Baco Faci Cook and Edimated Menting Faci Cook
29	Obtain the most current Monthly fuel price from the U.S.
30	Energy Information Administration website. The website
31	location and directions are as follows:
32	
33	o http://www.eia.gov/petroleum/gasdiesel/
34	on the web page, click on the West Coast less
35	California, listed under the heading U.S On-
36	Highway Diesel Fuel Prices*(dollar per
37	gallon) at the lower end of the web page.
38	° In the pull down box labeled <i>Period</i> pull down
39	Monthly
40	 Click on the fuel price history found under the
41	column heading <i>View History</i> for the line <i>Diesel</i>
42	(On-Highway) – All Types.
43	
44	Multiply the Base Fuel Cost by the appropriate Contract
45	Duration Factor (below) to determine the Estimated
40	Mandalu Fuel Cost

ropriate Contract e the Estimated Monthly Fuel Cost.

Contract Duration	Contract Duration Factor
200 Working days Up to 1 year	1.12 <u>1.10</u>
1 to 2 years	1.25
2 to 3 years	1.37
3 to 4 years	1.49
4 to 5 years	1.62

Estimate the amount of the Adjustment:

48 49

46

47

1		Use the formulas below.
2 3 4 5 6		Adjustment = (Est. Monthly Fuel Cost $-$ (1.10 x Base Fuel Cost)) x Q
6 7 8		Where $Q = \Box$ ((Fuel Usage Factor) x (Total Quantity of each Eligible Bid Item)) for all Eligible Bid Items.
9 10 11		Sample Calculation: My project is 300 working days. It contains 10,000 tons of HMA CI. 1/2" PG 70-22, and 500 tons of CSBC.
12 13 14 15		HMA Cl. 1/2" PG 70-22 is Eligible for Adjustment. Crushed Surfacing Base Course is Eligible for Adjustment.
16 17 18 19		From U.S. Energy Information Administration website: most recent Monthly Fuel Price = 3.06 dollars per gallon. This monthly price becomes the Base Fuel Cost.
20 21 22 23 24 25		Therefore: Base Fuel Cost = 3.06 dollars/gal Est. Monthly Fuel Cost = Base Fuel Cost x Contract Duration Factor Est. Monthly Fuel Cost = 3.06 x 1.25 = 3.825 dollars/gal
26 27 28 29		Q = $(0.70 \text{ gal/ton } \times 500 \text{ tons}) + (0.90 \text{gal/ton } \times 10,000 \text{ tons})$ Q = $9,350 \text{ gal}$
30 31 32		Adjustment = $(3.82 \text{ dollars/gal} - (1.10 \times 3.06 \text{ dollars/gal}))$ x 9,350 gal
33 34		Adjustment = \$4,291.65 <u>5,675.45</u> = \$4,300 <u>5,700</u>
35 36 37 38 39 40	1-09.3.OPT2.FR1	Steel Cost Adjustments (August 6, 2018) Use in all projects that use quantities of steel in excess of 50,000 pounds, including non-proprietary walls, pedestrian bridges and vehicular bridges.
41 42 43 44		Fill-in #1 is the initial cost basis of steel and should use a value of \$0.40/lb. Any deviation from the default value of \$0.40/lb requires approval of the HQ Construction Office.
45 46 47 48 49 50 51 52 53 54 55		Fill-in #2 is a list of the bid items that are eligible for steel cost adjustment. This can include bid items that are entirely composed of steel (e.g., Steel Reinforcing Bar for Bridge) and can also include lump sum items that use significant quantities of steel (e.g., Superstructure, Lump Sum). Contact the HQ Strategic Analysis and Estimating Unit for assistance preparing the Engineer's Estimate for the bid item "Steel Cost Adjustment." (2 fill-ins)

1	1-09.8.GR1	Payment for Material On Hand
2 3 4 5	1-09.8.INST1.GR	(The last paragraph of Section 1-09.8 is revised to read) Must use once preceding any of the following:
6 7 8	1-09.8.OPT1.0	GR1 (August 3, 2009) Use in projects that are over \$2 million and have more than 120 working days.
9	1-09.9.GR1	Payments
10 11 12	1-09.9(1).GR1	Retainage
13 14 15	1-09.9(1).INST	1.GR1 (Section 1-09.9(1) including title is deleted and replaced with the following) Must use once preceding any of the following:
16 17 18 19	1-09.9(1).0	PPT1.GR1 (Vacant) (June 27, 2011) Use in all Federally funded projects.
20 21	1-10.GR1 Te	mporary Traffic Control
22 23 24	1-10.1.GR1	General
25 26 27	1-10.1.INST1.GR	 (Section 1-10.1 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32 33 34 35 36 37 38 39 40 41	1-10.1.OPT1.F	(Agency-Provided Traffic Control Resources) (April 1, 2013) Use on projects where the Region will be providing some labor, equipment or material resource to the Contractor. Typically will include signs, posts, pilot car drivers, etc. The decision to provide resources and the use of this provision requires the approval of the Region Construction Manager. The first fill-in is a detailed list of the resources to be provided. Include a description of the item, the quantity (if appropriate), its location and any special instructions to the Contractor for acquiring the item. Include a reference to the description of work provision where the resource is to be applied. The second fill-in is the number of working days you
42 43 44		want the Contractor to notify the Engineer before each duration of use of the resources.
45 46 47 48 49 50 51 52 53	1-10.1.OPT2.F	(2 fill-ins) (Agency-Arranged Law Enforcement) (May 20, 2020) Use on projects where the use of WSP personnel is included in the Contract. The decision to use this provision requires the approval of the ARA for Construction or designee. (2 fill-ins)

1 2 3 4 5 6 7 8 9 10 11 12 13		Fill-in #1 is a list of the specific duties the WSP personnel may perform during active work zones. Refer to the WSDOT Traffic Manual (M 51-02) Chapter 5-19.C for a list of specific recommended assignments. WSP should not be shown on the traffic control plans and the duties should be independent from the traffic control installation, operation and removal. Fill-in #2 is the number of hours that the Contracting Agency will pay the full cost of these WSP duties. This number may be zero if allowing the contractor to request the WSP duties at a 50/50 cost-sharing option during the project is determined acceptable.
14 15	1-10.1(1).GR1	Materials
16 17 18	1-10.1(1).INST1.GR1	(Section 1-10.1(1) is supplemented with the following) Must use once preceding any of the following:
10 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	1-10.1(1).OPT1.GI	(Automated Flagger Assistance Devices(AFAD)) (January 10, 2022) Recommend using in projects utilizing one-way traffic control on two-lane routes with a posted speed of 55MPH or more, but may also be used on lower speed roadways. Near signalized intersections, flaggers should be used to control traffic. Must use with 1-10.3(3).OPT1.GR1, 1-10.4(2).OPT2.GR1, and 1-10.5(2).OPT1.GR1. If AFAD is included in the lump sum cost for "Project Temporary Traffic Control," do not use 1-10.4(2).OPT2.GR1 and 1-10.5(2).OPT1.GR1. If AFAD will be paid for by the hour use with 1-10.4(2).OPT2.GR1 and 1-10.5(2).OPT1.GR1. Must also pay for flaggers by the hour. If AFAD will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1.
41 42	1-10.2.GR1 Traff	fic Control Management
43 44 45		(Section 1-10.2 is supplemented with the following) Must use one preceding any of the following:
45 46 47 48 49 50 51 52	1-10.2.OPT1.GR1	 (Work Zone Safety Contingency) (November 2, 2022) Use in all projects with traffic control. For projects with item bids, use with 1-10.5(2).OPT7.GR1. For projects with lump sum plus reinstated bid items, use
53 54		with 1-10.4(3).OPT1.FR1 and 1-10.5(2).OPT7.GR1.
55	1-10.2(1).GR1	General

1 2 3	1-10.2(1).INST1.GR1	(Section 1-10.2(1) is supplemented with the following) Must use once preceding any of the following:
3 4 5 6 7 8 9	1-10.2(1).OPT1.G	R1 (Acceptable TCS Training) (October 3, 2022) Include in all projects that include the bid item Traffic Control Supervisor, or include the bid item Project Temporary Traffic Control.
10 11 12 13 14 15 16 17 18	1-10.2(1).OPT2.G	R1 (Traffic Control Supervisor) (January 5, 2015) May be used on projects with temporary traffic control where a greater experience level is desired for the primary Traffic Control Supervisor. Typical projects where use of the GSP would be considered may have complex traffic control plans, increased risk of worker safety, or impacts to the public.
20 21 22 23	1-10.2(9-35).GR1	(Temporary Traffic Control Materials) (Section 9-35 is supplemented with the following) Must use once preceding any of the following:
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	1-10.2(9-35).OPT	1.GR1 (Temporary Portable Transverse Rumble Strips) (October 3, 2022) Use on projects that have flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance. Must use with 1-10.3(3).OPT5.GR1, 1-1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1. If temporary portable transverse rumble strips are included in the lump sum cost for "Project Temporary Traffic Control," do not use 1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1. If temporary portable transverse rumble strips will be paid for by each use with 1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1. If temporary portable transverse rumble strips will be paid for by each and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1.
48 49	1-10.3.GR1 Traf	fic Control Labor, Procedures and Devices
50 51	1-10.3.INST1.GR1	(Section 1-10.3 is supplemented with the following) Must use once preceding any of the following:
52 53 54	1-10.3.OPT1.FR1	(Contractor-Provided Uniformed Police Officers) (May 20, 2020)

1 2 3 4		Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control-related duties.
5 6 7 8 9		(1 fill-in) The fill-in should provide contact information for local law enforcement agencies that may be able to provide this service. The WSP district contact for the project location may also be provided.
10 11 12		Use with 1-10.4(2).OPT6.GR1 and 1-10.5(2).OPT5.GR1 . For use on WSDOT projects only.
13 14	1-10.3(3).GR1	Traffic Control Devices
15 16 17	1-10.3(3).INST1.GR1	(Section 1-10.3(3) is supplemented with the following) Must use once preceding any of the following:
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	1-10.3(3).OPT1.GF	(Automated Flagger Assistance Devices) (January 10, 2022) Use in projects to include the Automated Flagger Assistance Devices (AFAD). Must use with 1-10.1(1).OPT1.GR1, 1-10.4(2).OPT2.GR1, and 1-10.5(2).OPT1.GR1. If AFAD is included in the lump sum cost for "Project Temporary Traffic Control," do not use with 1-10.4(2).OPT2.GR1 and 1-10.5(2).OPT1.GR1. If AFAD will be paid for by the hour use with 1-10.4(2).OPT2.GR1 and 1-10.5(2).OPT1.GR1. Must also pay for flaggers by the hour. If AFAD will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1.
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1-10.3(3).OPT2.GF	(Radar Speed Display Signs) (January 2, 2018) Consider use on freeway projects when traffic will be reduced to a single lane with temporary traffic control and workers will be present in close proximity behind channelization devices. Consider a regulatory speed limit reduction when the single lane of traffic will be shifted onto the shoulder away from the work area. The Region Traffic Engineer will need to approve the speed limit reduction. Must use with 1-10.3(3)(9-35).OPT1.GR1, 1-10.4(2).OPT3.GR1, and 1-10.5(2).OPT2.GR1. If radar speed display signs are included in the lump sum cost for "Project Temporary Traffic Control," do not use with 1-10.4(2).OPT3.GR1 and 1-10.5(2).OPT2.GR1.

1 2 3		If radar speed display signs will be paid for by the hour use with 1-10.4(2).OPT3.GR1 and 1-10.5(2).OPT2.GR1.
4 5 6 7 8 9		If radar speed display signs will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1.
10 11 12 13 14 15 16 17 18 19 20 21 22	1-10.3(3).OPT3.FR1	(Smart Work Zone System) (October 3, 2022)(November 20, 2023) Consider including a smart work zone system (SWZS) for projects where long-term (4 or more days) temporary traffic control restrictions will cause regular or ongoing traffic congestion and delays in approximately the same location. This system is intended for queues up to 9 miles. Typical traffic control plans are available for 6-mile and 9-mile systems. Queue detection warning, dynamic lane merge, and travel delay offer work zone queue mitigation. Consult your region traffic engineer for assistance.
23 24 25 26 27 28		If the smart work zone system is included in the lump sum cost for "Project Temporary Traffic Control," do not use with 1-10.4(2).OPT5.GR1 and 1-10.5(2).OPT3.GR1.
29 30 31 32		If the smart work zone system will be paid for by the hour use with 1-10.4(2).OPT5.GR1 and 1-10.5(2).OPT3.GR1.
33 34 35 36 37 38 39		If radar speed display signs will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1. If Project Temporary Traffic Control is lump sum (with reinstated items), use with 1-10.5(2).OPT3.GR1.
40 41 42 43		If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with 1-10.4(2).OPT5.GR1 and 1-10.5(2).OPT3.GR1.
44 45 46 47 48 49 50 51 52 53 54 55	1-10.3(3).OPT4.FR1	(Queue Warning System) (October 3, 2022)(November 20, 2023) Consider including a queue warning system (QWS) for projects where daily, nightly, weekend, or durations up to one week where temporary traffic control restrictions will cause intermittent traffic congestion and delays in different locations as closures move with work operations (such as pavers) but also in the same location. This system is intended for queues of up to 3 miles. Freeway Typical Traffic Control Plans will soon be updated to include the Queue Warning System option (Sheet 1A). Queue detection warning and dynamic lane

1 2 3		merge offer work zone queue mitigation. Consult region traffic engineer for assistance.
3 4 5 6 7		If the queue warning system is included in the lump sum cost for "Project Temporary Traffic Control," do not use with 1-10.4(2).OPT7.GR1 and 1-10.5(2).OPT4.GR1.
8 9 10		If the queue warning system will be paid for by the hour use with 1-10.4(2).OPT7.GR1 and 1-10.5(2).OPT4.GR1.
11 12 13 14 15		If radar speed display signs will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1.
16 17 18		If Project Temporary Traffic Control is lump sum (with reinstated items), use with 1-10.5(2).OPT4.GR1.
19 20 21 22		If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with 1-10.4(2).OPT7.GR1 and 1-10.5(2).OPT4.GR1.
23 24 25 26	1-10.3(3).OPT5.GR1	(Temporary Portable Transverse Rumble Strips) (October 3, 2022) Use when a project has flagging operations and speeds are 45mph or higher. Consult region traffic engineer for
27 28 29		assistance. Must use with 1-10.2(9-35).OPT1.GR1.
30 31 32 33 34		If temporary portable transverse rumble strips are included in the lump sum cost for "Project Temporary Traffic Control," do not use 1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1.
35 36 37 38		If temporary portable transverse rumble strips will be paid for by each use with 1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1.
39 40 41 42 43 44		If temporary portable transverse rumble strips will be paid for by each and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1. If Project Temporary Traffic Control is lump sum (with reinstated items), use with 1-10.5(2).OPT4.GR1.
45 46 47 48 49		If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with 1-10.2(9-35).OPT1.GR1, 1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1.
50 51 52	1-10.3(3)(9-35.8).GR1	(Section 9-35.8 is revised to read) Must use once preceding any of the following:
53 54 55	1-10.3(3)(9-35.8).OP	T1.GR1 (Radar Speed Display Signs) (April 1, 2019)

11	1 2 3 4			Use on projects that will be utilizing Radar Speed Display Signs. The Region Traffic Engineer will need to approve the speed limit reduction. Must use with 1-10.3(3).OPT2.GR1.
If radar speed display signs will be paid for by the hour use with 1-10.4(2).OPT3.GR1 and 1-10.5(2).OPT2.GR1. If radar speed display signs will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1. Must use with 1-40.3(3).OPT2.GR1, 1-10.4(3).OPT3.GR1, and 1-10.5(2).OPT2.GR1, 1-10.4(3).OPT3.GR1, and 1-10.5(2).OPT2.GR1. In the following of the foll	8			cost for "Project Temporary Traffic Control," do not use
If radar speed display signs will be paid for by the hour and the project also contains "Project Temporary Traffic Control" also add to the reinstated items in 1-10.4(3).OPT1.FR1. Must use with 1-10.3(3).OPT2.GR1, 1-10.4(2).OPT3.GR1, and 1-10.5(2).OPT2.GR1, 1-10.4(2).OPT3.GR1, and 1-10.5(2).OPT2.GR1. 1-10.3(3)B.GR1 Sequential Arrow Signs (Arrow Boards) 1-10.3(3)B(9-35.4).GR1 (Section 9-35.4 is supplemented with the following) Must use once preceding any of the following: 1-10.3(3)B(9-35.4).OPT1.20242025.GR1 (GPS and Remote Communication Requirements) (October 3, 2022) Use on all interstate-Freeway projects where the traffic control plans show sequential arrow signs being used. 1-10.3(3)K.GR1 Portable Temporary Traffic Control Signal 1-10.3(3)K.INST1.GR1 (Section 1-10.3(3)K is revised to read) Must use once preceding any of the following: 1-10.3(3)K.OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use once preceding any of the following:	10 11 12			
1-10.3(3)B.GR1 Sequential Arrow Signs (Arrow Boards) 1-10.3(3)B(9-35.4).GR1 (Section 9-35.4 is supplemented with the following) Must use once preceding any of the following: 1-10.3(3)B(9-35.4).OPT1.2024_2025.GR1 (GPS and Remote Communication Requirements) (October 3, 2022) Use on all interstate-Freeway projects where the traffic control plans show sequential arrow signs being used. 1-10.3(3)K.GR1 Portable Temporary Traffic Control Signal 1-10.3(3)K.GR1 Portable Temporary Traffic Control Signal 4 1-10.3(3)K.INST1.GR1 (Section 1-10.3(3)K is revised to read) Must use once preceding any of the following: 1-10.3(3)K.OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic centrol signals. Must use with 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Centrol Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic centrol signals. Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Centrol Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic centrol signals. Must use with 1-10.3(3)K.OPT1.2024.GR1.	14 15 16 17 18 19			10.4(3).OPT1.FR1. Must use with 1-10.3(3).OPT2.GR1, 1-
1-10.3(3)B(9-35.4).GR1 (Section 9-35.4 is supplemented with the following) Must use once preceding any of the following: 1-10.3(3)B(9-35.4).OPT1.20242025.GR1 (GPS and Remote Communication Requirements) (October 3, 2022) Lise on all interstate Freeway projects where the traffic control plans show sequential arrow signs being used. 1-10.3(3)K.GR1 Portable Temporary Traffic Control Signal 1-10.3(3)K.INST1.GR1 (Section 1-10.3(3)K is revised to read) Must use once preceding any of the following: 1-10.3(3)K.OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use with 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use with 1-10.3(3)K.OPT1.2024.GR1.	21	1-10.3(3)B	.GR1 Sec	quential Arrow Signs (Arrow Boards)
26	23 24	1-10.3	(3)B(9-35.4).GR1	
1-10.3(3)K.GR1 Portable Temporary Traffic Control Signal 1-10.3(3)K.INST1.GR1 (Section 1-10.3(3)K is revised to read) Must use once preceding any of the following: 1-10.3(3)K.OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use with 1-10.3(3)K(9-35.14).OPT1.2024.GR1. 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use with 1-10.3(3)K.OPT1.2024.GR1.	26 27 28 29 30	1-1	0.3(3)B(9-35.4).O	Communication Requirements) (October 3, 2022) Use on all interstate Freeway projects where the traffic control plans show sequential arrow signs
35 36 37 38 37 38 39 4-10.3(3)K.OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) 40 40 41 42 43 44 45 44 45 4-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) 46 47 48 49 40 40 40 40 40 41 41 45 45 46 47 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	33	1-10.3(3)K	GR1 Poi	rtable Temporary Traffic Control Signal
38 39 40 40 40 41 42 43 44 45 45 46 47 48 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	35 36	1-10.3	(3)K.INST1.GR1	
traffic control signals. Must use with 1-10.3(3)K(9-35.14).OPT1.2024.GR1. 1-10.3(3)K(9-35.14).GR1 (Section 9-35.14 is revised to read) Must use once preceding any of the following: 1-10.3(3)K(9-35.14).OPT1.2024.GR1 (Portable Temporary Traffic Control Signal) (November 2, 2022) Use on all projects requiring portable temporary traffic control signals. Must use with 1-10.3(3)K.OPT1.2024.GR1.	38 39	1-1	0.3(3)K.OPT1.202	(November 2, 2022)
45 46 47 48 48 49 50 50 51 52 53 64 65 66 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	41 42			traffic control signals. Must use with 1-10.3(3)K(9-
48 49 Control Signal) 50 (November 2, 2022) 51 Use on all projects requiring portable temporary traffic control signals. 53 Must use with 1-10.3(3)K.OPT1.2024.GR1.	45 46	1-10.3	(3)K(9-35.14).GR	
53 Must use with 1-10.3(3)K.OPT1.2024.GR1.	48 49 50 51	1-1	0.3(3)K(9-35.14).	Control Signal) (November 2, 2022) Use on all projects requiring portable temporary
· · · · · · · · · · · · · · · · · · ·		1-10.4.GR1	Measurem	Must use with 1-10.3(3)K.OPT1.2024.GR1.

1 2 3		f these GSPs must be included in every project with traffic I: 1-10.4(2).OPT1.GR1 or 1-10.4(3).OPT1.FR1.
4 5	1-10.4(2).GR1 Ite	em Bids With Lump Sum for Incidentals
4 5 6 7 8 9	1-10.4(2).INST1.GR1	(Section 1-10.4(2) is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14	1-10.4(2).OPT1.GR ²	(Standard Items) (August 2, 2004) Use on projects that will be utilizing the Traffic Control Bid items referenced in the provisions. While there may be lump sum Bid items within that list, this is not a total-project lump sum bid.
16		Must use with 1-10.5(2).OPT7.GR1.
17 18 19 20 21		Do not use with 1-10.4(3).OPT1.FR1. If the bid item "Project Temporary Traffic Control," lump sum is included in the project use 1-10.4(3).OPT1. FR1 instead.
22 23 24 25 26 27 28	1-10.4(2).OPT2.GR ²	(Automated Flagger Assistance Devices) (January 10, 2022) Use on projects that will be utilizing AFAD <u>paid by the hour.</u> —A separate flagger must operate each AFAD in accordance with the MUTCD, so the bid item Flagger must also be used.
29 30 31		Do not use if the AFAD is part of the lump sum cost for "Project Temporary Traffic Control,"
32 33 34		Must use with 1-10.1(1).OPT1.GR1, 1-10.3(3).OPT1.GR1, and 1-10.5(2).OPT1.GR1.
35 36 37 38 39	1-10.4(2).OPT3.GR ²	(Radar Speed Display Signs) (January 2, 2018) Use on projects that will be utilizing Radar Speed Display Signs which will be paid by the hour. The Region Traffic Engineer will need to approve the speed limit reduction.
40 41 42 43 44 45		Do not use if the radar speed display sign is part of the lump sum cost for "Project Temporary Traffic Control." Must use with 1-10.3(3).OPT2.GR1, 1-10.3(3)(9-35).OPT1.GR1, and 1-10.5(2).OPT2.GR1.
46 47 48 49 50 51 52	1-10.4(2).OPT5.GR ²	(Smart Work Zone System) (September 7, 2021) Use on projects when a Smart Work Zone System will be utilized which will be paid by the hourand Project Temporary Traffic Control is not lump sum.
53 54 55		Do not use if the smart work zone system is part of the lump sum cost for "Project Temporary Traffic Control,"

1 2 3		Use with 1-10.3(3).OPT3.FR1 and 1-10.5(2).OPT3.GR1.
2 3 4 5 6 7 8 9	1-10.4(2).OPT6.GR	(Contractor Provided Uniformed Police Officer) (May 20, 2020) Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control- related duties
10 11		Use with 1-10.3.OPT1.GR1 and 1-10.5(2).OPT5.GR1 .
11 12 13 14 15 16 17 18 19 20 21	1-10.4(2).OPT7.GR ⁻	(Queue Warning System) (September 7, 2021) Use on projects when a Queue Warning System will be utilized and will be paid by the hour. Project Temporary Traffic Control is not lump sum. Do not use if the queue warning system is part of the lump sum cost for "Project Temporary Traffic Control," Use with 1-10.3(3).OPT4.FR1 & 1-10.5(2).OPT4.GR1.
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	1-10.4(2).OPT8.GR	(Temporary Portable Transverse Rumble Strips) (October 3, 2022) Use on projects with temporary portable transverse rumble strips that are paid per each that have flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance. Do not use if the temporary portable transverse rumble strips are part of the lump sum cost for "Project Temporary Traffic Control," If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), u Use with 1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.GR1 and 1-10.5(2).OPT6.GR1.
37 38	1-10.4(3).GR1 R	einstating Unit Items With Lump Sum Traffic Control
39 40 41	1-10.4(3).INST1.GR1	(Section 1-10.4(3) is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47 48 49 50 51 52 53 54 55	1-10.4(3).OPT1.FR1	(Project Lump Sum) (November 2, 2022) Use on projects that will be total project lump sum with the required force account Work Zone Contingency item. Project may also include some other traffic control Bid items to be utilized on the project. Use of this provision requires the approval of the Region Construction Manager or designee. This method of payment might be applied to a job that would be total project lump sum except that some part of the work is not readily predictable. The need for Flaggers might be unclear or there could be an indeterminate future need for public information utilizing Portable

1 2 3 4 5 6 7			Changeable Message Signs. Smart work zone and queue warning systems may not be included in the lump sum item, and must be listed in the fill-in for unit items. Must also include 1-10.2.OPT1.GR1 and 1-10.5(2).OPT7.GR1.
8 9 10 11 12 13			The fill-in for this provision is a list of the traffic control Bid items that are included according to Sections 1-10.4(3) and 1-10.5(3) . Do not use with 1-10.4(2).OPT1.GR1 . If the only additional bid item is the required force account item "Work Zone Contingency", the fill-in will be blank. (1 fill-in)
14 15 16	1-10.5.GR1	Payment	
17 18	1-10.5(2).GR1	Item	Bids with Lump Sum for Incidentals
19 20	1-10.5(2).INST1		ection 1-10.5(2) is supplemented with the following) ust use once preceding any of the following:
21 22 23 24 25 26 27 28	1-10.5(2).OF	PT1.GR1	(Automated Flagger Assistance Devices) (January 10, 2022(November 20, 2023) Use on projects that will be utilizing AFAD paid by the hour .A separate flagger must operate each AFAD in accordance with the MUTCD, so the bid item Flagger must also be used.
29 30 31 32 33 34			Do not use if the AFAD is part of the lump sum cost for "Project Temporary Traffic Control," Use in projects utilizing AFAD. Must use with 1-10.1(1).OPT1.GR1, 1-10.3(3).OPT1.GR1, and 1-10.4(2).OPT2.GR1.
35 36 37 38 39 40	1-10.5(2).OF	PT2.GR1	(Radar Speed Display Signs) (January 2, 2018) Use on projects that will be utilizing Radar Speed Display Signs which will be paid by the hour. The Region Traffic Engineer will need to approve the speed limit reduction.
41 42 43 44 45 46 47 48			Do not use if the radar speed display sign is part of the lump sum cost for "Project Temporary Traffic Control," Use in projects utilizing Radar Speed Display Signs. The Region Traffic Engineer will need to approve the speed limit reduction. Must use with 1-10.3(3).OPT2.GR1, 1-10.3(3)(9-35).OPT1.GR1, and 1-10.4(2).OPT3.GR1.
49 50 51 52	1-10.5(2).OF	PT3.GR1	(Smart Work Zone System) (September 7, 2021) Use in projects when a Smart Work Zone System will be utilized which will be paid by the hour.
53 54 55			Do not use if the Smart Work Zone System is part of the lump sum cost for "Project Temporary Traffic Control"

1 2 3		When using Project Temporary Traffic Control with reinstated items, use with 1-10.3(3).OPT3.FR1.
4 5 6 7		When using Bid items with lump sum for incidentals (no lump sum traffic control), Uuse with 1-10.3(3).OPT3.FR1 and 1-10.4(2).OPT5.GR1.
7 8 9 10 11	1-10.5(2).OPT4.GR1	(Queue Warning System) (September 7, 2021) Use on projects when a Queue Warning System will be utilized and will be paid by the hour.
12 13 14 15		Do not use if the queue warning system is part of the lump sum cost for "Project Temporary Traffic Control,"
13 16 17 18		Use on projects when a Queue Warning System will be utilized.
19 20 21		When using Project Temporary Traffic Control with reinstated items, use with 1-10.3(3).OPT4.FR1.
21 22 23 24 25		When using Bid items with lump sum for incidentals (no lump sum traffic control), use Use with 1-10.3(3).OPT4.FR1 and 1-10.4(2).OPT7.GR1.
26 27 28 29 30	1-10.5(2).OPT5.GR1	(Contractor Provided Uniformed Police Officer) (May 20, 2020) Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control- related duties.
31 32 33		Use with 1-10.3.OPT1.GR1 and 1-10.4(2).OPT6.GR1 .
34 35 36 37	1-10.5(2).OPT6.GR1	(Temporary Portable Rumble Strips) (October 3, 2022) Use when temporary portable rumble strips will be paid per each.
38 39 40 41 42		Do not use if the temporary portable transverse rumble strips are part of the lump sum cost for "Project Temporary Traffic Control,"
43 44 45		a project has flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.
45 46 47 48 49		When using Project Temporary Traffic Control with reinstated items, uUse with 1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.FR1 and 1-10.4(2).OPT8.GR1.
50 51 52 53	1-10.5(2).OPT7.GR1	(Work Zone Safety Contingency) (November 2, 2022) Use on projects with traffic control.
53 54 55		For Work Zone Safety Contingency Estimate amount, use the following:

Engineer's Estimate	Work Zone Safety Contingency
Under \$3 million	5% of total WZTC item cost (max \$25,000)
\$3 million to \$5 million	\$25,000
\$5 million to \$10 million	\$50,000
Over \$10 million	\$75,000

Must use with 1-10.2.OPT1.GR1.

1	INTRO.GR1	
2		INTRODUCTION
5 5 6		be constructed in accordance with the 20232024 Standard Specifications nd Municipal Construction.
7 8		SPECIAL PROVISIONS
9 10 11		pecial Provisions are included in this contract; General, Region, Bridges d Project Specific. Special Provisions types are differentiated as follows:
12 13 14 15	(date) (*****)	General Special Provision Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
16 17	(Regions ¹ date	
18 19 20 21	to many projects, ι	rovisions are similar to Standard Specifications in that they typically apply usually in more than one Region. Usually, the only difference from one is the inclusion of variable project data, inserted as a "fill-in".
22 23 24	Region Special Pr designations are as	rovisions are commonly applicable within the designated Region. Region s follows:
25 26 27 28 29 30 31 32 33	Regions ¹ ER NCR NWR OR SCR SWR	Eastern Region North Central Region Northwest Region Olympic Region South Central Region Southwest Region Washington State Ferries Division
34		

Project Special Provisions normally appear only in the contract for which they were developed.

35 36

November 20, 2023 Page 1

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1
      1-02.GR1
 2
      Bid Procedures and Conditions
 3
 4
      1-02.1.GR1
 5
      Prequalification of Bidders
 6
 7
      1-02.1.INST1.GR1
 8
      Section 1-02.1, including title, is deleted and replaced with the following:
 9
10
      1-02.1.OPT1.GR1
          (April 2, 2018)
11
          Vacant
12
13
      1-02.4.GR1
14
15
      Examination of Plans, Specifications and Site of Work
16
17
      1-02.4(1).GR1
18
          General
19
20
      1-02.4(1).INST1.GR1
21
          Section 1-02.4(1) is supplemented with the following:
22
      1-02.4(1).OPT1.FR1
23
24
              (September 3, 2019)
25
              The Reference Information for this project is available for review by the bidder at the
26
              following location:
27
28
                   *** $$1$$ ***
29
30
              The Reference Information includes the following:
31
                   *** $$2$$ ***
32
33
34
      1-02.6.GR1
35
      Preparation of Proposal
36
37
      1-02.6.INST1.GR11-02.6.INST4.GR1
38
      Item number 3 in the second paragraph of Section 1-02.6 is supplemented with the following:
39
40
      1-02.6.OPT1.FR11-02.6.OPT8.FR1
41
          (September 3, 2019)
42
          The successful Bidder will be the Bidder submitting the lowest responsive Bid that does
43
          not exceed the maximum funds available. The maximum funds available for this Contract
          is *** $$1$$ ***.
44
45
46
          Submitting a Proposal that exceeds the maximum funds available will result in the
47
          Proposal being declared irregular and shall cause the Bid to be rejected by the
48
          Contracting Agency. Submitted Proposals that exceed the maximum funds available will
          be opened publicly in accordance with Section 1-02.12 prior to being rejected.
49
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51
      1-02.6.OPT2.GR11-02.6.OPT3.GR1
52
      November 20, 2023 (August 2, 2004)
```

General Special Provisions Division 1-02

1 The <u>fourth and fifth and sixth</u> paragraphs of Section 1-02.6 are deleted.

1-02.6.INST3.GR1

Section 1-02.6 is supplemented with the following:

1-02.6.OPT3.NEW.GR1

(November 20, 2023)

The Bidder shall submit with the Bid the following:

- 1) Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-056)
- 2) DBE Written Confirmation Form (WSDOT Form 422-031) For each and every DBE firm listed on the Bidder's completed Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that DBE firm that the DBE is revisedin agreement with the DBE participation commitment that the Bidder has made in the Bidder's completed Disadvantaged Business Enterprise Utilization Certification.
- 4)3) Good Faith Effort Documentation Bidder must submit good faith effort documentation with the Disadvantaged Business Enterprise Utilization Certification ONLY In The Event the bidder's efforts to read:solicit sufficient DBE participation have been unsuccessful.
- 4) DBE Item Breakdown (WSDOT Form 272-054) The Bidder shall submit a DBE Item Breakdown form defining the scope of work to be performed by each DBE Iisted on the DBE Utilization Certification.

<u>Directions for delivery of the Disadvantaged Business Enterprise, Written Confirmation Documents, and Disadvantaged Business Enterprise Good Faith Effort documentation are included in Sections 1-02.9 and 1-02.10.</u>

1-02.6.OPT1OPT4.GR1

(March 14, 2022)

The Bidder shall submit a completed Small and Veteran-Owned Business Plan (SVB Plan, WSDOT Form 226-018) with the Bid, when required by the Special Provisions.

For each and every Small or Veteran-Owned Business firm listed on the Bidder's completed SVB Plan, the Bidder shall submit a completed SVBE Subcontractor Written Confirmation Form (WSDOT Form 226-017) that confirms the listed firm is in agreement with the SVBE participation commitment that the Bidder has made in the Bidder's completed SVB Plan. Bidder must submit good faith effort documentation only in the event the Bidder's efforts to solicit sufficient participation have been unsuccessful.

Directions for delivery of the SVB Plan, SVBE Subcontractor Written Confirmation, and good faith effort documentation are included in Section 1-02.9.

1-02.6.OPT5.NEW.FR11-02.6.OPT4.FR1

(September 7, 2021)
Alternative Bids

 The bidding proposal on this project permits the Bidder to submit a Bid on one or more alternatives for the construction *** \$\$1\$\$ ***.

1 2 3	Bid Proposal The bid proposal is composed of the following parts: Base Bid and Alternatives *** \$\$2\$\$ *** i.e. A1, A2, etc.
4 5 6 7	The <u>base bid</u> includes all items that do not change as to quantity, dimension, or type of construction, regardless of which alternative is Bid.
8 9 10	The <u>Alternative</u> portions of the bid proposal contain all items which change as to quantity, dimension, or construction method, depending on which alternative is Bid.
11 12	Alternative A1 Alternative A1 is based on constructing the *** \$\$3\$\$ ***.
13 14 15	The bid items for Alternative A1 are as listed in the bid proposal.
16 17 18	Alternative A2 Alternative A2 is based on constructing the *** \$\$4\$\$ ***.
19 20	The bid items for Alternative A2 are as listed in the bid proposal.
21 22 23 24 25 26 27 28 29 30 31	Bidding Procedures The Bidder shall submit a price on each and every item of Work included in the base bid. The Bidder shall also submit prices on each and every item under the alternative on which the Bidder chooses to bid, or, if the Bidder chooses to bid on more than one alternative, the Bidder shall submit prices for each and every item under each alternative chosen. If the Bidder chooses to bid on more than one alternative, the Bidder shall submit their sealed Bid in the envelope provided by the Contracting Agency using the Proposal Form provided. If the Bidder chooses to Bid on more than one alternative, the Bid cannot be accepted electronically via AASHTOWare Project Bids TM "BidExpress®."
32 33 34 35	The successful Bidder will be determined by the lowest total of an alternative plus the base bid. Award will be based on the lowest total subject to the requirements of Section 1-03.
36 37	1-02.6. OPT5<mark>OPT6</mark> .FR1 (August 3, 2015)
38	Cumulative Alternates Bidding
39	The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as part
40	of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of the
41	Alternate(s).
42	Did Dranged
43 44	Bid Proposal The Pid Proposal includes the following:
44 45	The Bid Proposal includes the following:
46	1. Base Bid
47	The Base Bid shall include constructing all items included in the Proposal
48	except those items contained in the Alternate(s).
49	·
50	2. Alternate(s)
51	

a. Alternate A1

52

1			Based on constructing (*** \$\$1\$\$ ***)	
2			The Bid items for Alternate A1 are as listed in the Bid Proposal.	
3			The Bla Reme for Alternate At alle de lieted in the Bla i Topodal.	
4		b.	Alternate A2	
5		ο.	Based on constructing (*** \$\$2\$\$ ***)	
6			The Bid items for Alternate A2 are as listed in the Bid Proposal.	
7			The Bla Reme for Alternate AZ are as noted in the Bla i reposal.	
8		C.	Alternate A3	
9		٥.	Based on constructing (*** \$\$3\$\$ ***)	
10			The Bid items for Alternate A3 are as listed in the Bid Proposal.	
11			The blu terms for Atternate Ao are as listed in the blu i Toposai.	
12	Ridding	ı Dro	coduros	
13	Bidding Procedures To be considered responsive the Bidder shall submit a price on each and every Bid			
14			I in the Base Bid and all Alternate(s.)	
15	ileili ilic	iuuec	Till the base blu and all Alternate(s.)	
16	The suc	20000	ful Bidder will be the Bidder submitting the lowest responsible Bid for	
17			order Preference that is within the amount of available funds for the	
18			lable funds will be announced immediately prior to the opening of Bids.	
19	THE IOII	JWIII	g are listed in order from highest to lowest Preference:	
20	4	Dro	forence 1: Lowest total for Bose Bid plus Alternate A1 plus Alternate A2	
21	1.		ference 1: Lowest total for Base Bid plus Alternate A1 plus Alternate A2	
22		pius	s Alternate A3, plus etcetera.	
23	0	Dra	forence O. I award total for Door Did plus Alternate A4 plus Alternate A9	
24	2.		ference 2: Lowest total for Base Bid plus Alternate A1 plus Alternate A2	
25		pius	s Alternate A3.	
26	2	Dra	forence 2. Louiset total for Doce Did nive Alternate A4 nive Alternate A2	
27	3.	Pie	ference 3: Lowest total for Base Bid plus Alternate A1 plus Alternate A2.	
28	4	Dra	forence A. Lawast total for Doop Did plus Alternate A4	
29	4.	Pre	ference 4: Lowest total for Base Bid plus Alternate A1.	
30	_	D	farance C. I award total for Dana Did	
31	5.	Pre	ference 5: Lowest total for Base Bid.	
32	Tl 0		in a American set the indicention countries of Contract for the December	
33			ting Agency may, at their discretion, award a Contract for the Base Bid,	
34			dditional Alternates, in the event that all Bids exceed the available funds	
35		ced.	n any case, the award will be subject to the requirements of Section 1-	
36	03.			
37	4 00 0 004			
38	1-02.9.GR1			
39	Delivery of Pro	pos	al	
40				
41	1-02.9.INST1.GF			
42	Section 1-02.9 is	supp	lemented with the following:	
43				
44	1-02.9.OPT1.GR			
45			2021 November 20, 2023)	
46			t Submittal Requirements	
47			al is submitted the following documents may be submitted as a	
48	supplement	to the	e Proposal:	
49				

1	1. General
2	The Bidder shall submit supplemental documents that are identified with the Bidder's
3	company name, Project title, Bid date, and description of all contents. (ie, DBE
4	Utilization Certification (WSDOT Form 272-056);
5 6	2, DBE Written Confirmation-Documents (WSDOT Form 422-031);
7 8 9	3.—, Good Faith Effort Documentation (GFE);
10 11	4, and DBE Bid Item Breakdown (WSDOT Form 272-054);)
12 13	5. DBE Trucking Credit Form (WSDOT Form 272-058).
14 15	The Bidder shall submit these supplemental documents as follows:
16 17	Submissions must be made by one of the following methods:
18	1. Physically in a sealed envelope marked as "BID SUPPLEMENT" and bearing
19	the Bidder's company name, project title, Bid date, and description of all
20	contents (i.e., DBE Utilization Certification, DBE Written Confirmation
21	Documents, DBE Bid Item Breakdown Form, DBE Trucking Credit Form,
22	and/"; or DBE GFE Documentation); or
23	_
24	2. By facsimile to the following FAX number: 360-705-6966; or
25	
26	3. By e-mail to the following e-mail address:
27	DBEDoc@wsdot.wa.govDBEDoc@wsdot.wa.gov; or
28	
29	4. Mailed to: Washington State Department of Transportation
30	Room 2D20
31	310 Maple Park Avenue SE
32	Olympia WA 98501-2361
33	
34	The only documents that can be accepted after the 11:00:59 am time for delivery of
35	Proposal are the Written Confirmation Documentation, the DBE Bid Item Breakdown
36	Form, and a GFE (if applicable). Incomplete or inaccurate documents will be rejected,
37	except as detailed above for the DBE Bid Item Breakdown Form.
38	
39	The Contracting Agency is not responsible for delayed, partial, failed, illegible or
40	partially legible FAX or e-mail document transmissions, and such documents may be
41	rejected as incomplete at the Bidder's risk.
42	
43	DBE Utilization Certification (WSDOT Form 272-056)
44	The DBE Utilization Certification shall be received at the same location and no later
45	than the time required for delivery of the Proposal. The Contracting Agency will not
46	open or consider any Proposal when the DBE Utilization Certification is received after
47	the time specified for receipt of Proposals or received in a location other than that
48	specified for receipt of Proposals. The DBE Utilization Certification may be submitted
49 50	in the same envelope as the Bid deposit.
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NOTE: If the Bid is submitted electronically via AASHTOWare Project Bids™ software, "BidExpress," the DBE Utilization Certification may be attached to the electronic bid or submitted as a supplemental document as defined above.

DBE Written Confirmation (WSDOT form 422-031) and/or GFE Documentation, (if applicable)

The DBE Written Confirmation Documents and/or GFE Documents are not required to be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or GFE (if anyapplicable) shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents Written confirmation and/or GFE shall be received no later than 48 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. To be considered responsive, Bidders shall submit Written Confirmation Documentation from each DBE firm listed on the Bidder's completed DBE Utilization Certification and/or the GFE as required by Section 1-02.6.

DBE Bid Item Breakdown and DBE Trucking Credit(WSDOT Form 272-

The DBE Bid Item Breakdown and the DBE Trucking Credit Forms (if applicable), shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents shall be received no later than 48 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. To be considered responsive, Bidders The successful Bidder shall submit a completed DBE Bid Item Breakdown and a DBE Trucking Credit Form for each DBE Trucking firm listed on the DBE Utilization Certification, however, minor errors and corrections to DBE Bid Item Breakdown er DBE Trucking Credit Forms will be returned for correction for a period up to five calendar days (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. A DBE Bid Item Breakdown or DBE Trucking Credit Forms that are still incorrect after the correction period will be determined to be nonresponsive.

Although the The DBE Bid Item Breakdown and DBE Trucking Credit Form are required as part of a responsive Bid Proposal, the information contained in these documents is used solely for Award purposes and will not be included as part of the executed Contract.

NOTE: If the Bid is submitted electronically via AASHTOWare Project Bids™ software, "BidExpress," the DBE Utilization Certification may be attached to the electronic bid or submitted as a supplemental document as defined above.

The only documents that can be accepted after the 11:00:59 am time for delivery of Proposal are the Written Confirmation Documentation, the DBE Bid Item Breakdown Form, the DBE Trucking Credit Form, and/or GFE. Incomplete or inaccurate documents will be rejected, except as detailed above for the DBE Bid Item Breakdown Form and DBE Trucking Credit Form. The Contracting Agency is not responsible for delayed, partial, failed, illegible or partially legible FAX or e-mail document transmissions, and such documents may be rejected as incomplete at the Bidder's risk.

(March 14, 2022November 20, 2023)

SVBE Document Submittal Requirements

1-02.9.OPT2.GR1

The Bidder shall submit supplemental documents that are identified with the Bidder's company name, Project title, Bid date, and description of all contents (i.e., Small and

General Special Provisions Division 1-02

Section 1-02.12 is supplemented with the following:

1-02.12.INST1.GR1

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1 1-02.12.OPT1.FR1 2 (August 3, 2015) 3 4 5 6 7 1-02.12.OPT2.FR1 8 9 10 11 12 13 14 15 16 1-02.13.GR1 17 19 1-02.13.INST1.GR1 20 22 23 24 25 26 27

Date of Opening Bids

The bid opening date for this project is *** \$\$1\$\$ ***. Bids received will be publicly opened and read after 11:00:59 A. M. Pacific Time on this date.

(October 3, 2022)

Date of Opening Bids

Proposals will be received by in-person delivery or by courier at the *** \$\$1\$\$ *** reception desk located at the *** \$\$2\$\$ *** on the Bid opening day.

The Bid opening date for this project is *** \$\$3\$\$ ***. Bids received will be publicly opened and read after 11:00:59 A.M. on this date.

Irregular Proposals

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Item number 1 of Section 1-02.13 is supplemented with the following:

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1-02.13.OPT1.2024.GR1

(February 6, 2023)

- The Bidder fails to submit an SVB Plan (WSDOT Form #226-018) if applicable, as required in Section 1-02.6;
- m. The Bidder fails to submit Written Confirmations (WSDOT Form #226-017) from each SVBE firm listed on the Bidder's completed SVB Plan that they are in agreement with the Bidder's SVBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
- n. The Bidder fails to submit SVBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made.

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1-02.INST1.GR1

Section 1-02 is supplemented with the following:

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1-02.OPT1.GR1

(September 7, 2021)

Protest Procedures

Form and Substance

All protests regarding any contents or portion of the bid proposal must be submitted to the Contracting Agency as soon as possible after the protestant becomes aware of the reason(s) for the protest. All protests must be in writing and signed by the protestant or an authorized agent. Such writing must state all facts and arguments on which the protestant is relying as the basis for its action. Such protestant shall also attach, or supply on demand by the Contracting Agency, any relevant exhibits referenced in the writing. Copies of all protests and exhibits shall be submitted by the protestant to the Bidder against whom the protest is made (if any) at the same time such protest and exhibits are submitted to the Contracting Agency. All protests shall be emailed to CAA@wsdot.wa.gov.

Pre-award Protests

To allow sufficient response time, all pre-award protests must be received by the Contracting Agency no later than 5:00 p.m. of the second business day after the bid opening date. If the protest is mailed after the bid opening date and before the pre-award protest deadline, the protestant shall immediately notify WSDOT's Manager, Contract Ad & Award by telephone, or some other means of rapid communication, that a protest has been made.

The Contracting Agency shall consider all the facts available to the protest, and issue a decision in writing within five (5) business days after receipt of the protest, unless, in the Contracting Agency's sole discretion, more time is needed. The protestant and the Bidder(s) against whom the protest is made will be notified if additional time is necessary; and if the additional time required affects the bid opening date or the award date, all bidders shall be notified.

The Contracting Agency's decision shall be final and conclusive. Selection of the successful Bidder, if one is to be made, will be postponed until after the Contracting Agency has issued its decision. The Contracting Agency shall provide the protestant with written notice of this decision no later than two full working days prior to execution of the contract.

Post-award Protests

The Contracting Agency shall immediately notify all unsuccessful Bidders of the Contracting Agency's award decision. Any decision made by the Contracting Agency regarding the award and execution of the contract or bid rejection shall be conclusive subject to the scope of the judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of Thurston County, Washington.

Protests which do not comply with the above-specified procedures will not be considered.

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1 2	1-03.GR1 Award and Execution of Contract			
3 4 5 6	1-03.2.GR1 Award of Contract			
7 8 9	1-03.2.INST1.GR1 The first sentence of Section 1-03.2 is revised to read:			
10 11 12 13 14	1-03.2.OPT1.GR1 (April 7, 2008) It is the Contracting Agency's intent to award the Contract within 24 hours of the lopening.			
15	1-03.3.GR1			
16	Execution Of Contract			
17 18 19	1-03.3.INST1.GR1 Section 1-03.3 is supplemented with the following:			
20 21	1-03.3.OPT1.GR1			
22	(October 3, 2022)			
23	Escrow Bid Documentation			
24	Scope and Purpose			
25 26 27	The purpose of this specification is to preserve the Contractor's bid documentation for use by the Contracting Agency in any litigation between the Contracting Agency and Contractor arising out of this Contract.			
28				
29	The Contractor shall submit a legible copy of all documentation used to prepare the			
30	Bid for this Contract to a escrow institution designated by the Contracting Agency.			
31 32 33	Such documentation shall be placed in escrow with the escrow institution and preserved by that institution as specified in the following sections of this specification.			
34	Bid Documentation			
35	The term "bid documentation" as used in this specification means any writings,			
36	working papers, computer printouts, charts, and any other data compilations which			
37	contain or reflect all information, data, and calculations used by the Contractor to			
38 39	determine the Bid in bidding for this project. The Contractor shall submit its documentation in whatever format it was created and shall also provide electronic			

The term "bid documentation" as used in this specification means any writings, working papers, computer printouts, charts, and any other data compilations which contain or reflect all information, data, and calculations used by the Contractor to determine the Bid in bidding for this project. The Contractor shall submit its documentation in whatever format it was created and shall also provide electronic copies. The term "bid documentation" includes but is not limited to Contractor equipment rates, Contractor overhead rates, labor rates, efficiency or productivity factors, arithmetic extensions, and quotations from subcontractors and material providers to the extent that such rates and quotations were used by the Contractor in formulating and determining the amount of the bid. The term "bid documentation" also includes any manuals which are standard to the industry used by the Contractor in determining the bid for this project. Such manuals (including year of publication) may be included in the Bid Documentation by reference. The term does not include bid documents provided by the Contracting Agency for use by the Contractor in bidding on this project.

Submittal of Bid Documentation

The Contractor shall submit the bid documentation to the escrow institution. The bid documentation shall be submitted to the escrow institution within seven calendar days after the Contract for this project has been executed by the Contracting Agency. The bid documentation shall be submitted in a sealed container. The container shall be clearly marked "Bid Documentation" and shall also show on the face of the container the Contractor's name, the date of submittal, the project title, and the contract number.

Affidavit

The sealed container shall contain, in addition to the bid documentation, an affidavit signed under oath by an individual authorized by the Contractor to execute bidding proposals. The affidavit shall list each bid document with sufficient specificity so a comparison can be made between the list and the bid documentation to ensure that all of the bid documentation listed in the affidavit has been enclosed in the sealed container. The affidavit shall show that the affiant has personally examined the bid documentation and that the affidavit lists all of the documents used by the Contractor to determine the Bid for this project and that all such bid documentation has been enclosed in the sealed container.

Verification

The escrow institution upon receipt of the sealed container shall place the container in a safety deposit box, vault, or other secure place, and immediately notify the Contracting Agency in writing that the container has been received. Upon receipt of such notice, the Contracting Agency will promptly notify the Contractor in writing that the Contracting Agency will open the sealed container to verify that the affidavit has been enclosed and to compare the bid documents listed in the affidavit with the bid documents enclosed in the container to ensure that all of the bid documentation has been submitted and that the copies are legible. The notification will advise the Contractor of the date and time the container will be opened and the name of the Contracting Agency employee who will verify the contents of the container. The Contracting Agency employee verifying the contents of the escrow container will not be involved or connected with the review, evaluation, or resolution of any claim by the Contractor made to the Contracting Agency in connection with the contract for which the verification was made. The Contractor may have representatives present at the opening.

Supplementation

Documents listed in the affidavit but not enclosed in the sealed container through error or oversight shall be submitted in a sealed container within five calendar days after the opening of the original container. Also, any bid documentation that is illegible shall be replaced with legible copies and furnished within five calendar days after the opening of the original container. The face of the container shall show the same information as the original container except the container shall be marked "Supplemental Bid Documentation". The same procedure used in verifying the contents of the original container shall be used in verifying the contents of the supplemental submittal.

Duration and Use

The bid documentation and affidavit shall remain in escrow during the life of the Contract and will be returned to the Contractor by the escrow institution, provided that the Contractor has signed the final contract voucher certification and has not

reserved any claims on the final contract voucher certification against the Contracting Agency arising out of the Contract. In the event that claims against the Contracting Agency are reserved on the final contract voucher certification, the bid documentation and affidavit shall remain in escrow. If the claims are not resolved and litigation ensues, the Contracting Agency may serve a request upon the Contractor to authorize the escrow institution, in writing, to release the bid documentation and affidavit in escrow to the Contracting Agency. The Contractor shall respond to the request within 20 days after service of the request. If the Contractor objects or does not respond to the request within 20 days after service of the request, the Contracting Agency may file a motion under the Civil Rules requesting the court to enter an order directing the escrow institution to deliver the bid documentation and affidavit in escrow to the Contracting Agency. The Contractor shall respond to the request within the time required by the then applicable Civil Court Rules for the Superior Court of the State of Washington. If the Contractor objects or does not respond to the request within the time required by the then applicable Civil Rules, the Contracting Agency may file a motion pursuant to such rules requesting the court to enter an order directing the escrow institution to deliver the bid documentation and affidavit in escrow to the Contracting Agency. The escrow institution shall release the bid documentation and affidavit as follows:

- 1. To the Contracting Agency upon receipt of a letter from the Contractor authorizing the release;
- 2. To the Contracting Agency upon receipt of a certified copy of a court order directing the release of the documents;
- 3. To the court for an <u>in camera</u> examination pursuant to a certified copy of a court order;
- 4. The bid documentation and affidavit shall be returned to the Contractor if litigation is not commenced within the time period prescribed by law.

The Contractor agrees that the sealed container placed in escrow and any supplemental sealed container placed in escrow contain all of the bid documentation used to determine the Bid and that no other bid documentation shall be utilized by the Contractor in litigation over Certified Claims brought by the Contractor arising out of this Contract unless otherwise ordered by the court.

Remedies for Refusal or Failure to Provide Bid Documentation

Failure or refusal to provide bid documentation shall be deemed a material breach of this Contract. The Contracting Agency may at its option refuse to make payment for progress estimates under Section 1-09.9 until the Contractor has submitted the bid documentation required by this specification. The Contracting Agency may at its option terminate the contract for default under Section 1-08.10. These remedies are not exclusive and the Contracting Agency may take such other action as is available to it under the law.

Confidentiality of Bid Documentation

The bid documentation and affidavit in escrow are and will remain the property of the Contractor. The Contracting Agency has no interest in or right to the bid documentation and affidavit other than to verify the contents and legibility of the bid documentation unless litigation ensues between the Contracting Agency and

Contractor over Certified Claims brought by the Contractor arising out of this Contract. In the event of such litigation, the bid documentation and affidavit may become the property of the Contracting Agency for use in the litigation as may be appropriate subject to the provisions of any court order limiting or restricting the use or dissemination of the bid documentation and affidavit as provided in the preceding section entitled Duration and Use.

Cost and Escrow Instructions

The cost of the escrow will be borne by the Contracting Agency. The Contracting Agency will provide escrow instructions to the escrow institution consistent with this specification.

1-03.3.OPT2.GR1

(November 20, 2023)

Within 5 calendar days of the Award date (not including Saturdays, Sundays and Holidays), the successful Bidder shall provide DBE Trucking Credit Form(s) (WSDOT Form 272-058) when trucking appears on the DBE Utilization Certificate (WSDOT Form 272-056). The DBE Trucking Credit Form shall document how the DBE Trucking firm will be able to perform the scope of work subcontracted to them.

Trucking forms will be returned for correction. Trucking Credit Form(s) will not be included as part of the executed Contract.

DBE Trucking Credit Forms shall be submitted by:

<u>1)</u>	E-mailed to:	DBEDoc@wsdot.wa.gov or
2)	Mailed to:	Washington State Department of Transportation
		Room 2D20
		310 Maple Park Avenue SE
		Olympia WA 98501-2361

1-03.3.INST2.GR1

The first paragraph of Section 1-03.3 is supplemented with the following:

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1-03.3.OPT3.GR1

(January 4, 2016)

Within 20 calendar days after the Award date, the successful Bidder shall return WSDOT Form 421-013 with the Contractor's costs for transit, bicycle and pedestrian Work.

1 1-04.GR1 2 Scope of the Work 3 4 1-04.2.GR1 5 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda 6 7 1-04.2.INST1.GR1

1-04.2.OPT1.GR1

(March 9November 20, 2023)

Section 1-04.2 is supplemented with the following:

Document Control

This specification applies to project documentation and correspondence that occurs after execution of the Contract. The Contractor shall submit all project documentation and correspondence for this Contract in electronic format utilizing the WSDOT Unifier system. Documents that are received by means other than the WSDOT Unifier system will be rejected, except as allowed by this special provision or specifically approved by the Engineer.

The Engineer may reject documents that are deemed unsuitable. This includes documents that are illegible, unreadable, locked, etc. Forms that require further information from WSDOT must be unlocked.

The Contractor shall submit to the Contracting Agency a Unifier Access Request Form WSDOT (WSDOT Form 134-092) to e-Construction Support ConstructionSupport@wsdot.wa.gov) designating all individuals requiring access to WSDOT Unifier no later than 5 days following Contract Award. Training for WSDOT Unifier will be provided by WSDOT at no cost to the Contractor. Throughout the life of the Project, all changes to the Contractor's personnel who require access to the WSDOT <u>Unifier system shall be submitted on a Unifier Access Request Form.</u>

All signed documents shall be in PDF format and will require an electronic signature. An electronic signature is defined as a symbol, or process attached to or logically associated with a record and executed or adopted by a person with the intent to sign the record. All signed documents shall be in PDF format.

WSDOT has provided an application to be used to apply electronic signatures to the following documents:

Change Orders that are not Minor Change Orders 421-009 Release – Retained Percentage (Except Landscaping) 134-146 Final Contract Voucher Certificate

When the Contract specifies that documentation is to be submitted through other webbased systems, such as the Diversity Management and Compliance System, or email addresses, the Contractor shall utilize those systems and email addresses accordingly.

Before a Completion Date will be established by the Contracting Agency, all contractor active tasks in Unifier shall be closed out or acknowledged.

General Special Provisions Division 1-04

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All costs for submitting project documentation electronically shall be included in the Contract prices for the Bid items of Work involved.

1-04.5.GR1

Procedure and Protest by the Contractor

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1-04.5.INST1.GR1

Section 1-04.5 is supplemented with the following:

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1-04.5.OPT1.GR1

(January 13, 2021) Project Partnering

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The Engineer and the Contractor's Project Manager (PM) will plan and host a Project Partnering workshop as soon as practical after Contract execution. The objective of this Partnering workshop is to promote open lines of communication and teamwork between the Contracting Agency and Contractor staff for the effective completion of the work, and to the standard of quality that will be a source of pride to both the Contracting Agency and the Contractor. Commitments made by both parties shall be memorialized in a Project Partnering Agreement at the conclusion of the Partnering workshop. The Partnering agreement will not affect the terms of the Contract. It is intended only to establish an environment of cooperation and mutual understanding between the parties.

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The planning and execution of the Partnering process is intended to be a collaborative effort between the Engineer and the PM. The length of the partnering workshop should be commensurate with the size and complexity of the project, and familiarity of the parties. For simple projects an expanded pre-construction meeting may suffice. The partnering workshop may be facilitated by the Engineer, the Engineer and PM, or a mutually agreeable Partnering Facilitator (PF). Selection of a PF, dates and location of the workshops, materials needed for the workshop, frequency and location for follow up meetings, and estimated cost associated with this effort should be discussed and agreed to prior to moving forward with the Partnering process.

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An initial 1 day (or half day) facilitated Project Partnering workshop is recommended to initiate the partnering agreement. After the initial Partnering workshop, quarterly follow up meetings on projects with over 120 working days shall be scheduled to evaluate how the Partnering process is working, acknowledge successes and opportunities for improvement.

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The cost to retain the services of a Partnering Facilitator (if mutually selected as the PF), locate and rent a neutral location to hold the workshop (if held offsite), and any additional materials needed to host the workshop, will be paid by the Contractor. The Partnering Field Guide is available as a resource to the Engineer and PM to assist in the planning of the Partnering session(s) at the following link:

43 44 45

https://wsdot.wa.gov/publications/fulltext/construction/WSDOTProjects-Partnering-FieldGuide.pdf

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The Contracting Agency will reimburse invoice cost for the Contractor provided Partnering Facilitator, facilities and materials at a rate of 50% under the Bid item, "Project Partnering".

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"Project Partnering", by calculation.

General Special Provisions Division 1-04

Page 2 November 20, 2023

1 "Project Partnering" will be calculated and paid for as described above.

General Special Provisions Division 1-04

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1 1-07.GR1 2 Legal Relations and Responsibilities to the Public 3 4 1-07.1.GR1 5 Laws to be Observed 6 7 1-07.1.INST1.GR1 8 Section 1-07.1 is supplemented with the following: 9 10 1-07.1.OPT1.GR1 11

(October 3, 2022)

Ferry Tolls and Service

No gratuity of tolls or special service will be granted to the Contractor. Contractor use of ferry service shall be in accordance with the published rates, tolls, and schedules for the general public.

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1-07.1.OPT2.GR1

(October 3, 2022)

Ferry Terminal Access and Security

The Contractor shall comply with the following access and security requirements when performing the Work.

Contractor Employee Identification Lists

The Contractor shall submit to the Engineer a list of all personnel who will be working on WSF property or within 300 feet of the WSF marine structures. This list shall contain the Contract number, WSF property, contract description, date site work begins, company name, main office phone number, contact person(s), contact phone number(s), on site personnel employees' names and photo ID numbers.

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Contractor Employee I.D. Cards

Contractor employees shall present photo identification to WSF Terminal personnel every time they seek entry onto WSF property for the purpose of performing work or providing services. The same Contractor employee shall be listed on the Contractor Employee Identification List as submitted. The photo ID shall:

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Contain the full name of the individual.

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Contain a photograph clearly depicting the person's current facial features. (Driver's license is not acceptable.)

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Contain the name of the issuing Contractor organization.

43 44 Shall be laminated or constructed of material so as to be tamper resistant.

45 46 Shall bear a photo ID number issued by the issuing Contractor's organization.

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Employees shall wear their photo ID in a visible location at all times while on WSF properties or working area.

General Special Provisions Division 1-07

Contractor Parking Pass

If parking is allowed in the Contract, the Contractor will be issued a disposable parking pass that allows the vehicle to be parked at a designated location at the terminal on the day of issue and for the period during which services are provided. A pass shall be obtained each day the Contractor's vehicle enters the facility. Any vehicle not displaying a parking pass is subject to being towed at the owner's risk and expense. All vehicles entering WSF facilities are subject to security screening and inspection by Washington State Patrol (WSP) personnel.

Restricted Areas and Employee Areas

All areas on WSF terminals and vessels that are not considered public access areas will be designated with conspicuous signs as "Restricted Areas" or "Employee Only **Areas**". Areas will be locked, barricaded, or otherwise physically delineated as needed. Contractor employees who need to enter restricted or employee areas shall obtain permission/direction from WSF personnel. "Restricted Areas" require that one person for every five people be in possession of Transportation Workers Identification Card (TWIC) issued by the Transportation Security Administration as required under the Maritime Transportation Security Act. If the Contractor's work will involve extended amounts of time in these areas, they will be required to have personnel with TWIC identification. An unauthorized person in a restricted area constitutes a reportable "Breach of Security" that will be reported by the Contracting Agency to the U.S. Coast Guard National Response Center in Washington, D.C.

Note: "Restricted Areas" are Terminal Supervisor's office, security communication rooms, vehicle slips and overhead loading when security gate is closed and vessel is tied up.

Access to the vessel when the traffic arm is down is allowed only with permission from WSF personnel.

Material Delivery

Material deliveries to WSF property shall be pre-arranged with the Engineer.

Equipment Identification

Contractor's derricks, skiffs, and trailers shall be clearly identified with the company's name or logo. At the end of the work shift, all equipment and construction materials shall be picked up and secured in a way that readily identifies the material as belonging to the Contractor.

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All costs associated with conforming to terminal ferry access security requirements shall be included in the unit Contract prices for the associated items of Work.

1-07.1.OPT3.FR1

(April 3, 2006) **Confined Space**

Confined spaces are known to exist at the following locations:

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*** $$1$$ ***
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The Contractor shall be fully responsible for the safety and health of all on-site workers and compliant with Washington Administrative Code (WAC 296-809).

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The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractors Confined Space program shall be sent to the Contracting Agency at least 30 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

All costs to prepare and implement the confined space program shall be included in the bid prices for the various items associated with the confined space work.

1-07.1.OPT4.FR1 (October 3, 2022)

Noise Exemption/Variance Conditions

The jurisdiction(s) listed below has granted a nighttime noise exemption and/or variance to its respective noise control code and WAC 173-60 to allow Contracting Agency representatives to perform nighttime Work under the conditions as listed below.

Jurisdiction **Nights Expiration Date** *** \$\$2\$\$*** *** \$\$1\$\$ *** *** \$\$3\$\$ ***

This exemption/variance allows the Contractor to exceed the local noise ordinance levels. All nighttime Work activities require approved noise exemptions or variances from the listed jurisdiction(s) including nighttime Work within the Contracting Agency's Right-of-Way.

The Contractor shall perform the following measures to minimize construction noise:

- All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.
- 2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.
- 3. A copy of the noise exemption and/or variance shall be kept on the project site at all times.
- The Contractor shall mail Nighttime Work Mail Notifications to residents located within *** \$\$4\$\$ *** feet of Contracting Agency Right-of-Way within the nighttime Work zone.

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The Contracting Agency will provide the Nighttime Work Mail Notification, and the Contractor shall submit the following information to the Contracting Agency 20 working days prior to the start of nighttime Work:

- Start date and duration of the nighttime Work.
- List of the expected nighttime noise sources.

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List of noise mitigation measures to be implemented.

The Contractor shall obtain the mailing distribution list of residents and property owners. The Contractor shall hire a Mailing Service to print and distribute by mail the Contracting Agency's provided Nighttime Work Mail Notification to the required residences *** \$\$6\$\$ *** working days prior to the start of the night Work.

The Contractor shall not proceed with nighttime Work unless all conditions listed in this Contract are in place and the Affidavit of Service by Mailing is received by the Contracting Agency 24 hours prior to the start of nighttime Work.

The Affidavit of Service by Mailing is a notarized document from the Mailing Service stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained by the Contractor for the mailing shall be included with the Affidavit.

General

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

Payment

All costs to comply with the above noise exemption/variance requirements shall be included in the associated items of Work.

1-07.1.OPT5.FR1

(October 3, 2022)

Nighttime Construction Work Requirements

The Contractor shall perform nighttime Work within the Contracting Agency's Right-of-Way under the measures listed below to minimize construction noise:

- All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.
- Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.
- The Contractor shall mail Nighttime Work Mail Notifications to residents located within *** \$\$1\$\$ *** feet of Contracting Agency Right-of-Way within the nighttime Work zone.

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Jurisdiction

*** \$\$2\$\$ ***

The Contracting Agency will provide the Nighttime Work Mail Notification and the Contractor shall submit the following information to the Contracting Agency 20 working days prior to the start of nighttime Work:

- Start date and duration of the nighttime Work.
- List of the expected nighttime noise sources.
- List of noise mitigation measures to be implemented.

The Contractor shall obtain the mailing distribution list of residents and property owners. The Contractor shall hire a Mailing Service to print and distribute by mail the Contracting Agency's provided Nighttime Work Mail Notification to the required residences *** \$\$3\$\$ *** working days prior to the start of the night Work.

The Contractor shall not proceed with nighttime Work unless all conditions listed in this Contract are in place and the Affidavit of Service by Mailing is received by the Contracting Agency 24 hours prior to the start of nighttime Work.

The Affidavit of Service by Mailing is a notarized document from the Mailing Service stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained by the Contractor for the mailing shall be included with the Affidavit.

General

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

Payment

All costs to comply with the above nighttime Work requirements shall be included in the associated items of Work.

*** \$\$1\$\$ *** Noise Exemption/Variance Conditions

The jurisdiction(s) listed below has granted a nighttime noise exemption and/or variance to its respective noise control code and WAC 173-60 to allow Contracting Agency representatives to perform nighttime Work under the conditions as listed below.

Nights Expiration Date *** \$\$3\$\$*** *** \$\$4\$\$ ***

This exemption/variance allows the Contractor to exceed the local noise ordinance levels. All nighttime Work activities require approved noise exemptions or variances from the listed jurisdiction(s) including nighttime Work within the Contracting Agency's Right-of-Way.

The Contractor shall perform the following measures to minimize construction noise:

- 1. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.
- 2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.
- 3. A copy of the noise exemption and/or variance shall be kept on the project site at all times.

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General

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

Payment

All costs to comply with the above noise exemption/variance requirements shall be included in the associated items of Work.

1-07.1(2).GR1

Health and Safety

1-07.1(2).INST1.GR1

Section 1-07.1(2) is supplemented with the following:

1-07.1(2).OPT2.GR1

(October 3, 2022)

Diving and Workboat Safety Requirements

The Contractor shall comply with the requirements of WAC 296-37, "Standards for Commercial Diving Operations" and the requirements contained herein as applicable. The Contractor shall give the Engineer 24 hours advance notice of any planned diving or workboat activity.

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General Requirements for Communications and Safety

The following requirements shall be followed whenever diving or workboat activity is performed at the ferry terminal:

- Prior to diving and workboat activity, the Contractor shall obtain approval from the Engineer.
- Notification shall be made no less than one hour prior to the Diver entering the water.
- The Engineer or designee will be responsible for notifying each vessel of the upcoming day's diving or workboat activity.
- The Engineer will request that the vessels depart under low power (slow bell) unless otherwise necessary due to weather conditions.
- The diving team and workboat operations shall not disrupt the ferry service schedule.
- Communications between the Diver and the Diver's Tender shall be maintained at all times.
- The Engineer and Masters shall be notified at the completion of diving and workboat activity each day.

Slip-Specific Diving Requirements

The following safety rules shall be followed when diving activities are performed within the diving envelope of the ferry slip. The diving envelope is defined as occurring in an active ferry slip being used for vessel operations:

- It includes the area around all of the slip landing aid structures.
- A 50-yard by 50-yard box which is bisected by the centerline of the slip and runs from the off-shore portion of the apron toward shore.

A three-member minimum diving team will be required when diving within the diving envelope. The duties of the team members shall include:

- One member shall be diving.
- One member shall be in a skiff, on the trestle or on the transfer span acting
 as the Diver's Tender. The Diver's Tender shall maintain communication
 with the Diver, and the Safety Technician, at all times. In addition, the Diver's
 Tender shall ensure that the diver has safely surfaced and cleared the diving
 area five minutes prior to the vessel landing, unless the Diver is outside the
 envelope.
- One member shall act as a Safety Technician. The Safety Technician shall be in a skiff or on shore and shall maintain constant communication with the Diver's Tender.

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Upon completion of diving activity, the Safety Technician shall notify the Engineer and Masters. Once the diver has cleared the diving area, the Safety Technician shall directly radio the Master on each arriving vessel and relay the message "DIVER CLEAR". The Engineer will provide the Safety Technician a hand-held radio for this purpose.

Slip-Specific Workboat Requirements

The following safety rules shall be followed when operating workboats at the ferry terminal:

- The workboat shall not pass in front of a ferry vessel when it is closer than 500 yards from the terminal on approach (33 CFR 165.1317).
- While the ferry vessel is making the landing approach to the ferry terminal, workboats shall maintain a 100-yard distance unless moored to a larger anchored vessel or to a landing structure for other than the active slip (33 CFR 165.1317).
- Workboats shall maintain a 25-yard distance from any ferry vessel while ferry vessels are moored at the ferry terminal unless approved by the vessel Master (33 CFR 165.1317).
- Operators of workboats shall be aware of the slip and any vessels that are or will be using the slip.
- Operators of workboats shall be aware of the ferry schedule and when ferry vessels will be departing so that they can position their workboat in a safe operating location in compliance with the requirements noted above.
- The workboat shall not cross under the active occupied slip unless the Master has been notified and agrees.
- Workboats shall be moored in locations that will provide visibility to vessel approaches and/or protection from any prop wash that may occur by ferry vessel approaches and departures.

Payment

All costs to comply with this Special Provision covering diver and workboat safety shall be included in related items of Work.

1-07.1(2).OPT3.FR1

(March 9, 2023)

Lead Health Protection Program

The following Structural and non-structural materials located at the project site contain lead-based products:

*** \$\$1\$\$ ***

The Contractor shall be fully responsible for the safety and health of all on-site workers and maintain strict compliance with Washington Administrative Code (WAC 296-155-176). The Contractor's Lead Health Protection Program shall be submitted to the Contracting Agency as a Type 2 Working Drawing prior to the Contractor

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1 beginning Work involving exposure to materials containing lead. The Contractor shall 2 communicate with the Engineer to ensure a coordinated effort for providing and 3 maintaining a safe worksite for both the Contracting Agency's and Contractor's 4 workers. 5 6 Contracting Agency personnel shall be given free and full access to all hygiene and 7 housekeeping facilities including, but not limited to, change areas, showers, and 8 handwashing and eating facilities. 9 10 **Payment** 11 All costs to comply with this Special Provision for the Lead Health Protection laws 12 and regulations are the responsibility of the Contractor and shall be included in 13 related items of work. 14 15 1-07.3.GR1 16 Fire Prevention and Merchantable Timber Requirements 17 18 1-07.3.INST1.GR1 19 Section 1-07.3 is supplemented with the following: 20 21 1-07.3.OPT1.GR1 22 (August 2, 2004) 23 The Forest Service Provisions, included in the Appendix to these Special Provisions, are 24 made a part of this contract. The Contractor shall comply with the requirements of these 25 Forest Service provisions at no additional cost to the Contracting Agency. 26 27 1-07.3(2).GR1 Merchantable Timber Requirements 28 29 30 1-07.3(2).INST1.GR1 31 Section 1-07.3(2) is supplemented with the following: 32 33 1-07.3(2).OPT1.GR1 34 (April 7, 2008) 35 This project contains merchantable timber. 36 37 38 39 40 41 42 43 44

Export Restrictions - DOT Form 410-100, Purchaser Certification for Export Restricted Timber, will be included when the contract is sent to the Contractor for execution. The form shall be completed and signed by the Contractor. The Contractor shall send the original signed form and one copy of the signed form directly to the Washington State Department of Revenue at the address on the form. The Contractor shall send one signed copy along with the other documents required by Section 1-03.3 to the Contracting Agency with the executed contract.

State Tax Requirements - It shall be the Contractor's responsibility to pay to the State Department of Revenue all taxes on harvested timber.

47 48 1-07.4.GR1

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1-07.4(2).GR1

Health Hazards

1-07.4(2).INST1.GR1

Section 1-07.4(2) is revised to read:

1-07.4(2).OPT1.FR1

(August 7, 2017)

This project site is known to be occupied by transients and therefore contains biological hazards and associated physical hazards. These may include, but not be limited to violent and dangerous individuals, hypodermic needles, garbage, broken glass, human and animal excrement, drug paraphernalia, and other hazards.

The Contractor shall take precautions and perform any necessary Work required to provide and maintain a safe and healthful jobsite for all workers and the public for the duration of the project in accordance with all applicable laws and contract requirements.

The Contractor shall ensure that the public, including persons who may be non-English speaking or those who may not be able to recognize potential safety and health hazards within the project area, are not harmed by the Contractors activities.

Nothing required by this Specification shall operate as a waiver of the Contractor's responsibility for taking all steps necessary to ensure the safety of the public under Section 1-07.23 or responsibility for liability and damages under Section 1-07.14 or for any other responsibility under the Contract or as may be required by law.

Health and Safety Plan

 The Contractor shall prepare a written Health and Safety Plan. The plan shall be prepared under the supervision of a certified industrial hygienist and shall incorporate all required County, State, and Federal health and safety provisions. The plan shall include requirements of the Federal Occupational Safety and Health Act of 1970 (OSHA), all amendments, and all other applicable health regulations.

Preparation of the Health and Safety Plan shall include an initial site assessment by the industrial hygienist. The plan shall break initial cleanup of the project into identifiable construction areas. The plan shall be submitted to the Engineer prior to commencing cleanup Work. At least one copy of the plan shall be posted at the work site while cleanup Work is in progress. The industrial hygienist shall perform one or more follow-up site assessments as needed to approve the site following completion of the initial site cleanup.

Public Notification

 The Contractor shall furnish and install the "No Trespassing" signs shown in the Plans at locations staked by the Engineer at least 72 hours prior to performing site cleanup or any potentially hazardous Work (such as clearing or operating equipment).

At the same time that "No Trespassing" signs are posted, provide written notification of the following to the Engineer and to the chief law enforcement officer of the local governmental entity where the Work will occur:

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- 1. The precise location of each area that is posted "No Trespassing";
- 2. The date and time that each site was posted "No Trespassing";
- 3. The date, time, description and duration of the Work to be performed at each site.

At least 72 hours prior to performing site cleanup in Work areas containing encampments (such as tents, makeshift dwellings, sleeping sites, or accumulations of personal property that are not refuse), the Contractor shall post a notification at each encampment area. Each notice shall:

- 1. Be weather resistant, and written in both English and Spanish.
- 2. Be affixed to each dwelling or post mounted within 10-feet of each encampment;
- 3. State the Prime Contractor's company name as the entity that performed the cleanup as required by the Washington State Department of Transportation;
- 4. Provide the date that the notice is posted;
- 5. Provide date(s) and time(s) that cleanup will occur;
- 6. Provide the telephone number, business hours and physical address of the location where stored personal property may be claimed.
- 7. State that personal property will be stored for 70-days from the date of removal, and if unclaimed within that time, will be disposed of.

At the same time that notifications are posted at encampment areas, provide written notification of the schedule to perform site cleanup to the Engineer and to the following advocacy groups:

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Acceptance of signs and notifications will be based on visual inspection that the sign and notifications meet these requirements.

Site Cleanup of Biological and Physical Hazards

An initial cleanup of the site, including all preparatory work required to make the worksite sanitary and safe in accordance with applicable laws and with the Contract, shall be completed to remove all individuals, encampments, and personal property from areas signed "No Trespassing", and to address all biological and associated physical hazards present on the project. Necessary worker training, on and off site preparations, and personal protective equipment shall be provided by the Contractor to complete this Work. If aggressive or violent individuals are encountered, the Contractor shall notify the local law enforcement agency to assist them in clearing the Work area.

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Site cleanup of individual areas identified in the Health and Safety Plan shall be performed no more than 30 days in advance of performing other Work in each area.

The refuse generated by the site cleanup shall become the property of the Contractor and shall be removed from the project. Personal property shall be handled as required by this Specification and applicable laws.

Removal, Storage and Return of Personal Property

Personal property may include radios, audio and video equipment, sleeping bags, tents, stoves and cooking utensils, lanterns, flashlights, bed rolls, tarps, foam, canvas, mats, blankets, pillows, medication, personal papers, photographs, books and other reading materials, luggage, backpacks or other storage containers, clothing, towels, shoes, toiletries and cosmetics, clocks and watches, and eye glasses. Personal property does not include building materials such as wood products, metal, or rigid plastic.

Personal property items that are not refuse, contaminated, illegal or hazardous shall be removed from the Work area and stored at a location near the project site for return to the property owner. Items shall be placed in large transparent plastic bags and stored in a manner that protects them from adverse weather and theft. Reasonable efforts shall be made to place all items from each encampment into a separate bag. Each bag shall be labeled with an inventory to include a brief description of the contents, a description of the location that it was removed from, and the date that it was removed from the Work area. The Contractor shall not open closed items of personal property unless, in its determination, it is necessary to do so to protect public safety.

The Contractor shall retain the property for 70-days.

If the name and contact information of the owner of a personal property item is identified on that item, then for a period of not less than 10-days after removing the property from the Work area, the Contractor shall attempt to notify the apparent owner of the property and make arrangements for the owner to claim the property.

The Contractor shall release the property to any individual who claims ownership provided they are able to establish ownership by identifying the property and its approximate location. The Contractor shall maintain a record of all property that is claimed. The record shall include a description of the property, the date claimed, and the name of the claimant.

If personal property is not claimed within 70-days of removal from the encampment, then the property shall become the property of the Contractor and shall be removed from the project.

Site Preservation

The Contractor shall preserve the site after initial cleanup of biological and physical hazards.

On a daily basis and prior to performing any Work in areas where pedestrians or encampments may be present, the Contractor shall verify that the Work area

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is cleared of all persons not associated with the project. Individuals may seek shelter in dumpsters, equipment, under blankets, or other places hidden from view. Individuals may be disabled, or under the influence of alcohol or drugs and it should not be assumed that loud construction noise will wake them.

If the worksite becomes unsanitary or unsafe due to new encampments or new biological and associated physical hazards after initial cleanup is completed, then the Contractor shall perform additional site assessment, additional notification and additional cleanup.

The Engineer may authorize additional site preservation measures. The nature and frequency of these measures will be as agreed to by the Engineer. Additional site preservation measures may include the use of fencing, lighting, or security, provided it is approved in advance by the Engineer. Work performed without Engineer authorization will not be eligible for payment.

Measurement

No trespassing signs will be measured per each.

Payment

Payment will be made for the following bid items when they are included in the proposal:

"No Trespassing Sign", per each.

The unit contract price per each "No Trespassing Sign" shall be full payment for all Work required to furnish, install, maintain and remove the signs.

"Health and Safety Plan", lump sum.

The lump sum unit contract price for "Health and Safety Plan" shall be full payment for all Work associated with the preparation and implementation of the Health and Safety Plan including the initial and follow up assessment(s) for initial site cleanup, worker training and personal protective equipment, and providing required notifications.

"FA-Site Cleanup of Bio. And Physical Hazards", by force account as provided in Section 1-09.6.

Removal and disposal of biological and physical hazards; removal of individuals and encampments; removal, storage, and return of personal property; disposal of unclaimed personal property; additional site assessment, notifications, worker training and personal protective equipment required after the initial site cleanup is completed; and site preservation Work authorized by the Engineer will be paid for by force account in accordance with Section 1-09.6.

For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "FA-Site Cleanup of Bio. And Physical Hazards" in the bid proposal to become a part of the total bid by the Contractor.

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1
      1-07.5.GR1
 2
      Environmental Regulations
 3
 4
      1-07.5.INST1.GR1
 5
      Section 1-07.5 is supplemented with the following:
 6
 7
      1-07.5.OPT1.GR1
 8
          (September 20, 2010)
 9
          Environmental Commitments
10
          The following Provisions summarize the requirements, in addition to those required
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          elsewhere in the Contract, imposed upon the Contracting Agency by the various
12
          documents referenced in the Special Provision Permits and Licenses. Throughout the
13
          work, the Contractor shall comply with the following requirements:
14
15
      1-07.5.OPT1(A).FR1
16
              (August 4, 2014)
17
              The Contractor shall submit a written notification to the Engineer no later than 10
18
              calendar days prior to beginning any ground disturbing activities *** $$1$$ ***. The
19
              Contractor shall not commence any such ground disturbing activities until the monitor
20
              is present.
21
22
      1-07.5.OPT1(B).FR1
23
              (April 1, 2019)
24
              The Contractor shall notify the Engineer a minimum of *** $$1$$ *** calendar days
25
              prior to commencing any work in sensitive areas, mitigation areas, and wetland
26
              buffers. Installation of construction fencing is excluded from this notice requirement.
27
28
      1-07.5.OPT1(C).FR1
29
              (April 1, 2019)
30
              No *** $$1$$ *** is allowed within *** $$2$$ *** feet of *** $$3$$ ***.
31
32
      1-07.5.OPT2.GR1
33
          (August 3, 2009)
34
          Payment
35
          All costs to comply with this special provision for the environmental commitments and
36
          requirements are incidental to the contract and are the responsibility of the Contractor.
37
          The Contractor shall include all related costs in the associated bid prices of the contract.
38
39
      1-07.5(1).GR1
          General
40
41
42
      1-07.5(1).INST1.GR1
43
          Section 1-07.5(1) is supplemented with the following:
44
45
      1-07.5(1).OPT1.FR1
46
              (October 3, 2022)
              In-Water Operations Along Marine Shorelines
47
48
              In-Water Operations along Marine Shorelines shall meet the requirements from ***
49
              $$1$$ ***.
50
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The Contractor's vessels and equipment operating in support of the Work shall be in

adequate water depth and shall use the minimum required propulsion to prevent

1 impacts from propeller wash and grounding to seagrass, kelp, and forage fish 2 spawning beds as shown in the Plans. The Contractor shall not conduct activities 3 that may cause scouring within, or other types of sediment transfer out of or into the 4 seagrass, kelp, and forage fish spawning beds. At no time shall any vessel or 5 temporary floating work contact the ground. 6 7 The Contractor shall not deploy anchors or spuds in seagrass or kelp. The Contractor 8 shall maintain anchor cable tension, set and retrieve anchors vertically, and prevent 9 mooring cables from dragging to avoid impacts to seagrass and kelp. 10 11 To minimize shading of seagrass, the Contractor shall relocate vessels moored over 12 seagrass every fourth day when working within the allowed working dates listed in *** \$\$2\$\$ ***. 13 14 15 The Contractor shall not allow debris or any type of fuel, solvent or lubricant to enter 16 the water. 17 18 1-07.5(2).GR1 19 State Department of Fish And Wildlife 20 21 1-07.5(2).INST1.GR1 22 Section 1-07.5(2) is supplemented with the following: 23 24 1-07.5(2).OPT1.GR1 25 (April 2, 2018) 26 The following Provisions summarize the requirements, in addition to those required 27 elsewhere in the Contract, imposed upon the Contracting Agency by the Washington 28 State Department of Fish and Wildlife. Throughout the work, the Contractor shall 29 comply with the following requirements: 30 31 1-07.5(2).OPT1(A).FR1 32 (April 2, 2018) 33 The Contractor may begin Work below the Ordinary High Water Line on *** 34 \$\$1\$\$ *** and must complete all the Work by *** \$\$2\$\$ ***. 35 36 1-07.5(2).OPT2.GR1 37 (April 2, 2018) 38 All costs to comply with this special provision are incidental to the Contract and are 39 the responsibility of the Contractor. The Contractor shall include all related costs in 40 the associated bid prices of the Contract. 41 42 1-07.5(3).GR1 43 State Department of Ecology 44 45 1-07.5(3).INST1.GR1 46 Section 1-07.5(3) is supplemented with the following: 47 48 1-07.5(3).OPT1.GR1 49 (April 2, 2018) 50 The following Provisions summarize the requirements, in addition to those required

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51

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elsewhere in the Contract, imposed upon the Contracting Agency by the Washington

State Department of Ecology. Throughout the work, the Contractor shall comply with the following requirements: 1-07.5(3).OPT1(A).FR1 (August 3, 2009) A mixing zone is established within which the turbidity standard is waived during actual in-water work. The mixing zone is established to only temporarily allow exceeding the turbidity criteria (such as a few hours or days) and is not authorization to exceed the turbidity standard for the entire duration of the construction. The mixing zone shall not exceed *** \$\$1\$\$ *** feet downstream from the construction area. 1-07.5(3).OPT1(B).GR1 (April 1, 2019) that has come into contact with pH modifying substances such as concrete

Stormwater, dewatering water, or other authorized non-stormwater discharges that has come into contact with pH modifying substances such as concrete rubble, cast concrete or amended soils, need to be maintained between 6.5 – 8.5 standard units (su). If pH exceeds 8.5 su, the Contractor shall immediately discontinue work and initiate treatment to prevent discharges outside the acceptable range from occurring. All neutralization methods used shall be in accordance with the permit. Work may resume once treatment has been implemented and pH of the stormwater or authorized non-stormwater discharge is between 6.5 - 8.5 su or it can be demonstrated that high pH waters will not discharge to surface waters.

Stormwater, dewatering water, and other authorized non-stormwater discharges are monitored weekly for compliance with the turbidity benchmark (25 nephelometric turbidity units (ntu)) and the phone reporting trigger value (250 ntu) by the Contracting Agency. When the turbidity benchmark is breached, the best management practices (BMPs) installed on-site are not working adequately and need to be adapted, maintained or more BMPs shall be installed. When the turbidity phone reporting trigger value is breached, immediate action is required in order to lower the turbidity to ≤25 ntu or to eliminate the discharge. Daily follow-up discharge samples will be collected at all locations where a discharge of 250 ntu or higher was collected unless the discharge was stopped or eliminated.

1-07.5(3).OPT2.GR1 (April 2, 2018)

All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(4).GR1

Air Quality

1-07.5(4)C.GR1
Asbestos Containing Material

Asbestos Containing Material

1-07.5(4)C.INST1.GR1
Section 1-07.5(4)C is supplemented with the following:

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1	1-07.5(4)C.C	PPT1.FR1
2		(October 4, 2021)
3		Asbestos Good Faith Investigation
4		An asbestos Good Faith Investigation (GFI) has been conducted for this project
5		and it has been determined that known Asbestos Containing Material (ACM),
6		and/or Presumed Asbestos Containing Material (PACM), will be disturbed by the
7		work on this project. The asbestos GFI has been provided in Appendix *** \$\$1\$\$
8		***
9		
10	1-07.5(4)C.C	PT2.FR1
11		(October 4, 2021)
12		Asbestos Good Faith Investigation
13		An asbestos Good Faith Investigation (GFI) has been conducted for this project
14		and it has been determined to a reasonable certainty that no known Asbestos
15		
		Containing Material (ACM) will be disturbed by the work on this project. The
16		asbestos GFI has been provided as Appendix *** \$\$1\$\$ ***.
17		
18	1-07.5(5).GF	R1
19	U.S. Ar	my Corps of Engineers
20		
21	1-07.5(5).INS	ST1 GR1
22	` '	1-07.5(5) is supplemented with the following:
23	Ocollon	1-07.0(0) is supplemented with the following.
	1 07 5/5) 05	T1 CD1
24	1-07.5(5).OF	
25	\ .	ril 2, 2018)
26		e following Provisions summarize the requirements, in addition to those required
27	else	ewhere in the Contract, imposed upon the Contracting Agency by the U.S. Army
28	Cor	ps of Engineers. Throughout the work, the Contractor shall comply with the
29	follo	owing requirements:
30		
31	1-07.5(5).OF	PT1(B).FR1
32	(0)	(February 25, 2013)
33		Temporary fills at *** \$\$1\$\$ *** must be removed within *** \$\$2\$\$ *** calendar
34		days of beginning placement of these fills. This time period may be extended
35		with approval from the Engineer. Requests to extend must be received a
36		minimum of 45 days prior to the expiration of number of days listed above, since
37		the extension is subject to concurrence by the U.S. Army Corps of Engineers.
38		
39	1-07.5(5).OF	PT1(C).GR1
40	()	(February 25, 2013)
41		Temporary structures and dewatering of areas under the jurisdiction of the U.S.
42		Army Corps of Engineers must maintain normal downstream flows and prevent
43		upstream and downstream flooding to the maximum extent practicable.
44		
45	1-07.5(5).OF	
46		(August 3, 2009)
47		Heavy equipment working in wetlands or mudflats must be placed on mats or
48		other measures taken to minimize soil disturbance as approved by the Engineer.
49		11 , · · · · · · · · · · · · · · · · ·
50	1-07.5(5).OF	PT1(F).GR1
51	. 00(0).01	(February 6, 2023)
J 1		(i oblique o, 2020)

General Special Provisions Division 1-07

The Contractor shall dispose of all creosoted timber, creosote piling and associated debris as shown in the Plans in accordance with current federal, state, and local regulations and provisions, and following Best Management Practices. Handling shall meet the Minimum Functional Standards for Solid Waste Handling, Chapter 173-304 WAC. Disposal shall be made in a landfill which meets the liner and leachate standards of the Criteria for Municipal Solid Waste Landfills, Chapter 173-351 WAC. The Contractor shall provide receipts from the disposal facility to the Engineer. If the material is transported to a transfer station, the Contractor shall obtain documentation indicating that final disposal will comply with the standards referenced above.

1-07.5(5).OPT2.GR1
(April 2, 2018)
All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(6).GR1

U.S. Fish and Wildlife Service and National Marine Fisheries Service

1-07.5(6).INST1.GR1

Section 1-07.5(6) is supplemented with the following:

1-07.5(6).OPT1.GR1

(April 2, 2018)

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the U.S. Fish/Wildlife Services and the National Marine Fisheries Service. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5(6).OPT1(B).GR1

(April 2, 2018)

The Contractor shall place temporary storage piles of erosive materials outside the 100-year floodplain during the rainy season (October 1 through June 1). Material that will be used within 12 hours of deposition is exempt from this requirement. The Contractor shall employ best management practices to prevent sediment delivery to waterbodies, wetlands, or conveyances that drain to such features.

1-07.5(6).OPT1(C).FR1

(April 2, 2018)

The Contractor shall not allow temporary floating work platforms to run aground. Anchors and chains shall never contact fish spawning areas in freshwater or eelgrass, kelp, macro algae, or intertidal wetlands as indicated in the Plans. Shading eelgrass, kelp, or macro algae beds by work platforms shall not exceed *** \$\$1\$\$ *** days.

1-07.5(6).OPT1(D).GR1

(April 2, 2018)

The Contractor shall provide concrete truck chute cleanout areas to contain fresh concrete and wash water. The Contractor shall dispose of the waste material at a facility permitted to take such waste.

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1 2 3 4 5 6	1-07.5(6).OP	T1(E).GR1 (April 2, 2018) The Contractor shall not use creosote-treated wood below the Ordinary High Water Mark.
7 8 9 10 11 12 13	1-07.5(6).OP	T1(F).GR1 (April 2, 2018) The Contractor shall remove piles by directly pulling, using vibratory devices, or by cutting the piles below ground level to minimize localized turbidity. If use of a clamshell bucket is necessary due to pile breakage, turbidity curtains will be employed by the Contractor.
14 15 16 17	1-07.5(6).OP	T1(G).GR1 (April 2, 2018) The Contractor shall remove piles and place them directly into a receptacle that prevents sediment or other material from entering waters of the state.
19 20 21 22 23 24 25	1-07.5(6).OP	T1(H).FR1 (April 2, 2018) Contracting Agency staff will monitor sound pressure during in-water pile driving of steel piles, including H-piles, and sheet piles. Results that exceed *** \$\$1\$\$ *** will require the Contractor to adjust work methods or employ additional best practices to safely proceed.
26 27 28 29 30	1-07.5(6).OP	T1(I).FR1 (April 2, 2018) The Contractor shall direct temporary lights for night work away from *** \$\$1\$\$ ***.
31 32 33 34 35 36 37	1-07.5(6).OP	(April 2, 2018) The Contractor shall conduct night Work only during the period from 2 hours after sunset to 2 hours before sunrise. Setting up and taking down traffic contro are exempt from these time restrictions. Refer to the following website, using the City of *** \$\$1\$\$ *** for sunrise and sunset times:
38 39 40 41 42 43 44 45 46	1-07.5(6).OP	http://www.sunrisesunset.com/usa/washington.asp T1(K).FR1 (April 2, 2018) The Contractor shall conduct night Work only during the period from 1 hour after sunset to 1 hour before sunrise. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** \$\$1\$\$ *** for sunrise and sunset times:
47 48	=	http://www.sunrisesunset.com/usa/washington.asp
49 50	1-07.5(6).OP	T1(L).FR1 (April 2, 2018)

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1 The Contractor must cease Work 2 hours before sunrise. Setting up and taking 2 down traffic control are exempt from these time restrictions. Refer to the 3 following website, using the City of *** \$\$1\$\$ *** for sunrise times: 4 5 http://www.sunrisesunset.com/usa/washington.asp 6 7 1-07.5(6).OPT1(M).FR1 8 (April 2, 2018) 9 When night and day time Work is required, the Contractor shall not perform Work 10 from 1 hour before sunrise to 2 hours after sunrise and no Work from 2 hours before sunset to 1 hour after sunset. Setting up and taking down traffic control 11 are exempt from these time restrictions. Refer to the following website, using the 12 13 City of *** \$\$1\$\$ *** for sunrise and sunset times: 14 15 http://www.sunrisesunset.com/usa/washington.asp 16 17 1-07.5(6).OPT1(N).FR1 18 (April 2, 2018) 19 When night and day time Work is required, the Contractor shall not perform Work 20 from 1 hour before sunrise to 2 hours after sunrise. Setting up and taking down 21 traffic control are exempt from these time restrictions. Refer to the following 22 website, using the City of *** \$\$1\$\$ *** for sunrise and sunset times: 23 24 http://www.sunrisesunset.com/usa/washington.asp 25 26 1-07.5(6).OPT1(O).GR1 27 (April 2, 2018) 28 The Contractor shall develop a Type 2 Working Drawing to ensure that trash and 29 food waste is collected daily and contained in secured garbage receptacles. 30 31 1-07.5(6).OPT1(P).FR1 32 (September 3, 2019) 33 Between April 1 and September 22, the Contractor *** \$\$1\$\$ *** are restricted 34 to between two hours after sunrise and two hours before sunset. Setting up and 35 taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** \$\$2\$\$ *** for sunrise and sunset times: 36 37 38 http://www.sunrisesunset.com/usa/washington.asp 39 40 1-07.5(6).OPT1(Q).GR1 41 (September 7, 2021) 42 Galvanizing and zinc coatings shall not be used below the 100 year mean 43 recurrence interval water surface. 44 1-07.5(6).OPT2.GR1 45 46 (April 2, 2018) All costs to comply with this special provision are incidental to the contract and are 47 48 the responsibility of the Contractor. The Contractor shall include all related costs in

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the associated bid prices of the contract.

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1-07.5(6).OPT3.FR1 (November 2, 2022)

Bird Protection and Monitoring

Description

This Work includes preparing a Project-specific Bird Protection Plan, implementation of the Bird Protection Plan, updating the Bird Protection Plan, surveying, monitoring, and reporting of bird activity, actions required in the event nests and species are surveyed and encountered, and Contractor training.

Construction Requirements

No onsite Work may begin on the Project until the Bird Protection Plan has been accepted by the Engineer.

The Contractor shall maintain a copy of the Bird Protection Plan at the Work site and update as necessary to reflect the conditions as the Work progresses.

The Contractor shall take precautions to prevent birds from nesting on bridges, structures, equipment, or other nesting habitat that would be modified or disturbed by Project construction.

The Contractor shall conduct site monitoring and shall report the results of their inspections. From March 15 to September 15, the Contractor shall conduct, at minimum, three inspections during the work week; once on Monday, Wednesday, and Friday, to identify nest starts. The Contractor shall indicate their intended inspection schedule in their Bird Protection Plan.

The Contractor shall remove nest starts as soon as they are discovered in accordance with their Project-specific Bird Protection Plan. If an active nest (i.e., one that has eggs or chicks) is found, the Contractor must immediately stop all associated Work and contact the Engineer before implementing the relevant Project-specific Bird Protection Plan measures. Active nest removal shall not proceed prior to notifying to and receiving approval from the Engineer.

The Contractor shall notify the Engineer if a bird nest is discovered or suspected. The Contractor shall also notify the Engineer if a breeding raptor (or nest or nest start) is suspected or discovered. If a raptor nest (including unoccupied ones outside the breeding season) is found, it shall not be removed.

From September 16 to March 14, the Contractor may discontinue weekly inspections and reports, but shall remove old nests in accordance with the Project-specific Bird Protection Plan. In the rare instance that an active nest is discovered during this time, the Migratory Bird Treaty Act (MBTA) requirements apply and the Contractor must adhere to the Project-specific Bird Protection Plan and applicable Contract provisions. However, the Contractor shall not be responsible for the removal of active nests during this time period.

The Contractor shall train all project staff. The Contractor shall provide a list of training for all Project staff as part of their Bird Protection Plan. The Contractor training shall include an overview of the MBTA and the Bald and Golden Eagle Protection Act, how to identify nesting activity, and what to do if a nest is discovered.

Submittals

The Contractor shall prepare a Project-specific Bird Protection Plan and submit it to the Engineer no later than 10 days after the execution of the Contract. The Plan shall be a Type 2 Working Drawing and apply to *** \$\$1\$\$ *** during the active nesting season described as March 15 to September 15.

The Contractor's Project-specific Bird Protection Plan shall be prepared and implemented by a qualified biologist. The biologist shall be available to work during day or night to lead, direct, or carry out monitoring, inspection, and activities described in the Project-specific Bird Protection Plan. The Bird Protection Plan shall include the following information on the biologist:

- Evidence of the qualification for the designated Biologist and a backup Biologist. The evidence of qualification will include at a minimum a bachelor's degree in biology, zoology, natural resource management, environmental science, or a related degree with a science emphasis.
- 2. Resumé of each biologists' work experience including:
 - Description of applicable projects over a five-year period to include a description of the work experience to identify birds and bird nests with the associated projects.
 - b. Duration of each project including start date and finish date.
 - c. Position held for each applicable project.
 - d. Location of each project to include 2 years in the Pacific Northwest.
 - e. References, including the name and contact information for each project.

The Project-specific Bird Protection Plan shall also include:

- 1. Bird species identified by the Contracting Agency in the MBTA Assessment Report (Appendix *** \$\$2\$\$ ***).
- 2. Precautions and timeframes taken or to be taken to prevent birds from nesting on bridges, structures, equipment or other nesting habitat that would be modified or disturbed by project construction.
- 3. Methods, materials, and equipment used to remove nest starts, which are described as partial or complete nests that don't contain eggs or chicks.
- 4. Containment methods to prevent removed nesting materials from contributing to air or water pollution.
- Disposal of nesting materials removed in accordance with Section 2-03.3(7)C.

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- 6. Communicating, notifying, and documenting:
 - Name and contact information of the Contractor's qualified biologist and one qualified emergency back-up biologist.
 - b. Name and contact information of the Engineer.
 - c. Describe notification, communication, and documentation procedures to follow in the event an active nest (i.e., one that has eggs or chicks) or unanticipated species upon the discovery of a nest.
 - d. Describe notification to follow in the event a raptor nest (even unoccupied ones outside the breeding season) is discovered.
- 7. The list of Contractor employees that have received Bird Protection training.

Once a week, the Contractor shall submit a Type 1 Working Drawing to the Engineer, detailing their findings from the prior week's inspections.

Payment

Payment will be made for the following bid item when included in the proposal:

"Bird Protection and Monitoring", Lump Sum.

The lump sum Contract price for "Bird Protection and Monitoring" shall be full pay for all the Work as specified.

1-07.6.GR1

Permits and Licenses

1-07.6.INST1.GR1

Section 1-07.6 is supplemented with the following:

1-07.6.OPT1.FR1

(January 2, 2018)

The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits, including a copy of the Transfer of Coverage form, when applicable, are required to be onsite at all times.

Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall be responsible for obtaining Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable Bid items for the Work involved.

*** \$\$1\$\$ ***

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United States Coast Guard

1-07.6.OPT3(A).FB1

(September 3, 2019)

The Contracting Agency has obtained a United States Coast Guard Bridge Permit *** \$\$1\$\$ *** for this project.

The Contractor shall furnish, install, maintain, and remove all temporary navigation lights, signs, signals, and any other warning devices required by the Coast Guard and as required for public safety on all falsework, cofferdams, or other temporary structure in the waterway.

The Contractor shall comply with all Coast Guard requirements inclusive of the following Bridge Permit conditions:

The construction of falsework, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, 13th Coast Guard District, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the District Commander's judgment the construction work has reached a point where such action should be taken, but in no case later than 90 calendar days after the bridge has been opened to traffic.

2. *** \$\$2\$\$ ***

The Contractor shall notify the Coast Guard in writing, with a copy to the Engineer, of the work start date at least seven calendar days before beginning any site work and shall at that time designate the Contractor's authorized representative, and work phone number, for coordination on matters that relate to Coast Guard approvals and requirements.

The Contractor's applications for required Coast Guard construction approvals for this project shall include, but not be limited to, cofferdams, falsework, temporary navigation lighting, work bridges, and other obstructions. These applications shall be submitted to the Coast Guard by the Contractor, with a copy to the Engineer, a minimum of 30 calendar days in advance of the scheduled work. A schedule of when the work is to be performed and when the obstructions are to be permanently removed shall be a part of the Contractor's application.

The Contractor shall provide the Coast Guard and the Engineer with prompt verbal notice, followed by written notice, of any subsequent changes to this proposed schedule.

A copy of all Coast Guard approvals shall be provided to the Engineer upon receipt but not later than prior to beginning work on the items of work involved.

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By the 20th of each month, the Contractor shall furnish the Engineer a schedule of the work expected to be performed in the next two months. The Engineer will transmit this information through the Bridge and Structures Office to the Coast Guard so that interested users of the waterway can be notified.

The Coast Guard contact is:

Bridge Administrator Thirteenth Coast Guard District 915 Second Avenue Suite 3510 Seattle, WA 98174-1067 D13-pf-d13bridges@uscg.mil Telephone: (206) 220-7282

All costs in connection with furnishing, installing, maintaining, and removing temporary navigation lights, signs, signals, or other warning devices shall be included in the contract prices for the items of work involved.

All costs incurred in obtaining the required Coast Guard approvals and in complying with all requirements specified herein shall be included in the contract prices for the items of work involved.

All costs in connection with delays in the construction caused by the Contractor's failure to obtain the necessary Coast Guard approvals shall be at the Contractor's expense.

1-07.6.OPT3(B).GB1

(September 3, 2019)

The Contractor shall comply with all United States Coast Guard requirements.

The Contractor shall submit a Type 3 Working Drawing consisting of a Navigation Work Plan at least 60-calendar days prior to beginning activities and operations affecting any part of the waterway in the vicinity of the bridge work. The Navigation Work Plan shall include, at a minimum, the following:

- Lead Contractor contact for the project, with associated email and phone number.
- 2. Scheduled on-site start work date and finish work date.
- 3. Days and times of operation over the nominal work week.
- 4. Dates and times of stages of work, as applicable for operations involving sequential or staged activities.
- 5. Location of the Work by latitude and longitude, river mile, and geographic point of land, with latitude and longitude expressed in degrees, minutes, seconds, and thousandths of seconds.
- 6. Identification and description of barges, vessels and equipment present in the waterway, if any, to facilitate operations. The description shall include vessel type, vessel name (as applicable), means of voice contact (VHF frequencies, cell phone number, etc.) to the vessel, means of anchoring and mooring the

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vessel and the location of such anchoring and mooring, the extent to which the vessel is encroaching into the defined navigation channel, and lighting support vessels in accordance with the Coast Guard Rules of the Road as applicable.

 7. Point of contact phone number available for 24-hour-seven-days-a-week contact from local mariners through the duration of the project.

8. Detailed identification of work operation hazards to mariners, if any, created by operations (cables, buoys, machinery, tools, tows, containment and platform structures, falling debris, etc.), including details such as size, diameter, color as applicable.

9. Precautions regarding the in-water vessels, equipment, and work operation hazards, if any, affecting local mariners such as operating speed and wake, clearance distance, etc.

10. Systems and equipment causing a reduction in the available vertical clearance beneath the bridge, if any, such as containment and platform systems and supports and the equipment necessary to install, maintain, and remove such systems, and the identification of any falling debris hazard to waterway traffic.

11. Description of advisory signage and lighting to be implemented by the Contractor to advise local mariners of the operations, reduced clearances, and presence of work operation hazards, as applicable. The description shall include the advisory message, and placement and orientation of the signage and flashing amber lighting (4-seconds/15 per minute).

The Engineer will submit the Navigation Work Plan to the US Coast Guard contact identified below for concurrent review. Approval from the US Coast Guard and the Engineer is required prior to the US Coast Guard issuing a Local Notice to Mariners advising of the operations, and allowing the operations to commence.

The Contractor shall contact the US Coast Guard for requirements related to the mooring of barges, placement of log booms, and all other equipment that could be a hazard to waterway users.

Provisions shall be made for the removal, on 2 hours notice, of all equipment that would block or partially block, the navigable portion of the waterway.

The US Coast Guard contact is:

Bridge Administrator
Thirteenth Coast Guard District
915 Second Avenue Suite 3510
Seattle, WA 98174-1067
D13-pf-d13bridges@uscg.mil
Telephone: (206) 220-7282

All costs incurred in contacting the US Coast Guard and in complying with all the requirements specified herein shall be included in the contract prices for the items of work involved.

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1 All costs in connection with delays in the construction caused by the Contractor's failure 2 to contact the US Coast Guard shall be at the Contractor's expense. 3 4 1-07.7.GR1 5 **Load Limits** 6 7 1-07.7.INST1.GR1 8 Section 1-07.7 is supplemented with the following: 9 10 1-07.7.OPT3.FR1 11 (March 13, 1995) The State has made arrangements with *** \$\$1\$\$ *** for the Contractor's use of the *** 12 13 \$\$2\$\$ *** shown in the Plans as a haul route for materials coming from *** \$\$3\$\$ *** Site *** \$\$4\$\$ *** and used on this project. The Contractor shall comply with all existing legal 14 15 restrictions. 16 17 If the Contractor selects different haul routes than those designated, the Contractor shall, 18 at the Contractor's expense, make all arrangements for the use of the haul routes. 19 20 1-07.7.OPT4.FR1 21 (March 13, 1995) 22 The Contractor shall also comply with the further restrictions imposed by the owner of the 23 roads as follows: 24 25 *** \$\$1\$\$ *** 26 27 1-07.7.OPT5.GR1 28 (March 13, 1995) 29 Whenever the Contractor obtains materials from a source other than that provided by the Contracting Agency, or provides a source for materials not designated to come from a 30 31 source provided by the State and the location of the source necessitates hauling on other 32 than State Highways, the Contractor shall, at the Contractor's expense, make all 33 arrangements for the use of the haul routes. 34 35 1-07.7.OPT6.GR1 36 (March 13, 1995) 37 If the sources of materials provided by the Contractor necessitates hauling over roads 38 other than State Highways, the Contractor shall, at the Contractor's expense, make all 39 arrangements for the use of the haul routes. 40 41 1-07.9.GR1 42 Wages 43 44 1-07.9(1).GR1 45 General 46 47 1-07.9(1).INST1.GR1 48 Section 1-07.9(1) is supplemented with the following: 49 1-07.9(1).OPT1.GR1 50 51 (January 9, 2023)

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The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20230001. The State rates incorporated in this contract are applicable to all construction activities associated with this contract. 1-07.9(1).OPT2.FR1 (January 9, 2023) The Federal wage rates for Highway Construction incorporated in this contract have

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20230001. These rates are applicable to highway construction.

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** \$\$1\$\$ ***. These rates are applicable to building construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT3.FR1

 (May 11, 2010)

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** \$\$1\$\$ ****. These rates are applicable to building construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT5.FR1

(January 9, 2023)

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20230001. These rates are applicable to highway construction.

The Federal wage rates for Heavy Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** \$\$1\$\$ ***. These rates are applicable to heavy construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT6.FR1

(January 9, 2023)

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20230001. These rates are applicable to highway construction.

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The Federal wage rates for Heavy Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** \$\$1\$\$ ***. These rates are applicable to heavy construction.

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** \$\$2\$\$ ****. These rates are applicable to building construction

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(3).GR1

Apprentices

1-07.9(3).INST1.GR1

Section 1-07.9(3) is supplemented with the following:

1-07.9(3).OPT1.GR1

(October 3, 2022)

Apprentice Utilization

This Contract includes an Apprentice Utilization Requirement. No less than 15 percent of project Labor Hours shall be performed by Apprentices.

Definitions

For the purposes of this specification the following definitions apply:

- Apprentice is a person enrolled in a State-approved Apprenticeship Training Program.
- 2. <u>Apprentice Utilization Requirement</u> is the Apprentice labor hours expressed as a percentage of the project Labor Hours.
- Good Faith Effort (GFE) is used if the Contractor doesn't meet the Apprentice Utilization Requirement. It describes the Contractor's efforts to meet the Apprentice Utilization Requirement including but not necessarily limited to the specific steps as described elsewhere in this specification.
- 4. <u>Labor Hours</u> are the total hours performed by all workers receiving an hourly wage who are directly employed upon the project including hours performed by workers employed by the Contractor and all subcontractors. Labor Hours do not include hours performed by foremen, superintendents, owners, and workers who are not subject to prevailing wage requirements.
- 5. <u>State-approved Apprenticeship Training Program</u> is an apprenticeship training program approved by the Washington State Apprenticeship Council.

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Electronic Reporting

The Contractor shall use the State L&I online Prevailing Wage Intent & Affidavit (PWIA) System to submit the "Apprentice Utilization Plan" and "Good Faith Effort" documentation. Reporting instructions are available in the application.

Apprentice Utilization Plan

The Contractor shall submit an "Apprentice Utilization Plan" by filling out the Apprentice Utilization Plan Form (WSDOT Form 424-004) within 30 calendar days of execution, demonstrating how and when they intend to achieve the Apprentice Utilization Requirement. The Plan shall be in sufficient detail for the Engineer to track the Contractor's progress in meeting the utilization requirements and be updated and resubmitted as the Work progresses or when ordered by the Engineer.

If the Contractor is unable to demonstrate ability to meet the Apprentice Utilization Requirement in their Apprentice Utilization Plan, they must submit GFE documentation to the State L&I online PWIA System for review and comment with their Apprentice Utilization Plan. The Contractor shall actively seek out opportunities to meet the Apprentice Utilization Requirement during the construction Work.

Contacts

The Contractor may obtain information on State-approved Apprenticeship Training Programs by contacting the Department of Labor and Industries at:

Specialty Compliance And Services Division, Apprenticeship Section, P.O. Box 44530, Olympia, WA 98504-4530 or by phone at (360) 902-5320.

Compliance

In the event that the Contractor is unable to achieve the Apprentice Utilization Requirement, the Contractor shall submit to the State L&I online PWIA System GFE documentation for review and approval. The GFE documentation shall be submitted after Substantial Completion but no later than 30 days after Physical Completion. If GFE documentation was previously submitted as part of the Apprentice Utilization Plan, it shall be updated and resubmitted after Substantial Completion but no later than 30 days after Physical Completion.

If the Contractor fails to submit GFE documentation or if the Engineer does not approve the GFE, the Contractor will be subject to disciplinary actions as allowed under WAC 468-16-180.

Good Faith Efforts

The GFE shall describe in detail why the Contractor is not or was not able to attain the Apprentice Utilization Requirement. The GFE documentation shall address one or more of the following areas:

- Correspondence on solicitation of Apprentices from a State-approved Apprenticeship Training Program(s), and the response from the solicited State-Approved Apprenticeship Training Program(s) when there is a lack of availability of Apprentices.
- 2. Provide documentation that shows Contract requirements for TERO, Special Training or Disadvantage Business Enterprise requirements affect the ability to obtain Apprentice Labor Hours on the Contract.

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3. Provide documentation demonstrating what efforts the Contractor has taken to require subcontractors to solicit and employ Apprentices. Documentation could be posters placed on site, emphasis in subcontracts about employing Apprentices, letters, memos or other correspondence from Contractor to subcontractor that put an emphasis on employing Apprentices.

Contractors may receive a GFE credit for graduated Apprentice hours through the end of the calendar year for all projects worked on as long as the Apprentice remains continuously employed with the same Contractor they were working for when they graduated. If an Apprentice graduates during employment on a project of significant duration, they may be counted towards a GFE credit for up to one year after their graduation or until the end of the project (whichever comes first). Determination of whether or not Contract requirements were met in good faith will be made by subtracting the hours from the journeyman total reported hours for the project and adding them to the apprentice hour total. If the new utilization percentage meets the Contract requirement, the Contractor will be reported as meeting the requirement in good faith.

Payment

All costs incurred by the Contractor for complying with this specification shall be included in the Contract prices for the Bid items of Work involved.

1-07.11.GR1

Requirements for Nondiscrimination

1-07.11.INST1.GR1

Section 1-07.11 is supplemented with the following:

1-07.11.OPT1.GR1

(October 3, 2022)

Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)

- The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.
- 2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

Timetable

Until further notice
6.9%
Minorities - by Standard Metropolitan Statistical Area (SMSA)

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1	Spokane, WA:	
2	SMSA Counties:	
3	Spokane, WA	2.8
4	WA Spokane.	
5	Non-SMSA Counties	3.0
6	WA Adams; WA Asotin; WA Columbia; WA Fer	
7	Lincoln, WA Pend Oreille; WA Stevens; WA Whitr	
8		
9	Richland, WA	
10	SMSA Counties:	
11	Richland Kennewick, WA	5.4
12	WA Benton; WA Franklin.	0.4
13	Non-SMSA Counties	3.6
		5.0
14	WA Walla Walla.	
15	Valima MA.	
16	Yakima, WA:	
17	SMSA Counties:	
18	Yakima, WA	9.7
19	WA Yakima.	
20	Non-SMSA Counties	7.2
21	WA Chelan; WA Douglas; WA Grant; WA Kittitas;	WA Okanogan.
22		
23	Seattle, WA:	
24	SMSA Counties:	
25	Seattle Everett, WA	7.2
26	WA King; WA Snohomish.	
27	Tacoma, WA	6.2
28	WA Pierce.	0.2
29	Non-SMSA Counties	6.1
30	WA Clallam; WA Grays Harbor; WA Island; WA J	
31		•
	WA Lewis; WA Mason; WA Pacific; WA San Ju	ian, wa skagn, wa
32	Thurston; WA Whatcom.	
33	D (I OD	
34	Portland, OR:	
35	SMSA Counties:	
36	Portland, OR-WA	4.5
37	WA Clark.	
38	Non-SMSA Counties	3.8
39	WA Cowlitz; WA Klickitat; WA Skamania; V	WA Wahkiakum.
40		
41	These goals are applicable to each nonexempt Contractor's total	al on-site construction
42	workforce, regardless of whether or not part of that workforce is	
43	a Federal, or federally assisted project, contract, or subcontract	
44	Compliance with these goals and time tables is enforced by	
45	Contract compliance Programs.	
46	Contract compliance i regiants.	
47	The Centractor's compliance with the Executive Order and the r	ogulations in 41 CED
	The Contractor's compliance with the Executive Order and the r	
48	Part 60-4 shall be based on its implementation of the Equal Opportunity Clause,	
49	specific affirmative action obligations required by the specifica	
50	CFR 60-4.3(a), and its efforts to meet the goals. The hours of	
51	employment and training must be substantially uniform throughout the length of the	
52	contract, in each construction craft and in each trade, and the C	Contractor shall make

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a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 or more that are Federally funded, at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed. The notification shall be sent to:

U.S. Department of Labor
Office of Federal Contract Compliance Programs Pacific Region
Attn: Regional Director
San Francisco Federal Building
90 – 7th Street, Suite 18-300
San Francisco, CA 94103(415) 625-7800 Phone
(415) 625-7799 Fax

4. As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as designated herein.

<u>Standard Federal Equal Employment Opportunity Construction Contract Specifications</u> (Executive Order 11246)

- 1. As used in these specifications:
 - a. Covered Area means the geographical area described in the solicitation from which this contract resulted;
 - b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;
 - d. Minority includes:
 - (1) Black, a person having origins in any of the Black Racial Groups of Africa.
 - (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.

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- (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.
- (4) American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
- 2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.
- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
- 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their

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- training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its action. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy

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with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- I. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

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- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- 11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its

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efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
- 16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

Washington State Dept. of Transportation Office of Equal Opportunity PO Box 47314 310 Maple Park Ave. SE Olympia WA 98504-7314 Pb: 360 705 7000

Ph: 360-705-7090 Fax: 360-705-6801

http://www.wsdot.wa.gov/equalopportunity/default.htm

1-07.11.OPT2.GR1

(October 3, 2022)

Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. As such, the requirements of this Contract are to make affirmative efforts to solicit DBEs, provide information on who submitted a Bid or quote and to report DBE participation monthly as described elsewhere in these Contract Provisions. No preference will be included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

DBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for

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the performance of the Contract, or, persons/companies who arrange or expedite transactions.

Certified Business Description – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory – A database of all Minority, Women, and Disadvantaged Business Enterprises. The on-line Directory is available to Contractors for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

Commercially Useful Function (CUF)

49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

Contract – For this Special Provision only, this definition supplements Section 1-01.3. 49 CFR 26.5 defines contract as: "... a legally binding relationship obligating a seller to furnish supplies or services (including, but not limited to, construction and professional services) and the buyer to pay for them. For purposes of this part, a lease is considered to be a contract."

Disadvantaged Business Enterprise (DBE) – A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

Force Account Work – Work measured and paid in accordance with Section 1-09.6.

Manufacturer (DBE) – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Regular Dealer (DBE) – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE

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firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

DBE Goals

No DBE goals have been assigned as part of this Contract.

Affirmative Efforts to Solicit DBE Participation

The Contractor shall not discriminate on the grounds of race, color, sex, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. DBE firms shall have an equal opportunity to compete for subcontracts in which the Contractor enters into pursuant to this Contract.

Contractors are encouraged to:

- Advertise opportunities for subcontractors or suppliers in a timely and reasonably designed manner to provide notice of the opportunity to DBEs capable of performing the Work. All advertisements should include a Contract Provision encouraging participation by DBE firms. This may be accomplished through general advertisements (e.g. newspapers, journals, etc.) or by soliciting Bids/Proposals directly from DBEs.
- 2. Establish delivery schedules that encourage participation by DBEs and other small businesses.
- 3. Participate with a DBE as a joint venture.

DBE Eligibility/Selection of DBEs for Reporting Purposes Only

Contractor may take credit for DBEs utilized on this Contract only if the firm is certified for the Work being performed, and the firm performs a commercially useful function (CUF).

Absent a mandatory goal, all DBE participation that is attained on this project will be considered as "race neutral" participation and shall be reported as such.

Crediting DBE Participation

All DBE subcontractors shall be certified before the subcontract on which they are participating is executed.

Be advised that although a firm is listed in the directory, there are cases where the listed firm is in a temporary suspension status. The Contractor shall review the OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not enter into new contracts that count towards participation.

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DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

DBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

DBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be credited only if the DBE's Lower-Tier subcontractor is also a DBE. Work subcontracted to a non-DBE shall not be credited.

Count expenditures toward race/gender-neutral participation only if the DBE is performing a CUF on the contract.

DBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE. The subcontract agreement shall incorporate requirements of the primary Contract. Subcontract agreements of all tiers, including lease agreements shall be readily available at the project site for the Engineer review.

DBE Service Provider

The value of fees or commissions charged by a DBE Broker, a DBE behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

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Temporary Traffic Control

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project. In addition, if the DBE firm utilizes the Contractor's equipment, such as Transportable Attenuators and Portable Changeable Message Signs (PCMS) no DBE credit can be taken for supplying and operating the items.

Trucking

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling.

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The Work that a DBE trucking firm performs with trucks it leases from other certified DBE trucking firms qualify for 100% DBE credit

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project. The DBE may lease trucks from a non-DBE truck leasing company, but can only receive credit as DBE participation if the DBE uses its own employees as drivers.

DBE credit for a truck broker is limited to the fee/commission that the DBE receives for arranging transportation services.

Truck registration and lease agreements shall be readily available at the project site for the Engineer review.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE Manufacturer can count as DBE participation.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited as DBE participation. If the role of the DBE Regular Dealer is determined to be that of a pass-through, then no DBE credit will be given for its services. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission

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it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

Regular Dealer DBE firms must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. The Regular Dealer must submit the Regular Dealer Status Request form a minimum of five days prior to being utilized on the specific project.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Procedures Between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

 A list of all firms who submitted a Bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past

three-years.

Procedures After Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install

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contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the Contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has
 exclusive use of and control over the truck(s). This does not preclude
 the leased truck from working for others provided it is with the
 consent of the DBE and the lease provides the DBE absolute priority
 for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

Joint Checking

A joint check is a check between a subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

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The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material and installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier is not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt Payment requirements apply to progress payments as well as return of retainage.

Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this Contract.

Decertification

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance

Each contract with a Contractor (and each subcontract the Contractor signs with a subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the Contractor from future bidding as non-responsible.

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Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT3.FR1

(October 3, 2022)

Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

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DBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

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Certified Business Description - Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory - A database of all Minority, Women, and Disadvantaged Business Enterprises currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

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Commercially Useful Function (CUF) - 49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

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Disadvantaged Business Enterprise (DBE) - A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

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Force Account Work – Work measured and paid in accordance with Section 1-09.6.

Good Faith Efforts – Efforts to achieve the DBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

Manufacturer (DBE) – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Reasonable Fee (DBE) – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

Regular Dealer (DBE) – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

DBE Commitment – The scope of work and dollar amount the Bidder indicates they will be subcontracting to be applied towards the DBE Condition of Award Goal as shown on the DBE Utilization Certification Form for each DBE subcontractor. This DBE Commitment will be incorporated into the Contract and shall be considered a Contract requirement. The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which they are committed. Any changes to the DBE Commitment require the Engineer's prior written approval.

DBE Condition of Award (COA) Goal – An assigned numerical amount specified as a percentage of the Contract. Initially, this is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE).

DBE COA Goal

The Contracting Agency has established a DBE COA Goal for this Contract in the amount of: *** \$\$1\$\$ ***

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Crediting DBE Participation

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE subcontractors shall be certified before the subcontract on which they are participating is executed.

DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

DBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

DBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces and is certified to perform. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

When the subcontractor is part of a DBE Commitment, the following apply:

- 1. If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the lower-tier subcontractor is also a DBE.
- Work subcontracted to a lower-tier subcontractor that is a DBE may be counted toward the DBE COA Goal only if the lower-tier subcontractor self performs a minimum of 30 percent of the Work subcontracted to them.
- Work subcontracted to a non-DBE does not count towards the DBE COA Goal.

DBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE.

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DBE Service Provider

The value of fees or commissions charged by a DBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

Force Account Work

When the Bidder elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization Certification Form, for the purposes of meeting DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Bidder's Commitment to meet the DBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards the DBE COA Goal or DBE participation.

Temporary Traffic Control

If the DBE firm only provides "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger(s), which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment for its employees (e.g. paddles, hard hats, and vests).

If the DBE firm provides "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

Trucking

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The DBE who leases additional trucks from another DBE firm receives credit for the value of the transportation services the lessee DBE provides on the Contract.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project.

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The DBE may lease trucks from a truck leasing company (recognized truck rental center) but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer may count towards the DBE COA Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited toward the DBE Goal. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

DBE firms proposed to be used as a Regular Dealer must be approved before being listed as a COA/used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the DBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five calendar days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on the job site, may toward the DBE COA Goal provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward the DBE Goal.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Disadvantaged Business Enterprise Utilization

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise (DBE) Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's DBE Utilization Certification must clearly demonstrate how the Bidder intends to meet the DBE COA Goal. A DBE Utilization Certification (WSDOT Form 272-056) is included in the Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the DBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

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In the event of arithmetic errors in completing the DBE Utilization Certification, the amount listed to be applied towards the DBE COA Goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note:

The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal.

Disadvantaged Business Enterprise Written Confirmation Document(s)

The Bidder shall submit a Disadvantaged Business Enterprise (DBE) Written Confirmation Document (completed and signed by the DBE) for each DBE firm listed in the Bidder's completed DBE Utilization Certification submitted with the Bid. Failure to do so will result in the associated participation being disallowed, which may cause the Bid to be determined to be nonresponsive resulting in Bid rejection.

The Confirmation Documents provide confirmation from the DBEs that they are participating in the Contract as provided in the Bidder's Commitment. The Confirmation Documents must be consistent with the Utilization Certification.

A DBE Written Confirmation Document (WSDOT Form 422-031) is included in the Proposal package for this purpose.

The form(s) shall be received as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

It is prohibited for the Bidder to require a DBE to submit a Written Confirmation Document with any part of the form left blank. Should the Contracting Agency determine that an incomplete Written Confirmation Document was signed by a DBE, the validity of the document comes into question. The associated DBE participation may not receive credit.

Selection of Successful Bidder/Good Faith Efforts (GFE)

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates a good faith effort to achieve the DBE COA Goal. The Contracting Agency, at any time during the selection process, may request a breakdown of the bid items and amounts that are counted towards the overall contract goal for any of the DBEs listed on the DBE Utilization Certification.

Achieving the DBE COA Goal may be accomplished in one of two ways:

By meeting the DBE COA Goal

Submission of the DBE Utilization Certification, supporting DBE Written Confirmation Document(s) showing the Bidder has obtained enough DBE participation to meet or exceed the DBE COA Goal, the DBE Bid Item Breakdown and the DBE Trucking Credit Form, if applicable.

2. <u>By documentation that the Bidder made adequate GFE to meet the DBE</u> COA Goal

The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder must supply GFE

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documentation in addition to the DBE Utilization Certification, supporting DBE Written Confirmation Document(s), the DBE Bid Item Breakdown form and the DBE Trucking Credit Form, if applicable.

Note:

In the case where a Bidder is awarded the contract based on demonstrating adequate GFE, the advertised DBE COA Goal will not be reduced. The Bidder shall demonstrate a GFE during the life of the Contract to attain the advertised DBE COA Goal.

GFE documentation, the DBE Bid Item Breakdown form, and the DBE Trucking Credit Form, if applicable, shall be submitted as specified in Section 1-02.9.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

Good Faith Effort (GFE) Documentation GFE is evaluated when:

1. Determining award of a Contract that has COA goal,

When a COA DBE is terminated and substitution is required, and

Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate DBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.

Providing interested DBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

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Negotiating in good faith with interested DBEs. It is the Bidder's responsibility to make a portion of the Work available to DBE subcontractors and suppliers and to select those portions of the Work

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or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the Work.

- b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the DBE COA Goal into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a Bidder's failure to meet the DBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Bidders are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- 4. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the DBE COA Goal.
- 5. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
- 6. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- 7. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- 8. Documentation of GFE must include copies of each DBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a DBE for Work on the Contract. (ref. updated DBE regulations 26.53(b)(2)(vi) & App. A)

Administrative Reconsideration of GFE Documentation

A Bidder has the right to request reconsideration if the GFE documentation submitted with their Bid was determined to be inadequate.

• The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.

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- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.
- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

DBE Bid Item Breakdown

The Bidder shall submit a DBE Bid Item Breakdown Form (WSDOT Form 272-054) as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

DBE Trucking Credit Form

The Bidder shall submit a DBE Trucking Credit Form (WSDOT Form 272-058), as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

Note:

The DBE Trucking Credit Form is only required for a DBE Firm listed on the DBE Utilization Certification as a subcontractor for "Trucking" or "Hauling" and are performing a part of a bid item. For example, if the item of Work is Structure Excavation including Haul, and another firm is doing the excavation and the DBE Trucking firm is doing the haul, the form is required. For a DBE subcontractor that is responsible for an entire item of work that may require some use of trucks, the form is not required.

Procedures between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note:

The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

Procedures after Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the

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Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the subcontractor beginning Work. Any use of the Contractor's equipment by a DBE may not be credited as countable participation.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has
 exclusive use of and control over the truck(s). This does not preclude
 the leased truck from working for others provided it is with the
 consent of the DBE and the lease provides the DBE absolute priority
 for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

Truck Unit Listing Log

In addition to the subcontracting requirements of Section 1-08.1, each DBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077) and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted in an electronic format to the Engineer prior to any trucking

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services being performed for DBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary Truck Unit Listing Log and any Updated Primary Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as DBE participation.

Each DBE trucking firm shall complete a Daily Truck Unit Listing Log for each day that the DBE performs trucking services for DBE credit. The Daily Truck Unit Listing Log forms shall be submitted by Friday of the week after the Work was performed by email to the following email address for the region administering the Contract:

Eastern Region - ERRegionOEO@wsdot.wa.gov North Central Region - NCRegionOEO@wsdot.wa.gov Northwest Region - NWRegionOEO@wsdot.wa.gov Olympic Region - ORegionOEO@wsdot.wa.gov South Central Region - SCRegionOEO@wsdot.wa.gov Southwest Region - SWRegionOEO@wsdot.wa.gov Washington State Ferries - FerriesOEO@wsdot.wa.gov

Joint Checking

A joint check is a check between a subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form to the Engineer and be in receipt of written approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

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Subcontracts

Prior to a DBE performing Work on the Contract, an executed subcontract between the DBE and the Contractor shall be submitted to the Engineer. The executed subcontracts shall be submitted by email to the following email address for the region administering the Contract:

Eastern Region – <u>ERRegionOEO@wsdot.wa.gov</u>
North Central Region – <u>NCRegionOEO@wsdot.wa.gov</u>
Northwest Region – <u>NWRegionOEO@wsdot.wa.gov</u>
Olympic Region – <u>ORegionOEO@wsdot.wa.gov</u>
South Central Region – <u>SCRegionOEO@wsdot.wa.gov</u>
Southwest Region – <u>SWRegionOEO@wsdot.wa.gov</u>
Washington State Ferries – <u>FerriesOEO@wsdot.wa.gov</u>

Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

Changes in COA Work Committed to DBE

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless prior written approval by the Engineer has been received by the Contractor. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs in the DBE Utilization Certification form.

Owner Initiated Changes

In instances where the Engineer makes changes that result in changes to Work that was committed to a COA DBE, the Contractor may be directed to substitute for the Work.

Contractor Initiated Changes

The Contractor cannot change the scope or reduce the amount of work committed to a COA DBE without good cause. Reducing DBE Commitment is viewed as partial DBE termination, and therefore subject to the termination procedures below.

Original Quantity Underruns

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor may be required to substitute other remaining Work to another DBE.

Contractor Proposed DBE Substitutions

Requests to substitute a COA DBE must be for good cause (see DBE termination process below), and requires prior written approval of the Engineer. After receiving a termination with good cause approval, the Contractor may only replace a DBE with another certified DBE. When any changes between

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Contract Award and Execution result in a substitution of COA DBE, the substitute DBE shall be certified prior to the bid opening on the Contract.

DBE Termination

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part for good cause and with prior written approval of the Engineer. If the Contractor terminates a COA DBE without the prior written approval of the Engineer, the Contractor shall not be entitled to payment for work or material committed to, but not performed/supplied by the COA DBE. In addition, sanctions may apply as described elsewhere in this specification.

Prior to requesting approval to terminate a COA DBE, the Contractor shall give notice in writing to the DBE with a copy to the Engineer of its intent to request to terminate DBE Work and the reasons for doing so. The DBE shall have five (5) days to respond to the Contractor's notice. The DBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

If the request for termination is approved, the Contractor is required to substitute with another DBE to perform at least the same amount of work as the DBE that was terminated (or provide documentation of GFE). A plan to replace the COA DBE Commitment amount shall be submitted to the Engineer within 2 days of the approval of termination. The plan to replace the Commitment shall provide the same detail as that required in the DBE Utilization Certification.

As mentioned above, the Contractor must have good cause to terminate a COA DBE.

Good cause typically includes situations where the DBE subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The DBE fails or refuses to execute a written contract.
- The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The DBE is ineligible to receive DBE credit for the type of work involved.
- The DBE voluntarily withdraws from the project and provides written notice of its withdrawal.

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- The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.
- The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA DBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the DBE's Work).

Decertification

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance Breach of Contract

Each contract with a Contractor (and each subcontract the Contractor signs with a subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the Contractor from future bidding as non-responsible.

Notice

If the Contractor or any subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in

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writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the UDBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the DBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT4.FR1

(November 2, 2022)

Special Training Provisions

General Requirements

The Contractor's equal employment opportunity, affirmative action program shall include the requirements set forth below. The Contractor shall provide on-the-job training aimed at developing trainees to journey-level status in the trades involved. The number of training hours shall be *** \$\$1\$\$ ***. Trainees shall not be assigned less than 400 hours per individual per Contract. The Contractor may elect to accomplish training as part of the work of a subcontractor, however, the Prime Contractor shall retain the responsibility for complying with these Special Provisions (achieving the training goal). When the Contractor's training plan includes trainees for subcontractors or lower-tier subcontractors, this special provision shall be included in the subcontract.

Trainee Approval

The Contractor shall make every effort to employ/enroll minority and women trainees to the extent such persons are available within a reasonable recruitment area. This training provision is not intended and shall not be used to discriminate against any applicant for training, whether that person is a minority, woman or otherwise. A non-minority male trainee or apprentice may be approved provided the following requirements are met:

- 1. The Contractor is otherwise in compliance with the contract's Equal Employment Opportunity (EEO) and On-the-Job Training (OJT) requirements and provides documentation of the efforts taken to fill the specific training position with either minorities or females
- 2. or, if not otherwise in compliance, furnishes evidence of his/her systematic and direct recruitment efforts in regard to the position in question and in promoting the enrollment and/or employment of minorities and females in the craft which the proposed trainee is to be trained

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- 3. and the Contractor has made a good faith effort towards recruiting of minorities and women. As a minimum good faith efforts shall consist of the following:
 - a. Distribution of written notices of available employment opportunities with the Contractor and enrollment opportunities with its unions. Distribution should include but not be limited to; minority and female recruitment sources, WSDOT's OJT Support Services Coordinator, and minority and female community organizations.
 - b. Records documenting the Contractor's efforts and the outcome of those efforts, to employ minority and female applicants and/or refer them to unions.
 - c. Records reflecting the Contractor's efforts in participating in developing minority and female on-the-job training opportunities, including upgrading programs and apprenticeship opportunities.
 - d. Distribution of written notices to unions and training programs disseminating the Contractor's EEO policy and requesting cooperation in achieving EEO and OJT obligations (and their written responses). For assistance in locating trainee candidates, the Contractor may call WSDOT's OJT Support Services Coordinator at (360) 705-7090 or email ojtssinfo@wsdot.wa.gov.

No employee shall be employed as a trainee in any classification in which the employee has successfully completed a training course leading to journey-level worker status or in which the employee has been employed as a journey-level worker. The Contractor's records shall document the methods for determining the trainee's status and findings in each case. When feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

For the purpose of this specification, acceptable training programs are those employing trainees/apprentices registered with the following:

- Washington State Department of Labor & Industries State Apprenticeship Training Council (SATC) approved apprenticeship agreement:
 - Pursuant to RCW 49.04.060, an apprenticeship agreement shall be:
 - an individual written agreement between an employer and apprentice
 - ii. a written agreement between (an employer or an association of employers) and an organization of employees describing conditions of employment for apprentices
 - iii. a written statement describing conditions of employment for apprentices in a plant where there is no bona fide employee organization.

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All such agreements shall conform to the basic standards and other provisions of RCW Chapter 49.04.

2. Apprentices must be registered with U.S. Department of Labor — Apprenticeship Training, Employer, and Labor Services (ATELS) approved program.

Or

3. Non-ATELS/SATC programs that have been submitted to the Contracting Agency for approval by the FHWA for the specific project.

Obligation to Provide Information

Upon starting a new trainee, the Contractor shall furnish the trainee a copy of the approved program the Contractor will follow in providing the training. Upon completion of the training, the Contractor shall provide the Contracting Agency with a certification showing the type and length of training satisfactorily completed by each trainee.

Training Program Approval

The Training Program shall meet the following requirements:

- 1. The Training Program (DOT Form 272-049) must be submitted to the Engineer for approval **prior to commencing contract work** and shall be resubmitted when modifications to the program occur.
- 2. The minimum length and type of training for each classification will be as established in the training program as approved by the Contracting Agency.
- 3. The Training Program shall contain the trades proposed for training, the number of trainees, the hours assigned to the trade and the estimated beginning work date for each trainee.
- 4. Unless otherwise specified, Training Programs will be approved if the proposed number of training hours equals the training hours required by contract and the trainees are not assigned less than 400 hours each.
- 5. After approval of the training program, information concerning each individual trainee and good faith effort documentation shall be submitted (on DOT Form 272-050).
- 6. Flagging programs will not be approved. Other programs that include flagging training will only be approved if the flagging portion is limited to an orientation of not more than 20 hours.
- 7. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower-level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Some off-site training is permissible as long as the training is an integral part of an approved training program.

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- 8. It is normally expected that a trainee will begin training on the project as soon as feasible after start of work, utilizing the skill involved and remain on the project as long as training opportunities exist in the work classification or the trainee reaches journey-level status. It is not required that all trainees be on board for the entire length of the contract. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.
- 9. Wage Progressions: Trainees will be paid at least the applicable ratios or wage progressions shown in the apprenticeship standards published by the Washington State Department of Labor and Industries. In the event that no training program has been established by the Department of Labor and Industries, the trainee shall be paid in accordance with the provisions of RCW 39.12.021, which reads as follows:

Apprentice workers employed upon public works projects for whom an apprenticeship agreement has been registered and approved with the State Apprenticeship Council pursuant to RCW 49.04, must be paid at least the prevailing hourly rate for an apprentice of that trade. Any worker for whom an apprenticeship agreement has not been registered and approved by the State Apprenticeship Council shall be considered to be a fully qualified journey-level worker, and, therefore, shall be paid at the prevailing hourly rate for journey-level worker.

Compliance

In the event that the Contractor is unable to accomplish the required training hours but can demonstrate a good faith effort to meet the requirements as specified, then the Contracting Agency will adjust the training goals accordingly.

Noncompliance and Sanctions

When a contractor violates EEO provisions of the contract, the Contracting Agency may impose damages in accordance with WSDOT's Equal Opportunity Compliance Program and the FHWA 1273. These damages consist of additional administrative costs including, but not limited to, the inspection, supervision, engineering, compliance, and legal staff time and expenses necessary for investigating, reporting, and correcting violations, as well as loss of federal funding, if any. Damages attributable to a contractor's violations of the EEO provisions may be deducted from progress payments due the Contractor. Before any money is withheld, the Contractor will be provided with a notice of the basis of the violations, the amount to be withheld and provided an opportunity to respond. The monetary value of the sanction will be calculated on a case-by-case basis and based on the damages incurred by the Contracting Agency.

The Contracting Agency's decision to recover damages for an EEO violation does not limit its ability to suspend or revoke the contractor's pre-qualification status or seek other remedies as allowed by federal or state law. In appropriate circumstances, the Contracting Agency may also refer the Contractor to other state or federal authorities for additional sanctions.

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Requirements for Non ATELS/SATC Approved Training Programs

Contractors who are not affiliated with a program approved by ATELS or SATC may have their training program approved (by FHWA) provided that the program is submitted for approval on DOT Form 272-049, and the following standards are addressed and incorporated in the Contractor's program:

- 1. The program establishes minimum qualifications for persons entering the training program.
- 2. The program shall outline the work processes in which the trainee will receive supervised work experience and training on-the-job and the allocation of the approximate time to be spent in each major process. The program shall include the method for recording and reporting the training completed shall be stated.
- 3. The program shall include a numeric ratio of trainees to journey-level worker consistent with proper supervision, training, safety, and continuity of employment. The ratio language shall be specific and clear as to application in terms of job site and workforce during normal operations (normally considered to fall between 1:10 and 1:4).
- 4. The terms of training shall be stated in hours. The number of hours required for completion to journey-level worker status shall be comparable to the apprenticeship hours established for that craft by the SATC. The following are examples of programs that are currently approved:

CRAFT	HOURS
Laborer	4,000
Ironworker	6,000
Carpenter	5,200-8,000
Construction Electrician	8,000
Operating Engineer	6,000-8,000
Cement Mason	5,400
Teamster	2,100

5. The method to be used for recording and reporting the training completed shall be stated.

Measurement

The Contractor may request that the total number of "training" hours for the contract be increased subject to approval by the Contracting Agency. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not prohibit other reimbursement. Reimbursement to the Contractor for off-site training as indicated previously may only be made when the Contractor does one or more of the following and the trainees are concurrently employed on a Federal-aid project:

- 1. contributes to the cost of the training,
- 2. provides the instruction to the trainee,
- 3. pays the trainee's wages during the off- site training period.

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Reimbursement will be made upon receipt of a certified invoice that shows the related payroll number, the name of trainee, total hours trained under the program, previously paid hours under the contract, hours due this estimate, and dollar amount due this estimate. The certified invoice shall show a statement indicating the Contractor's effort to enroll minorities and women when a new enrollment occurs. If a trainee is participating in a SATC/ATELS approved apprenticeship program, a copy of the certificate showing apprenticeship registration must accompany the first invoice on which the individual appears. Reimbursement for training occurring prior to approval of the training program will be allowed if the Contractor verbally notifies the Engineer of this occurrence at the time the apprentice/trainee commences work. A trainee/apprentice, regardless of craft, must have worked on the contract for at least 20 hours to be eligible for reimbursement.

Training hours that are not in compliance with the approved training plan will not be measured.

Payment

The Contractor will be reimbursed under the item "Training" per hour for each hour of approved training provided under the Contract.

1-07.11.OPT6.FR1

(October 3, 2022)

Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprises (MWBE) Participation

General Statement

The participation of minority, small, veteran-owned, and women business enterprises are an important strategic objective for the State of Washington. Contractors shall not create barriers to open and fair opportunities for all businesses, including MWBEs and SVBEs, to participate in the Work on this Contract.

SVBE and MWBE Abbreviations and Definitions

Broker - A business firm that provides a bona fide service, that assists in the procurement of personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or persons/companies who arrange or expedite transactions (i.e., arranging a transaction or service but does not provide a work product or enhancement).

Commercially Useful Function (CUF) – A firm performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by performing, managing, and supervising the work involved. To perform a commercially useful function, the firm must also be responsible, with respect to materials and supplies used on the contract, for ordering, negotiating price, paying for, determining quality and quantity, and installing (where applicable) for the material itself.

The SVBE or MWBE firm does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or Project through which the funds are passed to obtain the appearance of SVBE or MWBE participation.

Good Faith Efforts – Efforts to achieve either the SVBE Condition of Award (COA) goals at the time of Bid or the SVBE Commitments in the SVB Plan at the completion

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of the project. The efforts will demonstrate, by their scope, intensity, and appropriateness to the objective, that the bidder can reasonably be expected to fulfill the program requirement.

Manufacturer (SVBE or MWBE) – An SVBE or MWBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Minority Business Enterprise (MBE) – A minority owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women's Business Enterprises.

MWBE Goals (Voluntary) – Efforts to provide MWBE opportunities are encouraged in accordance with these Specifications and RCW 39.19.

Goals for voluntary MWBE participation have been established as a percentage of Contractor's total Bid amount.

The Contracting Agency has established the following two voluntary goals:

Minority 10% Women 6%

Small Business Enterprise (SBE) – Any business that is owned and operated independently from all other businesses, has either fifty or fewer employees or has a gross revenue of less than seven million dollars annually as listed on federal tax returns or with the Washington State Department of Revenue, and is self-certified through the Washington State Department of Enterprise Services and listed as a "small, mini or micro business" in its certification.

Small businesses can be located by searching the directories at:

https://pr-webs-vendor.des.wa.gov/

Information on how to search the WEBS directories is located at:

https://www.des.wa.gov/services/contracting-purchasing/doing-business-state/webs-registration-search-tips

SVBE COA Goals – At the time of bid, this is the minimum dollar amount of participation that the Bidder must commit to by submission of the SVB Plan and/or by Good Faith Effort (GFE). Each goal is expressed as a percentage of the Bid amount (as shown on the Proposal). There are two separate COA Goals that must be met: one for Small Business Enterprises and one for Veteran-Owned Businesses.

The Contracting Agency has established the following two enforceable COA Goals:

Small Business Enterprise (SBE) Goal *** \$\$1\$\$ *** Veteran-Owned Business (VOB) Goal *** \$\$2\$\$ ***

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SVBE Commitment – The dollar amount and scope of work the Bidder indicates on each line of their Small and Veteran-Owned Business Plan (SVB Plan) (WSDOT Form 226-018) for each SBE or VOB firm. These Commitments will be incorporated into the Contract and shall be considered Contract requirements.

Subcontractor (SVBE or MWBE) – An individual, partnership, firm, corporation, or joint venture who meet the definition of a Minority, Small Business, Women or Veteran-Owned Business and who is sublet part of the Contract.

Supplier (SVBE or MWBE) – A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Supplier, the SVBE or MWBE firm must be an established business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Supplier in such items as steel, cement, gravel, stone, and petroleum products need not own, operate, or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of suppliers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Suppliers within the meaning of this definition.

Veteran-Owned Business (VOB) – A veteran-owned business meeting the requirements of RCW 43.60A.010 and listed at: https://pr-webs-vendor.des.wa.gov/.

Information on how to search the WEBS directories is located at:

https://www.des.wa.gov/services/contracting-purchasing/doing-business-state/webs-registration-search-tips

Women Business Enterprise (WBE) – A women owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women's Business Enterprises.

Procedures Prior to Award SVBE Goals (Enforceable) SVBE COA Goals

The Contractor shall submit their SVB Plan (WSDOT Form 226-018) to demonstrate attainment of the SBE and VOB COA Goals. SBE and VOB Goals are independent. Work shown in the SVB Plan shall not apply to both SBE and VOB Goals. If the Contractor cannot meet these goals, a Good Faith Effort (GFE) is required.

Demonstrating compliance with the SBE and VOB COA Goals is a Condition of Award of this Contract. Failure to comply with these requirements may result in the Bid being found nonresponsive.

SVBE Commitment

The Contractor is required to utilize each SBE or VOB firm identified on their SVB Plan (WSDOT Form 226-018) for each scope of work and dollar amount listed. A firm that is registered as both a SBE and VOB may split the

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1 total commitment between VOB and SBE to attain the SBE and VOB COA 2 Goals. 3 4 **SVB Plan** 5 To be eligible for award of the Contract, the Bidder shall properly complete and 6 submit a Small and Veterans-Owned Business Plan. (SVB Plan). The SVB Plan 7 shall be submitted on WSDOT Form 226-018. The Bidder's SVB Plan shall be 8 submitted as specified in Section 1-02.9. The SVB Plan must clearly 9 demonstrate how the Bidder intends to meet both the SBE and VOB COA Goals. 10 An SVB Plan (WSDOT Form 226-018) and instructions on how to properly fill out the form are included in the Proposal package. 11 12 13 When the Bidder elects to utilize force account Work to meet the SBE or VOB COA Goals, as shown on its SVB Plan, the Bidder shall not commit more than 14 15 50% of the force account bid item amount. 16 17 In the event of arithmetic errors in completing the SVB Plan, the amount listed 18 to be applied towards the SBE or VOB Goals for each SVBE firm shall govern 19 and the SVBE total amount shall be adjusted accordingly. 20 21 To be eligible for inclusion in the SVB Plan, SBE or VOB firms committed must 22 be certified as described herein prior to the due date for bids on the Contract. 23 24 **Written Confirmation** 25 Prior to the award of the Contract and as specified in Section 1-02.9, the 26 Contractor shall submit Subcontractor Written Confirmation Form (WSDOT 27 Form 226-017) documentation from each SVBE firm listed on the SVB Plan 28 confirming their participation on the Contract for each amount listed in the SVB 29 Plan. 30 31 Selection of Successful Bidder/Good Faith Efforts (GFE) 32 The Contracting Agency will consider as non-responsive and will reject any Bid 33 Proposal submitted that does not contain a properly completed SVB Plan that 34 shows compliance with the SBE and VOB COA goals. 35 36 Compliance with the SVBE COA Goals requirements may be accomplished in 37 one of two ways: 38 39 By meeting the SVBE COA Goals Submission of the SVB Plan, showing the Bidder has obtained 40 41 enough SBE or VOB participation to meet or exceed each of the 42 SVBE COA Goals 43 2. 44 By documentation that the Bidder made adequate GFE to meet the 45 **SVBE COA Goals** 46 47 The Bidder may demonstrate a GFE in whole or part through GFE 48 documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient SVBE 49 participation have been unsuccessful. The Bidder must supply GFE 50 documentation in addition to the SVB Plan. 51 52 GFE documentation shall be submitted as specified in Section 1-02.9.

Document Submittal Requirements

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate GFE.

GFE Documentation Prior to Award

GFE is evaluated when determining award of a Contract that has SVBE COA Goals. The efforts employed by the Bidder should be commercially reasonable and demonstrate they are actively and aggressively trying to fulfill the established SVBE COA Goals. Mere pro forma efforts are not commensurate with a GFE.

The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve SVBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases:

- 1. Soliciting through all reasonable and available means (e.g., attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified SVBE firms who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the SVBE to respond to the solicitation. The Bidder must determine with certainty if the SVBE firms are interested by taking appropriate steps to follow up initial solicitations.
- Selecting portions of the Work to be performed by SVBEs to increase
 the likelihood that the SVBE COA Goals will be achieved. This
 includes, where appropriate, breaking out Contract Work items into
 economically feasible units to facilitate SVBE participation, even
 when the Bidder might otherwise prefer to perform these Work items
 with its own forces.
- 3. Providing interested SVBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.
 - a. Negotiating in good faith with interested SVBEs. It is the Bidder's responsibility to make a portion of the Work available to SVBEs and to select those portions of the Work or material needs consistent with the available SVBEs, to facilitate SVBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of SVBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for SVBE firms to perform the Work.
 - b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including SVBE subcontractors, and would take a firm's price and capabilities as well as the SVBE COA Goals into consideration. However, the fact that there may be some additional costs involved in finding and

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using SVBEs is not in itself sufficient reason for a Bidder's failure to meet the SVBE COA Goals, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make a GFE. Bidders are not, however, required to accept higher quotes from SVBE firms if the price difference is excessive or unreasonable.

- 4. Not rejecting SVBE firms as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the SVBE COA Goals.
- 5. Making efforts to assist interested SVBE firms in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
- 6. Making efforts to assist interested SVBE firms in obtaining necessary equipment, supplies, materials, or related assistance or services.
- 7. Effectively using the services of available organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of SVBE firms.
- Documentation of GFE must include copies of each SVBE and non-SVBE subcontractor quotes submitted to the Bidder when a non-SVBE subcontractor is selected over a SVBE for Work on the Contract.

Administrative Reconsideration of GFE Documentation Prior to Award
A Bidder has the right to request reconsideration if the GFE documentation submitted with their Bid was determined to be inadequate:

- 1. The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- 3. Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.
- 4. The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing

3 **Procedures After Execution** 4 5 **MWBE Plan** 6 The Contractor shall submit a MWBE Participation Plan as a Type 2 Working 7 Drawing within 21 days after execution. The plan shall include the information 8 identified in the guidelines at: 9 10 https://wsdot.wa.gov/sites/default/files/2021-10/OEOWSDOTParticpationPlanDraftingGuidelines.pdf 11 12 13 The Contractor shall submit an updated MWBE Participation Plan annually on 14 the date the original Participation Plan was submitted. The Contractor shall 15 provide a 30-calendar day review period for WSDOT review and comment on all 16 MWBE Participation Plan submittals. 17 18 **Commercially Useful Function (CUF)** 19 For SVBE and MWBE subcontractor and lower tier subcontractors, a valid 20 subcontract must fully describe the Scope of Work committed to be performed 21 by the firm. The subcontract shall incorporate requirements of the Contract. 22 Subcontracts of all tiers, including lease agreements, shall be made available 23 upon request. 24 25 The Contractor may only take credit for the payments made for work performed 26 by a SVBE or MWBE that is determined to be performing a CUF. Payment must 27 be commensurate with the work performed by the SVBE or MWBE. A SVBE or 28 MWBE that does not perform all of its responsibilities on a contract has not 29 performed a CUF and their work cannot be counted toward SVBE or MWBE 30 Goals. 31 32 Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease 33 34 agreements shall be readily available for review by the Engineer. 35 36 For a SVBE or MWBE traffic control company to be considered to be performing 37 a CUF, the firm must be in control of its work inclusive of supervision. The firm 38 shall employ a Traffic Control Supervisor who is directly involved in the 39 supervision of the traffic control employees and services. 40 41 Crediting Participation 42 Participation will be evaluated to determine if the Contractor has met both the 43 SVBE Commitments and MWBE Goals at completion of the project. 44 45 All non-COA SVBE firms and MWBE firms shall be certified before the 46 subcontract on which they are participating is executed. 47 48 When a SVBE or MWBE firm loses its certification, the participation of that SVBE 49 or MWBE firm shall continue to count as SVBE or MWBE participation as long as the subcontract with the SVBE or MWBE firm was executed prior to the date 50 51 the SVBE or MWBE firm lost its certification. 52

explaining the basis for their finding and at least 48 hours prior to

award.

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Only take credit for that portion of the total dollar value of the work that is equal to the distinct, clearly defined portion of the Work that the SVBE or MWBE performs with its own forces. The value of work performed by the SVBE or MWBE includes the cost of supplies and materials purchased by the SVBE or MWBE and equipment leased by the SVBE or MWBE, for its work on the Contract. Supplies, materials, or equipment obtained by a SVBE or MWBE that are not utilized or incorporated in the Contract work by the SVBE or MWBE will not be eligible for SVBE or MWBE credit.

The supplies, materials, and equipment purchased or leased from the Prime Contractor or its affiliate, including any Contractor's resources available to SVBE or MWBE subcontractors at no cost, shall not be credited.

SVBE or MWBE credit will not be given in instances where the equipment lease includes the operator. The SVBE or MWBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the SVBE or MWBE, but payment is deducted from the Contractor's payment to the SVBE or MWBE is not allowed.

SVBE Commitment

Payments to each SBE or VOB firm shall demonstrate that the Commitments amounts have been met as shown on the SVB Plan.

Participation is credited to the SVBE Commitments upon payment to the SBE or VOB.

MWBE Goals

Amounts paid to a MWBE will be credited to every MWBE Goal for which they are eligible. Participation may be credited for more than one category.

Participation is credited to the MWBE Goals upon payment to the eligible MWBE.

Prime Contractor Credit for Participation (SVBE or MWBE)

Only take credit for that portion of the Work performed that the SVBE or MWBE Prime Contractor did not sublet to other firms.

Subcontractor Credit for Participation

When the Prime contractor, subcontractor or lower tier subcontractor are part of a SVB or MWBE Plan, the following apply:

- If a Prime Contractor, subcontractor, or lower tier subcontractor subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the SBE or VOB Commitments based on the following conditions:
 - a. If a SBE Prime Contractor, subcontractor, or lower tier subcontractor subcontracts to a SBE the value can count toward the SBE Commitment.

- b. If a SBE Prime Contractor, subcontractor or lower tier subcontractor subcontracts to a non-SBE, the value cannot count toward the SBE Commitment.
- c. If a VOB Prime Contractor, subcontractor, or lower tier subcontractor subcontracts with a VOB the value can count toward the VOB Commitment.
- d. If a VOB Prime Contractor, subcontractor, or lower tier subcontractor subcontracts with a non-VOB the value cannot count toward the VOB Commitment.
- e. Work subcontracted to a non-SVBE does not count towards the SVBE Commitments.
- 2. If a Prime Contractor, subcontractor, or lower tier subcontractor subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the MWBE Goals based on the following conditions:
 - a. Work subcontracted to a non-MWBE cannot be counted toward the MWBE goals.
 - b. Work subcontracted to another MWBE can be counted toward every MWBE goal for which the firm holds a certification.
 - c. Work subcontracted by a MWBE firm who also is a SVBE, will be credited toward the SVBE Commitment as described in section 1.
 - d. Work subcontracted to a non-MWBE cannot be counted toward the MWBE goals.

Broker Credit for Participation

When a SVBE or MWBE participates as a broker (i.e., arranging a transaction or service but does not provide a work product or enhancement), only the dollar value of the reasonable fee may count toward the SVBE Commitments or MWBE Goals. For purposes of SVBE or MWBE Brokers, a reasonable fee shall not exceed 5 percent of the total cost of the goods or services brokered.

Manufacturer and Supplier Credit for Participation

If materials or supplies are obtained from a SVBE or MWBE Manufacturer, one hundred percent (100%) of the cost of materials or supplies can count toward the SVBE Commitments or MWBE Goals.

One hundred percent (100%) of the cost of materials or supplies purchased from a SVBE or MWBE Supplier may be credited toward meeting the SVBE Commitments or MWBE Goals. If the role of the SVBE or MWBE Supplier is determined to be that of a pass-through, then no credit will be given for its services. If the role of the SVBE or MWBE Supplier is determined to be that of a Broker, then credit shall be limited to the fee or commission it

receives for its services, subject to the provision listed in "Broker Credit for Participation."

Force Account Work

One hundred percent (100%) of the actual amounts paid to a SVBE or MWBE shall count toward the SVBE Commitments or MWBE Goals.

Service Provider Credit for Participation

When a SVBE or MWBE participates as a service provider or consultant and provides a bona fide service such as professional, technical, consultant, or managerial services, 100% of the total cost counts toward the SVBE Commitments or MWBE Goals if the firm performs a CUF.

Trucking Credit for Participation

SVBE or MWBE trucking firm participation may only be credited as participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the firm's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine credit for hauling.

The SVBE or MWBE trucking firm must own and operate at least one licensed, insured, and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The firm receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The SVBE or MWBE firm may lease additional trucks from another SVBE or MWBE firm. The Work that a SVBE or MWBE trucking firm performs with trucks it leases from other certified trucking firms qualify for 100% credit.

The trucking Work subcontracted to any non-SVBE or MWBE trucking firm will not receive credit for Work done on the project. The SVBE or MWBE trucking firm may lease trucks from a non-SVBE or MWBE truck leasing company but can only receive credit as SVBE or MWBE participation if the SVBE or MWBE firm uses its own employees as drivers.

SVBE or MWBE credit for a truck broker is limited to the fee/commission that the firm receives for arranging transportation services, subject to the provision listed in "Broker Credit for Participation."

Reporting Participation for Credit

The Contractor and any subcontractor, supplier, service provider, broker, or manufacturer of any tier that utilize SVBE or MWBE firms to perform Work on the project, shall maintain appropriate records that will enable the Engineer to verify SVBE and MWBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract. The Contractor shall report amounts paid in accordance with Section 1-08.1 in order to receive credit for participation.

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Changes in SVBE Commitment

The Contractor shall utilize the SVBE Commitment (COA) firms to perform all of the Work and supply all of the materials for which each is committed unless otherwise approved in writing by the Engineer. Any reduction in the Work committed to any SVBE Commitment (COA) firm, or performance of Work previously designated for a SVBE Commitment (COA) firm by any other firm or by the Contractor's own forces, shall be considered a termination, and requires the prior written consent of the Engineer. Termination requests shall be submitted in writing to the Engineer, who shall either grant or deny such request in writing. No termination shall become effective unless and until the Engineer provides written approval. Changes to SVBE Commitments will be documented in accordance with Section 1-04.4 and shall be considered amendments to the Contractor's SVB Plan.

Approval of SBE Termination

Termination of a SVBE Commitment (COA) firm is only allowed in whole or in part for good cause and with written approval of the Engineer. If a SVBE Commitment (COA) firm is terminated without the written approval of the Engineer, the Contractor shall not be entitled to payment for Work or material committed to, but not performed/supplied by, the SVBE Commitment (COA) firm. In addition, the Contractor may be subject to the remedies set forth elsewhere in this Special Provision.

Prior to requesting approval to terminate a SVBE Commitment (COA) firm, the Contractor shall give notice in writing to the SVBE Commitment (COA) firm with a copy to the Engineer of its intent to request to terminate SVBE Commitment (COA) Work and shall cite the cause for doing so, with supporting documentation. The SVBE Commitment (COA) firm shall have five (5) days to respond to the Contractor's notice. The SVBE Commitment (COA) firm's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination.

Cause for Termination

The Contractor must have good cause to terminate a SVBE Commitment (COA) firm. Good cause includes situations where the SVBE Commitment (COA) firm is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The SVBE Commitment (COA) firm fails or refuses to execute a written contract.
- The SVBE Commitment (COA) firm fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards.
- 3. The SVBE Commitment (COA) firm fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- 4. The SVBE Commitment (COA) firm becomes bankrupt, insolvent, or exhibits credit unworthiness.

- The SVBE Commitment (COA) firm is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- 6. The SVBE Commitment (COA) firm is ineligible to receive SVBE COA credit for the type of work involved.
- 7. The SVBE Commitment (COA) firm voluntarily withdraws from the project and provides written notice of its withdrawal.
- The SVBE Commitment (COA) firm's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- 9. The SVBE Commitment (COA) firm's owner dies or becomes disabled with the result that the SVBE Commitment (COA) firm is unable to complete its work on the Contract.

Good cause does not exist if:

- 1. The Contractor seeks to terminate a SVBE Commitment (COA) firm so that the Contractor can self-perform the work.
- The Contractor seeks to terminate a SVBE Commitment (COA) firm so the Contractor can substitute another SVBE firm or non-SVBE firm after Contract Award.
- The failure or refusal of the SVBE Commitment (COA) firm to perform its work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the SVBE Commitment (COA) firm's Work).

Owner-Initiated Changes

In instances where the Engineer makes changes that result in changes to Work that was part of a SVBE Commitment, the Contractor may be directed to substitute for the Work. The Contractor shall notify the Engineer if any owner-initiated change impacts the SVBE commitment, prior to any changes to the Contract. Changes will be addressed in accordance with Section 1-04.4.

Contractor-Initiated Changes

The Contractor cannot change the scope or reduce the amount of Work as part of a SVBE Commitment without good cause. Reducing a SVBE Commitment is viewed as a partial termination, and therefore subject to the termination procedures above.

Quantity Underruns

If a variation in estimated quantities occurs that affects a SVBE Commitment, that unmet Commitment will not be considered a termination, provided that the Contractor can demonstrate that the variation in quantities

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directly impacted the Commitment. The Contractor shall provide such documentation if requested by the Engineer.

The Contractor may be required to substitute other remaining Work to another SVBE firm to meet the dollar amounts committed to in their SVB Plan.

Good Faith Effort (GFE) Documentation After Execution

If the Contractor fails to fulfill the SVBE Commitment to in their SVB Plan, a Good Faith Effort shall be submitted for approval. GFE documentation shall follow the requirements for GFE Documentation Prior to Award.

In addition, the GFE shall address the impact of overruns and underruns on the ability of the Contractor to meet the dollar amounts committed to in their SVB Plan. Overruns and underruns may be considered a reason for not attaining the SVBE dollar amounts committed to in their SVB Plan. The GFE shall include enough information for the Engineer to evaluate the impact the overrun or underrun had on the SVBE participation.

Administrative Reconsideration of GFE Documentation After Execution When the Contracting Agency's GFE documentation review determines a GFE has no merit, the Contractor has the right to request reconsideration of the Contracting Agency's determination.

- The Contractor must request reconsideration within five (5) working days of notification of GFE documentation being deemed inadequate.
- 2. The reconsideration decision on the adequacy of the Contractor's GFE documentation shall be made by an official who did not take part in the original determination.
- Only original GFE documentation submitted shall be considered. The Contractor shall not introduce new documentation at the reconsideration hearing.
- The Contractor shall have the opportunity to meet in person with the official for the purpose of setting forth the Contractor's position as to why the GFE documentation demonstrates a sufficient effort.
- 5. The reconsideration official shall provide the Contractor with a written decision on reconsideration within five (5) working days of the hearing, explaining the basis for their finding.

Remedies for Failure to Meet SVBE Requirements

Upon completion of a project, a Prime Contractor Performance Report will document whether the Contractor met the Commitments in their SVB Plan or GFE. Failure to meet the Commitments in the SVB Plan or provide an acceptable GFE may lead to the following:

Suspension of a Contractor's pregualification; and/or

2. Withholding from the Contractor of an amount up to the value of the un-met SBE or VOB Commitments

Failure to utilize the SVBE Commitment (COA) firms listed in the SVB Plan for the Work for which they were listed, unless termination was approved in in writing by the Contracting Agency, will be reflected on the Prime Contractor Performance Report.

Payment

Compensation for all costs involved with complying with the conditions of this Special Provision and any other associated SVBE or MWBE requirements are included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT7.FR1

(October 3, 2022)

Federal Small Business Enterprise Participation

The Federal Small Business Enterprise (FSBE) Program is an element of the Disadvantaged Business Enterprise (DBE) in accordance with the requirements of 49 CFR Part 26.39. Failure to comply with the requirements of this Specification may result in sanctions as provided by the Contract.

FSBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

Certified Business Description – Specific descriptions of work the FSBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory – A database of all Minority, Women, and Disadvantaged Business Enterprises, including those identified as a FSBE, currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from FSBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

Firms certified by OMWBE as SBE, DBE can be used to fulfill the FSBE mandatory goal on a project.

Commercially Useful Function (CUF) – 49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine

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whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

FSBE – A firm certified by OMWBE as meeting Federal requirements of a small business enterprise. All firms on the OMWBE Certified Firm Directory with the designation of SBE or DBE are FSBEs.

Good Faith Efforts – Efforts to achieve the FSBE Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

Manufacturer (FSBE) – A FSBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A FSBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Reasonable Fee (FSBE) – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

Regular Dealer (FSBE) – A FSBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the FSBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

FSBE Goal

The Contracting Agency has established a FSBE Goal for this Contract in the amount of: *** \$\$1\$\$ ***

Crediting FSBE Participation

All FSBE subcontractors shall be certified before the subcontract on which they are participating is executed.

FSBE participation is only credited upon payment to the FSBE.

The following are some definitions of what may be counted as FSBE participation.

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FSBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the FSBE Prime Contractor performs with its own forces and is certified to perform.

FSBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the FSBE performs with its own forces and is certified to perform. The value of work performed by the FSBE includes the cost of supplies and materials purchased by the FSBE and equipment leased by the FSBE, for its work on the contract. Supplies, materials or equipment obtained by a FSBE that are not utilized or incorporated in the contract work by the FSBE will not be eligible for FSBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to FSBE subcontractors at no cost, shall not be credited.

FSBE credit will not be given in instances where the equipment lease includes the operator. The FSBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the FSBE, but payment is deducted from the Contractor's payment to the FSBE is not allowed.

When the subcontractor is a FSBE, the following apply:

- If a FSBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the FSBE Goal only if the lower-tier subcontractor is also a FSBE.
- 2. Work subcontracted to a non-FSBE does not count towards the FSBE Goal nor FSBE participation.

FSBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the FSBE.

FSBE Service Provider

The value of fees or commissions charged by a FSBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as FSBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

Temporary Traffic Control

If the FSBE firm is being utilized in the capacity of only "Flagging", the FSBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the FSBE. The FSBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

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If the FSBE firm is being utilized in the capacity of "Traffic Control Services", the FSBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

Trucking

FSBE trucking firm participation may only be credited as FSBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the FSBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine FSBE credit for hauling

The FSBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The FSBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The FSBE may lease additional trucks from another FSBE firm. The FSBE who leases additional trucks from another FSBE firm receives credit for the value of the transportation services the lessee FSBE provides on the Contract.

The trucking Work subcontracted to any non-FSBE trucking firm will not receive credit for Work done on the project.

The FSBE may lease trucks from a truck leasing company (recognized truck rental center), but can only receive credit towards FSBE participation if the FSBE uses its own employees as drivers.

FSBE Manufacturer and FSBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a FSBE manufacturer can count as FSBE participation. If the manufacturer is a FSBE, participation may count towards the FSBE Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a FSBE Regular Dealer may be credited as FSBE Participation. If the role of the FSBE Regular Dealer is determined to be that of a Broker, then FSBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis. If the regular dealer is a FSBE, participation may count towards the FSBE Goal.

FSBE firms proposed to be used as a Regular Dealer must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of FSBE Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form and receive approval prior to providing any equipment or materials or the signing of a purchase order, invoice, or subcontract.

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Purchase of materials or supplies from a FSBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as FSBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the FSBE. The cost of the materials and supplies themselves cannot be counted toward as FSBE participation.

Good Faith Effort Documentation

GFE is evaluated prior to Physical Completion when determining whether the Contractor has satisfied its FSBE Goal.

The Contracting Agency will measure GFE using the guidance in 49 CFR Part 26, Appendix A. The following is a list of the types of actions which may be considered as part of the Contractor's GFE to achieve FSBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

- 1. Solicited through all reasonable and available means the interest of all certified FSBEs who had the capability to perform the Work of the Contract. The Contractor must have solicited this interest within sufficient time to allow the FSBEs to respond to the solicitation. The Contractor must have determined with certainty that the FSBEs were interested by taking appropriate steps to follow up initial solicitations with potential FSBEs.
- Selected portions of the Work to be performed by FSBEs in order to increase the likelihood that the FSBE Goal would be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate FSBE participation, even when the Contractor might otherwise prefer to perform these Work items with its own forces.
- 3. Provided interested FSBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.
 - a. Negotiated in good faith with interested FSBEs. It is the Contractor's responsibility to make a portion of the Work available to FSBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available FSBE subcontractors and suppliers, so as to facilitate FSBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of FSBEs that were contacted; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for FSBEs to perform the Work.
 - A Contractor using good business judgment would consider a number of factors in negotiating with subcontractors, including FSBE subcontractors, and would take a firm's price and capabilities as well

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as the FSBE Goal into consideration. The fact that there may be some additional costs involved in finding and using FSBEs is not in itself sufficient reason for a Bidder's failure to meet the FSBE Goal. as long as such costs are reasonable. Also, the ability or desire of a Contractor to perform the Work of a Contract with its own organization does not relieve the Contractor of the responsibility to make Good Faith Efforts. Contractors are not, however, required to accept higher quotes from FSBEs if the price difference was excessive or unreasonable.

Not rejecting FSBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. nonunion employee status) are not legitimate causes for the rejection or nonsolicitation of bids in the Contractor's efforts to meet the FSBE Goal.

Made efforts to assist interested FSBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.

Made efforts to assist interested FSBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

Effectively used the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of FSBEs.

Documentation of GFE must include copies of each FSBE and non-FSBE subcontractor quotes submitted to the Bidder when a non-FSBE subcontractor is selected over a FSBE for Work on the Contract.

Procedures after Execution

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Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a FSBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the FSBE. This applies to all FSBEs performing Work on a project, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether FSBEs are performing a CUF. A FSBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The FSBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a FSBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward FSBE Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the Subcontractor beginning Work. Any use of the Contractor's equipment by a FSBE may not be credited as countable participation.

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The FSBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of FSBE participation.

In order for a FSBE traffic control company to be considered to be performing a CUF, the FSBE must be in control of its work inclusive of supervision. The FSBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The following are some of the factors that the Engineer will use in determining whether a FSBE trucking company is performing a CUF:

- The FSBE shall be responsible for the management and supervision
 of the entire trucking operation for which it is responsible on the
 contract. The owner demonstrates business related knowledge,
 shows up on site and is determined to be actively running the
 business.
- The FSBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the FSBE must be exclusively employed by the FSBE and reflected on the FSBE's payroll.
- Lease agreements for trucks shall indicate that the FSBE has
 exclusive use of and control over the truck(s). This does not preclude
 the leased truck from working for others provided it is with the
 consent of the FSBE and the lease provides the FSBE absolute
 priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the FSBE.

Truck Unit Listing Log

In addition to the subcontracting requirements of Section 1-08.1, each FSBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077) and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted in an electronic format to the Engineer prior to any trucking services being performed for FSBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary Truck Unit Listing Log and any Updated Primary Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as FSBE participation.

Each FSBE trucking firm shall complete a Daily Truck Unit Listing Log for each day that the FSBE performs trucking services for FSBE credit. The Daily Truck Unit Listing Log forms shall be submitted by Friday of the week after the Work was performed by email to the following email address for the region administering the Contract:

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Eastern Region - ERRegionOEO@wsdot.wa.gov North Central Region - NCRegionOEO@wsdot.wa.gov Northwest Region - NWRegionOEO@wsdot.wa.gov Olympic Region - ORegionOEO@wsdot.wa.gov South Central Region - SCRegionOEO@wsdot.wa.gov Southwest Region - SWRegionOEO@wsdot.wa.gov Washington State Ferries - FerriesOEO@wsdot.wa.gov Joint Checking

A joint check is a check between a subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the subcontractor and the material supplier jointly for items to be incorporated into the project. The FSBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the FSBE involved using the DBE Joint Check Request Form (WSDOT Form #272-053) prior to its use. The form must accompany the FSBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive FSBE credit for performing a CUF with respect to obtaining materials and supplies, a FSBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the FSBE involved, no FSBE credit will be given for the FSBE's participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

Subcontracts

Prior to a FSBE performing Work on the Contract, an executed subcontract between the FSBE and the Contractor shall be submitted to the Engineer. The executed subcontracts shall be submitted by email to the following email address for the region administering the Contract:

Eastern Region – ERRegionOEO@wsdot.wa.gov North Central Region – NCRegionOEO@wsdot.wa.gov Northwest Region – NWRegionOEO@wsdot.wa.gov Olympic Region – ORegionOEO@wsdot.wa.gov South Central Region – SCRegionOEO@wsdot.wa.gov Southwest Region – SWRegionOEO@wsdot.wa.gov Washington State Ferries – FerriesOEO@wsdot.wa.gov

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Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize FSBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify FSBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

Decertification

When a FSBE is "decertified" from the FSBE program during the course of the Contract, the participation of that FSBE shall continue to count as FSBE participation as long as the subcontract with the FSBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a FSBE does not have an executed subcontract agreement at the time of decertification.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the FSBE Goal is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay FSBE penalty equal to the amount of the unmet Goal, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated FSBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT8.FR1

(October 3, 2022)

Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

DBE Abbreviations and Definitions

Broker — A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

Certified Business Description – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory — A database of all Minority, Women, and Disadvantaged Business Enterprises currently certified by Washington State. The on-line Directory is available to Contractors for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page (https://wsdot.diversitycompliance.com).

Commercially Useful Function (CUF)

49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

Contract — For this provision only, this definition supplements Section 1-01.3. 49 CFR 26.5 defines contract as: "... a legally binding relationship obligating a seller to furnish supplies or services (including, but not limited to, construction and professional services) and the buyer to pay for them. For purposes of this part, a lease is considered to be a contract."

Disadvantaged Business Enterprise (DBE) — A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

DBE Commitment – The dollar amount the Contractor indicates they will be subcontracting to be applied towards the DBE Condition of Award Goal as shown on the DBE Utilization Certification Form for each DBE subcontractor. This DBE Commitment amount will be incorporated into the Contract and shall be considered a Contract requirement. Any changes to the DBE Commitment shall require Engineer's approval.

DBE Condition of Award (COA) Goal — An assigned numerical percentage of the Bid amount of the Contract. This is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE). The DBE COA Goal will also be applied to change orders associated with this Contract.

Force Account Work — Work measured and paid in accordance with Section 1-09.6.

Good Faith Efforts — Efforts to achieve the DBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

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Manufacturer (DBE) — A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Regular Dealer (DBE) — A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

DBE COA Goal

The Contracting Agency has established a COA Contract Goal in the amount of: *** \$\$1\$\$ ***

DBE Eligibility/Selection of DBEs

In order to determine the distinct element(s) of work for which a DBE is certified, Contractors should refer to the Certified Business Description. The Contractor shall not use NAICS codes on the DBE Utilization Certification.

Crediting DBE Participation

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE subcontractors shall be certified before the subcontract on which they are participating is executed.

Be advised that although a firm is listed in the Certified Firm Directory, there are cases where the listed firm is in a temporary suspension status. The Contractor shall review the OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not enter into new contracts that count towards participation.

DBE participation cannot be counted toward the Contractor's contract goal until the amount being counted has actually been paid to the DBE including return of retainage.

In all cases the DBE must be certified in advance for the work being considered and performing a CUF during the execution of the Work. The following are some examples of what may be counted as DBE participation.

DBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is credited to perform.

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DBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit unless the DBE is certified as a supplier or equipment leasing company.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the DBE's lower-tier subcontractor is also a DBE. Work subcontracted to a non-DBE does not count towards the DBE COA Goal.

DBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE. The subcontract agreement shall incorporate requirements of the primary Contract. Subcontract agreements of all tiers, including lease agreements shall be readily available at the project site for the Engineer's review.

DBE Service Provider

The value of fees or commissions charged by a DBE Broker, a DBE behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited towards meeting the DBE COA Goal if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF. Documentation will be required to support the fee/commission charged by the DBE.

Force Account Work

When the Contractor elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization Certification Form, for the purposes of meeting DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Contractors Commitment to meet the DBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards DBE COA Goal or DBE participation.

Temporary Traffic Control

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project. In addition if the DBE firm utilizes the Contractor's equipment, such as Transportable Attenuators and Portable Changeable Message Signs (PCMS) no DBE credit can be taken for supplying and operating the items.

Trucking

DBE trucking firm participation may only be credited to the DBE COA Goal for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling.

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project. The DBE may lease trucks from a non-DBE truck leasing company, but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

DBE credit for a truck broker is limited to the fee/commission that the DBE receives for arranging transportation services.

Truck registration and lease agreements shall be readily available at the project site for the Engineer review.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer may count toward the DBE COA Goal. The DBE Manufacturer shall be certified as such by OMWBE.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited toward meeting the DBE COA Goal. If the role of the DBE Regular Dealer is determined to be that of a pass through, then no DBE credit will be given for its services. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or

commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

Regular Dealer DBE firms must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the DBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count toward DBE COA Goal, provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward DBE COA Goal.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Disadvantaged Business Enterprise Utilization

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's Disadvantaged Business Enterprise Utilization Certification must clearly demonstrate how the Bidder intends to meet the DBE COA Goal. A Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-056) is included in your Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the DBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

In the event of arithmetic errors in completing the Disadvantaged Business Enterprise Utilization Certification the amount listed to be applied towards the DBE COA Goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a Disadvantaged Business Enterprise Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal.

Disadvantaged Business Enterprise Written Confirmation Document(s)

The Bidder shall submit a Disadvantaged Business Enterprise Written Confirmation Document (completed and signed by the DBE) for each DBE firm listed in the Bidder's completed Disadvantaged Business Enterprise Utilization Certification submitted with the Bid. Failure to do so will result in the associated participation being disallowed, which may cause the Bid to be determined to be nonresponsive resulting in Bid rejection.

The Confirmation Documents provide confirmation from the DBEs that they are participating in the Contract as provided in the Contractor's Commitment. The Confirmation Documents must be consistent with the Utilization Certification.

A Disadvantaged Business Enterprise Written Confirmation Document (form No. 422-031) is included in your Proposal package for this purpose.

The form(s) shall be received as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

It is prohibited for the Bidder to require a DBE to submit a Written Confirmation Document with any part of the form left blank. Should the Contracting Agency determine that an incomplete Written Confirmation Document was signed by a DBE, the validity of the document comes into question. The associated DBE participation may not receive credit.

Selection of Successful Bidder/Good Faith Efforts (GFE)

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates a good faith effort to achieve the DBE COA Goal. The Contracting Agency, at any time during the selection process, may request a breakdown of the bid items and amounts that are counted towards the overall contract goal for any of the DBEs listed on the DBE Utilization Certification.

Achieving the DBE COA Goal may be accomplished in one of two ways:

1. By meeting the DBE COA Goal

Submission of the DBE Utilization Certification and supporting DBE Written Confirmation Document(s) showing the Bidder has obtained enough DBE participation to meet or exceed the DBE COA Goal.

2. By documentation that the Bidder made adequate GFE to meet the DBE COA Goal

The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder must supply GFE documentation in addition to the Disadvantaged Business Enterprise Utilization Certification, and supporting Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s).

Note: In the case where the Bidder was awarded the contract based on demonstrating adequate GFE the advertised DBE COA Goal will not be reduced. The Bidder shall demonstrate a GFE during the life of the Contract to attain the advertised DBE COA Goal.

GFE documentation shall be received, as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

Good Faith Effort (GFE) Documentation

GFE is evaluated when:

- 1. Determining award of a Contract that has COA goal,
- When a COA DBE is terminated and substitution is required, and
- 3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

- 1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
- 2. Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these Work items with its own forces.
- 3. Providing interested DBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.
 - a. Negotiating in good faith with interested DBEs. It is the Bidder's responsibility to make a portion of the Work available to DBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the Work.

- b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the DBE COA Goal into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a Bidder's failure to meet the DBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Contractor to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- 4. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the DBE COA Goal.
- 5. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- 6. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- 7. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case by case basis to provide assistance in the recruitment and placement of DBEs.
- 8. Documentation of GFE must include copies of each DBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a DBE for Work on the Contract. (ref. updated DBE regulations 26.53(b)(2)(vi) & App. A)

Administrative Reconsideration of GFE Documentation

Any Bidder has the right to reconsideration but only for the purpose of reassessing the GFE documentation that was originally submitted with their Bid, and determined to be inadequate.

- The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.

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- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

Procedures between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

- A DBE Bid Item Breakdown is required which shall contain the following information for all DBEs as shown on the Disadvantaged Business Enterprise Utilization Certification:
 - a. Correct business name, federal employee identification number (if available), and mailing address.
 - b. List of all Bid items assigned to each DBE with a clear description of Work to be performed for each Bid item and the dollar value of the Work to be performed by the DBE.
 - c. Description of partial items (if any) to be sublet to each DBE specifying the Work committed under each item to be performed and including the dollar value of the DBE portion.
 - d. Total amounts shown for each DBE shall match the amount shown on the Disadvantaged Business Enterprise Utilization Certification. A DBE Bid Item Breakdown that does not conform to the Disadvantaged Business Enterprise Utilization Certification or that demonstrates a different amount of DBE participation than that included in the Disadvantaged Business Enterprise Utilization Certification will be returned for correction.
- 2. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three years.

Procedures after Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will

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conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

DBE Utilization Plan

The DBE Bid Item Breakdown is the initial plan for Bid Item work committed to DBE firms. When a Contractor identifies a change in the plan, an update shall be submitted within 7 calendar days between Execution and Physical Completion. Plan updates shall not make changes to the Commitment or the DBE Utilization Certification.

Joint Checking

A joint check is a check between a subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

Changes in COA Work Committed to DBE

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless a change is approved by the Engineer. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs.

Owner Initiated Changes

Where the Engineer makes changes that result in changes to Work that was committed to a COA DBE. The Contractor may be directed to substitute for the Work in such instances.

Contractor Initiated Changes

The Contractor cannot reduce the amount of work committed to a COA DBE without good cause. Reducing DBE Commitment is viewed as partial DBE termination, and therefore subject to the termination procedures below.

Original Quantity Underruns

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor may be required to substitute the remaining applicable Work to another DBE.

Contractor Proposed DBE Substitutions

Requests to substitute a COA DBE must be for good cause (see DBE termination process below), and requires prior written approval of the Engineer. After receiving a termination with good cause approval, the Contractor may only replace a DBE with another certified DBE. When any changes between Contract Award and Execution result in a substitution of COA DBE, the substitute DBE shall be certified prior to the bid opening on the Contract.

DBE Termination

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part with prior written approval of the Engineer. If the Contractor terminates a COA DBE without the written approval of the Engineer, the Contractor shall not be entitled to credit towards the DBE COA Goal for any payment for work or material performed/supplied by the COA DBE. In addition sanctions may apply as described elsewhere in this specification.

The Contractor must have good cause to terminate a COA DBE.

Good cause typically includes situations where the DBE subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The DBE fails or refuses to execute a written contract.
- The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The DBE voluntarily withdraws from the project, and provides written notice of its withdrawal.
- The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.

 The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.
- The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA DBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the DBE's Work).

Prior to requesting termination, the Contractor shall give notice in writing to the DBE with a copy to the Engineer of its intent to request to terminate DBE Work and the reasons for doing so. The DBE shall have five (5) days to respond to the Contractor's notice. The DBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

When a COA DBE is terminated, or fails to complete its work on the Contract for any reason, the Contractor shall substitute with another DBE or provide documentation of GFE. A plan to achieve the COA DBE Commitment shall be submitted to the Engineer within 2 days of the approval of termination or the Contract shall be suspended until such time the substitution plan is submitted.

Decertification

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count towards the DBE COA Goal as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance

Breach of Contract

Each contract with a Contractor (and each subcontract the Contractor signs with a subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;

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- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disgualifying the Contractor from future bidding as non-responsible.

Notice

If the Contractor or any subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the DBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the DBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.12.GR1

Federal Agency Inspection

1-07.12.INST1.GR1

Section 1-07.12 is supplemented with the following:

1-07.12.OPT1.GR1

(July 25, 2022 October 3, 2023)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised October 23, 2023 July 5, 2022 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

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The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each subcontract requiring the subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each subcontract for subcontractors and lower tier

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subcontractors. For this purpose, upon request to the Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

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11 12 1-07.12.OPT2.FR1

(October 3, 2022)

Indian Preference and Tribal Ordinances

This project is located on the *** \$\$1\$\$ ***. It is the Contractor's responsibility to contact the person and/or office listed in this special provision to determine whether any tribal laws or taxes apply. If the tribal laws and taxes do apply, the Contractor shall comply with them in accordance with Section 1-07.1. For informational purposes only, the Work on this project that falls within Tribal Lands is shown on the Summary of Quantities in Group(s) *** \$\$2\$\$ ***.

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Tribal Employment Rights Ordinances (TEROs) may utilize a variety of tools to encourage Indian employment. These tools may include, but are not limited to, TERO fees, Indian hiring preference, Indian-owned business subcontracting preference and/or an Indian training requirement. Other requirements may be a Tribal business license, a required compliance plan and/or employee registration requirements. Every tribe is different and each may be willing to work cooperatively with the Contractor to develop a strategy that works for both parties. For specific details, the Contractor should contact *** \$\$3\$\$ ***

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The state recognizes the sovereign authority of the tribe and supports the tribe's efforts to enforce its rightful and legal ordinances and expects the Contractor to comply and cooperate with the tribe. The costs related to such compliance shall be borne solely by the Contractor, who is advised to contact the tribal representative listed above, prior to submitting a bid, to assess the impact of compliance on the project.

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Although Indian preference cannot be compelled or mandated by the Contracting Agency, there is no limitation whereby voluntary Contractor or subcontractor-initiated preferences are given, if otherwise lawful. 41 CFR 60-1.5(a)7 provides as follows:

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Work on or near Indian reservations --- It shall not be a violation of the equal opportunity clause for a construction or non-construction Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation in connection with employment opportunities on or near an Indian reservation. The use of the word *near* would include all that area where a person seeking employment could reasonably be expected to commute to and from in the course of a work day. Contractors or subcontractors extending such a preference shall not, however, discriminate among Indians on the basis of religion, sex, or tribal affiliation, and the use of such a preference shall not excuse a Contractor from complying with the other requirements as contained in the August 25, 1981 Department of Labor, Office of Federal Contract Compliance Programs, Government Contractors Affirmative Actions Requirements.

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1-07.15.GR1

Temporary Water Pollution Prevention

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1-07.15(1).GR1

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Spill Prevention, Control, and Countermeasures Plan

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1 2 3	1-07.15(1).INST1.GR1 Section 1-07.15(1) is supplemented with the following:
5 6 7 8 9 10	1-07.15(1).OPT1.GR1 (November 2, 2022) The Contractor shall immediately notify the Engineer and the WSF Terminal Supervisor of any spill, including, but not limited to, petroleum products, hydraulic fluid, chemical materials or liquids, and sewage. If neither the Engineer nor the WSF Terminal Supervisor is available, the Contractor shall immediately notify the WSF Operations Center at (206) 515-3456.
12	1-07.16.GR1
13 14	Protection and Restoration of Property
15 16 17	1-07.16(1).GR1 Private/Public Property
18 19 20	1-07.16(1)C.GR1 Private Property
21 22 23	1-07.16(1)C.INST1.GR1 Section 1-07.16(1)C is supplemented with the following:
24 25 26 27 28 29 30 31 32	1-07.16(1)C.OPT1.GR1 (October 3, 2022) The Contractor shall not access the worksite from adjacent properties without permission from the Engineer. The Contractor shall submit a Type 2 Working Drawing to the Engineer in accordance with Section 1-05.3 prior to accessing the project site from adjacent properties. The Working Drawing shall include the methods, materials, equipment, and restoration measures used to access the worksite.
33 34 35 36 37 38 39	1-07.16(1)C.OPT2.GR1 (October 3, 2022) The Contractor is not to use adjoining property without first obtaining written permission from adjacent property owner(s), and notifying the Engineer, in writing, when such permission has been granted prior to occupying or using adjoining property.
40 41	1-07.16(2).GR1 Vegetation Protection and Restoration
42 43 44 45	1-07.16(2).INST1.GR1 Section 1-07.16(2) is supplemented with the following:
46 47 48 49 50	1-07.16(2).OPT1.GR1 (August 2, 2010) Vegetation and soil protection zones for trees shall extend out from the trunk to a distance of 1 foot radius for each inch of trunk diameter at breast height.
51	Vegetation and soil protection zones for shrubs shall extend out from the stems at

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ground level to twice the radius of the shrub.

Vegetation and soil protection zones for herbaceous vegetation shall extend to encompass the diameter of the plant as measured from the outer edge of the plant.

1-07.16(4).GR1

Archaeological and Historical Objects

1-07.16(4).INST1.GR1

Section 1-07.16(4) is supplemented with the following:

1-07.16(4).OPT1.GR1

(December 6, 2004)

The project area potentially contains archaeological or historical objects that may have significance from a historical or scientific standpoint. To protect these objects from damage or destruction, the Contracting Agency, at its discretion and expense, may monitor the Contractor's operations, conduct various site testing and perform recovery and removal of such objects when necessary.

The Contractor may be required to conduct its operations in a manner that will accommodate such activities, including the reserving of portions of the work area for site testing, exploratory operations and recovery and removal of such objects as directed by the Engineer. If such activities are performed by consultants retained by the Contracting Agency, the Contractor shall provide them adequate access to the project site.

Added work necessary to uncover, fence, dewater, or otherwise protect or assist in such testing, exploratory operations and salvaging of the objects as ordered by the Engineer shall be paid by force account as provided in Section 1-09.6. If the discovery and salvaging activities require the Engineer to suspend the Contractor's work, any adjustment in time will be determined by the Engineer pursuant to Section 1-08.8.

To provide a common basis for all bidders, the Contracting Agency has entered an amount for the item "Archaeological and Historical Salvage" in the Proposal to become a part of the total bid by the Contractor.

1-07.17.GR1

Utilities and Similar Facilities

1-07.17.INST1.GR1

 Section 1-07.17 is supplemented with the following:

1-07.17.OPT1.FR1

(April 2, 2007)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

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      1-07.17.OPT2.FR1
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          (October 3, 2022)
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          Locations and dimensions shown in the Plans for existing facilities are in accordance with
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          available information obtained without uncovering, measuring, or other verification.
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          Public and private utilities, or their Contractors, will furnish all work necessary to adjust.
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          relocate, replace, or construct their facilities unless otherwise provided for in the Plans or
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          these Special Provisions. Such adjustment, relocation, replacement, or construction will
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          be done during the prosecution of the work for this project. It is anticipated that utility
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          adjustment, relocation, replacement, or construction within the project limits will be
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          completed as follows:
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               *** $$1$$ ***
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          The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer,
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          all affected subcontractors, and all utility owners and their Contractors prior to beginning
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          onsite work.
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          The following addresses and telephone numbers of utility companies or their Contractors
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          that will be adjusting, relocating, replacing or constructing utilities within the project limits
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          are supplied for the Contractor's use:
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               *** $$2$$ ***
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               *** $$3$$ ***
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      1-07.18.GR1
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      Public Liability and Property Damage Insurance
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      1-07.18(1).GR1
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          Insurance Provider Requirements
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      1-07.18(1).INST1.GR1
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          Section 1-07.18(1) is supplemented with the following:
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      1-07.18(1).OPT1.2024.GR1
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               (March 9, 2023)
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               Under no circumstances shall a wrap up policy be obtained, for either initiating or
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               maintaining coverage, to satisfy insurance requirements for any policy required
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               under this section. A wrap up policy is defined as an insurance agreement or
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               arrangement under which all the parties working on a specified or designated project
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               are insured under one policy for liability arising out of that specified or designated
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               project.
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1-07.18(5).GR1

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Required Insurance Policies

1-07.18(5).INST1.GR1

The first sentence of Item No. 1 of Section 1-07.18(5) is revised to read:

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1-07.18(5).OPT2.2025.GR1

(November 20, 2023)

1. Owners and Contractors Protective (OCP) Insurance providing bodily injury and property damage liability coverage, with limits of \$3,000,000 per occurrence and per project in the aggregate for each policy period, which shall be written solely on Insurance Services Office (ISO) form CG0009 1204, together with Washington State Department of Transportation amendatory endorsement CG 2908 0999, specifying the Contracting Agency, the State, the Governor, the Commission, the Secretary, the Department, and all officers and employees of the State as named insured.

1-07.18(5).OPT1.FR1

(September 7, 2021 November 20, 2023)

Owners and Contractors Protective (OCP) Insurance providing bodily injury and property damage liability coverage, with limits of *** \$\$1\$\$ *** per occurrence and per project in the aggregate for each policy period, which will be written solely on Insurance Services Office (ISO) form CG0009 1204, together with Washington State Department of Transportation amendatory endorsement CG 2908 11950999, specifying the Contracting Agency, the State, the Governor, the Commission, the Secretary, the Department and all officers and employees of the State as named insured.

1-07.18(5).OPT2.GR1

(September 7, 2021)

Item number 1 of Section 1-07.18(5) is deleted.

1-07.18(5).INST2.GR1

The first sentence of Item No. 2 of Section 1-07.18(5) is revised to read:

1-07.18(5).OPT3.GR1

(September 7, 2021)

 Commercial General Liability (CGL) Insurance written under ISO Form CG0001 with minimum limits of \$1,000,000 per occurrence and in the aggregate for each one-year policy period.

1-07.18(5).OPT4.FR1

(September 7, 2021)

Commercial General Liability (CGL) Insurance written under ISO Form CG0001
with minimum limits of *** \$\$1\$\$ *** per occurrence and in the aggregate for
each 1-year policy period.

1-07.18(5).INST3.GR1

Section 1-07.18(5) is supplemented with the following:

1-07.18(5).OPT5.GR1

(October 3, 2022)

Builder's Risk Insurance

Builder's Risk Insurance providing Broad Perils (All Risk) coverage upon any work at the site, to the full insurable value thereof. This insurance shall include the Contractor, its subcontractors of every tier, and the State of Washington as named insured on the policy. Coverage shall be included for all materials and supplies to be

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1 incorporated into the work at the jobsite, while in transit to the jobsite, or while stored 2 away from the jobsite. 3 4 1-07.18(5).OPT6.FR1 5 (October 3, 2022) 6 The Contractor shall obtain Contractor's Pollution Liability Insurance (CPL) with 7 minimum "per project" limits of *** \$\$1\$\$ *** per occurrence and in the aggregate for 8 claims, including investigation, defense, or settlement costs and expenses for bodily 9 injury and property damage (including natural resources damages and loss of use of 10 tangible property that has not been physically injured) arising out of: 11 12 Pollution conditions caused or made worse by the Contractor's 13 performance of the Work, including clean-up costs for a newly caused 14 condition or a historical condition that is made worse; and; 15 16 The vicarious liability of subcontractors of any tier. 17 18 The Contractor shall be Named Insured and the Contracting Agency, the State, the 19 Governor, the Commission, the Secretary, the Department, all officers and 20 employees of the State, and their respective members, directors, officers, 21 employees, agents, and consultants (collectively the "Additional Insureds") shall be 22 included as Additional Insureds, or, as appropriate, a Named Insured, under this 23 policy and coverage. 24 25 1-07.23.GR1 26 **Public Convenience and Safety** 27 28 1-07.23(1).GR1 29 Construction Under Traffic 30 31 1-07.23(1).INST1.GR1 32 Section 1-07.23(1) is supplemented with the following: 33 34 1-07.23(1).OPT1.FB1 35 (March 13, 1995) During the hours that cleaning and painting operations are actually in progress, traffic 36 37 may be restricted as follows: 38 39 *** \$\$1\$\$ *** 40 41 Whenever the Contractor's operations require lane reductions restricting the flow of 42 traffic on multiple lanes in the same direction, the Contractor shall furnish, maintain, 43 and operate a sequential arrow sign, for each lane closure, as specified in the Special 44 Provision SEQUENTIAL ARROW SIGN. 45 46 If the Engineer determines that such lane restrictions are causing traffic congestion, 47 the Contractor shall open all lanes to traffic until the congestion is eliminated. 48

For movable span structures, the Contractor's operations shall be arranged to permit the opening of the moveable span whenever required by marine traffic.

Bridge sidewalks shall be kept clear and open to maintain safe pedestrian traffic.

General Special Provisions Division 1-07

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1-07.23(1).OPT4.GR1

(December 6, 2004)

The portion of Section 1-07.16(1) that prohibits the merging of construction vehicles with public traffic from an access gained through adjacent properties is rescinded, provided the Contractor's submittal is approved as required below.

Access for Construction

The Contractor may enter and leave the traveled way, auxiliary lanes or shoulders at approved locations other than established legal movements. To obtain approval of such an access location, the Contractor shall submit a request to the Engineer. The Contractor's request shall be submitted to the Engineer at least 30 calendar days prior to the time the use of the access will be required. This submittal shall include a vicinity map indicating the interstate stationing at the centerline of the access, distances from the end of ramp tapers of existing interchanges and a traffic control plan conforming with the requirements specified in Section 1-10.2(2). The access shall meet the following requirements:

- Access to and from the worksite adjacent to a multi-lane facility will only be allowed to and from a closed lane.
- The merging point of construction vehicles and public traffic shall provide a Decision Sight Distance for the traveling public of 1,640 ft in urban areas and 1,360 ft in rural areas.
- In urban areas the access shall not be located within 3,280 ft of the end of a ramp taper, or the centerline of a road approach. In rural areas the access shall not be located within 2,720 ft of the end of a ramp taper or the centerline of a road approach.
- Median crossings within 1.5 miles of the access point shall not be used in conjunction with the access.
- No new median crossings shall be created for use in conjunction within 1.5 miles of the access point.
- Short-duration shoulder stops in the construction zone, utilizing light vehicles properly equipped with warning flashers, will be allowed without a lane closure.
- When in use the access location shall have traffic control in place as per Section 1-10. Unauthorized use of the access from adjacent property is to be prohibited by the use of signing and/or flaggers as conditions warrant.
- The continuity of the existing drainage system shall be maintained through the access site.
- Air borne particulates created as a result of using the access shall be effectively controlled.

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 The access location shall not adversely affect wetlands or other sensitive areas.

At the completion of the project, the Contractor shall restore the area of the access site to its original, pre-contract, condition. Any damage to the traveled way, shoulders, auxiliary lanes, side slopes or other items caused by the access shall be repaired. All work to comply with this provision or to build, maintain, provide erosion control, control airborne particulates, ensure that drainage continues through the access site, provide traffic control when necessary, remove the temporary access and restore the surrounding area when no longer required for use are the responsibility of the Contractor. The Contractor shall include all related costs in the bid prices of the contract.

1-07.23(1).OPT5.FR1

(February 6, 2023)

Lane, ramp, shoulder, and roadway closures are subject to the following restrictions:

*** \$\$1\$\$ ***

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours. Exceptions to these restrictions are listed below and when applicable take precedence over closures listed above. The Engineer may also consider on a case-by-case basis additional exceptions following a written request by the Contractor.

Lane, ramp, shoulder, and roadway closures are not allowed on any of the following:

1. A holiday,

2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.

3. After *** \$\$2\$\$ *** on the day prior to a holiday or holiday weekend, and

4. Before *** \$\$3\$\$ *** on the day after the holiday or holiday weekend.

 5. The two-hour period prior to and the two-hour period after the following special events:

It shall be the Contractor's responsibility to obtain the dates and times of all events.

Traffic Delays

 When Automated Flagger Assistance Devices (AFADs) or flaggers are used to control traffic, traffic shall not be stopped for more than *** \$\$5\$\$ *** minutes at any time. All traffic congestion shall be allowed to clear before traffic is delayed again.

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If the delay becomes greater than *** \$\$6\$\$ *** minutes, the Contractor shall immediately begin to take action to cease the operations that are causing the delays. If the *** \$\$7\$\$ *** minute delay limit has been exceeded, as determined by the Engineer, the Contractor shall provide to the Engineer, a written proposal to revise his work operations to meet the *** \$\$8\$\$ *** minute limit. This proposal shall be accepted by the Engineer prior to resuming any work requiring traffic control.

There shall be no delay to medical, fire, or other emergency vehicles. The Contractor shall alert all flaggers and personnel of this requirement.

General Restrictions

Construction vehicles using a closed traffic lane shall travel only in the normal direction of traffic flow unless expressly allowed in an accepted traffic control plan. Construction vehicles shall be equipped with flashing or rotating amber lights.

No two consecutive on-ramps, off-ramps, or intersections shall be closed at the same time and only one ramp at an interchange shall be closed, unless specifically shown in the Plans.

Roads or ramps that are designated as part of a detour shall not be closed or restricted during the implementation of that detour, unless specifically shown in the Plans.

Controlled Access

No special access or egress shall be allowed by the Contractor other than normal legal movements or as shown in the Plans.

Contractor's vehicles of 10,000 GVW or greater shall not exit or enter a lane open to public traffic except as follows:

Egress and ingress shall only occur during the hours of allowable lane closures, and:

- 1. For exiting an open lane of traffic, by decelerating in a lane that is closed during the allowable hours for lane closures.
- 2. For entering an open lane of traffic, by accelerating in a closed lane during the allowable hours for lane closures.

Traffic control vehicles are excluded from the gross vehicle weight requirement. If placing construction signs will restrict traveled lanes, then the work will be permitted during the hours of allowable lane closures.

Advance Notification

The Contractor shall notify the Engineer in writing of any traffic impacts related to lane closure, shoulder closure, sidewalk closure, or any combination for the week by 12:00 p.m. (noon) Wednesday the week prior to the stated impacts.

The Contractor shall notify the Engineer in writing ten working days in advance of any traffic impacts related to full roadway closure, ramp closure, or both.

General Special Provisions Division 1-07

1 The Contractor shall notify the Engineer in writing of any changes to the stated traffic 2 impacts a minimum of 48 hours prior to the traffic impacts. 3 4 1-07.23(1).OPT6.GR1 5 (April 14, 2014) 6 Physical reductions of the width of thru travelling lanes are subject to the following 7 restrictions: 9 The Contractor shall not reduce the travelled way to a single lane with a clear 10 11 12

8

width of less than 16 feet for a duration that exceeds 4 calendar days without prior approval of the Engineer. The Contractor shall submit a request for a width reduction that exceeds 4 calendar days to the Engineer no later than 30 calendar days prior to the start of the proposed width reduction. At a minimum, this request shall include:

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- 1. Schedule showing the planned beginning date and end date of the width reduction.
- 2. Plans showing the limits and cross-sections showing the clear distance provided during the width reduction.
- 3. Details of available detour routes.
- 4. Plan to provide temporary windows of a minimum 16 foot width periodically during the width reduction, where possible.

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The Engineer will reply, in writing, to the request within 7 calendar days. The Contractor shall immediately notify the Engineer if there are any changes to the schedule for the width reduction.

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1-07.23(1).OPT7.FR1

(October 3, 2022)

Public Notification

The Contractor shall furnish and install information signs that provide advance notification of a ramp closure, roadway closure, or both, a minimum of *** \$\$1\$\$ *** working days prior to the closure. Sign locations, messages, letter sizes, and sign sizes are shown in the Plans.

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The Contractor shall notify *** \$\$2\$\$ ***, in writing, a minimum of *** \$\$3\$\$ *** working days prior to each closure. The Contractor shall furnish copies of these notifications to the Engineer.

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1-07.23(1).OPT8.FR1

(October 3, 2022)

Maintenance and Protection of Ferry Traffic

*** \$\$1\$\$ *** is a single-slip terminal. The slip must remain fully operational during all phases of construction.

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The Contractor shall not interfere with terminal or vessel operations of the slips such that ferries do not arrive or depart on time. Every effort shall be made to ensure that construction materials and equipment remain within the bounds of designated staging areas as outlined in the Special Provisions.

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The Contractor shall promptly and diligently remove any equipment, workers, or materials from the traveled way and shall promptly and diligently move any vessels,

General Special Provisions Division 1-07

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equipment, materials, or workers from the slip a minimum of 10 minutes prior to the scheduled or anticipated arrival of a ferry until 5 minutes subsequent to the departure of the ferry.

A safe environment for ferry operations, including vessels, vehicles, Washington State Ferries employees, and passengers — both offshore and on the dock — shall be maintained at all times.

The Contractor shall shield welding activities from ferries to protect the vision of the captains to the satisfaction of the Engineer. Welding activities shall be shielded to protect the safety of all persons in the area. Shielding is defined as surrounding the work area with a material through which light or spark are not transmitted.

The Contractor shall assign one employee to monitor approaching vessels and alert other workers to evacuate the work area if required. The worker will be equipped with an air horn or similar device suitable to warn workers and a radio capable of communicating with the ferry vessel captains.

Temporary steel plates shall not be used on the vehicle or pedestrian traveled way in any location for more than three calendar days.

Payment

All costs associated with maintenance and protection of traffic shall be incidental to and included in all other items of work.

1-07.23(1).OPT9.GR1

(October 3, 2022)

Maintenance and Protection of Ferry Traffic

The Contractor shall maintain access to and from the ferry vessels for both pedestrian and vehicular traffic at all times. The Contractor shall promptly and diligently remove any equipment, employees, or materials that would impede or delay ferry vessel arrivals or departures. The Contractor shall provide and maintain such barriers, barricades, signs, and lighting necessary to protect and safeguard pedestrians and vehicles as shown in the Plans. The Contractor shall keep all sidewalks, crosswalks, and other pedestrian routes and access points open and clear at all times unless permitted otherwise by the Engineer in an approved traffic control plan.

Temporary steel plates shall not be used on the vehicle or pedestrian traveled way in any location for more than three calendar days.

Payment

All costs associated with maintenance and protection of traffic shall be incidental to and included in other items of work.

1-07.23(1).OPT10.GR1

(October 3, 2022)

If July 4 occurs on a Tuesday, the prior Monday and Friday are considered to be part of a holiday weekend. If July 4 occurs on a Thursday, the following Friday and Monday are considered to be part of a holiday weekend.

General Special Provisions Division 1-07

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1
      1-07.24.GR1
 2
      Rights of Way
 3
 4
      1-07.24.INST1.GR1
 5
      Section 1-07.24 is supplemented with the following:
 6
 7
      1-07.24.OPT1.FR1
 8
          (March 13, 1995)
 9
          The Contracting Agency has not completed the acquisition of title to the following
10
          described property:
11
               *** $$1$$ ***
12
13
14
          The Contractor shall not perform any work within these limits until ordered to do so by the
15
          Engineer. The Contracting Agency has estimated that the above described property will
          be available *** $$2$$ ***.
16
17
      1-07.24.OPT2.GR1
18
19
          (October 3, 2022)
20
          Sundry Site Plan
21
          The Sundry Site Plan is included in the Plans for the benefit of the Contractor. It is meant
22
          to give a graphical representation of the properties in the vicinity of the project site.
23
24
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The Sundry Site Plan gives information necessary for locating Right-of-Way (R/W) lines, construction permit boundaries and permanent or construction easements.

Areas identified within R/W are made available to the Contractor for use as indicated in the Plans and Special Provisions.

1-07.28.GR1

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Railroads

1-07.28.INST1.GR1

Section 1-07.28 is supplemented with the following:

1-07.28.OPT1.FR1

(October 3, 2022)

Additional Requirements for Working with the Railroad

The term Railroad Company shall be understood to mean each of the following railroad companies:

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*** $$1$$ ***
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The Contractor shall keep the right of way and ditches of the Railroad Company open and clean from any deposits or debris resulting from its operations. The Contractor shall be responsible for the cost to clean and restore ballast of the Railroad Company which is disturbed or becomes fouled with dirt or materials when such deposits or damage result from the Contractor's operations, except as provided elsewhere.

The Contractor shall cooperate with the Railroad Company and so conduct operations that the necessary reconstruction of its facilities and the removal of existing facilities can be accomplished without interruption of service.

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 2
      1-07.28.OPT2.FR1
 3
          (October 3, 2022)
 4
          The Contracting Agency has or will enter into an agreement with the Railroad Company
 5
          as specified in these provisions as contained in Appendix *** $$1$$ ***.
 6
 7
      1-07.28.OPT3.FR1
 8
          (October 3, 2022)
 9
          Construction Work by Railroad Company
10
          The work by the Railroad Company as described below will be performed by the Railroad
11
          Company with its own forces at no cost to the Contractor:
12
              *** $$1$$ ***
13
14
15
      1-07.28(1).GR1
          General
16
17
18
      1-07.28(1).INST1.GR1
19
          Section 1-07.28(1) is supplemented with the following:
20
21
      1-07.28(1).OPT1.FR1
22
              (October 3, 2022)
23
              Contractor's Right of Entry Agreement
24
              The Contractor shall obtain a Right of Entry Agreement from the railroad. For all
25
              matters regarding the Contractor's Right of Entry Agreement, the Contractor shall
26
              contact:
27
28
                   *** $$1$$ ***
29
30
              The Contracting Agency has furnished a SAMPLE Contractor's Right of Entry
              Agreement in Appendix *** $$2$$ ***. The SAMPLE Contractor's Right of Entry
31
32
              Agreement is an example which represents the Contracting Agency's assessment of
33
              the likely terms and conditions prior to Advertisement for Bids. The final terms and
34
              conditions will be determined by the Railroad Company after Contract Execution.
35
36
              The Contractor is at sole risk for the amount of time it takes to obtain the Right of
37
              Entry Agreement from the Railroad Company. Delays in obtaining the right of entry
38
              agreement shall not be eligible for a time extension or an equitable adjustment.
39
40
      1-07.28(2).GR1
41
          Submittals and Working Drawings
42
43
      1-07.28(2).INST1.GR1
44
          Section 1-07.28(2) is supplemented with the following:
45
46
      1-07.28(2).OPT1.FR1
47
              (October 3, 2022)
48
              The Engineer will require up to *** $$1$$ *** calendar days from the date a Working
49
              Drawing is received until it is returned to the Contractor. If a submittal is returned
              unapproved and then resubmitted, then an additional review time for each
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General Special Provisions Division 1-07

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November 20, 2023 Page 113

subsequent resubmittal of up to *** \$\$2\$\$ *** calendar days will be required.

1 2 3	1-07.28(6).GR1 <i>Railroad P</i>	rotective Services
4 5	1-07.28(6).INST1 Section 1-07	.GR1 .28(6) is supplemented with the following:
6 7 8 9 10 11 12 13	The Col advance Compar	FR1 r 3, 2022) Intractor shall notify the Railroad Company a minimum of *** \$\$1\$\$ *** in the of whenever the Contractor is about to perform Work within Railroad by property or within 25 feet of the centerline of tracks to enable the Railroad by to provide flagging or other protective services.
14	The Rai	Iroad Company's contact to schedule flagging or other protective services is:
15 16	***	\$\$2\$\$ ***
17 18 19	1-07.28(8).GR1 Measurem	ent and Payment
20 21 22 23	1-07.28(8).INST1 Section 1-07	.GR1 .28(8) is revised to read:
24 25 26 27 28	•	GR1 r 3, 2022) htracting Agency will make payments to the Railroad for protective services
29 30 31 32	1.	Such services result from the Contractor's failure to comply with the terms and conditions of its contract with the Contracting Agency or with its Contractor's Right of Entry Agreements with the Railroad Company.
33 34 35 36	2.	The Contractor fails to obtain authorization from the Engineer prior to coordinating with the Railroad Company for any flagging requiring overtime payments as specified under Railroad Safety and Flagging.
37 38 39 40 41	3.	The Contractor arranges for assignment of a railroad flagger and alters project work so that a flagger is no longer needed, and adequate advance notice is not provided to the Railroad Company of such change in the need for a flagger (i.e., causing the Railroad Company to dispatch a flagger billable to the project when one is not required).
42 43 44 45	4.	The Contractor causes an emergency, as specified under Railroad Operations.
46 47 48	5.	Protective services are required as a result of a request to the Railroad Company for the Contractor's convenience.

6. The Contract provides for a bid item in the Contract.

General Special Provisions Division 1-07

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	All costs to comply with this Section, unless otherwise stated, are incidental to the
2	Contract and are the responsibility of the Contractor. The Contractor shall include al
3	related costs in the unit Bid prices of the Contract.

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1 1-08.GR1 2 **Prosecution and Progress** 3 4 1-08.1.GR1 5 Subcontracting

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1-08.1.INST1.GR1

Section 1-08.1 is supplemented with the following:

1-08.1.OPT1.GR1

(October 3, 2022)

Prior to any subcontractor or lower-tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection.

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A subcontractor or lower-tier subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

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- Request to Sublet Work (WSDOT Form 421-012), and 1.
- Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (WSDOT Form 420-004).

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The Contractor shall submit a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every subcontractor and lower tier subcontractor's retainage has been released. This form shall be submitted to the Engineer by email to the following email address for the region administering the Contract:

31 32 33

Eastern Region – ERRegionOEO@wsdot.wa.gov North Central Region – NCRegionOEO@wsdot.wa.gov Northwest Region - NWRegionOEO@wsdot.wa.gov Olympic Region – ORegionOEO@wsdot.wa.gov South Central Region - SCRegionOEO@wsdot.wa.gov Southwest Region – SWRegionOEO@wsdot.wa.gov Washington State Ferries - FerriesOEO@wsdot.wa.gov

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The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all subcontractors and lower-tier subcontractors shall be available and open to similar inspection or audit for the same time period.

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51 52 1-08.1.OPT3.GR1

(March 13, 1995)

Qualifications of Building Contractor

If the Contractor is not prequalified for building construction or cannot demonstrate satisfactory experience in constructing the general type of building included in the project,

General Special Provisions Division 1-08

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          it will be mandatory that the building work be subcontracted to a firm which can meet one
 2
          or both of these criteria.
 3
 4
      1-08.3.GR1
 5
      Progress Schedule
 6
 7
      1-08.3(42).GR1
 8
          General Requirements
 9
10
      1-08.3(2)B.GR1
11
               Type B Progress Schedules
12
     1-08.3(1).INST1.GR1
13
14
          The first sentence of Section 1-08.3(1) is revised to read:
15
16
     1-08.3(1).OPT1.GR1
17
               (August 6, 2006)
          The Contractor shall submit Type C Progress Schedules and Schedule Updates to the
18
19
          Engineer for approval.
20
21
     1-08.3(1).INST2.1-08.3(2)B.INST1.GR1
22
               Section 1-08.3\frac{(1)(2)B}{(2)B} is supplemented with the following:
23
24
      1-08.3(1).OPT21-08.3(2)B.OPT1.FR1
                   (October 3, 2022 November 2, 2023)
25
26
                   In addition to information required in Items 1 through 613, the Progress
27
                   Schedule shall include the following milestones and/or activities:
28
                        *** $$1$$ ***
29
30
31
     1-08.3(2).GR1
32
          Progress Schedule Types
33
34
     1-08.3(2).INST3.GR1
35
          Section 1-08.3(2) is supplemented with the following:
36
37
      1-08.3(2).OPT2.FR1
38
                   (September 7, 2021)
39
                   Type C Progress Schedule
40
                   Type C progress schedules shall conform to all of the requirements of Section
41
                   1-08.3(2)B and this Section.
42
43
                   The Contractor shall submit an electronic copy of a preliminary Type C progress
                   schedule no later than the first working day as defined in Section 1-08.5. The
44
45
                   preliminary schedule shall comply with the requirements of this special provision
46
                   and the requirements of Section 1-08.3(1), except that it may be limited to only
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                   those activities occurring within the first 60 working days of the project.
48
49
                   The Contractor shall submit the Type C progress schedule for all Work no later
                   than 60 calendar days after the date the contract is executed.
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General Special Provisions Division 1-08

Each time that a preliminary schedule, progress schedule, or schedule update is submitted, the Contractor shall provide the Engineer with an electronic copy (.XER or .XML file type extension) of that schedule. Each submitted progress and update schedule shall have a unique file name and date identifier. Regardless of the type of software used, the schedule data provided to the Engineer shall be submitted to the Engineer in a compatible format of Primavera Project Manager Enterprise P6.

The current version of Primavera Project Manager Enterprise P6 is *** \$\$1\$\$
***.

Type C progress schedules shall display at least the following additional information:

- 1. A time scaled logic diagram.
- Activities for traffic detours and closures.
- 3. Milestones for required delivery of State furnished materials, if any.
- 4. Activities for State furnished traffic control resources, if any.
- Activities for fabrication of materials longer than 90 calendar days lead time.
- 6. Fixed constraints shall be identified on the activity listing, supplemented with a written narrative describing why the constraint exists.
- Milestones for interim or stage completion dates.
- 8. Activities for scheduled outages on illumination systems, ITS systems, traffic signal systems and other electrical service outages.
- Nighttime activities shall be so coded.
- 10. Activities for all submittals requiring State review, including the allowable review duration.

All calendars used shall be created as project calendars, not global or resource calendars. If multiple calendars are applied to the progress schedule, the Contractor shall submit a written narrative describing each one's purpose.

Schedule files shall not contain User Defined Fields (UDF's), all activity codes shall be project level, no resources shall be assigned to activities and no project codes shall be assigned.

If requested by the Engineer, the Contractor shall supplement the progress schedule with written explanations for each lead and lag time used, and a written explanation describing the assumed production rates and planned resource allocations to support the activity durations provided in the schedule. The written explanations shall be documented as a notebook topic under "Assumptions and Basis".

1-08.3(3).GR1

Schedule Updates

1-08.3(3).INST1.GR1

Section 1-08.3(3) is revised to read:

General Special Provisions Division 1-08

1	1-08.3(3).OP11.GR1
2	(June 6, 2022)
3	The Contractor shall submit an electronic copy of a Type C Schedule Update to the
4	Engineer by the first business day of each month, starting the month after the
5	Progress Schedule is accepted, or some other mutually agreed upon submittal time.
6	Trogress constant is assepted, or come other matalany agreed apon submittal time.
7	In addition to the other requirements of this Section, Schedule Updates shall reflect
8	at least the following information:
9	
10	1. The actual duration and sequence of as-constructed work activities,
11	including changed work.
12	moraling original work.
	O Approved time extensions
13	2. Approved time extensions.
14	
15	3. Any construction delays or other conditions that affect the progress of the
16	work.
17	
18	4. Any modifications to the as-planned sequence or duration of remaining
19	activities, supplemented with a written narrative describing each change
20	and the reason for the change.
21	
22	5. The physical completion of all remaining work in the remaining contract
23	t ime.
24	
25	6. Progress on partially completed activities shall be indicated using percent
26	complete.
27	
28	Activity numbers on Schedule Updates shall be the same as the Progress Schedule,
29	with the exception of deleted or added activities.
30	•
31	Unresolved requests for time extensions shall be reflected in the Schedule Update
32	by assuming no time extension will be granted, and by showing the effects to follow-
33	on activities necessary to physically complete the project within the currently
34	authorized time for completion.
35	
36	1-08.3(4).GR1
37	Measurement
	medourement
38	4 00 0/4) INOTA ODA
39	1-08.3(4).INST1.GR1
40	Section 1-08.3(4) is supplemented with the following:
41	
42	1-08.3(4).OPT1.GR1
43	(August 5, 2013)
44	Schedule Updates will be measured per each for each update submitted and
45	approved per the requirements of Section 1-08.3(3). Schedule updates that are
46	returned for correction will not be measured.
47	
48	1-08.3(5).GR1
49	Payment
50	· wyv.
51	1 09 3/5) INST1 CD1
	1-08.3(5).INST1.GR1
52	Section 1-08.3(5) is supplemented with the following:

General Special Provisions Division 1-08

1	
2	1-08.3(5).OPT1.GR1
3	(September 7, 2021)
4 5	Payment will be made for the following bid item when it is included in the proposal:
6	"Schedule Update", per each.
7 8	The unit Contract price per each "Schedule Update" shall be full payment for al costs required to complete the work specified in Section 1-08.3(3).
9	
10	1-08.3(5).OPT2.GR1
11	(September 7, 2021)
12	Payment will be made for the following Bid item when it is included in the Proposal:
13 14	"Type C Progress Schedule", lump sum.
15	
16 17	The lump sum price shall be full pay for all costs for furnishing the Type C Progress Schedule.
18	Demonstration of the language will be used a surround of the
19	Payment of 80 percent of the lump sum price will be made upon approval of the
20 21	Progress Schedule.
22	Payment will be increased to 100 percent of the lump sum price upon completion of
23	80 percent of the original total Contract Award amount.
24	oo percent of the original total contract/tward amount.
25	1-08.4.GR1
26	Prosecution of Work
27	
28	1-08.4.INST1.GR1
29	The first sentence of Section 1-08.4 is revised to read:
30	
31	1-08.4.OPT1.FR1
32	(August 3, 2015)
33	The Contractor shall commence onsite work on or before *** \$\$1\$\$ *** and shall notify
34	the Engineer in writing a minimum of 10 calendar days in advance of the date on which
35	the Contractor intends to begin work.
36	
37	1-08.4.OPT2.GR1
38	(August 7, 2006)
39	The Contractor shall begin work no earlier than the begin work date stated in the written
40	notice provided by the Engineer. The Engineer will provide a minimum of 10 calendar
41	days written notice for the date identified as the first working day.
42	4 00 4 OPT0 FP4
43	1-08.4.OPT3.FR1
44	(August 7, 2006)
45	The Contractor shall begin work no earlier than *** \$\$1\$\$ ***.
46	1.00 F.CD1
47	1-08.5.GR1
48	Time for Completion
49 50	1.09.5 INST1.CD1
50 51	1-08.5.INST1.GR1 The third paragraph of Section 1.08.5 is revised to read:
51 52	The third paragraph of Section 1-08.5 is revised to read:
UZ	

General Special Provisions Division 1-08

```
1
      1-08.5.OPT1.FR1
 2
          (August 7, 2006)
 3
          Contract time shall begin on the date stated in the written notice provided to the
 4
          Contractor. In no case shall the beginning of contract time be prior to ***$$1$$*** or later
 5
          than *** $$2$$ ***.
 6
 7
      1-08.5.OPT2.FR1
 8
          (August 7, 2006)
 9
          Contract time shall begin on the first working day. The first working day shall be *** $$1$$
10
11
12
      1-08.5.INST2.GR1
13
      Section 1-08.5 is supplemented with the following:
14
15
      1-08.5.OPT7.FR1
16
          (March 13, 1995)
17
          This project shall be physically completed within *** $$1$$ *** working days.
18
19
      1-08.5.OPT8.FR1
20
          (March 13, 1995)
21
          This project shall be physically completed in its entirety within *** $$1$$ *** working days
22
          and the temporary traffic signal portion of the project shall be physically completed within
          the first *** $$2$$ *** working days.
23
24
25
      1-08.5.OPT9.FR1
26
          (December 4, 2006)
27
          This project shall be physically completed within *** $$1$$ *** working days.
28
29
          Contract time shall begin on the first working day the Contractor starts onsite work or ***
30
          $$2$$ ***, whichever occurs first.
31
32
      1-08.5.OPT10.FR1
33
          (March 13, 1995)
34
          This project shall be physically completed within *** $$1$$ *** working days. Contract
35
          time shall commence on the first working day:
36
37
               1.
                  Following 60 calendar days after contract execution; or,
38
39
               2.
40
                   construction materials is obtained, whichever occurs first.
41
```

That the Engineer and the Contractor agree to start work after approval of

The Contractor is allowed a maximum of 60 calendar days after execution of the contract to obtain approvals for construction materials

1-08.5.OPT11.FR1

42

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(August 4, 2003)

Incentive for Early Completion

It is essential that the Contracting Agency has full and unrestricted use of the facilities at the earliest possible time. As an incentive to the Contractor, the Contracting Agency will pay the Contractor *** \$\$1\$\$ *** for each working day remaining in the contract prior to the established *** \$\$2\$\$ *** completion date, but not to exceed an amount equal to *** \$\$3\$\$ ***.

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The days eligible for the incentive will be calculated by subtracting the working days elapsed through the date of *** \$\$4\$\$ *** completion from the total working days established in the Special Provision **TIME FOR COMPLETION**.

1-08.6.GR1

Suspension of Work

1-08.6.INST1.GR1

Section 1-08.6 is supplemented with the following:

1-08.6.OPT1.FR1

(January 3, 2017)

Contract time may be suspended for the HMA mix design evaluation report or for procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 21 calendar days after execution by the Contracting Agency, submit all HMA mix designs not already on the QPL according to Section 5-04.2(1) or place purchase orders for all materials deemed critical by the Contracting Agency for Physical Completion of the Contract. The Contractor shall provide a copy of the completed WSDOT Form 350-042 indicating the date the mix design was submitted, or copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

The Contractor shall show the HMA mix design evaluation report or procurement of the critical materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that acceptance of the HMA mix designs or materials procurement are critical activities, and if the Contractor has provided documentation that purchase orders are placed for the critical materials within the prescribed 21 calendar days, then Contract time will be suspended upon Physical Completion of all critical work except that work dependent upon the below listed critical materials:

*** \$\$1\$\$ ***

Charging of Contract time will resume upon the Contractor's receipt of a WSDOT mix design evaluation report or delivery of the critical materials to the Contractor, notification that the critical materials are ready for delivery to the Contractor from the Contracting Agency's Materials Laboratory, or *** \$\$2\$\$ *** calendar days after execution by the Contracting Agency, whichever occurs first.

No additional Procurement Suspension will be provided if the Contractor's HMA mix designs did not meet Contract requirements and are resubmitted.

1-08.6.OPT2.FR1

(February 6, 2023)

Contract time may be suspended for procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 21 calendar days after execution by the Contracting Agency, place purchase orders for all materials deemed critical by the Contracting Agency for physical completion of the contract. The Contractor shall provide copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

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The Contractor shall show procurement of the materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that the materials procurement are critical activities, and if the Contractor has provided documentation that purchase orders are placed for the critical materials within the prescribed 21 calendar days, then contract time will be suspended upon physical completion of all critical work except that work dependent upon the below listed critical materials:

*** \$\$1\$\$ ***

Charging of contract time will resume upon delivery of the critical materials to the Contractor or *** \$\$2\$\$ *** calendar days after execution by the Contracting Agency, whichever occurs first.

1-08.9.GR1

Liquidated Damages

1-08.9.INST2.GR1

Section 1-08.9 is revised to read:

1-08.9.INST1INST3.GR1

Section 1-08.9 is supplemented with the following:

1-08.9.OPT1.NEWOPT3.FR1

(September 8, 2020)

Liquidated damages in the amount of *** \$\$1\$\$ *** per working day will be assessed for failure to physically complete the Contract within the physical completion time specified.

1-08.9.OPT2.NEWOPT1.FR1

(March 13, 1995)

Liquidated damages in the amount of *** \$\$1\$\$ *** per working day will be assessed for failure to physically complete the temporary traffic signal portion of the contract within the physical completion time specified. Liquidated damages in an amount based upon the original contract amount and original time, will be assessed for failure to physically complete the entire project within the physical completion time specified. Such damages will accrue separately for each phase or stage of work. In the event damages occur on a concurrent date, the larger of the two damages will apply for such days.

1-08.9. OPT3.NEWOPT2.FR1

(April 6, 2009)

Delayed completion of *** \$\$1\$\$ *** will result in impacts to the traveling public, increase fuel consumption, increase vehicle operating costs, increase pollution, and cause other inconveniences and harm.

Accordingly, the Contractor agrees:

1. To pay *** \$\$2\$\$ *** liquidated damages per *** \$\$3\$\$ *** for each *** \$\$4\$\$ *** prorated to the nearest *** \$\$5\$\$ *** that the work is not completed as specified in *** \$\$6\$\$ ***.

2. To authorize the Engineer to deduct these liquidated damages from any money due or coming due the Contractor.

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1 2 3	1-09.GR1 Measurement and Payment
4	1-09.2.GR1
5	Weighing Equipment
	**eigning Equipment
6 7	1 00 2(1) CD1
	1-09.2(1).GR1
8	General Requirements for Weighing Equipment
9	4 00 0/4) 4 0 0 4
10	1-09.2(1)A.GR1
11	-Electronic Delivery Management System (E-Ticketing)
12	4 00 0/4) 4 4 0 0 4
13	1-09.2(1)A1.GR1
14	Equipment
15	4 00 0/4\A4 INIOT4 OD4
16	1-09.2(1)A1.INST1.GR1
17	Item number 1 in the first paragraph of Section 1-09.2(1)A1 is revised to read:
18	4 00 0/4) A4 OPT4 0004 OP4
19	1-09.2(1)A1.OPT1.2024.GR1
20	(March 9, 2023)
21	1. The ETS shall generate an E-ticket in PDF format meeting the requirements
22	of 1-09.2(1)A2. The information shall be immediately uploaded to a
23	designated site so the information can be accessed by the Inspector located
24	at the material delivery site.
25	4 00 2 CD4
26	1-09.3.GR1
27	Scope of Payment
28	4 00 0 INOT4 OD4
29	1-09.3.INST1.GR1
30	Section 1-09.3 is supplemented with the following:
31	4 00 2 ODT4 FD4
32	1-09.3.OPT1.FR1
33	(August 7, 2017)
34	Fuel Cost Adjustment
35	General
36	The Contracting Agency will make a fuel cost adjustment, either a credit or a
37	payment, for qualifying changes in the index price of on-highway diesel fuel. The
38	adjustment will be applied to partial payments made according to Section 1-09.9.
39	
40	The adjustment is not a guarantee of full compensation for fuel price changes. Any
41	adjustment provided by this provision shall not obligate the Contracting Agency for
42	any costs due solely to changes in fuel costs beyond the amount adjusted by this
43	provision. The Contracting Agency does not guarantee that fuel will be available at
44	the base fuel cost or monthly fuel cost. No additional adjustment will be made for
45	rates of fuel consumption or actual fuel types that differ from those specified for the
46	purpose of determining the adjustment.
47	

http://www.eia.gov/petroleum/gasdiesel/

website location and directions are as follows:

General Special Provisions Division 1-09

48

49 50

51 52

November 20, 2023 Page 1

For the purpose of calculating the adjustment, the Base Fuel Cost shall be the

Weekly fuel price from the U.S. Energy Information Administration website. The

Payment

*** \$\$3\$\$ ***

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Payment will be made for the following bid item when included in the bid proposal:

*** \$\$4\$\$ ***

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"Fuel Cost Adjustment", by calculation.

To provide a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the Contractor's total bid.

1-09.3.OPT2.FR1

(August 6, 2018)

Steel Cost Adjustment

The Contractor may elect to participate in the steel cost adjustments for work permanently incorporated into this Contract. Steel cost adjustment is not a guarantee of full compensation for changes to the cost of steel items; not eligible for all items with steel; and any adjustment provided by this provision will not obligate the Contracting Agency for any costs beyond the amount adjusted by this provision.

This Special Provision provides the option to opt-in to steel cost adjustments for eligible Bid items. The Contractor is provided one opportunity to opt-in and there are no future opt-out provisions. The steel cost adjustment requirements of this Special Provision apply for the duration of the Contract.

General

 The Contractor may select Bid items from the list below to be included in the steel cost adjustment. The Contractor is not obligated to select any Bid items or to participate in the steel cost adjustment program. The steel cost adjustment will apply only to the Bid items selected by the Contractor.

Prior to Contract execution the Contractor shall submit the Steel Cost Adjustment Opt-In Bid Item List, WSDOT Form 410-031, to the WSDOT Contract Ad and Award Office. The form is to be received at the WSDOT Bid Room, located at the Transportation Building, 310 Maple Park Avenue SE, Room 2D20, Olympia, WA 98501-2361 or may be submitted by facsimile to the following FAX number, (360) 705-6966. The Steel Cost Adjustment Opt-In Bid Item List shall be signed by an authorized representative of the Contractor. Should the Contractor fail to return this document as required no Bid items will be eligible for steel cost adjustment.

Steel Index Values

The Contracting Agency will use the Bureau of Labor Statistics (BLS) producer price index (PPI) series Id: WPUSISTEEL1 index value for steel cost adjustments.

The Base Steel Materials Index Value (BV) will be the most recent value published on the BLS website on the day of bid opening. This value will be fixed on the day of bid opening even if the BLS lists this as a preliminary value. The Monthly Steel Materials Index Value (MV) will be the final index value published on the BLS website for any month during the Contract.

Measurement

 The Contracting Agency has determined the initial cost basis (ICB) of steel to be *** \$\$1\$\$ ***. This cost basis is reflected in the steel cost adjustment calculations below, is non-negotiable and will be taken as a fixed value for the duration of the Contract.

For each month that steel material is incorporated into the permanent Work of the Contract or paid for as Materials on Hand and the MV is more than 110 percent or

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above

BV = Base Steel Materials Index Value taken as the most recent value published on the BLS website on the day of bid opening.

ICB = Initial Cost Basis of steel per pound

WS = Weight of steel (in pounds) eligible for cost adjustment

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1 2 The following Bid Items are eligible for the steel cost adjustment program for this 3 Project: 4 5 *** \$\$2\$\$ *** 6 7 **Payment** 8 Payment will be made for the following bid item when included in the bid proposal: 9 10 "Steel Cost Adjustment", by calculation. 11 12 To provide a common proposal for all bidders, the Contracting Agency has entered 13 an amount in the proposal to become a part of the Contractor's total bid. 14 15 1-09.8.GR1 16 **Payment For Material On Hand** 17 18 1-09.8.INST1.GR1 19 The last paragraph of Section 1-09.8 is revised to read: 20 21 1-09.8.OPT1.GR1 22 (August 3, 2009) 23 The Contracting Agency will not pay for material on hand when the invoice cost is less 24 than \$2,000. As materials are used in the work, credits equaling the partial payments for 25 them will be taken on future estimates. Each month, no later than the estimate due date, 26 the Contractor shall submit a letter to the Engineer that clearly states: 1) the amount 27 originally paid on the invoice (or other record of production cost) for the items on hand, 2) 28 the dollar amount of the material incorporated into each of the various work items for the 29 month, and 3) the amount that should be retained in material on hand items. If work is 30 performed on the items and the Contractor does not submit a letter, all of the previous 31 material on hand payment will be deducted on the estimate. Partial payment for materials 32 on hand shall not constitute acceptance. Any material will be rejected if found to be faulty 33 even if partial payment for it has been made. 34 35 1-09.9.GR1 36 **Payments** 37 38 1-09.9(1).GR1 39 Retainage 40 41

1-09.9(1).INST1.GR1

42

43 44

45

46

Section 1-09.9(1) content and title is deleted and replaced with the following:

1-09.9(1).OPT1.GR1

(June 27, 2011)

Vacant

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1 1-10.GR1 2 **Temporary Traffic Control** 3 4 1-10.1.GR1 5 General 6 7

1-10.1.INST1.GR1

Section 1-10.1 is supplemented with the following:

1-10.1.OPT1.FR1

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(April 1, 2013)

The Contracting Agency will provide the following labor, equipment and/or materials resources to the Contractor for use on the project.

*** \$\$1\$\$ ***

The Contractor shall notify the Engineer when each resource is to be utilized and shall provide a minimum of *** \$\$2\$\$ *** working days advance notice to allow any necessary arrangements to be made.

1-10.1.OPT2.FR1

(May 20, 2020)

The Contracting Agency has arranged for the Washington State Patrol (WSP) to perform the following tasks during the project:

*** \$\$1\$\$ ***

There shall be no entitlement for any impacts for any reason as a result of WSP personnel.

WSP personnel may not be used for any other work without prior acceptance from the Engineer. The acceptance will identify the added work allowed, the terms under which the WSP personnel may be used for the added work, and how the cost of the added work will be shared by the Contractor and Contracting Agency.

This resource is provided at no additional cost to the Contractor for the initial *** \$\$2\$\$ *** hours and includes all costs (e.g., WSP labor, vehicle miles, etc.). Additional hours of WSP personnel may be requested by the Contractor. If allowed by the Engineer, the cost for these hours will be shared by the Contracting Agency and the Contractor. The Contractor's share of the cost for additional hours will be one-half of the amount billed by the law enforcement agency.

All costs for cancelled work due to unsuitable weather will be shared by the Contracting Agency and the Contractor. The Contractor's share of the cost for cancelled work will be one-half of the amount billed by the law enforcement agency, regardless of when the actual work occurs. All costs for cancelled work for any other reason shall be the full responsibility of the Contractor.

The Contractor's share of costs for additional hours of uniformed law enforcement personnel will be credited to the Contracting Agency under the bid item "WSP Reimbursement", by calculation.

50 51

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Page 1 November 20, 2023

1	1-10.1(1).GR1
2	Materials
3	
4	1-10.1(1).INST1.GR1
5	Section 1-10.1(1) is supplemented with the following:
6	
7	1-10.1(1).OPT1.GR1
8	(January 10, 2022)
9	Automated Flagger Assistance Devices
10	Automated Flagger Assistance Devices (AFADs) shall meet the requirements of the
11	MUTCD Red/Yellow Lens Automated Flagger Assistance Devices.
12	WOTOD Red/Tellow Letts Automated Flagger Assistance Devices.
13	1-10.2.GR1
14	Traffic Control Management
15	4.40.0 INOT4.0D4
16	1-10.2.INST1.GR1
17	Section 1-10.2 is supplemented with the following:
18	
19	1-10.2.OPT1.GR1
20	(November 2, 2022)
21	Work Zone Safety Contingency
22	Enhancements to improve the effectiveness of the accepted traffic control plans to
23	increase the safety of the work zones shall be discussed on a weekly basis between the
24	Contractor and the Contracting Agency. Enhancements shall be mutually agreed upon by
25	the Contractor and Engineer prior to performing any Work to implement the enhancement.
26	
27	Enhancements do not include the use of Uniformed Police Officers or WSP, address
28	changes to the allowed work hour restrictions, or changes to the staging plans in the
29	Contract (if applicable). If allowed by the Engineer, these items will be addressed in
30	accordance with Section 1-04.4.
31	
32	The Contractor shall be solely responsible for submitting any traffic control plan revision
33	to implement the enhancement in accordance with Section 1-10.2(2).
34	to imploment the official content accordance with cooler 1 10.2(2).
35	1-10.2(1).GR1
	General
36	General
37	4 40 0/4) INICTA CD4
38	1-10.2(1).INST1.GR1
39	Section 1-10.2(1) is supplemented with the following:
40	4.40.0/4\\ ODT4.0D4
41	1-10.2(1).OPT1.GR1
42	(October 3, 2022)
43	The Traffic Control Supervisor shall be certified by one of the following:
44	
45	The Northwest Laborers-Employers Training Trust
46	27055 Ohio Ave.
47	Kingston, WA 98346
48	(360) 297-3035
49	https://www.nwlett.edu
50	
51	Evergreen Safety Council
52	12545 135 th Ave. NE

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1	Kirkland, WA 98034-8709				
2	1-800-521-0778				
3	https://www.esc.org				
4	TI A T				
5	The American Traffic Safety Services Association				
6	15 Riverside Parkway, Suite 100				
7	Fredericksburg, Virginia 22406-1022				
8	Training Dept. Toll Free (877) 642-4637				
9	Phone: (540) 368-1701				
10	https://atssa.com/training				
11					
12	Integrity Safety				
13	13912 NE 20th Ave.				
14	Vancouver, WA 98686				
15	(360) 574-6071				
16	https://www.integritysafety.com				
17					
18	US Safety Alliance				
19	(904) 705-5660				
20	https://www.ussafetyalliance.com				
21					
22	K&D Services Inc.				
23	2719 Rockefeller Ave.				
24	Everett, WA 98201				
25	(800) 343-4049				
26	https://www.kndservices.net				
27					
28	1-10.2(1).OPT2.GR1				
29	(January 5, 2015)				
30	The primary TCS shall have a minimum of 500 hours of experience providing traffic				
31	control as a TCS or traffic control labor on multilane highways with a speed limit of				
32	55 mph or greater. The Contractor shall submit a certification of the TCS's				
33	experience with the TCS designation. Documentation of experience shall be				
34	available upon request by the Engineer.				
35					
36	1-10.2(9-35).GR1				
37	Temporary Traffic Control Materials				
38	Section 9-35 is supplemented with the following:				
39					
40	1-10.2(9-35).OPT1.GR1				
41	(October 3, 2022)				
42	Temporary portable transverse rumble strips must be either the black RoadQuake 2				
43	or the black RoadQuake 2F Folding Temporary Portable Rumble Strip manufactured				
44	by Plastic Safety Systems, Inc., all black Traffix Alert High Speed Rumble Strip				
45	manufactured by Traffix Devices or an approved equal.				
46					
47	Devices submitted for approval shall meet the following criteria:				
48					
49	1. Length will be a minimum of 11 feet long.				
50	3				
51	2. Width will be a minimum of 10 inches.				
52					

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1	3.	Provides a bevel on leading edge.	
2	4.	Weighs a minimum of 100 lbs.	
4 5	5.	No greater than ¾-inch profile height.	
6 7 8	6.	Flexible along the length of the strip to facilitate conformity to the road surface.	
9 10 11	7.	Withstands temperatures 0 to 180 degrees Fahrenheit without degradation in deployment, use or safety.	
12 13 14 15	8.	Function on roads with posted speed limits up to 70 mph; and retain original placement with minimal movement such that performance is not compromised.	
16 17	9.	Deemed safe by the manufacturer for use by motorcycles.	
18 19 20 21	1-10.3.GR1 Traffic Contro	Labor, Procedures and Devices	
22 23	1-10.3.INST1.GF Section 1-10.3 is	R1 supplemented with the following:	
24 25 26 27 28 29 30 31	The Contra jurisdiction t is a sworn po		
32 33 34	The following contact information for potential service providers is supplied for the Contractor's convenience:		
35 36	*** \$\$1	\$\$ ***	
37 38	1-10.3(3).GR1		
39 40		ntrol Devices	
41 42 43	1-10.3(3).INST1. Section 1-10	GR1 0.3(3) is supplemented with the following:	
44 45 46 47	Autom	GR1 ry 10, 2022) ated Flagger Assistance Devices neral	
47 48		nere shown on an accented traffic control plan, the Contractor shall provide	

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operate and maintain AFADs.

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An AFAD is a self-contained, portable traffic control system that enables a flagger to avoid standing on the roadway while still controlling road users alternating through a single open lane.

AFAD Operation

Each AFAD shall be controlled only by a flagger who has been trained on the operation of the AFADs by a manufacturer or supplier representative in addition to the requirements in accordance with Section 1-10.3(1)A. The flagger shall be positioned to visually see both the AFAD and approaching traffic. When this is not feasible, digital alternatives are allowable. The flagger is prohibited from leaving the AFAD unattended at any time while the AFAD is in operation and controlling traffic.

If AFAD repairs are required, the Contractor shall control traffic with flaggers and stop/slow paddles and the AFAD shall be repaired or replaced within 48 hours.

AFAD Location and Use

An AFAD shall only be used in situations where there is only one lane of approaching traffic in the direction to be controlled. AFADs shall not be used within 1500 feet of existing or temporary traffic signals. When used at night, the AFAD location shall be illuminated in accordance with Section 1-10.3(1)A.

The AFAD may be positioned up to the edge of the open travel lane without any lateral clearance, but only the AFAD gate arm can be within the open travel lane when traffic is being stopped. The AFAD shall be delineated by at least 3 transverse channelization devices in advance when not within a closed lane or shoulder.

The "STOP HERE ON RED" R10-6 (24"x36", B/W) or R10-6a (24"x36", B/W) sign may be attached to the AFAD below the Red/Yellow lens. The AFAD may have a supplemental amber LED changeable message sign with minimum 10-inch characters attached to provide road users additional information, provided it does not block any signal display or signage.

The Engineer may order adjustments to the location as needed based on traffic and field conditions. The Contractor shall avoid placing the AFAD within or immediately following horizontal and/or vertical curves when feasible.

Setup and Takedown

During the setup and take down operation of the work area, the AFAD display shall be set to a yellow flash mode when the signal heads are deployed into normal operating position.

Except during setup prior to use and removal after use, the AFAD shall be removed from the work zone clear zone when not in use unless protected by barrier or guardrail.

1-10.3(3).OPT2.GR1

(January 2, 2018)

Radar Speed Display Sign

Where shown on an approved traffic control plan or where ordered by the Engineer, the Contractor shall provide, operate, and maintain radar speed display signs

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1 2 3 4 5	(RSDS). A RSDS shall be placed with a minimum of 4 ft. of lateral clearance to edge of a travelled lane and be delineated by channelization devices. The Contractor shall remove the RSDS from the clear zone when not in use unless protected by barrier or guardrail.
6	1-10.3(3).OPT3.FR1
7	(October 3, 2022 2, 2023)
8	Smart Work Zone System
9	Where shown on an approved traffic control plan, the Contractor shall provide,
10	operate, maintain, and remove a Smart Work Zone System. A Smart Work Zone
11	System (SWZS) uses portable roadside sensor information to display real-time
12	dynamic work zone traffic information and instructions to motorists on a series of
13	Portable Changeable Message Signs (PCMSs) approaching a work zone.
14	
15	The SWZS shall be capable of communicating three types of work zone traffic
16	information:
17	
18	 Queue detection warning for slowed or queued traffic ahead.
19	
20	2. Dynamic lane merge guidance to use all open lanes up to the lane closure
21	tapers and zipper merge instructions during times of congestion.
22 23	3. Work zone travel delay for current work zone delays in minutes.
23 24	 Work zone travel delay for current work zone delays in minutes.
25	In locations with multiple SWZS setups each setup shall be capable of operating
26	independently. One SWZS Technician may operate all systems concurrently.
27	independently. One or 20 footimolan may operate an eyeleme contention.
28	Vendor
29	The Contractor shall select an independent vendor listed below to provide the SWZS
30	as shown on an approved SWZS Plan:
31	
32	
33	Hill and Smith Inc.
34	Phone: (302) 328-3220
35	Website: https://www.hillandsmith.com/portfolio category/its-smart-work-zone/
36	IOONE has IOONE Bur donate
37	ICONE by ICONE Products
38 39	Phone: (315) 626-6800
39 40	Website: http://iconeproducts.com/
1 0 41	Road-Tech Safety Services, Inc.
42	Phone: (888) 762-3832
43	Website: https://www.road-tech.com/
44	Trobotto. Interest, The Trobotto
45	Salander LLC
46	Phone: (812) 777-5637
47	Website: https://www.slndrtech.com/
48	Superior Traffic Services
49	Phone: (509) 220-0339
50	Website: https://www.superiortrafficservices.com

SolarTech

51 52

1 Phone: (610) 391-8600 2 Website: http://solartechnology.com/ 3 4 **Street Smart** 5 Phone: (888) 653-6800 6 Website: https://www.streetsmartrental.com/smart-work-zones/ 7 8 Superior Traffic Services 9 Phone: (888) 928-5999 10 https://www.superiortrafficservices.com/ 11 12 Ver-Mac 13 Phone: (888) 488-7446 14 Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones 15 16 **WANCO** 17 Phone: (800) 972-0755 18 Website: https://www.wanco.com 19 20 **Devices and Communications** 21 The Contractor and/or Vendor shall provide all devices necessary to operate the 22 system in accordance with the accepted traffic control plans and these specifications. 23 24 The traffic sensors shown in the traffic control plans in advance of lane closure tapers 25 are used to operate the SWZS by detecting vehicle speed approaching the lane 26 closures, where queuing is expected. Typically, these traffic sensors use Doppler 27 radar technology. 28 29 Separate side-fire traffic sensor(s), Wavetronix SmartSensor HD or similar accepted 30 by the Engineer, shall be post-mounted or trailer-mounted to obtain traffic 31 volume/speed data where shown in the traffic control plans. If not shown, then the 32 side-fire traffic sensor shall be placed after the final lane closure taper but before 33 lanes are reopened or any open on-ramps to measure the following: 34 35 Traffic volume, in vehicles per hour per open lane 36 37 2. Speed – time graph used to determine the median & 85th percentile speed 38 in each open lane 39 The Contractor shall use and relocate as necessary side-fire traffic sensor(s) at 40 41 locations compatible with lane closures. As an alternative, multiple side-fire traffic 42 sensors can be used throughout the project limits provide the traffic volume/speed 43 data remains accurate. 44 45 A vendor website or other wireless remote system is required for monitoring SWZS 46 functions and remote management of PCMS messages. 47 48 **Technician** 49 The Vendor shall provide a technician skilled in the operation of all system equipment 50 and software. The technician may be an employee of the Vendor or someone trained 51 and authorized by the Vendor to operate the system. The technician shall be

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November 20, 2023 Page 7

independent of the Contractor and Traffic Control Supervisor but shall collaborate

and coordinate as appropriate. The technician shall be on site while the SWZS is in use and able to respond to system issues in person.

Duties of the Technician include, but are not limited to, the following:

- Program the automated, real-time operation of the SWZS with traffic sensor trigger speed thresholds and PCMS messages shown on the approved SWZS Plan.
- 2. Service, debug, troubleshoot, and maintain all SWZS components.
- 3. Maintain SWZS equipment maintenance logs.
- 4. Collect and process system data and provide data as described below:
 - a. System Data System data shall include:
 - i. Data in table format of traffic volume (vehicles per hour per each open lane), 50th-percentile traffic speed of all open lanes, and 85th-percentile traffic speed of all open lanes for 15-minute intervals organized by Day and Hour of day for each SWZS implementation measured by the side-fire traffic sensor.
 - ii. Day and Hour of day each traffic sensor was triggered, and the message displayed on each PCMS while the SWZS is in use.
 - Agency Access to System Data Provide password protected access to the Engineer and identified Agency personnel to the System Data via a dedicated website or other wireless remote system.
 - c. **Provide System Data to Agency** At the completion of the Project, provide System Data logs in an electronic format approved by the Engineer.
- 5. Immediately respond to all system failures in accordance with the **Smart Work Zone System Failure Protocol** section of these Specifications.

Operation

Operate the SWZS according to the following:

Scheduled Use

Use a dynamic lane merge, queue detection warning, and work zone travel delay system on the following roadway(s), locations, and work operations:

*** \$\$1\$\$ ***

Installation, Relocation, Removal, and Storage

The Contractor shall store, install, relocate, and remove all the SWZS components as follows:

General Special Provisions Division 1-10

- 1. Install all components with the SWZS Technician's concurrence at least 30 minutes prior to commencing the first lane closure
- Relocate components as necessary with the SWZS Technician's concurrence
- 3. Assist the Technician as needed when the Smart Work Zone System Failure Protocol occurs
- 4. Remove all components within the Work Zone Clear Zone within 60 minutes when no longer required unless components are placed behind guardrail or barrier.

Initial SWZS Turn-On Meeting

The Contractor shall arrange a meeting at least one week before the initial system turn-on.

The meeting shall include the Contractor, Traffic Control Manager, Traffic Control Supervisor, Alternative Traffic Control Supervisor (if applicable), SWZS Technician, and WSDOT Project Engineering Office staff.

During this meeting, the following topics should be discussed at a minimum:

- 1. Provide and review the approved traffic control plans, including lane closure plans and the associated SWZS plan that will be used.
- 2. Review roles and responsibilities for implementation of the SWZS.
- 3. Provide contact information for critical personnel.
- 4. Provide a schedule of the anticipated operation times, dates and durations for the initial operation.
- 5. Review Measurement and Payment for duties related to SWZS installation, operation, and removal.

SWZS Operation Coordination and Collaboration

The Contractor shall notify the Engineer at least 72 hours in advance of using the SWZS including providing a schedule of the anticipated operation times, dates and durations for each subsequent operation.

The Contractor's Traffic Control Management shall coordinate and collaborate as needed for the successful implementation of the SWZS and associated lane closures. Any delays and associated costs due to implementing the SWZS shall be at the Contractor's expense.

Smart Work Zone System Failure Protocol

In the event of a failure, perform the following protocol:

SWZS Technician – Upon discovery of the malfunction, perform the following:

General Special Provisions Division 1-10

- a. Immediately notify Contractor Traffic Control Management.
- b. Begin troubleshooting the SWZS to address the malfunction.
- c. If the malfunction is not resolved within 15 minutes, notify Contractor Traffic Control Management. The SWZS shall be taken out of service and repaired within 12 hours of the malfunction.
- 2. **Contractor Traffic Management** After receiving the initial notification of the malfunction, perform the following:
 - a. Notify the Traffic Control Supervisor.
 - b. Prepare crews to immediately implement the Emergency PCMS Implementation if the malfunction is not resolved within 15 minutes.
 - c. Notify the Engineer of the malfunction and failure protocol status.
 - d. Collaborate with SWZS Technician to provide replacement parts needed to make repairs to the SWZS within 12 hours of the system or a system component malfunction.
- 3. **Emergency PCMS Implementation** If the SWZS Technician has not resolved the issue within 15 minutes, perform following failure protocol:
 - Install two PCMSs as described below until the SWZS is repaired, functioning properly, and back in service or until all lane closures have been reopened. The PCMSs may be from the SWZS if needed.
 - PCMS #1: Maintain positioned 0.5 ± mile in advance of traffic queue, relocated as necessary, except when no traffic queue is present. PCMS #1 may be truck-mounted.

Phase 1	Phase 2
SLOW OR	NEXT
STOPPED	#
TRAFFIC	MILES

Where "#" is the approximate queue length rounded up to the nearest mile

ii. PCMS #2: Place 1.5 ± mile in advance of first lane closure taper. Program message as appropriate. Phase 1 is to describe the current lane closure in place. Phase 2 is to describe the distance ahead to the beginning of the first lane closure rounded up to the nearest 0.5 mile interval. For example, if a double right lane closure is 1.5 mile ahead, the PCMS message would be: "2 RIGHT LANES CLOSED" / "1.5 MILE AHEAD".

1 1-10.3(3).OPT4.FR1 2 (October November 20, 20233, 2022) 3 **Queue Warning System** 4 Where shown on an accepted traffic control plan, the Contractor shall provide, 5 operate, maintain, and remove a Queue Warning System. A Queue Warning System 6 (QWS) uses portable roadside sensor information to display real-time traffic queue 7 information to motorists on Portable Changeable Message Signs (PCMS) 8 approaching a work zone. QWS is a simplified smart work zone system intended for 9 work zone queues up to 2 miles, measured from the first lane closure taper, but may 10 be modified for queuing up to 3 miles by extending spacing between the two PCMSs from 1± mile to 1.5 ± mile spacing and adjusting the PCMS messages. Traffic sensor 11 12 placement remains unchanged. 13 14 The QWS shall be capable of communicating two types of work zone traffic 15 information: 16 17 **Queue detection warning** for slowed or gueued traffic ahead. 1. 18 19 2. **Dynamic lane merge** guidance to use all open lanes up to the lane closure 20 tapers and to take turns at merges during times of congestion. 21 22 In locations with multiple QWS setups each setup shall be capable of operating 23 independently. One QWS Technician may operate all systems concurrently. 24 25 **Vendors** 26 The Contractor shall select an independent vendor listed below to provide a QWS as 27 shown on an accepted traffic control plan: 28 29 Hill and Smith Inc. 30 Phone: (302) 328-3220 31 Website: https://www.hillandsmith.com/portfolio category/its-smart-work-zone/ 32 33 **ICONE by ICONE Products** 34 Phone: (315) 626-6800 35 Website: http://iconeproducts.com/ 36 37 Road-Tech Safety Services, Inc. 38 Phone: (888) 762-3832 39 Website: https://www.road-tech.com/ 40 41 Salander LLC 42 Phone: (812) 777-5637 43 Website: https://www.sIndrtech.com/ **Superior Traffic Services** 44 45 Phone: (509) 220-0339 46 Website: https://www.superiortrafficservices.com

> SolarTech Phone: (610

Phone: (610) 391-8600

50 Website: http://solartechnology.com/

52 Street Smart

47 48

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1	Phone: (888) 653-6800				
2	Website: https://www.streetsmartrental.com/smart-work-zones/				
3					
4	Ver-Mac				
5	Phone: (888) 488-7446				
6	Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones				
7					
8	WANCO				
9	Phone: (800) 972-0755				
10	Website: https://www.wanco.com				
11					
12	Devices and Communications				
13	The Contractor and/or Vendor shall provide all devices necessary to operate the				
14	system in accordance with the accepted traffic control plans and these specifications.				
15					
16	The traffic sensors shown in the traffic control plans in advance of lane closure tapers				
17	are used to operate the SWZS by detecting vehicle speed approaching the lane				
18	closures, where queuing is expected. Typically, these traffic sensors use Doppler				
19	radar technology.				
20	radar toormology.				
21	A vendor website or other wireless remote system is required for monitoring QWS				
22	functions and remote management of PCMS messages.				
23	idiolono dia remete management er reme mescages.				
24	Technician				
25	The Vendor shall provide a technician skilled in the operation of all system equipment				
26	and software. The technician may be an employee of the Vendor or someone trained				
27	and authorized by the Vendor to operate the system. The technician may be				
28	Contractor or subcontractor personnel, including the Traffic Control Supervisor. The				
29	technician is not required be on site while the QWS is in use but must be able to				
30	respond to any system issues remotely.				
31	respond to diff eyetem locade femotory.				
32	Duties of the Technician or trained traffic control personnel include, but are not limited				
33	to, the following:				
34	to, the following.				
35	1. Program the automated, real-time operation of the QWS with traffic sensor				
36	trigger speed thresholds and PCMS messages shown on the accepted				
37	traffic control plan or in these Specifications.				
38	traine control plan of in these opecinications.				
39	2. Service, debug, troubleshoot, and maintain all QWS components.				
40	2. Service, debug, troubleshoot, and maintain all QVV3 components.				
41	3. Maintain QWS equipment maintenance logs.				
42	5. Maintain QWS equipment maintenance logs.				
43	4. Immediately respond to all system failures in accordance with the Queue				
44	Warning System Failure Protocol section of these Specifications.				
45	warning system randle Protocol Section of these Specifications.				
46	Operation				
47	Operation Operate the OWS according to the following:				
	Operate the QWS according to the following:				
48 49	Scheduled Use				
50	Use the QWS on the following roadway(s), locations, and work operations:				
51	ose the gives on the following roadway(s), locations, and work operations.				
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General Special Provisions Division 1-10

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Installation, Relocation, Removal, and Storage

The Contractor or subcontractor shall store, install, relocate, and remove all the QWS components as follows:

- Install all QWS components with the QWS Technician's concurrence prior to commencing the first lane closure.
- Relocate components as necessary with the QWS Technician's concurrence.
- 3. Assist the Technician as needed when the Queue Warning System Failure Protocol occurs.
- 4. Remove all components within the Work Zone Clear Zone when no longer required unless components are placed behind quardrail or barrier.

QWS Operation Coordination and Collaboration

The Contractor shall notify the Engineer at least 72 hours in advance of using the QWS including providing a schedule of the anticipated operation times, dates and durations for each subsequent operation.

The Contractor's Traffic Control Management shall coordinate and collaborate as needed for the successful implementation of the QWS and associated lane closures. Any delays and associated costs due to implementing the QWS shall be at the Contractor's expense.

Queue Warning System Failure Protocol

In the event of a failure that is not resolved within 15 minutes, reprogram QWS PCMSs to display the following message for the remainder of the Scheduled Use duration:

PCN	MS 1	PCMS 2		
Phase 1	Phase 2	Phase 1	Phase 2	
WATCH	NEXT	(Lane)	1	
FOR SLOW	2	(Closure)	MILE	
TRAFFIC	MILES	(Description)	AHEAD	
2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	

closure taper

PCMS 1 placed 2± miles from first lane PCMS 2 placed 1± mile from first lane closure taper

(Lane Closure Description) message is similar to LEFT LANE CLOSED or LEFT 2 LANES CLOSED.

If the QWS as modified for queuing up to 3 miles, then modify the messaging as follows:

	PCMS 1	PCMS 2	
Phase 1	Phase 2	Phase 1	Phase 2

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WATCH NEXT (Lane) 1.5 FOR SLOW 3 (Closure) MILES TRAFFIC MILES (Description) AHEAD 2.0 SEC 2.0 SEC 2.0 SEC 2.0 SEC

PCMS 1 placed 3± miles from first lane closure taper

PCMS 2 placed 1.5± miles from first lane closure taper

1 2 3

4

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1-10.3(3).OPT5.GR1

(October 3, 2022)

Temporary Portable Transverse Rumble Strips

Where shown on a traffic control plan, the Contractor shall provide, install, and maintain temporary portable transverse rumble strips.

7 8 9

Temporary portable transverse rumble strips may be used on two-way, two-lane roadways in conditions requiring traffic to stop.

10 11 12

13

14

Do not place temporary portable transverse rumble strips on sharp horizontal or vertical curves, through pedestrian crossings or on bicycle routes. When placed on roadways used by bicyclists a minimum clear path of 4 feet shall be provided at each edge of the roadway or on each paved shoulder if feasible.

15 16 17

The Contractor shall remove the temporary portable transverse rumble strips in their entirety when they are no longer needed.

18 19 20

All damage caused by removing temporary portable transverse rumble strips shall be repaired by the Contractor at no additional cost to the Contracting Agency.

21 22 23

1-10.3(3)(9-35.8).GR1

Vacant

Section 9-35.8 is revised to read:

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1-10.3(3)(9-35.8).OPT1.GR1

(April 1, 2019)

Radar Speed Display Sign

Radar Speed Display Signs (RSDS) shall consist of a fully self-contained seethrough trailer with power supply and an LED speed indicator display with a one-direction radar. Above or below the display shall be the message "YOUR SPEED" or "YOUR SPEED IS" in letters of 5 to 8 inches in height. The lowest portion of the display shall be high enough to be visible over concrete barriers or safety drums and a 36"x48" speed limit sign as shown on the approved traffic control plan shall be mounted above the speed display.

36 37 38

39

The radar speed measurement shall provide a minimum detection distance of 1000 ft. and have an accuracy of +/ - 1 mile per hour. The radar shall be mounted so detection will function when located behind concrete barrier or drums.

40 41 42

43

The numeric speed display range shall be 0 to 99 MPH with numerals of 18 inches in height minimum, amber in color with a black background with automatic dimming for nighttime operations.

44 45

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1 2 3 4 5	The speed indicator display shall be equipped with a violation alert that flashes the displayed detected speed when the work zone posted speed limit is exceeded. The speed indicator shall have a maximum speed cutoff. Detected speeds more than 2 MPH over the posted speed shall not be displayed and speeds under 25 MPH shanot be displayed.				
6 7 8 9			ve traffic data collection capabilities. Traffic data shall be collected to the Engineer upon request.		
10 11	1-10.3(3)B.GR1	A ##0	w Signa (Aurow Boardo)		
12	Sequential	AIIU	w Signs (Arrow Boards)		
13	1-10.3(3)B(9-35.4).G	R1			
14	Sequential		w Signs		
15	-		supplemented with the following:		
16					
17					
18	1-10.3(3)B(9-35.4).O				
19	(Octob				
20			emote Communications Requirements		
21	•		Arrow Signs (Arrow Boards) on this project shall also have the		
22 23	IOIIOWII	ig coi	mmunication abilities:		
23 24	1.	Pro	vide electronic Work Zone Data Exchange (WZDx) Specification		
25			npliant data feeds to Contracting Agency from the arrow board or		
26			Arrow Boards central server.		
27					
28	2.	Arr	ow Boards used on this project shall have the ability to transmit its		
29			S coordinates (latitude and longitude) with an accuracy of 30-foot		
30		dia	meter of its actual location.		
31					
32	3.		ow Boards shall transmit its GPS coordinates and mode of		
33			eration data to a compatible publicly accessible mapping app		
34		ser	vice.		
35 26	1	۸rr	ow Boards shall transmit status and location as follows:		
36 37	4.	AII	JW BOAIUS SHAII ITANSINII STATUS AND TOCATION AS TOHOWS.		
38		a.	Mode change within 2 minutes.		
39		u.	Mode ondrige within 2 minutes.		
40		b.	Location (if moved more than 500 feet) within 2 minutes.		
41			,		
42		C.	Health checks every 30 minutes.		
43					
44		d.	Current "indication" posted on Board (e.g., left or right chevron		
45			arrow direction, four corner flash, etc.).		
46	I.f. A	. D - ·	and many aims are assumed the Contract of the Heavy to th		
47 40			rd repairs are required, the Contractor shall control traffic with Arrow		
48	Board	wittiOl	ut GPS and remote communication abilities, and the Arrow Board		

Board without GPS and remote communication abilities, and the Arrow Board needing repairs shall be repaired or replaced within 48 hours.

Arrow Boards shall be deactivated immediately when the unit is not in use in accordance with the accepted traffic control plan.

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Any data service costs for communications will be included in the unit cost per hour for Sequential Arrow Sign.

1-10.3(3)K.GR1

Portable Temporary Traffic Control Signal

1-10.3(3)K.INST1.GR1

Section 1-10.3(3)K is revised to read:

1-10.3(3)K.OPT1.2024.GR1

(November 2, 2022)

Where shown on a traffic control plan, the Contractor shall provide, operate, maintain, and remove a portable temporary traffic control signal system (PTSS) to provide automatic control of traffic through an intersection or alternating one-lane traffic operations on a two-way facility. A PTSS shall be defined as two or more traffic control units that operate together. The system shall be trailer-mounted, fully self-contained, and designed so that it can be easily transported and deployed at different locations.

The Contractor shall submit a Type 2 Working Drawing consisting of the manufacturer's specifications for the PTSS. A manufacturer's representative is required to demonstrate the capabilities of the PTSS prior to approval and provide training to Contractor personnel as necessary.

Remote manual control of the PTSS by the Traffic Control Supervisor (TCS) or a qualified operator may be allowed if necessitated by Work area or traffic conditions and as allowed by the Engineer.

Each PTSS shall provide two signal displays for all road approaches and driveways with existing signalization. Where signal displays are used for driveways between primary PTSS signal displays, only one signal display may be used. Where a PTSS controls a roadway with a through movement, one of the signal displays for that approach shall be overhead. Where a PTSS controls a roadway without a through movement, such as the stem of a tee intersection, the use of an overhead signal display is not required if there is not enough room for the trailer and approved by the Engineer. Maximum distance between signal display trailers shall be 1,500 feet, unless otherwise shown on the Plans or ordered by the Engineer in accordance with Section 1-04.4.

The Engineer or designee will inspect the PTSS at initial installation/operation and approve the signal timing. Final approval will be based on the results of the operational inspection.

The TCS shall monitor and ensure that the PTSS is fully operational and maintained as specified by the manufacturer. This Work may include cleaning and replacing lamps and other routine maintenance as needed.

In the event repairs or adjustments are required, the Contractor shall respond immediately and replace the PTSS operations with flagger traffic control. Flagger control shall remain in operation until the Roadway can be safely

General Special Provisions Division 1-10

reopened to traffic. PTSS repairs or PTSS replacement with backup units shall occur within 24 hours.

The Engineer will monitor PTSS operations and order adjustments as needed based on traffic conditions. Timing adjustments require the approval of the Engineer.

As shown on the traffic control plan, temporary stop bars and "STOP HERE ON RED" Signs (R10-6) shall be provided at the location traffic is expected to stop during the red display. The stop bar locations shall be illuminated at night. The illumination shall be the responsibility of the Contractor and shall be adjusted to ensure minimal glare to motorists.

When not in operation, remove signal heads from the view of traffic or cover signal heads with bags made of non-ripping material specifically designed for covering signal heads, including reflective backplates. Do not use trash bags of any type. Remove, cover, fold, or turn all inappropriate signs so that they are not readable by oncoming traffic.

The Contractor shall provide and install all field wiring to make a complete and operational PTSS and shall maintain the system throughout the life of the Contract.

PTSS shall not be installed within 300 feet of at-grade railroad crossing. PTSS shall not be installed where driveways or Roadway access points are located between the primary signal displays unless the intersecting roadways and driveways are controlled by another PTSS signal unit as part of the overall PTSS.

1-10.3(3)K(9-35.14).GR1

Portable Temporary Traffic Control

Section 9-35.14 is revised to read:

1-10.3(3)K(9-35.14).OPT1.2024.GR1

(November 2, 2022)

Portable temporary traffic control signal systems (PTSS) shall meet the requirements of the MUTCD and these specifications.

The PTSS shall be fully operational for traffic actuated, pre-timed, or manual control. The PTSS shall support the number of signal phases necessary to control traffic through the applicable work area.

Controllers shall be capable of controlling all displays required for each PTSS system. Controllers shall demonstrate conflict-monitoring capability, consistent with the requirements of Section 9-29.13(2) item number 5, with a flashing red display in all directions. The controller shall be capable of terminating the all red clearance for the preceding movement, such that the previous movement can be repeated.

Signal head displays shall be either hard wired or controlled by radio signal. Manual operation will not require hardwiring or radio control except for the use of two-way radio communication by manufacturer trained qualified operators.

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The system shall be equipped with a means of informing the operator of signal indications, such as a light on the back of each signal head that illuminates when the signal displays a red indication, during manual operation.

Each PTSS shall include vehicle detection and shall be capable of operating either as fixed time or traffic actuated. The detection system shall provide presence detection (continuous call to the controller) while there is a vehicle, including bicycles, in the detection zone. When specified in the Contract, each designated PTSS shall include a pushbutton for bicycles that will extend the all-red time to accommodate bicycle travel through the applicable work area. Each pushbutton shall be placed such that it is accessible to bicycle users and include signing with instructions for bicyclists.

PTSS signal displays shall be trailer mounted. PTSS trailers with overhead signal displays shall provide two signal displays, with at least one display mounted overhead and the two displays at least 8 feet apart horizontally. The minimum vertical clearance to the traveled way for all overhead signal displays is 16.5 feet. Where there is no direct line of sight between stop line locations, each trailer shall include a digital timer display showing the time remaining to the next green indication; digits shall be a minimum of 6 inches in height. Ground mounted signal display trailers shall provide one signal display. Vertical height to the bottom of a single signal display shall be a minimum of 8 feet (10 feet preferable). Vehicular signal heads shall be of the conventional type with standard ITE approved, 12 inch ball or arrow LED displays, as appropriate. Tunnel visors shall be provided for all indications.

Back plates shall be furnished and attached to the signal heads. Back plates shall be constructed of 5-inch-wide 0.050-inch-thick corrosion resistant louvered aluminum, with a flat black finish. A 1-inch-wide yellow strip of Type IV prismatic sheeting (tape) in accordance with Section 9-28.12 shall be placed around the perimeter of the face of all vehicle signal backplates to project a rectangular image at night toward oncoming traffic.

Trailers shall have a leveling jack installed at all four corners. The crank for the leveling jacks and trailer hitch shall be locked. The signal pole and mast arm assemblies shall be of the collapsible type, which can be erected and extended at the job site. The mast arm assemblies shall be firmly attached to the trailer to form a stable unit, which can withstand an 80-mph design wind speed with a 1.3 gust factor.

The PTSS shall be powered using a self-contained battery system capable of providing over 12 days of continuous operations without solar array assistance. A supplemental solar panel array will be allowed.

1-10.4.GR1

Measurement

49 1-10.4(2).GR1

Item Bids With Lump Sum for Incidentals

General Special Provisions Division 1-10

1-10.4(2).INST1.GR1

Section 1-10.4(2) is supplemented with the following:

1-10.4(2).OPT1.GR1

(August 2, 2004)

The bid proposal does not contain the item "Project Temporary Traffic Control," lump sum. The provisions of Section 1-10.4(2) shall apply.

1-10.4(2).OPT2.GR1

(January 10, 2022)

"Automated Flagger Assistance Device" will be measured by the hour for the time that each AFAD is operating as shown on the accepted traffic control plan.

1-10.4(2).OPT3.GR1

(January 2, 2018)

"Radar Speed Display Sign" will be measured by the hour for the time that each sign is operating as shown on an approved Traffic Control Plan.

1-10.4(2).OPT5.GR1

(September 7, 2021)

"Operation of Smart Work Zone System" will be measured by the hour the system is actively operating as defined in Section 1-10.3(3) as supplemented in these special provisions. When the smart work zone system malfunctions for longer than 15-minutes or if the smart work zone system is not used in accordance with the applicable approved Smart Work Zone System traffic control plan, no measurement will be made for the smart work zone system for that hour. Payment for all other Work to implement and decommission the SWZS will be made under the applicable items shown in the Proposal.

1-10.4(2).OPT6.GR1

(May 20, 2020)

"Contractor Provided Uniformed Police Officer" will be measured by the hour.

1-10.4(2).OPT7.GR1

(September 7, 2021)

"Operation of Queue Warning System" will be measured by the hour each system is actively operating as defined in Section 1-10.3(3) as supplemented in these special provisions. When the Queue Warning System malfunctions for longer than 15 minutes or is not used in accordance with the applicable accepted traffic control plan, no measurement will be made for the queue warning system for that hour. Payment for all other Work to implement and decommission the Queue Warning System will be made under the applicable items shown in the Proposal.

1-10.4(2).OPT8.GR1

(October 3, 2022)

"Temporary Portable Transverse Rumble Strips" will be measured per each one time for each array consisting of three rumble strips in operation at any one time. This price shall include installation, maintaining, and relocating throughout the life of the project and final removal from the project site.

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1	1-10.4(3).GR1
2	Reinstating Unit Items With Lump Sum Traffic Control
5 4 5	1-10.4(3).INST1.GR1 Section 1-10.4(3) is supplemented with the following:
6	
7	1-10.4(3).OPT1.FR1
8	(November 2, 2022)
9 10 11	The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.
12 13 14	"Work Zone Safety Contingency", by force account.
15	*** \$\$1\$\$ ***
16 17	1-10.5.GR1
18	Payment
19	1-10.5(2).GR1
20 21	Item Bids with Lump Sum for Incidentals
22	nem bias with Lamp dam for melacitials
23	1-10.5(2).INST1.GR1
24	Section 1-10.5(2) is supplemented with the following:
25 26	1-10.5(2).OPT1.GR1
27	(January 10, 2022 November 20, 2023)
28	"Automated Flagger Assistance Device", per hour.
29	The unit Contract price, when applied to the number of hours measured for this item
30	in accordance with Section 1-10.4(2), shall be full pay to provide, operate, maintain
31 32	and remove the AFAD as described including transporting, installing and resetting the devices.
33	the devises.
34	All costs for controlling AFADs shall be included in the unit Contract price per hour
35	for "Flaggers".
36 37	1-10.5(2).OPT2.GR1
38	(January 2, 2018)
39	"Radar Speed Display Sign", per hour.
40	The unit Contract price, when applied to the number of units measured for this item
41	in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred
42 43	by the Contractor in performing the Work for procuring all radar speed display signs required for the project and for transporting these signs to and from the project.
44	required for the project and for transporting these signs to and from the project.
45	1-10.5(2).OPT3.GR1
46	(September 7, 2021)
47	"Operation of Smart Work Zone System", per hour.
48 49	The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2) shall be full compensation for all costs incurred
49 50	by the Contractor, SWZS Vendor, and SWZS Technician for mobilizing and
51	demobilizing the smart work zone system components; the hardware, software,

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52

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traffic sensors, and other required equipment; maintenance data logs; traffic data

logs; Contracting Agency access to Smart Work Zone System data; and wireless system operations including Contracting Agency access. Payment for all other Work to implement and decommission the SWZS will be made under the applicable items shown in the Proposal.

1-10.5(2).OPT4.GR1

(September 7, 2021)

"Operation of Queue Warning System", per hour.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2) shall be full compensation for all costs incurred by the Contractor, Vendor, and/or Queue Warning System Technician for mobilizing and demobilizing the queue warning system components; the hardware, software, traffic sensors, and other required Queue Warning System equipment; maintenance data logs; traffic data logs; and wireless system operations including Contracting Agency access. Payment for all other Work to implement and decommission the Queue Warning System will be made under the applicable items shown in the Proposal.

1-10.5(2).OPT5.GR1

(May 20, 2020)

"Contractor Provided Uniformed Police Officer", per hour.

The unit Contract price per hour for "Contractor Provided Uniformed Police Officer" shall be full pay for performing the Work as specified and as shown in the Plans, including all costs for arrangement for and supervision of a uniformed law enforcement personnel and vehicles to participate in the Contractor's traffic control activities.

1-10.5(2).OPT6.GR1

(October 3, 2022)

"Temporary Portable Transverse Rumble Strips", per each.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by the Contractor in performing the Work as described.

1-10.5(2).OPT7.GR1

(November 2, 2022)

"Work Zone Safety Contingency", by force account.

All costs as authorized by the Engineer will be paid for by force account as specified in Section 1-09.6.

For purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Work Zone Safety Contingency" in the Proposal to become a part of the Contractor's total bid.

The Engineer may choose to use existing bid items for the implementation of the agreed upon enhancement.

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1	DIVISION2.GR2	Earthwoi	rk
2 3	2-01.GR2	Clearing,	Grubbing, and Roadside Cleanup
4 5 6	2-01.1.GR2	Des	cription
7 8	2-01.1.INST1	.GR2	(Section 2-01.1 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14 15 16	2-01.1.OP	T1.FR2	(Clearing and Grubbing) (March 13, 1995) Use when the payment for clearing and grubbing is either lump sum or included in other work. (1 fill-in) (Fill-in describes the longitudinal and lateral limits of clearing and grubbing)
17	2-01.3.GR2	Cor	nstruction Requirements
18 19 20	2-01.3(1).GR	2	Clearing
21 22 23	2-01.3(1).	NST1.GR2	(Item number 1 of Section 2-01.3(1) is revised to read) Must use once preceding any of the following:
24 25 26 27	2-01.3	(1).OPT1.G	GR2 (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #88.
28 29	2-01.3(4).GR	2	Roadside Cleanup
30 31 32	2-01.3(4).	NST1.GR2	(Section 2-01.3(4) is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37	2-01.3	(4).OPT1.F	R2 (Roadside Cleanup) (January 5, 1998) Use if additional work is required under the item "Roadside Cleanup". (fill-ins)
38 39	2-01.5.GR2	Pay	ment
40 41 42 43	2-01.5.INST1	.GR2	(The first and second paragraphs of Section 2-01.5 are revised to read) Must use once preceding any of the following:
44 45 46 47 48 49	2-01.5.OP	T1.FR2	(Clearing and Grubbing) (August 7, 2017) Must be used with 2-01.1.OPT1.FR2 when the payment for clearing and grubbing is included in other work. (1 fill-in)
50 51	2-02.GR2	Removal	of Structures and Obstructions
52 53	2-02.1.GR2	Des	scription

1 2 3	2-02.1.INST1.GR2	(Section 2-02.1 is supplemented with the following) Must use once preceding any of the following:
4 5 6 7 8 9 10 11 12 13	2-02.1.OPT1.GR2	(Removal of Misc. Traffic Items) (March 13, 1995) Must also use 2-02.3.OPT2.FR2 and 2-02.5.OPT8.GR2 Use in projects requiring the removal of minor quantities of miscellaneous traffic items such as traffic islands, traffic curb, lane markers, plastic traffic buttons, guide posts, etc. when there is no pay item for Removal of Structures and Obstructions and the cost of removing each type of item is under \$10,000.
15 16 17 18 19 20 21	2-02.1.OPT2.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must also use 1-07.5(4)C.OPT1.FR1, 2-02.3.OPT4.GR2 and 2-02.5.OPT11.GR2. Use in projects when asbestos removal is required. (1 fill-in)
22 23 24 25 26 27 28 29	2-02.1.OPT3.GR2	(Removing Portions of Existing Box Culvert) (March 13, 1995) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.3(2).OPT12.GR2, 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, 6-02.5.OPT5.GB6, and 2-02.5.OPT12.GR2.
30 31 32 33 34 35	2-02.1.OPT5.GR2	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.2.OPT1.GR2, 2-02.3.OPT7.GR2, and 2-02.5.OPT2.GR2.
36 37	2-02.2.GR2 Ma	aterials
38 39 40 41	2-02.2.INST1.GR2	(Section 2-02.2 is supplemented with the following) Must use once preceding any of the following:
41 42 43 44 45 46 47 48	2-02.2.OPT1.GR2	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.1.OPT5.GR2, 2-02.3.OPT7.GR2, and 2-02.5.OPT2.GR2.
49 50	2-02.3.GR2 Co	onstruction Requirements
50 51 52 53	2-02.3.INST1.GR2	(Section 2-02.3 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6	2-02.3.OPT1.FR2	(Removal of Obstructions) (September 7, 2021) Use except when the combined cost of all obstruction removal is \$5,000 or less and payment is to be included in other payment items.
6 7 8 9 10		Removal of obstructions that are readily measurable and for which the cost of removal is \$5,000 or less per obstruction may be included in this pay item.
11 12 13 14		Removal of obstructions that are not readily measurable, such as foundations, may be included in this item regardless of the removal cost.
15 16 17		List all items and approximate quantities to be removed under "Removal of Structure and Obstruction". (1 fill-in)
18 19 20 21	2-02.3.OPT2.FR2	(Removing Miscellaneous Traffic Items) (March 13, 1995) Must include with 2-02.1.OPT1.GR2 .
22 23 24 25 26 27 28 29 30 31	2-02.3.OPT3.FR2	(Removal and Disposal of Hazardous Material) (June 6, 2022) Must also use 2-02.4.OPT1.GR2 and 2-02.5.OPT7.GR2. Use only for subsurface removal of known or suspected hazardous or contaminated material. Fill-in is for type of material, depth of contamination in soil, and depth of contamination in water. Fill-in information is to be provided by the Region Environmental Staff. (1 fill-in)
32 33 34 35 36	2-02.3.OPT4.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must include with 1-07.5(4)C.OPT1.FR1, 2- 02.1.OPT2.GR2, and 2-02.5.OPT11.GR2.
37 38 39 40	2-02.3.OPT5.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must include with 1-07.5(4)C.OPT2.FR1 .
41 42 43 44 45 46 47 48 49 50 51 52	2-02.3.OPT6.FB2	(Salvage of Removed Structure Items) (June 26, 2000) Use when removal items are to remain the property of the Contracting Agency. The first fill-in specifies the salvaged items. The second fill-in specifies the name and address (street address or highway milepost) of the material storage site. Include with either 2-02.3(2).OPT1.FB2, 2-02.3(2).OPT2.FB2, or 2-02.3(2).OPT3.FB2, and 2-02.3(2).OPT10(B).FB2. (2 fill-ins)
52 53	2-02.3.OPT7.GR2	(Well Decommissioning)

1 2 3 4 5 6		(February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.1.OPT5.GR2, 2-02.2.OPT1.GR2, and 2-02.5.OPT2.GR2.
7 8		emoval of Bridges, Box Culverts, and other Drainage ructures
9 10 11	2-02.3(2).INST1.GB2	(Section 2-02.3(2) is supplemented with the following) Must use once preceding any of the following:
12 13 14 15 16 17 18 19 20 21 22 23	2-02.3(2).OPT1.FB2	(Removing Existing Bridge) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) in one stage. The first fill-in specifies the bridge(s). The second fill-in specifies where traffic is directed (onto the detour route or bridge, onto the new bridge, etc.). Include with 2-02.3(2).OPT10(B).FB2. Include with 1-07.1(2).OPT23.FR1 if the bridge being removed has steel members with lead paint. (2 fill-ins)
23 24 25 26 27 28 29 30 31 32	2-02.3(2).OPT2.FB2	(Removing Existing Bridge) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) in two or more stages. The fill-in specifies the bridge(s). Include with 1-07.1(2).OPT23.FR1 if the bridge being removed has steel members with lead paint. (1 fill-in)
33 34 35 36 37 38 39 40 41	2-02.3(2).OPT3.FB2	(Removing Portion of Existing Bridge) (June 26, 2000) Use in projects requiring the removal of portions of existing bridge(s). The first fill-in specifies the bridge(s). The second fill-in specifies the portions being removed. Include with 1-07.1(2).OPT23.FR1 if the bridge being partially removed has steel members with lead paint. (2 fill-ins)
42 43 44 45 46 47 48 49 50 51	2-02.3(2).OPT7.FB2	(Removal in Water) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) when removal involves piers within the wetted perimeter of a stream, lake or bay. The first fill-in specifies the bridge(s). The second and fourth fill-ins specify the body of water. The third fill-in specifies the elevation of the removal level. Include with either 2-02.3(2).OPT1.FB2, 2-02.3(2).OPT2.FB2, or 2-02.3(2).OPT3.FB2, and 2-02.3(2).OPT10(B).FB2.
52 53	2-02.3(2).OPT10.GB	2 (Use of Explosives)

1		Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12 13	2-02.3(2).OPT10(B	(Structure Removal By Explosives) (January 2, 2018) Use in projects requiring removal of existing bridges only if explosives may be used. The fill-in specifies the bridge where the use of explosives is permitted for removal operations. Include with 2-02.3(2).OPT1.FB2. Include with 1-07.1(2).OPT23.FR1 if the bridge involved has steel members with lead paint. (1 fill-in)
13 14 15 16 17 18 19 20 21 22	2-02.3(2).OPT11.GB2	(Requirements for Closing Bridge Prior to Removal) (January 2, 2018) Use in projects requiring removal of existing bridges when it is necessary to close the bridge to traffic in order to complete removal as soon as possible. Include with 2-02.3(2).OPT1.FB2, and 2-02.3(2).OPT10(B).FB2. Include with 1-07.1(2).OPT23.FR1 if the bridge involved has steel members with lead paint.
23 24 25 26 27 28 29 30 31	2-02.3(2).OPT12.GR2	(Removing Portions of Existing Box Culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6, and either 2-02.5.OPT12.GR2 or 2-02.5.OPT15.GR2.
32 33	2-02.3(3).GR2 Ren	noval of Pavement, Sidewalks, Curbs, and Gutters
34 35 36		Section 2-02.3(3) is supplemented with the following) lust use once preceding any of the following:
37 38 39 40 41 42 43	2-02.3(3).OPT1.FR2	(September 8, 1997) Include in projects when removal of pavement is outside the limits of roadway excavation, and the removal is to be paid by the square yard. Must also use 2-02.4.OPT2.GR2 and 2-02.5.OPT13.FR2. (2 fill-ins)
44 45 46	2-02.4.GR2 Measure	ement
46 47 48 49	,	ction 2-02.4 is supplemented with the following) t use once preceding any of the following:
50 51 52 53	(I N	Removal and Disposal of Hazardous Material) December 4, 2006) lust include with 2-02.3.OPT3.FR2 and -02.5.OPT7.GR2 .

1 2 3 4	2-02.4.OPT2.GR2	(Pavement Removal) (September 8, 1997) Must include with 2-02.3(3).OPT1.FR2
5 6 7 8 9 10	2-02.4.OPT3.GR2	(Sidewalk Removal) (October 25, 1999) Include in projects when removal of sidewalk is outside the limits of roadway excavation, and the removal is to be paid by the square yard. Must include with 2-02.5.OPT16.FR2.
12 13 14 15 16 17 18	2-02.4.OPT4.GR2	(Curb Removal) (September 8, 1997) Include in projects when removal of curb is outside the limits of roadway excavation, and the removal is to be paid by the linear foot. Must include with 2-02.5.OPT17.FR2.
19 20	2-02.5.GR2 Pay	yment
21 22 23	2-02.5.INST1.GR2	(Section 2-02.5 is revised by the following) Must use once preceding any of the following:
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53 53 54 54 55 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	2-02.5.OPT1.FR2	(Removal of structures and obstructions included in other work) (August 1, 2017) (1 fill-in)
	2-02.5.INST2.GR2	(Section 2-02.5 is supplemented with the following) Must use once preceding any of the following:
	2-02.5.OPT2.GR2	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.1.OPT5.GR2, 2-02.2.OPT1.GR2, and 2-02.3.OPT7.GR2.
	2-02.5.OPT7.GR2	(Removal and Disposal of Hazardous Material) (December 4, 2006) <i>Must include with 2-02.3.OPT3.FR2 and 2-02.4.OPT1.GR2</i> .
	2-02.5.OPT8.GR2	(Removing Miscellaneous Traffic Items) (September 30, 1996) Must include with 2-02.1.OPT1.GR2.
	2-02.5.OPT11.GR2	(Removal and Disposal of Asbestos Material) (September 30, 1996) Must include with 1-07.5(4)C.OPT1.FR1, 2-02.1.OPT.GR2, and 2-02.3.OPT4.GR2.

1 2 3 4 5 6 7	2-02.5.OP		(Removing Portion of Conc. Box Culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2, 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6.
8 9 10 11 12 13	2-02.5.OP		(Pavement Removal) (September 30, 1996) Must include with 2-02.3(3).OPT1.FR2 . (1 fill-in)
13 14 15 16 17 18 19 20 21	2-02.5.OP		(Removal of portions of box culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2, 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6.
22 23 24 25 26	2-02.5.OP		(Sidewalk Removal) (November 3, 1999) Must include with 2-02.4.OPT3.GR2 (1 fill-in)
27 28 29 30 31	2-02.5.OP		(Removal of portions of Curb) (September 8, 1997) Must include with 2-02.4.OPT4.GR2. (1 fill-in)
32 33	2-03.GR2	Roadway Ex	ccavation and Embankment
34 35	2-03.3.GR2	Constr	uction Requirements
36	2-03.3(2).GR	2 Ro	ock Cuts
37 38 39 40	2-03.3(2).		(Section 2-03.3(2) is supplemented with the following) Must use once preceding any of the following:
41 42 43 44 45 46	2-03.3((2).OPT1.GR2	(Rock Slope Scaling and Removal and Disposal of Rock Slope Scaling Debris) (September 7, 2021) Use in projects with rock slope scaling. Include with 2-03.4.OPT4.GR2 and 2-03.5.OPT3.GR2.
47 48	2-03.3(7).GR	2 Dis	sposal of Surplus Material
49 50 51	2-03.3(7).		(Section 2-03.3(7) is supplemented with the following) Must use once preceding any of the following:
51 52 53	2-03.3((7).OPT1.FR2	(Contracting Agency furnished waste site) (March 13, 1995)

1 2 3			Use in projects with Contracting Agency provided waste sites. (1 fill-in)
4 5 6 7 8 9	2-03.3(7).OPT2.F	FR2	(Waste material by embankment widening) (March 13, 1995) Use in projects where the Contracting Agency specifies embankments to be widened. (2 fill-ins)
10 11 12 13 14 15	2-03.3(7).OPT3.0	GR2	(Contracting Agency provided sites are not mandatory) (March 13, 1995) Use, when applicable, with 2-03.3(7).OPT1.FR2 or 2-03.3(7).OPT2.FR2.
16 17 18 19 20 21	2-03.3(7).OPT4.0	GR2	(Contracting Agency provided sites are not of sufficient size) (March 13, 1995) Use, when applicable, with 2-03.3(7).OPT1.FR2 or 2-03.3(7).OPT2.FR2.
22	2-03.3(14).GR2	Emba	inkment Construction
23 24	2-03.3(14)C.GR2	Co	mpacting Earth Embankments
25 26 27 28 29	2-03.3(14)C.INS	T1.GR2	(Section 2-03.3(14)C is supplemented with the following) Must use once preceding any of the following:
30 31 32 33	2-03.3(14)C.0	OPT1.G	GR2 (March 13, 1995) Use in projects when no payment for embankment compaction (Method A) is included.
34	2-03.3(14)I.GB2	Em	bankments At Bridge And Trestle Ends.
35 36 37 38 39	2-03.3(14)I.INST	1.GB2	(Section 2-03.3(14)I is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45	2-03.3(14)I.O	PT1.FE	(March 13, 1995) Use in projects when the bridge approach embankments must be constructed before the end piers. (2 fill-ins)
46	2-03.4.GR2 Me	asuren	nent
47 48 49 50	2-03.4.INST1.GR2		on 2-03.4 is supplemented with the following) use once preceding any of the following:
51 52 53	2-03.4.OPT1.GR2	(Ma	nbankment In Place) arch 13, 1995) st also include 2-03.5.OPT1.GR2 .

1 2 3			Use in projects that require embankment widening for beam guardrail and no other grading pay items are included in the contract to construct the widening.
4 5 6 7 8 9 10 11 12 13	2-03.4.OPT2.	GR2	(Measurement of roadway excavation and embankment) (March 13, 1995) Must include with 1-05.4.OPT2.GR1 , Contractor surveying - roadway. May be used without Contractor surveying.
	2-03.4.OPT3.	.GR2	(Measurement of roadway excavation and embankment) (March 13, 1995) Use in minor grading projects when the original cross-sections are satisfactory for construction payment.
14 15 16 17 18 19	2-03.4.OPT4.	GR2	(Rock Slope Scaling and Rock Slope Scaling Debris Removal Including Haul) (April 5, 2010) Use in projects with rock slope scaling. Include with 2-03.3(2).OPT1.GR2 and 2-03.5.OPT3.GR2.
20 21	2-03.5.GR2	Payme	ent
22 23 24	2-03.5.INST1.G	`	Section 2-03.5 is supplemented with the following) ust use once preceding any of the following:
25 26 27 28	2-03.5.OPT1.	GR2	(Embankment In Place) (September 30, 1996) Must include with 2-03.4.OPT1.GR2 .
29 30 31 32 33 34 35 36 37 38 39 40	2-03.5.OPT2.	FR2	(Preparation of waste sites) (March 13, 1995) Use in projects when the preparation of waste sites is included in other work. (1 fill-in)
	2-03.5.OPT3.	GR2	(Rock Slope Scaling and Rock Slope Scaling Debris Removal Including Haul) (April 5, 2010) Use in projects with rock slope scaling. Include with 2-03.3(2).OPT1.GR2 and 2-03.4.OPT4.GR2.
41 42	2-06.GR2 S	ubgrade F	Preparation
43 44	2-06.3.GR2	Const	ruction Requirements
45 46 47	2-06.3(1).GR2	Sı	ubgrade For Surfacing
48 49	2-06.3(1).INS	T1.GR2	(Section 2-06.3(1) is supplemented with the following) Must use once preceding any of the following:
50 51 52	2-06.3(1).	OPT1.GR2	2 (Subgrade trimmer required) (March 13, 1995)

1 2 3 4 5 6 7				Use in projects where a treated base or pavement will be placed directly on the subgrade. The project should include a bid item for "Gravel Borrow Including Haul" or "Borrow Excavation Including Haul" to ensure that sufficient fine material is available for trimming.
7 8 9 10 11 12 13 14 15 16	2-06	5.3(1).OPT2.GF	R2	(Subgrade trimmer not required) (March 13, 1995) Use in grading-only projects where a treated base is planned for construction on a future project. The project should include a bid item for "Gravel Borrow Including Haul" or "Borrow Excavation Including Haul" to ensure that sufficient fine material is available for trimming. The position of the future treated base is to shown on the plans.
18 19	2-09.GR2	Structure	Exca	avation
20 21	2-09.3.GR2	Cons	struct	tion Requirements
22 23	2-09.3(1).0	GR2	Gene	eral Requirements
24 25	2-09.3(1)C.GR2	Re	emoval Of Unstable Base Material
26 27 28	2-09	0.3(1)C.INST1.0	GR2	(Section 2-09.3(1)C is supplemented with the following) Must use once preceding any of the following:
29 30 31 32 33 34 35 36 37 38	2	2-09.3(1)C.OP	T1.FB	(Soils Prone to Disturbance) (September 8, 2020) Use in bridge projects in where soil in the bottom of footing excavation is susceptible to disturbance and may become unsuitable. Use at the recommendation of the Geotechnical office. (1 fill-in) Fill-in #1 is the location of the soils prone to disturbance.
39 40 41	2-09.3(3).0		Cons Class	struction Requirements, Structure Excavation, s A
42 43 44	2-09.3(3	3)B.GR2		ccavation Using Open Pits – Extra ccavation
45 46 47 48	2-09	0.3(3)B.INST1.0	GR2	(Section 2-09.3(3)B is supplemented with the following) Must use once preceding any of the following:
49 50 51 52 53 54	2-	-09.3(3)B.OPT	1.FB2	2 (Extra Excavation and Open Pit Excavation Not Allowed) (September 7, 2021) Use in projects where extra excavation and open pit excavation is not allowed at specific

1 2 3 4 5				locations. The fill-in specifies the location(s) where extra excavation and open pit excavation is not allowed. (1 fill-in)
6 7 8 9 10 11 12 13 14 15	2-	09.3(3)B.OI	PT2.FR2	(Extra Excavation and Open Pit Excavation) (April 1, 2019) Use in projects where temporary excavation slopes are located beneath structures, critical facilities, or where recommended by the Geotechnical Office. The fill-in specifies the location(s) where extra excavation and open pit excavation is allowed. (1 fill-in)
16	2-09.3(3)	D.GR2	Shoring	And Cofferdams
17 18 19 20 21	2-09.3	3(3)D.INST	Ìollo	ction 2-09.3(3)D is supplemented with the wing) t use once preceding any of the following:
22 23 24 25 26	2-	09.3(3)D.O	PT1.GB2	(Protecting existing pavement) (March 13, 1995) Use in projects when bridges are over or adjacent to existing highways.
27 28 29 30 31	2-	09.3(3)D.O	PT2.GB2	(Protecting RR tracks) (August 2, 2010) Use in projects when bridges are over or adjacent to existing railroad tracks.
32 33 34 35 36 37	2-	09.3(3)D.O	PT3.FB2	(March 13, 1995) Use with 2-09.3(3)D.OPT2.GB2 when construction is required near railroad tracks, or structures which require extensive shoring. (3 fill-ins)
38 39	2-09.4.GR2	Ме	asurement	
40 41 42 43	2-09.4.INST	1.GR2	supplemen	ection Lower Limits of Section 2-09.4 is ated with the following) once preceding any of the following:
44 45 46 47 48	2-09.4.OI	PT1.GB2	(Addition at end p Use in	y 4, 2010) nal structure excavation under girders viers) projects where excavation is required outside of structure excavation limits for end pier footings.
49 50	2-12.GR2	Constru	ction Geosy	ynthetic
51 52 53	2-12.1.GR2	Des	scription	

1 2 3 4	2-12.1.INST1.GR2	(Section 2-12.1 is supplemented with the following) Must use once preceding any of the following:
5 6 7 8 9 10	2-12.1.OPT1.GR2	Geosynthetic Reinforced Slope (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. Slope design should be performed by the Olympia Service Center Materials Laboratory or a geotechnical consultant. Use details from DETAILS.CEL Library; D225, D229, D230, and D230A or D230B.
11 12	2-12.2.GR2 Mate	erials
13 14 15 16 17	2-12.2(9-03.14).GR2	(Borrow) (Section 9-03.14 is supplemented with the following) Must use once preceding any of the following:
18 19 20 21 22	2-12.2(9-03.14).O	PT1.FR2 (Borrow for Geosynthetic Reinforced Slopes) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)
23 24 25 26 27	2-12.2(9-07.7).GR2	(Welded Wire Reinforcement) (Section 9-07.7 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32	2-12.2(9-07.7).OP	T1.GR2 (Welded Wire Reinforcement) (February 6, 2023) Use in projects where welded wire faced geosynthetic reinforced slopes are specified.
33 34 35 36 37	2-12.2(9-33.2(2)).GR2	(Geosynthetic Properties for Retaining Walls and Reinforced Slopes) (Section 9-33.2(2) is supplemented with the following) Must use once preceding any of the following:
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	2-12.2(9-33.2(2)).0	OPT1.FR2 (Geosynthetic Properties for Reinforced Slopes) (January 2, 2012) Use in projects requiring geosynthetic reinforced slopes. The slope class must be identified in fill-in 6 based on the following: Class 1 is typically reinforced slopes which support bridge abutments, buildings, critical utilities, or other facilities which the consequences of poor performance or failure would be severe. In general, slopes greater than 30 feet in height. Class 2 is all reinforced slopes not categorized as Class 1. (6 fill-ins)
52 53	2-12.2(9-33.2(2)).0	OPT2.GR2 (Geosynthetic Properties for Turf Reinforcement Mat)

1 2 3	(April 5, 2004) Use in projects where geosynthetic reinforced slopes with a turf reinforcement mat facing are specified.
4	Ŭ I
5 6 7	2-12.2(9-33.4(1)).GR2 (Source Approval) (Section 9-33.4(1) is supplemented with the following) Must use once preceding any of the following:
8	0.40.0(0.00.4(4))
9	2-12.2(9-33.4(1)).OPT1.GR2(Geosynthetic Reinforced Slope)
10	Primary Reinforcement
11 12	(April 5, 2004) Use in projects requiring geosynthetic reinforced
13	slopes.
14	оюров.
15	2-12.2(9-33.4(1)).OPT2.GR2(Geosynthetic Reinforced Slope)
16	Secondary Reinforcement
17	(April 5, 2004)
18	Use in projects where geosynthetic reinforced slopes
19	with secondary reinforcement are specified.
20	
21	2-12.2(9-33.4(1)).OPT3.GR2 (Geosynthetic Reinforced Slope)
22	Turf Reinforcement Mat
23	(November 17, 1997)
24	Use in projects where geosynthetic reinforced slopes
25	with turf reinforcement mat facing are specified.
26 27	2.12.2(0.22.4(2)) CB2 (Accontance Samples)
28	2-12.2(9-33.4(3)).GR2 (Acceptance Samples) (Section 9-33.4(3) is supplemented with the following)
29	Must use once preceding any of the following:
30	wast ass snow proceding any or the following.
31	2-12.2(9-33.4(3)).OPT1.GR2(Geosynthetic Reinforced)
32	Slope Primary Reinforcement
33	(November 17, 1997)
34	Use in projects requiring geosynthetic reinforced
35	slopes.
36	0.40.0/0.00.4/0\\ ODTO ODO/O
37 38	2-12.2(9-33.4(3)).OPT2.GR2 (Geosynthetic Reinforced Slope)
39	Secondary Reinforcement (April 5, 2004)
40	Use in projects where geosynthetic reinforced slopes
41	with secondary reinforcement are specified.
42	man occordary reinforcement are opcomed.
43	
44	2-12.2(9-33.4(3)).OPT3.GR2(Geosynthetic Reinforced Slope Turf)
45	Reinforcement Mat
46	(November 17, 1997)
47	Use in projects where geosynthetic reinforced slopes
48	with turf reinforcement mat facing are specified.
49	0.40.0/0.00.4/4/\\ 0.700/4
50	2-12.2(9-33.4(4)).GR2 (Acceptance by Certificate of Compliance)
51 52	(Section 9-33.4(4) is supplemented with the following)
52 53	Must use once preceding any of the following:
55	

1 2 3 4	2-12.2(9-33.4(4)).OPT1.GR2 (Reinforced Slope) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes.
5 6	2-12.3.GR2 Co	onstruction Requirements
7 8 9 10	2-12.3.INST1.GR2	(Supplemental Instructions) (Section 2-12.3 is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16 17	2-12.3.OPT1.GR2	(Geosynthetic Reinforced Slope Construction Requirements) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. Slope facing options which include vegetative cover should only be used at sites where the average annual precipitation is 20 inches or more.
19 20 21 22 23 24 25	2-12.3.OPT2.FR2	(Turf Reinforced Mat Facing Construction) (August 2, 2010) Use in projects requiring geosynthetic reinforced slopes with turf reinforcement mat facing. In general, use for slopes no steeper than 1.2H:1V. (2 fill-ins)
26 27 28 29 30 31 32 33 34 35 36 37 38 39	2-12.3.OPT3.GR2	(Geosynthetic Wrapped Slope Facing Construction) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes with geosynthetic wrapped facing. Because of planting requirements, do not use this option for sites where the elevation is over 1500 feet. In general, use for slopes no steeper than 1H:1V.
	2-12.3.OPT4.GR2	(Welded Wire Facing Construction) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes with welded wire facing. In general, use for slopes no steeper than 1H:2V.
40 41 42 43 44 45	2-12.3.OPT5.GR2	(Installing Guardrail Posts in Geosynthetic) Reinforced Slopes (November 17, 1997) Use in projects requiring guardrail on geosynthetic reinforced slopes.
46 47 48	2-12.4.GR2 Mo	easurement
49 50 51	2-12.4.INST1.GR2	(Supplemental Instructions) (Section 2-12.4 is supplemented with the following) Must use once preceding any of the following:
52 53	2-12.4.OPT1.FR2	(Geosynthetic Reinforced Slope)

1 2 3			(January 5, 1998) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)
5	2-12.5.GR2	Pay	yment
6			
7	2-12.5.INST1.0	GR2	(Supplemental Instructions)
8			(Section 2-12.5 is supplemented with the following)
9			Must use once preceding any of the following:
10			1 3 7
11	2-12.5.OPT	1.FR2	(Geosynthetic Reinforced Slope)
12			(November 17, 1997)
13			Use in projects requiring geosynthetic reinforced slopes.
14			(1 fill-in)
15			\ /

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1 2	DIVISION5.GR5	Surface Tr	eatments and Pavements
3	5-01.GR5	Cement Co	oncrete Pavement Rehabilitation
4 5	5-01.1.GR5	Desc	ription
6 7 8	5-01.1.INST1		Section 5-01.1 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14	5-01.1.OP	T1.GR5	(Partial Depth Spall Repair) (September 7, 2021) Use in projects that have the Bid item "Partial Depth Spall Repair", by force account. Must also use 5-01.2.OPT1.GR5 & 5-01.3(5).OPT1.GR5 .
15 16 17	5-01.2.GR5	Mater	rials
18 19 20	5-01.2.INST1		Section 5-01.2 is supplemented with the following) Must use once preceding any of the following:
21 22 23 24 25	5-01.2.OP	T1.GR5	(Partial Depth Spall Repair) (September 7, 2021) Use in projects that have the Bid item "Partial Depth Spall Repair", by force account. Must also use 5-01.1.OPT1.GR5 & 5-01.3(5).OPT1.GR5 .
26 27 28 29 30 31 32 33	5-01.3.GR5	Cons	truction Requirements
	5-01.3(5).GR	5 F	Partial Depth Spall Repair
	5-01.3(5).I	NST1.GR5	(Section 5-01.3(5) is revised to read) Must use once preceding any of the following:
34 35 36 37 38 39	5-01.3	(5).OPT1.GR	(Partial Depth Spall Repair) (September 7, 2021) Use in projects that have the Bid item "Partial Depth Spall Repair", by force account. Must also use 5-01.1.OPT1.GR5 & 5-01.2.OPT1.GR5.
40 41	5-01.3(9).GR	5 F	Portland Cement Concrete Pavement Grinding
42 43	5-01.3(9).1	NST1.GR5	(Section 5-01.3(9) is supplemented with the following) Must use once preceding any of the following:
44 45 46 47 48	5-01.3	(9).OPT1.GR	(April 1, 2013) Use in projects that require 10,000 or more square yards of cement concrete pavement grinding.
49 50	5-01.3(10).GI	R5 P	Pavement Smoothness
51 52 53	5-01.3(10)	.INST1.GR5	(Section 5-01.3(10) is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5	5-0	1.3(10).OPT1.G	Use in projects where Weigh-in-Motion (WIM) weight sensors are being installed in pavement where Section 5-01 applies. Must include a WIM Site Index Station in the Plans.
6 7	5-02.GR5	Bituminou	us Surface Treatment
8 9	5-02.3.GR5	Cons	struction Requirements
10 11	5-02.3(3).	GR5	Application Of Asphalt Emulsion and Aggregate
12 13 14	5-02.3((3).INST1.GR5	(Section 5-02.3(3) is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20 21 22	5-0	2.3(3).OPT1.FR	(BST New Construction) (August 5, 2013) May use with 5-02.3(3).OPT2.FR5. Use in projects requiring a Bituminous Surface Treatment on a newly constructed roadway.) (2 fill-ins)
23 24 25 26 27 28	5-0	2.3(3).OPT2.FR	(BST Seal Coat) (August 5, 2013) May use with 5-02.3(3).OPT1.FR5 . Use in projects requiring a Bituminous Surface Treatment seal coat on an existing roadway. (1 fill-in)
29 30 31	5-02.4.GR5	Meas	surement
32 33 34	5-02.4.INS	,	(Section 5-02.4 is supplemented with the following) Must use once preceding any of the following:
35 36 37 38 39 40 41 42	5-02.4.	OPT2.GR5	(BST existing road approaches) (March 13, 1995) Must also use 5-02.5.OPT2.GR5 . Use in BST projects when there are a substantial number of existing road approaches to be paved and the extra cost of labor for paving approaches becomes a factor in determining the bid price for BST.
43 44	5-02.5.GR5	Payn	nent
45 46	5-02.5.INS	•	(Section 5-02.5 is supplemented with the following) Must use once preceding any of the following:
47 48 49 50 51 52	5-02.5.	OPT2.GR5	(Bituminous Surface Treatment For Road Approach) (February 5, 2001) Must include with 5-02.4.OPT2.GR5 . Use in BST projects when there are a substantial number of existing road approaches to be paved and the extra cost

1 2		of labor for paving approaches becomes a factor in determining the bid price for BST.
3 4 5 6 7 8 9 10 11 12	5-02.5.OPT3.GR5	(CRS-2P Cost Price Adjustment Payment) (August 5, 2013) Include in all BST projects. Must include standard item #5294 . To determine the Engineer's Estimate for this bid item, refer to the guidance at: https://wsdot.wa.gov/engineering-standards/project-management-training/project-management/cost-risk-assessment
13 14 15 16 17	5-02.5.OPT4.GR5	(AC-15P Cost Price Adjustment Payment) (January 3, 2017) Include in all BST projects. Must include standard item #5280 .
18	5-03.GR5 Crack and	Joint Sealing
19 20	5-03.3.GR5 Cons	struction Materials
21 22 23	5-03.3(2).GR5	Sealing Bituminous Pavement
24	5-03.3(2)B.GR5	Longitudinal Joint Seal
25 26 27	5-03.3(2)B.INST1.0	GR5 (Section 5-03.3(2)B is revised to read) Must use once preceding any of the following:
28 29 30 31 32	5-03.3(2)B.OPT	1.2024.GR5 (November 2, 2022) Use in all projects placing HMA adjacent to cement concrete paving.
33	5-03.3(3).GR5	Sealing Cement Concrete Pavement
35 36	5-03.3(3)C.GR5	Sealing Sawed Contraction Joints
37 38 39	5-03.3(3)C.INST1.0	GR5 (Section 5-03.3(3)C is revised to read) Must use once preceding any of the following:
40 41 42 43	5-03.3(3)C.OPT	F1.2024.GR5 (February 6, 2023) Use in all projects that seal joints in cement concrete pavement.
44	5-03.5.GR5 Payn	nent
45 46 47 48 49	÷ F	In Section 5-03.5, the Bid item "Crack Sealing-CM", percenterline mile, and the following paragraph, is revised to ead:) Must use once preceding any of the following:
50 51 52	5-03.5.OPT1.2024.GR	5 (Crack Sealing Payment) (February 6, 2023)

1 2 3 4 5		Ùse sour	uary 3, 2017) in projects when the Contracting Agency provides a ce of aggregate for HMA. t use with 5-04.5.OPT3.GR5 .
6 7	5-04.3(1).GR5	Weathe	er Limitations
8 9 10	5-04.3(1).INST1.GR5	read	first sentence of Section 5-04.3(1) is revised to) t use once preceding any of the following:
11 12 13 14 15 16	5-04.3(1).OPT1.FI) c (August 3, 2009) Jse in projects when it is anticipated that paving will be conducted in the Fall. 1 fill-in) (Fill-in to be provided by Region Materials Engineer)
18	5-04.3(3).GR5	Equipn	nent
19 20	5-04.3(3)A.GR5	Mixi	ng Plant
21 22 23 24 25	5-04.3(3)A.INST1.	À	In the first paragraph of Section 5-04.3(3)A, item number 5 is revised to read) Must use once preceding any of the following:
26 27 28	5-04.3(3)A.OP	2T1.2024	1.GR5 (November 2, 2022) Include in all projects using HMA.
29	5-04.3(3)C.GR5	Pave	ers
30 31 32 33	5-04.3(3)C.INST1		Section 5-04.3(3)C is supplemented with the following) Must use once preceding any of the following:
34 35 36 37 38	5-04.3(3)C.OP	PT1.GR5	(Reference line required for paver) (March 13, 1995) Use in projects with a 70 MPH or higher design speed, except when the paving will be done under traffic.
39 40	5-04.3(3)D.GR5	(Mat	erial Transfer Device/Vehicle)
41 42 43 44 45 46 47 48 49 50 51 52	5-04.3(3)D.OP	PT1.GR5	(August 3, 2009) (Section 5-04.3(3)D is deleted in its entirety) Use in projects containing Hot Mix Asphalt when the Region Materials Lab recommends that a MTD/V not be used. Use requires approval of the Region Construction Office. MTD/V's are not recommended for projects with small quantities of HMA or when the paving is limited to areas where there is insufficient room for the MTD/V in the paving train.
53	5-04.3(3)D.INST1	.GR5 (Section 5-04.3(3)A including title is revised to read)

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quired on a per to paving. In 0.20 feet ation of the up to 0.20 ed to control to traffic by priate.
j)
chedule as

1 2 3 4 5 6 7			Pay Adjustment Schedule 1 = Interstate highways, new pavement construction or multiple lift pavement overlays (at least one (1) leveling course + wearing course).
6 7 8			Note: Pre-leveling allowances are not to be counted as a leveling course paving lift with respect to this definition.
9 10 11 12 13 14			<u>Pay Adjustment Schedule 2</u> = Single lift pavement overlays with allowance for surface variance corrections with smoothness averaging devices (paving skis) or full width pavement milling (including shoulder) with single lift replacement overlay.
15 16 17 18			Note: Sufficient preleveling and/or pavement thickness variance allowances should be included to repair obvious existing deficiencies (humps, valleys, ruts etc.).
19 20 21 22 23 24 25 26 27 28 29 30			Pay Adjustment Schedule 3 = Smoothness will be difficult to attain or when risk associated with meeting a smoothness criteria is unknown. Examples include matching to existing concrete gutter lines; sections with multiple surface utility structures; intersections; multiple skip sections resulting in short paving lengths; and milling/replacement paving where both the shoulder and adjacent lane is not also milled. Bonus incentives are applied to encourage maximum effort to obtain smooth pavements in difficult applications. (1 fill-in)
31 32 33 34 35 36 37 38 39	5-04.5.O	PT2.GR5	(Asphalt Cost Price Adjustment) (January 13, 2021) Include in all projects containing Hot Mix Asphalt. Must include standard item 5837. To determine the Engineer's Estimate for this bid item, refer to the guidance at: https://wsdot.wa.gov/engineering-standards/project-management-training/project-management/cost-risk-assessment
40 41 42 43 44	5-04.5.0	PT3.GR5	(Asphalt Binder Revision) (August 3, 2009) Must include with 5-04.3.OPT4.FR5 .
44 45 46	5-05.GR5	Cement	Concrete Pavement
47 48	5-05.1.GR5	De	scription
49 50	5-05.1.INS	Γ1.GR5	(Section 5-05.1 is supplemented with the following) Must use once preceding any of the following:
51 52 53	5-05.1.O	PT1.GR5	(Use when cement concrete pavement has pigmented or textured cement concrete_in roundabout locations)

(August 6, 2012)

Use in projects requiring color treatment, textured treatment or both for roundabout truck aprons, splitter islands, and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.

Use with 5-05.2.OPT1.FR5, 5-05.3.OPT1.GR5 or 5-05.3.OPT2.FR5 or both. Use the following table to determine the correct combination of GSPs to include for pigmented or textured concrete:

5-05.1.OPT1.GR5	Description for all pigmont/toytured concrete
	<u>Description for all pigment/textured concrete.</u>
<u>5-05.2.OPT1.GR5</u>	Use for "Brick Red" Pigment.
5-05.2.OPT2.FR5	Use for other pigments specified by LA.
<u>5-05.3.OPT1.GR5</u>	Use to add a test panel for pigments and textures.
<u>5-05.3.OPT2.FR5</u>	Use to specify a pattern or texture for concrete.
5-05.3(1).OPT8.GR5	Use to limit aggregate size for texture concrete.
5-05.4.OPT1.GR5	Measurement for all pigmented or textured concrete.
<u>5-05.5.OPT2.GR5</u>	Payment for pigmented, only, concrete.
<u>5-05.5.OPT3.GR5</u>	Payment for textured, only, concrete.
5-05.5.OPT4.GR5	Payment for both pigmented and textured concrete.

5-05.2.GR5

Materials

5-05.2.INST1.GR5

(Section 5-05.2 is supplemented with the following) Must use once preceding the following:

5-05.2.OPT1.GER5

(<u>"Brick Red" p</u>Pigmented cement concrete pavement<u>)</u> in

locations)

(August 6, 2012November 20, 2023)

Use in projects requiring color treatmentbrick red in roundabout truck aprons, splitter islands, and mainline crossings. Concrete color must contrast with pavement color.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect. (1 fill-ins)

Get Primary Pigment from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Pigment Color for that Primary Pigment as fill in information from list shown below:

Primary Pigment - Brick:

Manufacturer	Pigment Color
BASE	"Red River Clay",
	RC5006
Bomanite -	"Brick Red"

		Davis Colors	"Brick Red", 160
		Increte Systems	"Brick Red"
		Solomon Colors	Brick", 417
1 2 3		Primary Pigment - E	Brown:
		Manufacturer	Pigment Color
		Davis Colors	"River Bank"
		Scofield	"Sand Buff"
		Solomon Colors	"306 Canvas"
4 5 6		Primary Pigment - I	Dark Gray:
		Manufacturer	Pigment Color
		Davis Colors	"Dark Gray (iron oxide) 860"
		Increte Systems	"Dark Gray"
		Solomon Colors	"Onyx", 920
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	5-05.2.OPT2.FR5	05.3.OPT2.FR5 (if to 05.4.OPT1.GR5.) (Other pigments for concentration of the concentration o	uiring color treatment in roundabout er islands, and mainline crossings. contrast with pavement color. by the Region Landscape Architect or pe Architect for regions without a set from Region Landscape Architect or d Site Development Manager and then res and Pigment Color for that Primary rounding from list shown below: Brown:
		<u>Manufacturer</u>	Pigment Color
		Davis Colors	<u>"River Bank"</u>
		<u>Scofield</u>	<u>"Sand Buff"</u>
		Solomon Colors	<u>"306 Canvas"</u>
29 30 31		Primary Pigment - L	Dark Gray:
		Manufacturer	Pigment Color
		Davis Colors	"Dark Gray (iron oxide)
			<u>860"</u>
		Increte Systems	<u>"Dark Gray"</u>

Solomon Colors ("Onyx", 920

5-05.3.GR5 Construction Requirements

5-05.3.INST1.GR5

(Section 5-05.3 is supplemented with the following) Must use once preceding any of the following:

5-05.3.OPT1.GR5

(Use when cement concrete pavement has pigmented color in roundabout locations Test Panel)

(August 6, 2012)

Use in projects requiring pigmented colored cement concrete pavement in roundabout truck aprons, splitter islands and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development ManageState r for regions without a landscape architect.

Use with 5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5, 5-05.3.OPT2.FR5 (if textured pattern also needed) and 5-05.4.OPT1.GR5.

5-05.3.OPT2.FR5

(Use when cement concrete pavement has textured pattern in roundabout locations Textured Patterns for

Concrete)

(August 6, 2012)

Use in projects requiring textured cement concrete pavement -patterns on roundabouts, truck aprons, splitter islands and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development ManagerState Landscape Architect for regions without a landscape architect.

(1 fill-in)

Get the Primary Pattern from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Patterns for that Primary Pattern as fill-in information from list below:

Primary Pattern - Ashlar Stone:

<u>Manufacturer</u>	<u>Pattern</u>
<u>Bomanite</u>	"Mountain Granite
	Ashlar A"
Brickform/Solomon	"Grand Ashlar, FM-
Colors	<u>3675"</u>
Butterfield Color	<u>"Majestic Ashlar"</u>
Euclid chemical	"Ashlar Slate"
Matcrete	"Grand Ashler Slate"

Renew Crete	<u>"Ashler Slate"</u>
<u>Systems</u>	
Increte Systems,	"Ashlar Slate"
Inc.	
Renew Crete	<u>"Royal Ashlar"</u>
Systems	
Bomanite	"Flagstone"

Primary Pattern - Brick

<u>Pattern</u>
"Running Bond Belgian
Block or Running Bond
<u>Used Brick"</u>
"Running Bond Used
Brick"
"Pennsylvania Avenue
Brick Running Bond"
Running Bond Paver
"Old Brick Running
Bond"
"Running Bond
Cobblestone"
"Pennsylvania Cobble-
Sanded Joint", TM820
"Euro Cobble Running
Bond", SECR S001
"Large Cobblestone",
P-16
"London Cobblestone"
"Old Belgium Stone:
Running Bond" (4530)

4 5

6

Primary Pattern - River Rock

Manufacturer	Pattern
Bomanite.	River Rock
Increte Systems	Savanah Stone
Matcrete	Large River Rock

7 8 9

Use with 5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5 (if pigmented color also needed), 5-05.3(1).OPT8.GR5 and 5-05.4.OPT1.GR5.

10 11 12

5-05.3(1).GR5

Concrete Mix Design for Paving

13 14 15

16

5-05.3(1).INST1.GR5

(Item number 1 of Section 5-05.3(1) is supplemented with the following:)

Must use once preceding any of the following:

1 2 3 4 5 6 7 8		Use in all projects where the Portland Cement Concrete Pavement (PCCP) or the Replacement of Portland Cement Concrete Panels are required to be opened to traffic within 24 hours of placement. Requires the approval of State Pavement Engineer or Headquarters Construction Office. Use with 5-05.5.OPT5.GR5.
9 10	5-05.4.GR5	Measurement
11 12 13	5-05.4.INST1.GR5	(Section 5-05.4 is supplemented with the following) Must use once preceding any of the following:
14 15 16 17 18	5-05.4.OPT1.GR5	(August 6, 2012) (Textured and pigmented cement concrete pavement per square yard.) Use with 5-05.5.OPT2.GR5, GSP 5-05.5.OPT3.GR5 or 5-05.5.OPT4.GR5.
20	5-05.5.GR5	Payment
21 22 23 24	5-05.5.INST1.GR5	(Section 5-05.5 is supplemented with the following) Must use once preceding any of the following:
25 26 27 28	5-05.5.OPT2.GR5	(August 6, 2012) Pigmented cement concrete pavement per square yard. Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.
29 30 31 32	5-05.5.OPT3.GR5	(August 6, 2012) Textured cement concrete pavement per square yard. Use with Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.
33 34 35 36 37	5-05.5.OPT4.GR5	(August 6, 2012) Textured and pigmented cement concrete pavement per square yard. Use with 5-05.1.OPT1.GR5 and 5-05.4.OPT1.GR5.
38 39 40 41 42 43	5-05.5.OPT5.GR5	(August 5, 2013) Maturity Testing for Concrete Pavement incidental to bid items Cement Conc. Pavement or Replacement Cement Concrete Panel. Use with 5-05.3(17).OPT1.GR5.
44 45 46 47 48	(Augu Use ir	n Time Training st 7, 2017) n all projects with cement concrete pavement unless approved by SCE or State Pavement Engineer.

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1	All the GSPs in Section 5-03 were deleted.
2	5-03.GR5
4	Crack and Joint Sealing
5 6	5-03.3.GR5
7	Construction Materials
8	Construction materials
9	5-03.3(2).GR5
10	Sealing Bituminous Pavement
11	ocaming Branimous ravement
12	5-03.3(2)B.GR5
13	Longitudinal Joint Seal
14	
15	5-03.3(2)B.INST1.GR5
16	Section 5-03.3(2)B is revised to read:
17	
18	5-03.3(2)B.OPT1.2024.GR5
19	(November 2, 2022)
20	When HMA is placed adjacent to cement concrete pavement, the Contractor
21 22	shall construct longitudinal joints between the HMA and the cement concrete pavement. The joint shall be sawed to the dimensions shown on Standard Plar
23	A 40.10 and filled with joint sealant meeting the requirements of Section 9
24	04.2(1)A.
25	
26	5-03.3(3).GR5
27	Sealing Cement Concrete Pavement
28	
29	5-03.3(3)C.GR5
30	Sealing Sawed Contraction Joints
31	
32	5-03.3(3)C.INST1.GR5
33	Section 5-03.3(3)C is revised to read:
34	5 02 2/2\C ODT4 2024 CD5
35 36	5-03.3(3)C.OPT1.2024.GR5 (February 6, 2023)
37	Sawed contraction joints shall be filled with a joint sealant conforming to the
38	requirements of Section 9-04.2(1)A1. Sealant shall be a poured rubber join
39	sealer conforming to Section 9-04.2(2) when the Plans show a closed cel
40	backer rod. The joint sealant shall be applied in two or more layers, if necessary
41	The joint sealant shall be applied under sufficient pressure to fill the groove from
42	bottom to top and the cured joint sealant shall be between 1/4 and 5/8 inch below
43	the top surface of the concrete.
44	
45	5-03.5.GR5
46	Payment Payment
47	E 02 E INCT4 ODE
48 40	5-03.5.INST1.GR5
49 50	In Section 5-03.5, the Bid item "Crack Sealing-CM", per centerline mile, and the following paragraph, is revised to read:
51	paragrapir , io rovioca to road.

5-03.5.OPT1.2024.GR5
 (February 6, 2023)
 "Crack Sealing-CM", per centerline mile.
 The unit contract price per centerline mile for "Crack Sealing-CM" shall be full payment for all costs for sealing cracks of all widths as described in Section 5-03 including all lanes, paved shoulders, road approaches, gores, and irregularly shaped areas.

General Special Provisions Division 5-03

5-04 GR5	
()	sian on the OPI
	Sign on the Qr E
\ /	PAP and/or PAS
	tal ullufor talo
	Mix Design Submittals for Placement on QPL
	mix boolgii odbiiittalo loi i idoomont on qi b
` /	revised to read:
· /	
` '	
()	RAS mix designs, comply with the following additional
requirements:	
·	
1. All RAS	will be manufactured waste RAS only.
	·
2. For mix of	designs with any RAS, test the RAS stockpile (and RAP
stockpile	if any RAP is in the mix design) in accordance with Table
9	RAP mix designs with no RAS, test the RAP stockpile in
	nce with Table 3.
	designs with High RAP/Any RAS, construct a single
	for RAP and a single stockpile for RAS and isolate
	er) these stockpiles from further stockpiling before
	g development of the mix design. Test the RAP and RAS
9	ockpile construction as required by item 1 and 2 above.
	test data in developing the mix design and report the test
	ne Contracting Agency on WSDOT Form 350-042 as part
	x design submittal for approval on the QPL. Account for
	uction in asphalt binder contributed from RAS in uce with AASHTO PP 78. Do not add RAP or RAS to the
·	red stockpiles after starting the mix design process, easures have been taken:
	Casares nave been taken.
	samples of the RAP or RAS to be added to the
	restered stockpile in accordance with Table 3. A minimum
	tests of the RAP or RAS will be required each time
	5-04.2(1)A2.INST1.GR5 Section 5-04.2(1)A2 is 5-04.2(1)A2.OPT1.2024.GR5 (April 27, 2022) For High RAP/Any requirements: 1. All RAS v. 2. For mix v. stockpile 3. 3. For High accordar 4. For mix stockpile (sequest beginning during st Use the t data to the of the mit the redu accordar sequeste unless m. a. Test sequeste sequeste sequeste sequeste unless m.

b. Evaluate and compare the test results from Section 4a to the results from the original sequestered stockpile properties

additional material is added to the sequestered stockpiles.

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from the mix design. Develop a written plan defining how the RAP/RAS will be incorporated into the sequestered stockpile without materially changing the binder grade or aggregate gradation properties of the sequestered stockpile. Submit the test results and incorporation plan to the Engineer for approval.

Table 3 Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction for Approving a High RAP/Any RAS Mix Design for Placement on the QPL		
Test Frequency ¹	Test for	Test Method
1/1000 tons of RAP (minimum of 10 per mix design) and 1/100 tons of RAS (minimum of 10 per mix design)	Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for AASHTO T 30
1/400 tons of RAS (minimum of 5 per mix design)	Asbestos content <0.1%	PLM Test Method EPA/600/R-93/116 (1000 Point Count) See Section 9- 03.21(1)A
1/200 tons of RAS (minimum of 5 per mix design)	Asbestos Containing Material (ACM) <1.0%	PLM Test Method EPA/600/R-93/116 See Section 9- 03.21(1)A
⁴ "tons", in this table, refers to tons of the reclaimed material before being incorporated into HMA.		

5. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

Table 4 Maximum Amount	Maximum Amount of RAP and/or RAS in HMA Mixture		
Maximum Amount of Binder Contributed from:			
RAP	RAS		
40% ¹ -minus contribution of binder from RAS	20% ²		

¹Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.

²Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture.

- 6. Develop the mix design including RAP, RAS, recycling agent, and new binder.
- 7. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.

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1 2 3		 Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade solvent.
4 5		b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.
6 7 8 9		c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).
10 11 12 13 14		d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.
15 16 17 18 19 20 21		e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).
22 23	8.	Include the following test data with the mix design submittal:
24 25	,	a. All test data from RAP and RAS stockpile construction.
26 27 28 29 30		b. A Safety Data Sheet (SDS) and documentation that no asbestos has been added during production of the manufactured waste shingles as detailed in Section 9- 03.21(1).
31 32 33		c. All data from testing the recovered and blended asphalt binder.
34 35 36		Include representative samples of the following with the mix design submittal:
37		a. RAP and RAS.
38 39 40 41		 b. 150 grams of recovered asphalt residue from the RAP and RAS that are to be used in the HMA production.
42 43	5-04.2(2).GR5 <i>Mix Design – Obtain</i>	ning Project Approval
44 45 46 47	5-04.2(2).INST1.GR5 Section 5-04.2(2) is sup	oplemented with the following:
48 49	5-04.2(2).OPT1.FR5 (January 3, 2011) ESAL's	
50 51 52		AL's for the design and acceptance of the HMA shall be ***

5-04.2(9-03.8(7)).GR5

HMA Tolerances, Specification Limits and Adjustments

The second paragraph of item number 1 of Section 9-03.8(7) is revised to read:

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5-04.2(9-03.8(7)).OPT1.GR5

(September 8, 2020)

These tolerance and specification limits constitute the allowable limits as described in Section 1-06.2. The tolerance limit for aggregate shall not exceed the limits of the control points, except the No. 8 tolerance is \pm 4% from the JMF, the No. 200 tolerance is \pm 2.0% from the JMF with a minimum of 2% and a maximum of 8.0% passing the No. 200 sieve, other tolerance limits for sieves designated as 100 percent passing will be 99-100.

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5-04.2(9-03.21(1)A).GR5

Reclaimed Asphalt Shingles

Section 9-03.21(1)A, including title, is revised to read:

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5-04.2(9-03.21(1)A).OPT1.20242025.GR5

(April 27, 2022)

Recycled Asphalt Shingles

Recycled asphalt shingles shall be manufactured waste shingles and shall be nonasbestos containing material (ACM) as defined in 40 CFR 61 Subpart M and tested in accordance with 40 CFR part 763, subpart E, appendix E, Section 1, Polarized Light Microscopy (PLM) Test Method EPA/600/R-93/116 by a certified testing laboratory. The PLM Test Method to determine ACM content will be the standard PLM Test Method to determine ACM less than 1.0%. Additionally, the PLM 1000 Point Count Test Method to determine asbestos less than 0.1% is required. At a minimum, the laboratory testing for asbestos content will be certified by one or more the following: National Voluntary Laboratory Accreditation Program (NVLAP), American Industrial Hygiene Association IH Laboratory Accreditation, or Washington State Department of Ecology for analysis of asbestos in bulk material. The Contractor shall keep all ACM and asbestos test results on file and provide copies to the Engineer when submitting a HMA mix design for approval in accordance with Section 5-04. The Contractor shall provide the testing and certification for toxicity characteristics in accordance with Section 9-03.21(1) prior to delivery and placement of the recycled asphalt shingles and use of the RAS in HMA. The Contractor shall also provide a Safety Data Sheet (SDS) of the RAS specifically detailing all ingredients of the manufactured waste shingles. The ingredients list needs to include the amount of asbestos as well as all types of fibrous materials.

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5-04.3.GR5

Construction Requirements

43 44 45

5-04.3.INST1.GR5

Section 5-04.3 is supplemented with the following:

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5-04.3.OPT4.FR5

(January 3, 2017)

The expected percentage of new asphalt binder in the HMA is *** \$\$1\$\$ ***. Should the actual percentage of new asphalt binder required by the job mix formula for HMA produced with Agency-provided aggregate vary by more than plus or minus 0.3-percent

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1 2 3 4 5	be based on the production of Hasphalt binder.	in payment will be made. The adjustment in payment (plus or minus) will be invoice cost to the Contractor. When RAP and/or RAS are used in the IMA the adjustment will be reduced by the percentage of RAP and/or RAS. No adjustment will be made when the Contractor elects not to use a ency provided source.
6 7 8	5-04.3(1).GR5 Weather Lim	itations
9 10 11	5-04.3(1).INST1.GF The first senter	R5 nce of Section 5-04.3(1) is revised to read:
12 13 14 15 16 17 18		
19	5-04.3(3).GR5	
20 21	Equipment	
22	5-04.3(3) A.GR5	
23	Mixing Pla	ant
24 25 26	5-04.3(3)A.INST1.G	SR5 paragraph of Section 5-04.3(3)A, item number 5 is revised to read:
27 28 29 30 31	5. F	024.GR5 ember 2, 2022) Provide HMA sampling equipment that complies with FOP for AASHTO R97:
32 33	<u>.</u>	Use a mechanical sampling device accepted by the Engineer, or
34 35 36		Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA.
37 38 39 40	5-04.3(3)C.GR5 Pavers	
41 42	5-04.3(3)C.INST1.0 Section	GR5 on 5-04.3(3)C is supplemented with the following:
43 44 45 46 47 48	Ř e	GR5 April 4, 2016) Reference lines will be required for both outer edges of the traveled way for ach mainline roadway for vertical control in accordance with Section 5-4.3(3)C.
49 50 51 52	5-04.3(3)D.GR5 Material T	ransfer Device or Material Transfer Vehicle

ı	0-04.3(3)D.0P11.GR0
2	(April 4, 2016)
3	Section 5-04.3(3)D is deleted in its entirety.
4	
5	5-04.3(3)D.INST1.GR5
6	Section 5-04.3(3)D including title is revised to read:
7	
8	5-04.3(3)D.OPT2.GR5
9	(August 1, 2011)
10	Material Transfer Vehicle
11	Direct transfer of HMA from the hauling equipment to the paving machine will
12	not be allowed in the top 0.30-feet of the pavement section of hot mix asphalt
13	(HMA) used in traffic lanes with a depth of 0.08-feet or greater. A material
14	transfer vehicle (MTV) shall be used to deliver the HMA from the hauling
15	equipment to the paving machine. HMA placed in irregularly shaped and minor
16	areas such as road approaches, tapers, and turn lanes are excluded from this
17	requirement.
18	
19	The MTV shall mix the HMA after delivery by the hauling equipment and prior to
20	lay down by the paving machine. Mixing of the HMA shall be sufficient to obtain
21	a uniform temperature throughout the mixture.
22	
23	5-04.3(9).GR5
24	HMA Mixture Acceptance
25	·
26	5-04.3(9).INST1.GR5
27	Section 5-04.3(9) is supplemented with the following:
28	
29	5-04.3(9).OPT1.FR5
30	(August 1, 2016)
31	Visual Evaluation
32	The following HMA will be accepted by visual evaluation:
33	
34	*** \$\$1\$\$ ***
35	
36	5-04.3(10).GR5
37	HMA Compaction Acceptance
38	5.04.0440\ INIOT4.0D5
39	5-04.3(10).INST1.GR5
40	The column in Table 14 of Section 5-04.3(10), titled "Statistical Evaluation of HMA
41	Compaction is Required for", is supplemented with the following:
42 42	E 04 2(40) ODT4 ODE
43 44	5-04.3(10).OPT1.GR5
44 45	(April 3, 2017)
45 46	Any HMA for which the specified course thickness is greater than 0.10 feet and the LIMA is pleased in the shoulder.
46 47	the HMA is placed in the shoulder.
+ <i>1</i> 48	5-04.3(10)D.GR5
49	HMA Compaction – Visual Evaluation
50	Time to ompaction - Floran Etalaadon
51	5-04.3(10)D.INST2.GR5
52	The last sentence in Section 5-04.3(10)D is revised to read:
	` /

1 2 5-04.3(10)D.OPT1.GR5 3 (April 4, 2016) 4 HMA that is used for preleveling shall be compacted with a pneumatic tire 5 roller unless otherwise approved by the Engineer. 6 7 5-04.3(12).GR5 8 Joints 9 10 5-04.3(12).INST1.GR5 11 Section 5-04.3(12) is supplemented with the following: 12 13 5-04.3(12).OPT1.GR5 14 (January 5, 2004) 15 The HMA overlay shall be feathered to produce a smooth riding connection to the 16 existing pavement. 17 18 HMA utilized in the construction of the feathered connections shall be modified by 19 eliminating the coarse aggregate from the mix at the Contractor's plant or the 20 commercial source or by raking the joint on the roadway, to the satisfaction of the 21 Engineer. 22 23 5-04.3(13).GR5 24 Surface Smoothness 25 26 5-04.3(13).INST1.GR5 27 The first four paragraphs of Section 5-04.3(13) are revised to read: 28 29 5-04.3(13).OPT1.FR5 30 (January 5, 2015) 31 Pavement surface smoothness for this project will include International Roughness 32 Index (IRI) testing that will be completed by the Contracting Agency. The Contracting 33 Agency will perform the IRI testing on each through lane, climbing lane, and passing 34 lane, greater than one mile in length and these lanes will be subject to 35 incentive/disincentive adjustments. IRI testing for a lane will be reported every 0.01 36 mile by averaging the IRI data for the left and right wheelpath within the section. 37 38 Bridge approaches and bridge decks that are located within the lanes specified to be 39 tested and are paved with HMA will be included in the IRI testing. Bridge structures, 40 approach slabs and 0.02 miles on either side of the bridge structures and approach 41 slabs will be eligible for price adjustment incentives and excluded from disincentive 42 adjustments. 43 44 Ramps, shoulders and tapers will not be included in IRI testing for pavement 45 smoothness and will not be subject to incentive adjustments. They will be subject to 46 parallel and transverse 10-foot surface requirements, corrective work and 47 disincentive adjustments.

Upon completion of the paving operation the Contractor shall notify the Engineer that the roadway is ready for IRI testing. Notification shall not take place until the following conditions are met for all lanes to be tested on the project:

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- 1. All lanes are open to traffic, unrestricted and in their final configuration.
- 2. All permanent pavement markings are in place or temporary pavement markings to the satisfaction of the Engineer.

If requested by the Engineer the Contractor shall sweep the roadway immediately prior to testing. If the sweeping is needed as a result of the Contractor's operation it shall be the responsibility and expense of the Contractor. Should the Contracting Agency not be able to complete the testing as a result of the Contractor's Work the testing will be rescheduled and any additional costs to the Contracting Agency will be deducted from monies due or that may become due the Contractor.

It is the intent that the testing will be completed and the results provided to the Contractor within 30 calendar days of the Contractor's notification that the roadway is ready for testing. If weather or other conditions exist which are determined by the Engineer to be unsuitable for IRI testing of the pavement then the testing will be deferred until favorable conditions are available and the 30 calendar days extended.

Provided that all other Work required for Substantial Completion has been completed; the day following the Contractor's notification that the roadway is ready for IRI testing through the day the IRI data is provided to the Contractor will be nonworking days in accordance with Section 1-08.5.

Corrective work for pavement smoothness may be taken by the Contractor prior to IRI testing. After completion of the IRI testing the Contractor shall measure the smoothness of each 0.01 mile section with an IRI greater than 125 with a 10-foot straightedge within 14 calendar days or as approved by the Engineer. The Contractor shall identify all locations that require corrective work and provide the straight edge measurements at each location that exceeds the allowable limit to the Engineer. If all measurements in a 0.01 section comply with the smoothness requirements the Contractor shall provide the maximum measurement to the Engineer and a statement that corrective work is not required. Unless approved by the Engineer, corrective work shall be taken by the Contractor for pavement identified by the Contractor or Engineer that does not meet the following requirements:

- 1. The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds.
- 2. The completed surface of the wearing course shall not vary more than ½ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline.
- 3. The completed surface of the wearing course shall vary not more than ½ inch in 10 feet from the rate of transverse slope shown in the Plans.

All corrective work shall be completed at no additional expense, including traffic control, to the Contracting Agency. Pavement shall be repaired by one or more of the following methods:

1. Diamond grinding; repairs shall not reduce pavement thickness by more than ¼ inch.

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- 2. Removal and replacement of the HMA wearing course.
- 3. By other method approved by the Engineer.

For repairs following IRI testing the repaired area shall be checked by the Contractor with a 10-foot straightedge to ensure it no longer requires corrective work. With approval of the Engineer a lightweight profiler, California profilograph or other device may be used in place of the 10-foot straight edge.

If correction of the roadway as listed above either will not or does not produce satisfactory results as to smoothness or serviceability the Engineer may accept the completed pavement and a credit will be calculated in accordance with Section 5-04.5(1). Under these circumstances the decision whether to accept the completed pavement or to require corrective work as described above shall be vested entirely in the Engineer.

During the last review of this roadway, which was conducted on *** \$\$1\$\$ ***, by the Contracting Agency the following IRI (inches/mile) values were obtained. The IRI values are informational only and are average IRI values for 0.10 mile sections. Additional information may be available for review at the Engineer's Office.

SR	Begin	End	IRI	IRI
	•		Running Avg	Running Avg
			NB/EB	SB/WB
	Milepost	Milepost	(Inch/mile)	(Inch/mile)
\$\$2\$\$	\$\$3\$\$	\$\$4\$\$	\$\$5\$\$	\$\$6\$\$

23 ***

5-04.3(13).INST2.GR5

The second sentence of Section 5-04.3(13) is deleted and replaced with the following:

5-04.3(13).OPT2.FR5

(March 13, 1995)

The completed surface of the wearing course of the following sections of Roadway shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline:

1. *** \$\$1\$\$ ***

The completed surface of the wearing course of all other sections of Roadway shall not vary more than 1/8 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.

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1 2	5-04.3(13).INST3.GR5 The second sentence of Section 5-04.3(13) is revised to read:
3 4	5-04.3(13).OPT3.GR5
5	(January 5, 2004)
6	The completed surface of the wearing course shall not vary more than 1/4 inch from
7	the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.
8	the lower edge of a 10-100t straightedge placed on the surface parallel to centerline.
9	5-04.3(13).INST4.GR5
10	Section 5-04.3(13) is supplemented with the following:
11	Section 3-04.3(13) is supplemented with the following.
12	5-04.3(13).OPT4.GR5
13	
	(February 6, 2023)
14 15	This Contract includes Weigh-in-Motion (WIM) sensors and additional surface
15	smoothness requirements within the WIM evaluation area.
16	The MANNA excellention and is 400 feet in legently be significan OZE feet before the MANNA
17	The WIM evaluation area is 400 feet in length, beginning 275 feet before the WIM
18	Site Index Station. The width of the WIM evaluation area includes all lanes where
19	sensors are present and extends 0.75 feet beyond the edge of the lane(s).
20	
21	The completed surface shall be sufficiently smooth such that a 6-inch diameter
22	circular plate, 0.125 inches thick, cannot be passed beneath a 16-foot straightedge
23	placed on the surface parallel to the centerline of the roadway, when evaluated as
24	described in ASTM E1318-09 (2017), Section 6.1.5.
25	
26	Deviations within the WIM evaluation area that are in excess of these requirements
27	will not be accepted and shall be corrected by one of the following methods:
28	
29	 Remove and replace the final roadway surface layer, or
30	
31	2. Remove material from high places by grinding with an accepted grinding
32	machine, or
33	
34	By other method accepted by the Engineer.
35	
36	Correct defects until there are no deviations anywhere within the WIM evaluation
37	area that are greater than allowable tolerances.
38	
39	5-04.3(14).GR5
40	Planing Bituminous Pavement
41	
42	5-04.3(14).INST1.GR5
43	Section 5-04.3(14) is supplemented with the following:
44	
45	5-04.3(14).OPT1.FR5
46	(January 5, 2004)
47	The Contractor shall perform the planing operations no more than *** \$\$1\$\$ ***
48	calendar days ahead of the time the planed area is to be paved with HMA, unless
49	otherwise allowed by the Engineer in writing.
50	, <u> </u>
51	5-04.3(14).OPT2.GR5

(January 5, 2004)

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1 At the start of the planing operation the Contractor shall plane a 500 foot test section 2 to be evaluated by the Engineer for compliance with the surface tolerance 3 requirements. The test section shall have a minimum width of 10 feet. If the planing 4 is in accordance with the surface tolerance requirements, the Contractor may begin 5 production planing. If the planing is not in conformance with the surface tolerance 6 requirements, the Contractor shall make adjustments to the planing operation and 7 then plane another test section. 8 9 If at any time during the planing operation the Engineer determines the required 10 surface tolerance is not being achieved, the Contractor shall stop planing. Planing shall not resume until the Engineer is satisfied that specification planing can be 11 12 produced or until successful completion of another test section. The forward speed 13 during production planing shall not exceed the speed used for the test section. 14 15 The completed surface after planing and prior to paving shall not vary more than 1/4 16

The completed surface after planing and prior to paving shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel or transverse to the centerline. The planed surface shall have a matted texture and the difference between the high and low of the matted surface shall not exceed 1/8 inch.

Pavement repair operations, when required, shall be accomplished prior to planing.

5-04.3(14).OPT3.GR5

(March 13, 1995)

Vertical Edge Planing

During planing of bituminous pavement in the travelled lanes, the Contractor shall coordinate the planing and paving operations such that the planed roadway surface shall not remain unpaved at the end of the work day. The Contractor shall have a contingency plan to ensure that no planed areas remain unpaved due to equipment breakdown or other emergency.

5-04.3(14).OPT4.GR5

(August 3, 2009)

Beveled Edge Planing

A beveled edge shall be constructed in areas that will not be paved during the same work shift.

The Contractor shall use a beveled cutter on the mandrel of the planing equipment, or other approved method(s), to eliminate the vertical edge(s). The beveled edge(s) shall be constructed at a 4:1 slope.

5-04.5.GR5

Payment

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5-04.5.INST2.GR5

Section 5-04.5 is supplemented with the following:

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5-04.5.OPT1.FR5

48 (January 5, 2015)

"Smoothness Compliance Adjustment" by calculation.

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Smoothness Compliance Adjustments

Section 5-04.5(1) is supplemented with the following:

General Special Provisions Division 5-04

Smoothness Compliance Adjustments will be based on the requirements in Section 5-04.3(13) and the following calculations:

- 1. Final IRI acceptance and incentive/disincentive payments for pavement smoothness will be calculated on an IRI value per 0.10 mile in accordance with the price adjustment schedule.
 - a. For sections of a lane that are a minimum of 0.01 mile and less than 0.10 mile, the price adjustment will be calculated using the average of the 0.01 mile IRI values and the price adjustment prorated for the length of the section.
 - b. For bridges, approach slabs and 0.02 miles on either side the price adjustment will be calculated independently from other measured lanes.
 - c. IRI values per 0.01 miles that were measured prior to corrective work will be included in the 0.10 mile price adjustment for sections with corrective work.
- 2. A smoothness compliance adjustment will be calculated in the sum of minus \$250.00 for each and every section of single traffic lane 0.01 miles in length in that does not meet the 10-foot straight edge requirements in Section 5-04.3(13).

The price adjustment schedule for this contract shall be *** \$\$1\$\$ ***.

Price Adjustment Schedule

IRI for	Pay	Pay	Pay
each 0.10	Adjustment	Adjustment	Adjustment
mi. section	Schedule 1	Schedule 2	Schedule 3
in. / mi.	\$ / 0.10 mi.	\$ / 0.10 mi.	\$ / 0.10 mi.
< 30	600	600	600
30	600	600	600
31	580	580	580
32	560	560	560
33	540	540	540
34	520	520	520
35	500	500	500
36	480	480	480
37	460	460	460
38	440	440	440
39	420	420	420
40	400	400	400
41	380	380	380
42	360	360	360
43	340	340	340
44	320	320	320
45	300	300	300

General Special Provisions Division 5-04

46	280	280	280
47	260	260	260
48	240	240	240
49	220	220	220
50	200	200	200
51	180	180	180
52	160	160	160
53	140	140	140
54	120	120	120
55	100	100	100
56	80	80	80
57	60	60	60
58	40	40	40
59	20	20	20
60	0	0	0
61	0	0	0
62	0	0	0
63	0	0	0
64	0	0	0
65	0	0	0
66	-20	0	0
67	-40	0	0
68	-60	0	0
69	-80	0	0
70	-100	0	0
71	-120	0	0
72	-140	0	0
73	-160	0	0
74	-180	0	0
75	-200	0	0
76	-220	-20	0
77	-240	-40	0
78	-260	-60	0
79	-280	-80	0
80	-300	-100	0
81	-320	-120	0
82	-340	-140	0
83	-360	-160	0
84	-380	-180	0
85	-400	-200	0
86	-420	-220	0
87	-440	-240	0
88	-460	-260	0
89	-480	-280	0
90	-500	-300	0
91	-520	-320	0
92	-540	-340	0
93	-560	-360	0
94	-580	-380	0
95	-600	-400	0
	-000	_ - -00	l 0

96	-620	-420	0
97	-640	-440	0
98	-660	-460	0
99	-680	-480	0
100	-700	-500	0
101	-720	-520	0
102	-740	-540	0
103	-760	-560	0
104	-780	-580	0
105	-800	-600	0
106	-820	-620	0
107	-840	-640	0
108	-860	-660	0
109	-880	-680	0
110	-900	-700	0
111	-920	-720	0
112	-940	-740	0
113	-960	-760	0
114	-980	-780	0
115	-1000	-800	0
116	-1020	-820	0
117	-1040	-840	0
118	-1060	-860	0
119	-1080	-880	0
120	-1100	-900	0
121	-1120	-920	0
122	-1140	-940	0
123	-1160	-960	0
124	-1180	-980	0
≥125	-1200	-1000	0

5-04.5.OPT2.GR5

(January 13, 2021)

Asphalt Cost Price Adjustment

The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will be applied to partial payments made according to Section 1-09.9 for the following bid items when they are included in the proposal:

"HMA CI. ___ PG ___"
"HMA for Approach CI. ___ PG ___"
"HMA for Preleveling CI. ___ PG ___"
"HMA for Pavement Repair CI. ___ PG ___"
"Commercial HMA"

The adjustment is not a guarantee of full compensation for changes in the cost of asphalt binder. The Contracting Agency does not guarantee that asphalt binder will be available at the reference cost.

General Special Provisions Division 5-04

The Contracting Agency will establish asphalt binder reference costs twice each month and post the information on the Agency website at: https://wsdot.wa.gov/business-wsdot/contracts/about-public-works-contracts/payments-reporting/asphalt-binder-reference-cost. The reference cost will be determined using posted prices furnished by Poten & Partners, Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.

Price adjustments will be calculated one time per month. No price adjustment will be made if the Current Reference Cost is within +/-5% of the Base Cost. Reference costs for projects located in Eastern versus Western Washington shall be selected from the column in the WSDOT website table labeled "Eastern", or "Western", accordingly. The adjustment will be calculated as follows:

If the reference cost is greater than or equal to 105% of the base cost, then Asphalt Cost Price Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).

If the reference cost is less than or equal to 95% of the base cost, then Asphalt Cost Price Adjustment = (Current Reference Cost - (0.95 x Base Cost)) x (Q x 0.056).

Where:

Current Reference Cost is selected from the website table based on the "Date Effective" that immediately precedes the current month's progress estimate end date. For work completed after all authorized working days are used, the adjustment will be based on the posted reference cost during which contract time was exhausted.

Base Cost is selected from the website table based on the "Date Effective" that immediately precedes the contract bid opening date, and shall be a constant for all monthly adjustments.

Q = total tons of all classes of HMA paid in the current month's progress payment.

"Asphalt Cost Price Adjustment", by calculation.

 "Asphalt Cost Price Adjustment" will be calculated and paid for as described in this section. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the total bid by the Contractor.

 5-04.5.OPT3.GR5

(April 4, 2016)

"Asphalt Binder Revision" by calculation.

"Asphalt Binder Revision" shall be calculated and paid for as described in Section 5-04.3.

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1	5-05.GR5
2 3	Cement Concrete Pavement
4	5-05.1.GR5
5	Description
6 7	5-05.1.INST1.GR5
8	Section 5-05.1 is supplemented with the following:
9 10	5-05.1.OPT1.GR5
11	(August 6, 2012)
12	This Work consists of furnishing and placing pigmented, textured, or textured and
13	pigmented cement concrete pavement at the locations and depth as shown in the Plans.
14 15	5-05.2.GR5
16	Materials
17	
18	5-05.2.INST1.GR5
19 20	Section 5-05.2 is supplemented with the following:
21	5-05.2.OPT1.GR5
22	(November 20, 2023)
23	Pigment color for "brick red" cement concrete pavement shall match SAE AMS-STD-595
24	Color #32169. The pigment shall be incorporated in accordance with the manufacturer's
25	recommendations.
26	5 05 0 ODTO FD55 05 0 ODT4 FD5
27	5-05.2.OPT2.FR5 (Neverther 20, 2023)(August 6, 2012)
28	(November 20, 2023)(August 6, 2012)
29 30	Pigment color for cement concrete pavement shall <u>match SAE-AMS-STD-595 Color #beone chosen from the manufacturers and colors listed below:</u>
31	*** \$\$1\$\$ ***
32	ψψ τψψ
33	The pigment shall be incorporated in accordance with the manufacturer's
34	recommendations.
35	
36	5-05.3.GR5
37 38	Construction Requirements
39	5-05.3.INST1.GR5
40	Section 5-05.3 is supplemented with the following:
41	
42	5-05.3.OPT1.GR5
43	(August 6, 2012)
44	Pigmented Cement Concrete
45	Curing shall be in accordance with Section 5-05.3(13) and be applied to the surface in
46	accordance with the manufacturer's recommendations. If liquid membrane-forming
47	concrete curing compound is used it shall meet the requirements of ASTM C 309 Type 1-

The Contractor shall provide a 2 foot by 2 foot sample panel, that has been cured a minimum seven days, showing the color of cement concrete to the Engineer for acceptance before placing any pigmented cement concrete pavement.

General Special Provisions Division 5-05

1 2 5-05.3.OPT2.FR5 3 (August 6, 2012) **Textured Cement Concrete** 4 5 Textured cement concrete pavement pattern shall be one chosen from the manufactures 6 and patterns listed below: 7 *** \$\$1\$\$ *** 8 9 10 A mat or stamp shall be used to imprint the pattern into the concrete surface. 11 12 Curing shall be in accordance with Section 5-05.3(13) and be applied to the surface in accordance with the manufacturer's recommendations. If liquid membrane-forming 13 14 concrete curing compound is used it shall meet the requirements of ASTM C 309 Type 1-15 16 17 5-05.3(1).GR5 18 Concrete Mix Design for Paving 19 20 5-05.3(1).INST1.GR5 21 Item number 1 of Section 5-05.3(1) is supplemented with the following: 22 23 5-05.3(1).OPT1.GR5 24 (January 2, 2018) 25 Coarse aggregate derived from the recycling of Cement Concrete Pavement 26 removed from the project may be used as coarse aggregate or blended with coarse aggregate for Cement Concrete Pavement. The Contractor shall remove all 27 28 bituminous material, joint sealant and backer material from the existing payement 29 prior to removal for recycling. The recycled concrete aggregates shall meet the 30 requirements of Section 9-03.21(1)B. Cement Concrete Pavement experiencing 31 carbonate silica reaction, sulfate reaction, D cracking or any other conditions that 32 may affect concrete durability shall not be used. Cement Concrete Pavement mix 33 designs using recycled concrete aggregates will require the use of Low Alkali Cement 34 or 25 percent Class F fly ash by total weight of the cementitious materials or the 35 Contractor shall submit evidence that other ASR mitigating measures control 36 expansion in accordance with Section 9-03.1(1). 37 38 5-05.3(1).INST2.GR5 39 Section 5-05.3(1) is supplemented with the following: 40 41 5-05.3(1).OPT2.GR5OPT8.GR5 42 (August 6, 2012) 43 (November 20, 2023) 44 **Aggregate for Textured Cement Concrete Pavement** 45 Coarse aggregate for Textured Cement Concrete Pavement shall conform to Section 46 9-03.1(4), AASHTO grading No. 7. An alternate for combined gradation for Textured 47 Cement Concrete Pavement conforming to Section 9-03.1(5) may be proposed, that 48 has a nominal maximum aggregate size of ½ inch sieve. 49 Fine aggregate and coarse aggregate shall be a combined gradation in accordance with Section 9-03.1(5) and have a nominal maximum aggregate size equal to a ½-50

General Special Provisions Division 5-05

inch, ³/₄-inch, 1-inch, or 1-½-inch sieve.

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The Contractor shall select the nominal maximum aggregate size that allows the specified textured cement concrete pavement pattern to be imprinted into the concrete surface to the depth specified for the textured pattern. If the textured cement concrete pattern is unsatisfactory, the Contractor shall remove and replace the concrete pavement at no expense to the Contracting Agency.

5-05.3(12).GR5

Surface Smoothness

5-05.3(12).INST1.GR5

The third paragraph of Section 5-05.3(12) is replaced with the following:

5-05.3(12).OPT1.GR5

(January 7, 2019)

Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal traces, one in each wheel path. Collect profile data in a continuous pass including areas excluded from pay adjustments for each section paved. The Contractor shall determine when each section is to be tested except that the minimum length to be tested shall be 528 feet unless accepted by the Engineer. Where a completed section of concrete pavement abuts a segment to be completed later in the project, the 50 feet adjacent to uncompleted section shall be included in the testing and incentive/disincentive for the uncompleted segment. Provide seven calendar days notice to the Engineer prior to testing.

5-05.3(12).INST2.GR5

Section 5-05.3(12) is supplemented with the following:

5-05.3(12).OPT2.GR5

(February 6, 2023)

This Contract includes Weigh-in-Motion (WIM) sensors and additional surface smoothness requirements within the WIM evaluation area.

The WIM evaluation area is 400 feet in length, beginning 275 feet before the WIM Site Index Station. The width of the WIM evaluation area includes all lanes where sensors are present and extends 0.75 feet beyond the edge of the lane(s).

The completed surface shall be sufficiently smooth such that a 6-inch diameter circular plate, 0.125 inches thick, cannot be passed beneath a 16-foot straightedge placed on the surface parallel to the centerline of the roadway, when evaluated as described in ASTM E1318-09 (2017), Section 6.1.5.

Deviations within the WIM evaluation area that are in excess of these requirements will not be accepted and shall be corrected by one of the following methods:

- 1. Remove and replace the final roadway surface layer, or
- Remove material from high places by grinding with an accepted grinding machine, or
- 3. By other method accepted by the Engineer.

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Correct defects until there are no deviations anywhere within the WIM evaluation area that are greater than allowable tolerances.

5-05.3(17).GR5

Opening to Traffic

5-05.3(17).INST2.GR5

Section 5-05.3(17) is revised to read:

5-05.3(17).OPT1.GR5

(August 7, 2017)

Maturity Testing for Concrete Pavement

The pavement shall not be opened to traffic until the Strength-Maturity Relationship (SMR) demonstrates the pavement has a minimum compressive strength of 2,500 psi and approval of the Engineer. The pavement shall be cleaned prior to opening to traffic.

The Contractor shall establish a Maturity Value on the approved concrete mix through the use of a testing program following the WSDOT Maturity Method Test Procedure for estimating concrete strength.

The Contractor shall establish the SMR at least 14 calendar days prior to the production pours. The Contractor shall notify the Engineer 7 days prior to performing the SMR as to the time, date and location where the SMR will be performed. The Contractor shall allow WSDOT the opportunity to place maturity loggers in the test cylinders in order to calibrate the WSDOT maturity meter. A SMR shall be developed for each mix used on the project. Referenced SMRs from previous projects will not be allowed.

The Contractor shall be responsible for the installation of the maturity logger/sensors within the concrete pavement pour area. For panel replacements performed under Section 5-01, place a minimum of four loggers/sensors at two different locations. Two in one of the first few panel replacements and two in the last panel replacement of the day, each day. For continuous concrete paving operations performed under Section 5-05, place a minimum of four loggers/sensors, two at the beginning and two at the end of the concrete pour, each day. The Contractor shall maintain the integrity of the logger/sensors and wires during concrete pouring, finishing and curing operations or until the maturity information is no longer needed.

The Contractor shall perform the Quality Control Procedure to Verify the Strength-Maturity Relationship on days 1 and 2 of concrete placement as indicated in the test procedure.

The Contractor shall develop a Quality Control Plan based on the Strength-Maturity Relationship to monitor and provide remedial action to ensure the concrete meets design strengths.

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Any alteration in mix proportions or source or type of any material, in excess of those tolerable by batching variability shall require the development of a new SMR prior to its use at the Contractors time and expense. Alterations include a change in type, source, or proportion of cement, fly ash, coarse aggregate, fine aggregate, or

General Special Provisions Division 5-05

Page 4 November 20, 2023

admixtures. A change in water-to-cementitious material ratio greater than 5.0 percent requires the development of a new SMR.

Maturity Method Test Procedure

This test method provides a procedure for estimating concrete strength by means of the maturity method. The maturity method is based on strength gain as a function of temperature and time. This method is a modification of ASTM C1074 covering the procedures for estimating concrete strength by means of the maturity method.

The maturity method consists of three steps:

- Develop Strength-Maturity Relationship
- Estimate in-place strength
- Verify Strength-Maturity Relationship.

The Nurse-Saul "temperature-time factor (TTF)" maturity index shall be used in this test method, with a datum temperature of 0 °C (32 °F).

Apparatus

- If the maturity meter has input capability for datum temperature, verify that the proper value of the datum temperature has been selected prior to each use.
- Intellirock maturity system (or approved equivalent). This system shall include the logger/sensor, handheld reader, and software.
- The data obtained from the maturity meter shall be unalterable and uninterruptible.
- The same brand and type of maturity meters shall be used in the field as those used to develop and verify the strength-maturity relationship.
- Logger/sensor wire grade shall be larger than or equal to 20 awg.

Contractors Procedure to Develop Strength-Maturity Relationship

Step	Action
1	For every concrete design that will be evaluated by the maturity method, prepare a minimum of 21 cylinders in accordance with FOP for AASHTO T 23. Additional cylinders should be cast to avoid having to repeat the procedure. The mixture proportions and constituents of the concrete shall be the same as those of the job concrete whose strength will be estimated using this practice. The minimum size of each batch shall be approximately 3 m³ (4 yd³). A mobile mixer may be used for batching provided it is to be used on the project. Calibration documentation shall be provided to the Engineer prior to batching.
2	Fresh concrete testing for each batch shall include concrete placement temperature, slump, and air content in accordance with FOP for AASHTO T 309, FOP for AASHTO T 119, and FOP for AASHTO T 152.
3	Embed loggers/sensors in at least two cylinders. Loggers/sensors shall be placed 2-4 inches from any surface. Activate the loggers/sensors.
4	Cure the cylinders in accordance with FOP for AASHTO T 23.

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If a cylinder is obviously defective (for example, out of round, not square, damaged due to handling), the cylinder shall be discarded. If an individual cylinder strength is greater than 10 percent outside the average of three cylinders, the cylinder can be considered defective and be discarded. When two of the three cylinders are defective, a new batch must be evaluated unless additional acceptable cylinders are available.

At each test age, record the individual and average values of maturity and strength for each batch on a permanent data sheet

Plot the average strengths as a function of the average maturity values, with data points shown. Using a computer spreadsheet program such as Microsoft Excel, calculate a point-to-point interpolation through the data. The resulting curve is the strength-maturity relationship to be used for estimating the strength of the concrete mixture placed in the field.

When developing the SMR, the spreadsheet software allows the Contractor to develop the corresponding maturity equation, which defines the SMR. The Engineer should carefully examine the data for "outliers", faulty cylinder breaks, or faulty maturity readings. The Engineer should use judgment to determine if certain points should be discarded, or retested, or whether the entire SMR should be regenerated.

Contractors Procedure to Estimate In-Place Strength

Step	Action
1	Prior to or at the time of concrete placement, install loggers/sensors at the frequency specified. Loggers/sensors shall be placed a minimum of 2 ft. from a panel edge 4 to 5 inches from the panel surface. Loggers/sensors may be tied to reinforcing steel, but should not be in direct contact with the reinforcing steel or formwork.
2	As soon as practical after concrete placement, connect and activate the maturity meter(s).
3	The Contractor shall provide to the Engineer, prior to opening the pavement to traffic, encrypted data files (with software to read the files) of the maturity data from the loggers/sensors. Data shall be provided until the maturity is at a value that is equal to or greater than the required strength for that concrete mixture, as determined by the SMR. Additionally, data shall be provided on a record log.

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Contractors Quality Control Procedure to Verify Strength-Maturity Relationship

Step	Action
1	At the specified verification interval make three cylinders in accordance with FOP for AASHTO T 23.
2	Embed a logger/sensor in one cylinder. Loggers/sensors shall be placed 2-4 inches from any surface. Activate the logger/sensor as soon as possible.
3	Cure the cylinders in accordance with FOP for AASHTO T 23.
4	Perform compression strength tests on all three of the cylinders in accordance with FOP for AASHTO T 22 to verify strength and time to reach 2,500 psi for opening to traffic. Compute the average strength of the cylinders. If a cylinder is obviously defective (for example, out of round, not square, damaged due to handling), the cylinder shall be discarded. If any individual cylinder strength is greater than 10 percent outside the average of three cylinders, that cylinder will be considered defective and be discarded. When two of the three cylinders are defective, the verification procedure will have to be repeated starting at step 1.
5	Record on a permanent data sheet the maturity value at the time of compression testing and individual and average strengths established from the cylinder breaks. Also record the predicted strength based on the SMR established for that particular concrete design, and the percent difference between average and predicted values. The SMR is verified when the predicted strength established from the average SMR and the cylinder breaks are within 10 percent. A copy of the data sheet and an encrypted file for the maturity data shall be provided to the Engineer on a daily basis.

5-05.4.GR5

Measurement

5-05.4.INST1.GR5

Section 5-05.4 is supplemented with the following:

5-05.4.OPT1.GR5

(August 6, 2012)

Pigmented, textured, or textured and pigmented cement concrete pavement will be measured by the square yard placed.

Page 7

5-05.5.GR5 **Payment**

5-05.5.INST1.GR5

Section 5-05.5 is supplemented with the following:

General Special Provisions Division 5-05

November 20, 2023

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1
     5-05.5.OPT2.GR5
 2
          (August 6, 2012)
 3
          "Pigmented Cement Concrete Pavement", per square yard
 4
          The unit Contract price per square yard for Pigmented Cement Concrete Pavement shall
 5
          be full pay for all costs incurred to perform the Work in this Specification.
 6
 7
     5-05.5.OPT3.GR5
 8
          (August 6, 2012)
 9
          "Textured Cement Concrete Pavement", per square yard
10
          The unit Contract price per square yard for Textured Cement Concrete Pavement shall
11
          be full pay for all costs incurred to perform the Work in this Specification.
12
13
     5-05.5.OPT4.GR5
14
          (August 6, 2012)
15
          "Textured and Pigmented Cement Concrete Pavement", per square yard
16
          The unit Contract price per square yard for Textured and Pigmented Cement Concrete
17
          Pavement shall be full pay for all costs incurred to perform the Work in this Specification.
18
19
     5-05.5.OPT5.GR5
20
          (August 5, 2013)
21
          All costs in connection with conducting concrete pavement maturity testing and surface
22
          cleaning prior to opening to traffic shall be included in the unit Contract price per cubic
23
          yard for "Cement Conc. Pavement" and per square yard for "Replace Cement Concrete
24
          Panel", if either or both of the items are included in the Contract.
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     5-SA1.FR5
27
     (August 7, 2017)
     JUST IN TIME TRAINING
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     Description
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Just In Time Training (JITT) is a formal class for the joint training of Contractor and Contracting Agency employees that will be associated with the construction or rehabilitation of Cement Concrete Pavement.

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Construction Requirements

Training

The Contractor shall provide a JITT instructor who is experienced with the specified pavement construction methods, materials, and tests. The instructor shall not be an employee of the Contractor or the Contracting Agency. JITT shall be at a facility provided by the Contractor unless otherwise agreed to by the Engineer.

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The following personnel are required to attend the JITT:

42 43 44

- Representing the Contractor: The Superintendent, foremen and key construction personnel associated with the work.
- 2. Representing the Contracting Agency: Up to ***\$\$1\$\$*** Contracting Agency staff selected by the Engineer.

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JITT shall meet the following requirements:

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1. At least 4 hours long or a length agreed to by the Engineer.

General Special Provisions Division 5-05

Page 8 November 20, 2023

Cover all aspects of work methods, equipment and materials the Contractor is proposing to use.
 Conducted within 3 miles of the job site or at a mutually agreed to location.
 Completed before the start of paving.
 Conducted during normal working hours.
 At the Contractors option, JITT may be an extension of a prepaving conference.

Submittals

A minimum of 5 calendar days before JITT the Contractor shall submit to the Engineer the instructor's name and qualifications, the JITT facility's location, and 1 copy each of any course, handout, and presentation materials.

Payment

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Payment will be made for each of the following items that are included in the Proposal:

"Just In Time Training", lump sum.

The lump sum Contract payment shall be full compensation for all costs incurred by the Contractor in providing "Just In Time Training".

General Special Provisions Division 5-05

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1 2 3 4 5 6 7			vertical clearance of the temporary bridge is shown in the plans, the specific geometric requirement item text in the specification can be deleted (or if all are shown in the plans, the entire geometric requirements paragraph can be deleted). (4 fill-ins)
8 9	6-02.GR6	Concret	e Structures
10 11	6-02.2.GR6	Ма	terials
12 13 14	6-02.2.INST	1.GR6	(Section 6-02.2 is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20	6-02.2.0	PT1.GR6	(Resin Bonded Anchors) (April 1, 2013) Include in projects requiring resin bonded anchors for attaching and anchoring items to concrete structures. Must also include 6-02.3(18).OPT1.GR6.
21 22 23 24 25 26 27	6-02.2.O	PT2.GB6	(Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels) (September 8, 2020) Use in projects when epoxy resin is required for setting steel reinforcing bars into holes drilled into concrete. Include with 6-02.3(24)C.OPT1.GB6.
28 29 30 31 32 33	6-02.2.O	PT4.GB6	(Epoxy Crack Sealing) (November 2, 2022) Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with 6-02.3.OPT1.GB6 and 6-02.5.OPT49.GB6.
34 35 36 37 38 39 40 41 42 43	6-02.2.O	PT26.GB6	(Rapid Cure Silicone Sealant) (April 6, 2015) Use in projects where rapid cure silicone sealant is used for expansion joint modification. Include with 6-02.3(13).OPT7(C).GB6, either 6-02.3(13).OPT7(I).GB6 or 6-02.3(13).OPT7(J).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
44 45 46 47 48	6-02.2.O	PT27.GB6	(Polyester Concrete) (April 6, 2015) Use in projects where polyester concrete is required. Include with 6-02.3.OPT9.GB6.
49 50 51 52 53	6-02.2.0	PT28.GB6	(Elastomeric Concrete) (April 6, 2015) Use in projects where elastomeric concrete is required. Include with 6-02.3.OPT10.GB6.

1 2 3 4 5 6 7 8 9 0 1 1 2 3 1 1 5 6 7 8 9 0 1 1 2 3 1 1 5 6 7 8 9 0 1 1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 3 3 3 3	6-02.2.OPT46.GB6	(Bridge Supported Utilities) Must use once preceding any of the following:
	6-02.2.OPT46(A).GB6	6 (June 26, 2000) Use in projects with bridge supported utilities when the supports include concrete inserts. Include with 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6, and 6-02.5.OPT26.FB6.
	6-02.2.OPT46(B).GB	(Bridge Supported Utilities) (September 3, 2019) Use in projects with bridge supported utilities when the supports include steel rods, bars, and plates. Include with 6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, and 6-02.5.OPT92.FB6, and either 6-02.3.OPT2(B).GB6, or 6-02.3.OPT2(C).GB6 and 6-02.5.OPT93.GB6.
	6-02.2.OPT46(C).GB6	(Bridge Supported Utilities) (September 3, 2019) Use in projects with bridge supported utilities when the supports include transverse braces. Include with 6-02.2.OPT46(A).GB6, 6-02.2.OPT46(B).GB6, 6-02.3.OPT2(A).GB6, and 6-02.5.OPT92.FB6, and either 6-02.3.OPT2(B).GB6, or 6-02.3.OPT2(C).GB6 and 6-02.5.OPT93.GB6.
	6-02.2.OPT46(D).GB	(Bridge Supported Utilities) (June 26, 2000) Use in projects with bridge supported utilities when the supports include pipe rolls or pipe saddles. Include with 6-02.5.OPT92.FB6 and other applicable bridge supported utility material and construction requirement GSP's.
	6-02.2.OPT46(E).GB	(September 3, 2019) Use in projects with bridge supported utilities in concrete box girder bridges when the utilities are supported on anchor blocks on the bottom slab. Include with 6-02.5.OPT92.FB6 and other applicable bridge supported utility material and construction requirement GSP's.
	(<i>F</i> U as In 0 . m 0 . m	(Bridge Drain Risers) (April 30, 2001) Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with 6-02.3(10)D.OPT3.GB6. Also include with 6-02.3(10)D.OPT4.GB6 if the bridge deck is overlaid with membrane waterproofing and ACP. Include with 6-02.5.OPT53.FB6 if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with 6-02.4.OPT26.GB6 and 6-02.5.OPT51.GB6 if

1 2 3		the unit contract bid item "Modify Bridge Drain" is used to pay for the work.
4 5 6 7 8 9	(U V	(Core Drilled Bridge Deck Drain) (September 8, 2020) Use in projects with core drilled bridge deck drains. Include with 6-02.3(10)D.OPT12.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.
10 11 12 13 14	6-02.2.OPT60.GB6	(Seismic Retrofit Materials) (April 6, 2015) Use in projects with seismic retrofit construction. Must use once preceding any of the following:
16 17 18 19 20 21 22	6-02.2.OPT60(B).GE	(Steel and PVC Pipe) (April 6, 2015) Use in projects with seismic retrofit work when steel and/or PVC pipe are used as materials. Include with 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
24 25 26 27 28 29 30 31 32 33	6-02.2.OPT60(C).GI	(Structural Steel and Steel Fastening Hardware) (September 8, 2020November 20,2023) Use in projects with seismic retrofit work when structural steel and steel fastening hardware are used as materials. Include with 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6, and all applicable other seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
34 35 36 37 38 39 40 41	6-02.2.OPT60(D).GI	(High-Strength Steel Rods) (September 8, 2020) Use in projects with seismic retrofit work requiring the installation of longitudinal seismic restrainer assemblies. Include with 6-02.3.OPT8(L).GB6, 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
43 44 45 46 47 48 49 50 51 52 53	6-02.2.OPT60(F).GE	(Column Jacketing Materials) (September 8, 2020) Use in projects with seismic retrofit work when column jacketing is required. Include with 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

1 2 3 4		02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6, and 6-02.5.OPT26.FB6 when the supports include concrete inserts. (3 fill-ins)
5 6 7		Seismic Retrofit) Must use once preceding one of the following:
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 40 41 42 43 44 45 46 47 48 49 50 51 51 52 53 53 53 54 54 55 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	6-02.3.OPT8(B).GB6	(Seismic Retrofit Demolition Plan) (April 6, 2015) Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with 6-02.4.OPT44.FB6, 6-02.3.OPT8(H).GB6, and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
	6-02.3.OPT8(C).GB6	(Column Jacket Installation Plan) (April 6, 2015) Use in projects with column jacketing of existing bridges. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.
	6-02.3.OPT8(D).GB6	(Column Jacket Shop Drawings) (April 6, 2015) Use in projects with column jacketing of existing bridges. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the prefabrication field measuring requirements for specific existing bridge columns are waived.
	6-02.3.OPT8(E).GB6	(Field Measuring Existing Bridge Columns) (September 8, 2020) Use in projects where field measuring of existing bridge columns is required. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.
	6-02.3.OPT8(F).FB6	(Field Measuring Waiver for Specific

1 2 3 4 5 6 7 8 9 10 11 12		Existing Bridge Columns) (April 6, 2015) Use in projects where the requirement of pre-fabrication field measuring of specific existing bridge columns is waived. The fill-in specifies the bridge(s) and pier(s) where the column receiving the waiver is located. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. (1 fill-in)
14 15 16 17 18 19 20 21 22 23 24 25	6-02.3.OPT8(G).FB6	(Field Measuring for Seismic Retrofit Components) (April 6, 2015) Use in projects where field measuring of existing bridge members is required for seismic retrofit components. The first fill-in specifies the bridge(s) where the field measuring work is required. The second fill-in specifies the members or components to be measured. Include with 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3. (2-fill-ins)
26 27 28 29 30 31 32 33 34 35	6-02.3.OPT8(H).GB6	(Removing Portions of Existing Concrete) (April 6, 2015) Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with 6-02.3.0PT8(B).GB6, 6-02.4.0PT44.FB6 and 6-02.5.0PT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
36 37 38 39 40 41 42 43 44 45 46 47	6-02.3.OPT8(J).GB6	(Drilling Holes and Setting Steel Reinf. Bars, and Placing Concrete) (April 6, 2015) Use in seismic retrofit projects requiring the construction of catcher blocks, girder stops, and other concrete appendages. Include with 6-02.3.OPT8(B).GB6, 6-02.3.OPT8(H).GB6, 6-02.3(24)C.OPT1.GB6, 6-02.4.OPT44.FB6, and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
48 49 50 51 52 53	6-02.3.OPT8(K).GB6	(Installing and Tensioning High-Strength Steel Bar Reinforcement) (April 6, 2015) Use in seismic retrofit projects requiring the installation, stressing, and grouting of high-strength steel bar

1 2 3 4		reinforcement. Include with 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6 , and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
5 6 7 8 9 10 11 12 13 14 15 16 17	6-02.3.OPT8(L).GB6	(Longitudinal Seismic Restrainers) (April 6, 2015 November 20, 2023) Use in seismic retrofit projects requiring the installation of longitudinal seismic restrainer assemblies. Include with 6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).BSP.GB6, 6-02.2.OPT60(D).GB6, 6-02.3(18).OPT1.GR6, either 6-02.4.OPT43.GB6 and 6-02.5.OPT71.GB6, or 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6, and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
17 18 19 20 21 22 23 24 25 26 27 28	6-02.3.OPT8(M).GB6	(Column Jacketing) (September 8, 2020) Use in projects with column jacketing of existing bridges. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.
29 30 31 32 33	6-02.3.OPT9.GB6	(Polyester Concrete) (January 7, 2019) Use in projects where polyester concrete is required. Include with <i>6-02.2.OPT27.GB6</i> .
34 35 36 37 38	6-02.3.OPT10.GB6	(Elastomeric Concrete) (January 7, 2019) Use in projects where elastomeric concrete is required. Include with <i>6-02.2.OPT28.GB6</i> .
39	6-02.3(2).GR6 Pr	oportioning Materials
40 41 42 43 44	6-02.3(2).INST1.GR6	(Section 6-02.3(2) is supplemented with the following) Must use once preceding any of the following:
44 45 46 47 48 49 50 51 52	6-02.3(2).OPT1.GB6	(Expansion Joint Header Concrete) (September 8, 2020) Use in projects with expansion joint modifications where the headers for the modified joints are made of a high early strength concrete mix. Include with 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(13).OPT7(H).GB6, , or 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion

1 2	6-02.3(9)E.GR6	Finishi	ng
3 4 5 6 7	6-02.3(9)E.INST1.G	the	ction 6-02.3(9)E is supplemented with following) st use once preceding any of the following:
7 8 9 10 11 12 13 14	6-02.3(9)E.OPT6	3.GB6	(PCPS Conc. SIP Panels) (September 8, 2020) Use in projects with precast prestressed concrete stay-in-place panels. Include with 6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.
16	6-02.3(9)F.GR6	Tolerar	nces
17 18 19 20 21	. ,		ction 6-02.3(9)F is supplemented with the owing) st use once preceding any of the following:
22 23 24 25 26 27 28 29			(PCPS Conc. SIP Panels) (September 8, 2020) Use in projects with precast prestressed concrete stay-in-place panels. Include with 6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)I.OPT6.GB6.
30	6-02.3(9)G.GR6	Handlii	ng and Storage
31 32 33 34 35	6-02.3(9)G.INST1.G	the	ction 6-02.3(9)G is supplemented with following) st use once preceding any of the following:
36 37 38 39 40 41 42	6-02.3(9)G.OPT	6.GB6	(PCPS Conc. SIP Panels) (September 8, 2020) Use in projects with precast prestressed concrete stay-in-place panels. Include with 6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.
43 44	6-02.3(9)I.GR6	Erection	on
45 46 47 48	6-02.3(9)I.INST1.GF	follo	ction 6-02.3(9)I is supplemented with the owing) st use once preceding any of the following:
49 50 51 52 53	6-02.3(9)I.OPT6.GB	.GB6	(PCPS Conc. SIP Panels) (September 8, 2020) Use in projects with precast prestressed concrete stay-in-place panels. Include with 6 -

1 2 3			02.3(9	PT61.GB6,)E.OPT6.GB (9)G.OPT6.G	6, 6-02.3(9		
4 5 6	6-02.3(10).GR6	Bridge De	ecks and	d Bridge App	roach Slab	os	
7 8	6-02.3(10)D.GR6	Concre	ete Plac	ement, Finisl	hing, and T	exturing	
9 10 11	6-02.3(10)D.INS	the	following				
12 13 14 15 16 17 18 19 20	6-02.3(10)D	.OPT1.GB6	Remo (Augu Use ir are to under	ing Slab Left ving Existing st 4, 2008) projects who be removed the curb or ed will be wi	Curb or Siden existing and the properties in sidewalk	ewalk) curbs or s portion of that is to	the slab remain
22 23 24 25 26 27 28 29	6-02.3(10)D	.OPT2.GB6	Remo Existir (Augu Use ir are to under	ing Slab Left ving ng Curb or Ra st 4, 2008) n projects who be removed the curb or ed will be mon	ilbase) en existing I and the p railbase	curbs or portion of that is to	the slab remain
31 32 33 34 35 36 37 38 39 40 41 42 43 44	6-02.3(10)D	OPT3.GB6	(Augu Use ii drains overla 02.2.0 02.3(1 overla Includ includ waterp Includ 02.5.0 "Modif	proofing or	equiring the sphalt or bridge deck lnclude B6 if the brane water 5.OPT53.F cost of modified -02.4.OPT2 f the unit n" is used to	modified s. Include bridge proofing a 6 if the the m concrete 6.GB6 contract o pay for t	concrete with 6- h 6- deck is and ACP. work is embrane overlay. and 6- bid item he work.
47 48 49 50 51 52 53	6-02.3(1	0)D.OPT3(A)	(Bridge Drain August 4, 200 Jse in projects drains prior to asphalt over 02.2.0PT48.0	08) s requiring t membrane lay work.	waterpro	ofing and

1 2 3 4 5 6 7		02.3(10)D.OPT3.GB6. Include with 6-02.5.OPT53.FB6 if the work is included in the cost of the membrane waterproofing. Include with 6-02.4.OPT26.GB6 and 6-02.5.OPT51.GB6 if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.
8 9 10 11 12 13 14 15 16 17 18	6-02.3(10)D.OPT5.GB6	(Plugging Existing Bridge Drain) (August 3, 2015) Use in projects requiring plugging of bridge drains. Include with 6-02.5.OPT53.FB6 if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with 6-02.4.OPT27.GB6 and 6-02.5.OPT52.GB6 if the unit contract bid item "Plugging Existing Bridge Drain" is used to pay for the work.
20 21 22 23 24 25 26	6-02.3(10)D.OPT12.GB6	(Core Drilled Bridge Deck Drain) (April 6, 2015) Use in projects with core drilled bridge deck drains. Include with 6-02.2.OPT58.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.
27	6-02.3(10)F.GR6 Bridge	Approach Slab Orientation and Anchors
28 29 30 31	the	ction 6-02.3(10)F is supplemented with following) st use once preceding any of the following:
32 33 34 35 36 37 38	6-02.3(10)F.OPT2.GB6	(Construct pavement end of approach slabs parallel to pavement seat) (August 4, 2008) Use in projects when the pavement ends of all approach slabs are constructed parallel to the pavement seat.
39 40 41 42 43 44 45 46 47 48 49 50	6-02.3(10)F.OPT3.FB6	(Construct pavement end of approach slabs both normal to the roadway centerline and parallel to pavement seat) (August 4, 2008) Use in projects when the pavement ends of the approach slabs are constructed both normal to the roadway centerline and parallel to the pavement seat. (2 fill-ins)
51 52	6-02.3(13).GR6 Expansion	n Joints
53	6-02.3(13).INST1.GR6 (Section	n 6-02.3(13) is supplemented with the

1 2 3		owing) st use once preceding any of the following:
4	6-02.3(13).OPT7.GB6	Expansion Joint Modification
5 6 7 8 9 10 11 12 13 14 15	6-02.3(13).OPT7(B).	GB6 (Expansion Joint Demolition Plan) (April 6, 2015) Use in projects where removal of portions of the existing bridge expansion joint assembly, and/or adjacent concrete and steel reinforcing bars, is required. Include with 6-02.3(13).OPT7(E).FB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
17 18 19 20 21 22 23 24 25 26 27	6-02.3(13).OPT7(C)	GB6 (Joint Preparation and Installation Procedure) (April 6, 2015) Use in projects where rapid cure silicone sealant is used for expansion joint modification. Include with 6-02.2.OPT26.GB6, either 6-02.3(13).OPT7(I).GB6 or 6-02.3(13).OPT7(J).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
29 30 31 32 33 34 35 36 37 38 39 40	6-02.3(13).OPT7(D)	Joint) (April 6, 2015) Use in projects where field measuring of the existing expansion joint is required. The fill-in specifies the bridge(s) included in the field measuring requirement. Include with 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13). (1 fill-in)
41 42 43 44 45 46 47 48 49 50 51 52	6-02.3(13).OPT7(E).	FB6 (Removing Portions of Existing Bridge Expansion Joints) (April 6, 2015) Use in projects where removal of portions of the existing bridge expansion joint assembly, and/or adjacent concrete and steel reinforcing bars, is required. The fill-in specified the bridge(s) where the expansion joint removal work is required. Include with 6-02.3(13).OPT7(B).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification

1 2 3		GSPs supplementing Sections 6-02.2 and 6-02.3(13). (1-fill-in)
4 5 6 7 8 9 10 11 12 13 14	6-02.3(13).OPT7(F).GB6 (Drilling Holes and Setting St. Reinf. Bars) (April 6, 2015) Use in projects with expansion joint modification where drilling holes and setting steel reinforcing bar dowels are required. Include with 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
16 17 18 19 20 21 22 23 24 25 26 27	6-02.3(13).OPT7(G).GB6(Placing Polyester Concrete or Elastomeric Concrete Headers) (April 6, 2015) Use in projects when the headers for modified bridge expansion joints are made of either polyester concrete or elastomeric concrete. Include with either 6-02.2.OPT27.GB6 and 6-02.3.OPT9.GB6, or 6-02.2.OPT28.GB6 and 6-02.3.OPT10.GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
28 29 30 31 32 33 34 35 36 37	6-02.3(13).OPT7(H).GB6	(Placing Concrete Headers) (September 8, 2020) Use in projects where the headers for modified bridge expansion joints are made of concrete. Include with 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(13).OPT7(F).GB6, 6-02.3(2).OPT1.GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
39 40 41 42 43 44 45 46 47 48 49 50	6-02.3(13).OPT7(I).GB6 ((Placing Expansion Joint Sealant) (September 8, 2020) Use in projects where rapid cure silicone sealant is used for modified bridge expansion joints with concrete or polymer concrete or polyester concrete or elastomeric concrete headers. Include with 6-02.2.OPT26.GB6, 6-02.3(13).OPT7(C).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
51 52 53	6-02.3(13).OPT7(J).GB6	(Placing Expansion Joint Sealant) (September 8, 2020)

1 Use in projects where rapid cure silicone sealant 2 is used for modified bridge expansion joints with 3 modified concrete overlay headers. To be used only for bridges with low ADT, and only with the 4 5 approval of the Bridge and Structures Office 6 Bearing and Expansion Joint Specialist. Include 7 6-02.2.OPT26.GB6, with 8 02.3(13).OPT7(C).GB6, 6-02.4.OPT8.FB6 and 6-9 02.5.OPT33.GB6, and all other applicable 10 expansion joint modification GSPs supplementing 11 Sections 6-02.2 and 6-02.3(13) and the pertinent modified concrete overlay GSP's. 12 13 14 6-02.3(13)C.GR6 **Modular Expansion Joint System** 15 6-02.3(13)C.INST1.GR6 (Section 6-02.3(13)C is supplemented with 16 17 the following) 18 Must use once preceding any of the following: 19 20 6-02.3(13)C.OPT1.FB6 (Acceptable Manufacturers) 21 (September 8, 2020) 22 Include in projects requiring a modular expansion 23 joint system. The fill-in specifies the percentage of 24 the amplified vertical load range to be used for the 25 horizontal load range for the fatigue design. The 26 fill-in value shall be 20-percent except for 27 installations at locations subject to significant 28 braking and acceleration forces or subject to 29 particularly large movement ranges where the fill-30 in value shall be 50-percent. Coordination with the 31 Bridge and Structures Office Bridge Bearing and 32 Expansion Joint Specialist is required. 33 Include with 6-02.4.OPT3.FB6 and 6-34 03.3(30).FB6. 35 (1-fill-in) 36 37 6-02.3(14).GR6 **Finishing Concrete Surfaces** 38 39 6-02.3(14)C.GR6 **Pigmented Sealer for Concrete Surfaces** 40 41 6-02.3(14)C.INST1.GR6 (Section 6-02.3(14)C is supplemented with 42 the following) 43 Must use once preceding any of the following: 44 45 6-02.3(14)C.OPT1.GB6 (Washington Gray Pigmented Sealer) 46 (April 6, 2009) 47 Use in projects requiring application of pigmented sealer to concrete surfaces, with Washington Gray 48 49 being the sole color. 50 51 6-02.3(14)C.OPT2.GB6 (Mt. St. Helens Gray Pigmented Sealer) 52 (April 6, 2009)

1 2 3		Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. St. Helens Gray being the sole color.
4 5 6 7 8 9	6-02.3(14)C.OPT3.GB6	6 (Mt. Baker Gray Pigmented Sealer) (April 6, 2009) Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. Baker Gray being the sole color.
10 11 12 13 14 15 16	6-02.3(14)C.OPT4.GB6	6 (Cascade Green Pigmented Sealer) (April 6, 2009) Use in projects requiring application of pigmented sealer to concrete surfaces, with Cascade Green being the sole color.
17 18 19 20 21 22 23 24	6-02.3(14)C.OPT5.FB6	(Multiple Color Pigmented Sealer) (April 6, 2009) Use in projects requiring application of pigmented sealer to concrete surfaces, with two or more colors specified. Each fill-in pair is to be used to specify the structural features receiving a specific color of pigmented sealer. (2 fill-ins)
25 26	6-02.3(17).GR6 Falsewo	ork and Formwork
27 28	6-02.3(17)C.GR6 False	work and Formwork at Special Locations
29 30 31 32 33	th	Section 6-02.3(17)C is supplemented with e following) ust use once preceding any of the following:
34 35 36 37 38 39 40 41	6-02.3(17)C.OPT1.FB6	(Falsework Adjacent to or over Railroad Tracks) (October 3, 2022) Use in bridge projects requiring falsework adjacent to or over railroad tracks. (1 fill-in) Contact the Railroad Liaison Engineer (360) 705-7271 for the fill in information.
42 43	6-02.3(17)K.GR6 Cond	rete Forms on Steel Spans
44 45 46 47	re	The first paragraph of Section 6-02.3(17)K is exised to read as follows) ust use once preceding any of the following:
48 49 50 51 52	6-02.3(17)K.OPT1.GB6	 (Stay-in-place Metal forms for Steel Box Girders) (August 3, 2015) Use in projects with steel box girder bridges when stay-in-place metal forms are allowed by the

1 2 3 4 5		10clude with 6-02.4.OP11.FB6, 6-02.5.OPT26.FB6, 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, and 6-03.4.OPT1.FB6.
6 7	6-02.3(18).GR6	Placing Anchor Bolts
8 9 10 11	6-02.3(18).INST1.GR6	(Section 6-02.3(18) is supplemented with the following: Must use once preceding any of the following:
12 13 14 15	6-02.3(18).OPT1.G	GR6 (January 3, 2011) Include in projects requiring resin bonded anchors for attaching and anchoring items to concrete structures. Must also include 6-02.2.OPT1.GR6.
17 18	6-02.3(24).GR6	Reinforcement
19	6-02.3(24)C.GR6	Placing and Fastening
20 21 22 23 24	6-02.3(24)C.INST1	.GR6 (Section 6-02.3(24)C is supplemented with the following) Must use once preceding any of the following:
24 25 26 27 28 29 30 31 32 33 34 35	6-02.3(24)C.OF	Orilling Holes for, and Setting, Steel Reinforcing Bar Dowels) (September 8, 2020) Use in projects where holes are drilled into existing concrete and steel reinforcing bar dowels are set with epoxy resin. Include with 6-02.2.OPT2.GB6. Include the above with 2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2, and 2-02.5.OPT7.GR2 when extending a conc. box culvert.
36 37	6-02.3(25).GR6	Prestressed Concrete Girders
38 39	6-02.3(25)L.GR6	Handling and Storage
40	6-02.3(25)L2.GR6	Girder Lateral Stability and Stress Analysis
41 42 43 44 45	6-02.3(25)L2.INS	T1.GR6 (The table in Item No. 4 in the first paragraph of Section 6-02.3(25)L2 is revised to read: Must use preceding the following:
46 47 48 49	<u>6-02.3(25)L2.0</u>	OPT1.2025.GR6 (Stability and Stress Analysis Table) (November 20, 2023) Use in All projects with prestressed concrete girders.
50 51	6-02.3(26).GR6	Cast-in-Place Prestressed Concrete
52 53	6-02.3(26).INST1.GR6	(The third paragraph of Section 6-02.3(26) is

1 2 3 4		revised to read as follows) Must use once preceding any of the following:
4 5 6 7 8 9	6-02.3(26).OPT	1.GB6 (Cast-in-Place Prestressed Concrete) (January 4, 2010) Use in projects with segmental post-tensioned structures. Check with the Region Construction Engineer to see if testing equipment is available.
10 11 12	6-02.4.GR6 M	leasurement
13 14	6-02.4.INST1.GR6	(Section 6-02.4 is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20 21 22 23 24 25 26 27	6-02.4.OPT1.FB6 (Summary of Quantities for Superstructure and Deck) (September 8, 2020) Use in bridge construction projects with lump sum superstructure or bridge deck. The first and t specify the appropriate bid item name ("Supers" or "Bridge Deck"). The seccitemizes the approximate quantities included. Inc. 6-02.5.OPT26.FB6 when the "Bridge Deck item is used. (3 fill-ins)	
28 29 30 31 32 33 34 35 36 37	6-02.4.OPT3.FB6	(Modular Expansion Joint System) (September 8, 2020) Include in projects requiring a modular expansion joint system. The fill-in in is to itemize the quantities of work and materials included in the lump sum item. Coordination with the Bridge and Structures Office Bearing and Expansion Joint Specialist is required. Include with 6-02.3(13)C.OPT1.FB6 and 6-03.3(30).OPT1.FB6. (1 fill-in)
38 39 40 41 42 43 44 45	6-02.4.OPT8.FB6	(Expansion Joint Modification) (September 8, 2020) Use in projects with lump sum item for expansion joint modification. The fill-in specifies the approximate quantities included. Include with 6-02.5.OPT33.GB6 and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13). (1 fill-in)
46 47 48 49 50 51 52 53	6-02.4.OPT24.GB6	(Epoxy Crack Sealing) (August 6, 2012) Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with 6-02.2.OPT4.GB6, 6-02.3.OPT1.GB6, and 6-02.5.OPT49.GB6.

1 2 3 4 5 6 7 8 9 10 11 12 13	6-02.4.OPT26.G	:	(Modifying Bridge Drain) (June 26, 2000) Use in projects where modifying bridge drains is a standalone bid item. Include with 6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6, and 6-02.5.OPT51.GB6 with modified concrete overlay projects. Include the above with 6-02.3(10)D.OPT4.GB6 with membrane waterproofing and ACP overlay projects.
	6-02.4.OPT27.G		(Plugging Existing Bridge Drain) (June 26, 2000) Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with 6-02.3(10)D.OPT5.GB6 and 6-02.5.OPT52.GB6.
15 16 17 18 19 20	6-02.4.OPT32.G		(Core Drilled Bridge Deck Drain) (April 6, 2015) Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with 6-02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.5.OPT58.GB6.
21 22 23 24 25 26 27 28 29	6-02.4.OPT43.G	:	(Longitudinal Seismic Restrainer) (April 6, 2015) Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with 6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).GB6, 6-02.3.OPT8(L).GB6, 6-02.3(18).OPT1.GR6, 6-02.5.OPT71.GB6 and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
30 31 32 33 34 35 36 37 38	6-02.4.OPT44.FI		(Seismic Retrofit) (September 8, 2020) Use in projects with a lump sum item for seismic retrofit. The fill-in specifies the approximate quantities included. Include with 6-02.5.OPT72.GB6 and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3. (1 fill-in)
39 40 41 42 43 44 45 46 47 48 49 50	6-02.4.OPT45.FI		(Column Jacketing) (September 8, 2020) Use in projects with a lump sum item for column jacketing. The fill-in specifies the approximate quantities included. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived. (1 fill-in)
51 52 53	6-02.5.GR6	Payme	nt

1 2 3 4 5 6 7 8 9	6-02.5.INST3.GR6	(The fifth and sixth bid items under Section 6-02.5 are supplemented with the following) Must use once preceding any of the following:
	6-02.5.OPT20.GB6	(Epoxy-coated St. Reinf. Bar for Bridge) (April 6, 2015) Use in projects with small amounts of epoxy-coated steel reinforcing bar in bridge substructure which is included in the quantity for "St. Reinf. Bar for Bridge" in lieu of a separate stand-alone bid item.
11 12 13	6-02.5.INST4.GR6	(Section 6-02.5 is supplemented with the following) Must use once preceding any of the following:
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	6-02.5.OPT26.FB6	(Bridge Deck) (August 2, 2010) Use in steel bridge construction projects with lump sum items for bridge deck. The fill-in specifies work items included in the bid item. Include with <i>6-02.4.OPT1.FB6</i> . (1 fill-in)
	6-02.5.OPT33.GB6	(Expansion Joint Modification) (April 6, 2015) Use in projects where expansion joint modification is a lump sum item. Include with 6-02.4.OPT8.FB6 and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
	6-02.5.OPT49.GB6	(Epoxy Crack Sealing) (August 1, 2011) Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with 6-02.2.OPT4.GB6, 6-02.3.OPT1.GB6, and 6-02.4.OPT24.GB6.
	6-02.5.OPT51.GB6	(Modify Bridge Drain) (June 26, 2000) Use in projects where modifying bridge drains is a standalone bid item. Include with 6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6, and 6-02.4.OPT26.GB6 with modified concrete overlay projects. Include the above with 6-02.3(10)D.OPT4.GB6 with waterproof membrane and HMA overlay projects.
	6-02.5.OPT52.GB6	(Plugging Existing Bridge Drain) (June 26, 2000) Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with 6-02.3(10)D.OPT5.GB6 and 6-02.4.OPT27.GB6.
	6-02.5.OPT53.FB6	(Modifying or Plugging Existing Bridge Drain) (June 26, 2000)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Use in projects where payment for modifying or plugging existing bridge drains is included under either "Waterproof Membrane" or "Finishing and Curing Modified Conc. Overlay". The first fill-in specifies whether the work is modifying or plugging existing bridge drains. The second fill-in specifies appropriate pay item for the work. Include with 6-02.2.OPT48.GB6, and 6-02.3(10)D.OPT3.GB6 for modifying bridge drains with modified concrete overlay projects. Include the above with 6-02.3(10)D.OPT4.GB6 for modifying bridge drains with waterproof membrane and HMA overlay projects. Include with 6-02.3(10)D.OPT5.GB6 for plugging existing bridge drains. (2 fill-ins)
	6-02.5.OPT58.GB6	(Core Drilled Bridge Deck Drain) (April 6, 2015) Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with 6-02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.4.OPT32.GB6.
	6-02.5.OPT59.FB6	(Core Drilled Bridge Deck Drain) (April 6, 2015) Use in projects where core drilled bridge deck drain is included in a separate bid item. The fill-in specifies the bid item including this work. Include with 6-02.2.OPT58.GB6 and 6-02.3(10)D.OPT12.GB6. (1 fill-in)
	6-02.5.OPT71.GB6	(Longitudinal Seismic Restrainer) (April 6, 2015) Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with 6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).GB6, 6-02.2.OPT60(D).GB6, 6-02.3.OPT8(L).GB6, 6-02.3(18).OPT1.GR6, 6-02.4.OPT43.GB6 and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
	6-02.5.OPT72.GB6	(Seismic Retrofit) (April 6, 2015) Use in projects with seismic retrofit of bridges. Include with 6-02.4.OPT44.FB6 and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
	6-02.5.OPT73.GB6	(Column Jacketing) (April 6, 2015) Use in projects with column jacketing of bridges. Include with 6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6 when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

1 2 3 4 5 6 7 8 9	6-02.5.OF	PT91.FB6	(June Use there unit p	ge and Structures Minor Items) 2 26, 2000) in projects with bridges and other structures when are minor items that are incidental to a lump sum or a price bid item. The first fill-in specifies the minor items. second fill-in specifies the appropriate pay item(s) for hinor itemsins)
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	6-02.5.OF	PT92.FB6	(June Use utilitie secon specimate exclusive specimal mater of the control of the	ge Supported Utilities) 26, 2000) in projects requiring installation of bridge supported es. The first fill-in specifies the type of utility. The end fill-in specifies the bridge(s). The third fill-in ifies the work performed by the Contractor (furnishing rials, installing materials, coordination with utility, etc.), adding furnishing and installing inserts. The fourth fill-in ifies the pay item. Include with 6-02.3.OPT2(B).GB6, appropriate bridge supported utility material GSP's, if aterials and work are supplied and performed by the ractor. Include with 6-02.3.OPT2(C).GB6 and 6-OPT93.GB6 if a utility company is supplying and arming a portion of the utility materials and work. de with 6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 4.OPT1.FB6, and 6-02.5.OPT26.FB6 when the orts include concrete inserts.
29 30 31 32 33 34 35 36 37 38	6-02.5.OPT93.GB6		(Bridge Supported Utilities) (June 26, 2000) Use in projects requiring installation of bridge supported utilities where a utility company is supplying and performing a portion of the utility materials and work. Include with 6 02.3.OPT2(C).GB6 and 6-02.5.OPT92.FB6, and appropriate bridge supported utility material GSP's. Include with 6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6, and 6-02.5.OPT26.FB6 when the supports include concrete inserts.	
39 40 41	6-03.GR6	Steel Stru	ctures	
41 42 43	6-03.3.GR6	Cons	structio	on Requirements
44 45	6-03.3(7).GI	₹6 \$	Shop P	lans
46 47	6-03.3(7)	A.GR6	Erec	tion Methods
48 49 50	6-03.3	3(7)A.INST1.0	6	The list in the second paragraph of Section -03.3(7)A is supplemented with the following) flust use once preceding any of the following:
51 52 53	6-	03.3(7)A.OPT	Γ1.GB6	(Erection by Girder Launching) (April 6, 2015)

1 2			Use in projects where girder launching may be used as an erection method.
3 4 5 6 7 8 9	6-03.3(7)A.OPT	72.GB6	(Hand-held Drilling and Reaming) (April 6, 2015) Use in projects where drilling and reaming operations with hand-held devices is permissible. Include with 6-03.3(27)B.OPT1.FB6. (1 fill-in)
10 11 12	6-03.3(25).GR6	Welding a	nd Repair Welding
13 14 15	6-03.3(25).INST1.GR6		n 6-03.3(25) is supplemented with the following) se once preceding any of the following:
16 17 18 19 20 21 22 23	6-03.3(25).OPT2.G	(NG (Apr Use gird Acc ESV	rrow Gap Improved-Electroslag Welding II-ESW) Procedure) ril 6, 2015) in projects with steel plate girder bridges and box er bridges primarily with Grades 50 and 50W steel. companying details are required in the Plans for NGI- V test joint configurations for WPS qualification and rpy v-notch test specimens.
24 25	6-03.3(27).GR6	ligh Stre	ngth Bolt Holes
26 27	6-03.3(27)B.GR6	Reame	d and Drilled Holes
28 29 30 31	6-03.3(27)B.INST1	6-03	e second sentence of the first paragraph of Section 3.3(27)B is revised to read) It use once preceding any of the following:
32 33 34 35 36 37 38 39 40	6-03.3(27)B.OP	T1.FB6	(Hand-held Drilling and Reaming) (September 8, 2020) Use in projects where drilling and reaming operations with hand-held devices is permissible. The first fill-in specifies the members and items being drilled and reamed, and the second fill-in specifies the bridge(s) where the work is being done. Include with 6-03.3(7)A.OPT2.GB6. (2 fill-ins)
42 43	6-03.3(28).GR6	Shop Ass	embly
44 45	6-03.3(28)A.GR6	Method	l of Shop Assembly
46 47 48 49	6-03.3(28)A.INST1	follo	ction 6-03.3(28)A is supplemented with the wing) st use once preceding any of the following:
50 51 52	6-03.3(28)A.OP	T1.GB6	(Progressive Transverse Shop Assembly) (August 5, 2013)

1 2 3 4 5 6 7 8		Use in projects with new steel girder bridges that have curved or skewed geometry, with the concurrence of the Bridge and Structures Office Steel Specialist. Include with 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.
9	6-03.3(28)B.GR6 Che	ck of Shop Assembly
10 11 12 13 14	i i i	(Section 6-03.3(28)B is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20 21	6-03.3(28)B.OPT1.GE	(Check of Shop Assembly) (August 3, 2015) Use in projects with new steel bridges. Include with 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.
22	6-03.3(30).GR6 Paintir	ng
23 24 25 26	` ,	ction 6-03.3(30) is supplemented with the following) at use once preceding any of the following:
20 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41		(Color of Finish Coat) (August 3, 2009) Use in projects with new steel bridges and steel members to cover paint color requirements by specifying the SAE AMS Standard 595 Color Number, or the color name if no number. Include with 6-03.3(28)B.OPT1.GB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6. Also include in projects with new minor steel items such as steel expansion joints (6-02.3(13).OPT3.FB6, 6-02.4.OPT3.FB6, 6-02.5.OPT28.GB6, and 6-02.2.OPT22.GB6) and bearings (6-02.3(19)B.OPT1.GB6). (1 fill-in)
42 43 44 45 46 47 48 49 50 51 52 53	6-03.3(30).OPT6.FB6	(Painting Galvanized Seismic Retrofit Components) (April 6, 2015) Use in seismic retrofit projects where galvanized steel components are attached to painted members of existing steel bridges to cover paint color requirements. The first fill-in specifies the galvanized components to be painted. The second fill-in specifies the SAE AMS Standard 595 Color Number, or the color name if no number. (2 fill-ins)
54	6-03.3(38).GR6 Placing	g Superstructure

1 2 3	6-03.3(38).INST1.G	R6 (Section 6-03.3(38) is supplemented with the following) Must use once preceding any of the following:
4 5 6 7 8 9 10 11 12 13	6-03.3(38).OPT1	.GB6 (Concrete Protection) (August 3, 2015) Use within projects with bridges having weathering steel superstructure members which remain unpainted at completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with 6-03.5.OPT7.FB6.
14 15	6-03.3(39).GR6	Swinging the Span
16 17 18	6-03.3(39).INST1.G	R6 (Section 6-03.3(39) is supplemented with the following) Must use once preceding any of the following:
19 20 21 22 23 24	6-03.3(39).OPT1	.GB6 (Girder Camber Field Measurements) (June 26, 2000) Use in projects with new steel bridges. Include with 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.
25 26	6-03.4.GR6 Me	easurement
27 28 29 30 31 32 33 34 35 36 37	6-03.4.INST1.GR6	(Section 6-03.4 is supplemented with the following) Must use once preceding any of the following:
	6-03.4.OPT1.FB6	(Structural Low Alloy Quantities) (August 6, 2007) Use in projects with new steel bridges. Include with 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, and 6-03.3(39).OPT1.GB6. Include with 6-03.5.OPT1.GB6 when the steel girder includes a pipe railing. (2 fill-ins)
38 39	6-03.5.GR6 Pa	yment
40 41 42 43 44 45 46 47 48 49 50	6-03.5.INST1.GR6	(The second bid item under Section 6-03.5 is supplemented with the following) Must use once preceding any of the following:
	6-03.5.OPT1.GB6	(Payment for Steel Girder Railing) (August 6, 2007) Use in projects with new steel bridges when the steel girder includes a pipe railing. Include with 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, and 6-03.4.OPT1.FB6.
51 52 53	6-03.5.INST2.GR6	(Section 6-03.5 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10	6-03.5.OPT7.FB6		(Payment for Concrete Protection) (June 26, 2000) Use in projects with bridges having weathering steel members which remain unpainted at the completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with 6-03.3(38).OPT1.GB6. (1 fill-in)	
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	6-04.GR6	Timber St	ructures	
	6-04.3.GR6	Cons	struction Requirements	
	6-04.3(1).GF	₹6	Storing and Handling Material	
	6-04.3(1)	INST1.GR6	(Section 6-04.3(1) is supplemented with the following) Must use once preceding any of the following:	
	6-04.3(1).OPT1.GB		(Fire Prevention) (March 6, 2000) Use in all timber bridge construction and timber deck replacement projects. Include with <i>6-04.5.OPT1.FB6</i> .	
	6-04.3	8(1).OPT2.GB	(Top Flange Treatment) (January 2, 2018) Include in timber redecking projects. Include with 6-04.3(1).OPT1.GB6, 6-04.5.OPT1.FB6, and 6-04.5.OPT2.FB6.	
	6-04.5.GR6	Payr	nent	
33 34 35 36	6-04.5.INST		(Section 6-04.5 is supplemented with the following) Must use once preceding any of the following:	
37 38 39 40 41 42	6-04.5.OPT1.FB6		(Fire Protection) (March 6, 2000) Use in all timber bridge construction and timber deck replacement projects. Include with <i>6-04.3(1).OPT1.GB6</i> . (1 fill-in)	
43 44 45 46 47 48 49	6-04.5.OPT2.FB6		(Top Flange Treatment) (March 6, 2000) Use in timber deck replacement projects. Include with 6-04.3(1).OPT1.GB6, 6-04.3(1).OPT2.GB6, and 6-04.5.OPT1.FB6. (1 fill-in)	
50	6-05.GR6	Piling		
51 52 53	6-05.2.GR6 Mate		prials	
54	6-05.2.INST1.GR6		(Section 6-05.2 is supplemented with the following)	

1	N	Must use once preceding any of the following:		
2 3 4 5 6 7	6-05.2.OPT1.GB6	Micropiles (April 6, 2015) Use in projects where micropiles are required. Include with 6-05.3.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6.		
8 9 10	6-05.3.GR6 Cons	ruction Requirements		
10 11 12 13		Section 6-05.3 is supplemented with the following) Must use once preceding any of the following:		
14 15 16 17 18 19 20 21 22 23	6-05.3.OPT1.FB6	Micropiles (October 3, 2022) Use in projects where micropiles are required. The first fill-in specifies the top elevation of the micropile bond zone. The second fill-in specified the permanent casting minimum tip elevations. The third fill-in specifies the location(s) of micropile verification tests. Include with 6-05.2.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6. (Three fill-ins)		
24	6-05.3(5).GR6	Manufacture of Steel Piles		
25 26 27 28 29	6-05.3(5).INST1.GR6	(Section 6-05.3(5) is supplemented with the following) Must use once preceding any of the following:		
30 31 32 33 34 35	6-05.3(5).OPT1.GB	6 (Furnishing St. Piling) (September 8, 2020) Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with 6-05.3(6).OPT1.GB6		
36 37	6-05.3(6).GR6	Splicing Steel Casings and Steel Piles		
38 39 40 41 42	6-05.3(6).INST1.GR6	(Section 6-05.3(6) is supplemented with the following) Must use once preceding any of the following:		
43 44 45 46 47 48	6-05.3(6).OPT1.GB	(Furnishing St. Piling) (September 8, 2020) Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with 6-05.3(5).OPT1.GB6.		
49 50	6-05.3(10).GR6 T	est Piles		
51 52 53	6-05.3(10).INST1.GR6	(Section 6-05.3(10) is supplemented with the following)		

1		Must use once preceding any of the following:				
2 3 4 5 6 7 8 9	(k f i		urnishing and Driving Test Piles) arch 6, 2000) clude in projects having test piles, as recommended the Materials Laboratory Geotechnical Branch. The t, third, and fourth fill-ins specify the pile type (cast- place conc., steel, timber, etc.). The second fill-in ecifies the general location (bridge and pier). fill-ins)			
11 12	6-05.3(11).GR6 D	riving F	Piles			
13 14 15 16	6-05.3(11)D.GR6		ving Minimum Tip Elevation and Bearing			
17 18 19	6-05.3(11)D.INST1.6	the	ection 6-05.3(11)D is supplemented with following) st use once preceding any of the following:			
20 21 22 23 24 25 26	6-05.3(11)D.OP	Г2.GB6	(Vibration From Pile Driving) (August 3, 2015) Include in projects where minimizing vibration from driving piles is critical, as recommended by the Materials Laboratory Geotechnical Branch.			
27 28 29 30 31 32 33 34 35 36 37 38	6-05.3(11)D.OP	Г3.FB6	(Preboring Piles) (August 3, 2015) Include in projects where preboring of piles is required to prevent downdrag from settlement, as recommended by the Materials Laboratory Geotechnical Branch. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with 6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6. (3 fill-ins)			
39 40 41 42 43 44 45 46 47 48 49 50	6-05.3(11)D.OP	Γ4.FB6	(Preboring Piles) (August 3, 2015) Include in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with 6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6. (3 fill-ins)			
52 53	6-05.3(11)D.OP	Г9.FB6	(Overdriving)			

1 2 3 4 5 6 7 8 9 10 11			(April 6, 2015) Include in projects where overdriving of piles is anticipated in order to reach the minimum tip elevation, as recommended by the Materials Laboratory Geotechnical Branch. The first fill-in specifies the general location(s) (bridge and pier) of the anticipated pile overdriving. The second fill-in specifies the approximate magnitude of expected overdriving. (2 fill-ins)
12 13	6-05.4.GR6	Me	easurement
14 15	6-05.4.INS	ST1.GR6	(Section 6-05.4 is supplemented with the following) Must use once preceding any of the following:
16 17 18 19 20 21 22 23 24 25	6-05.4.0	OPT1.FB6	(Preboring Piles) (March 6, 2000) Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. The fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). Include with 6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.5.OPT1.FB6. (1 fill-in)
26 27 28 29 30 31 32	6-05.4.0	OPT6.GB6	Micropiles (April 6, 2015) Use in projects where micropiles are required. Include with 6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.5.OPT6.GB6.
33 34	6-05.5.GR6	Pa	ryment
35 36 37	6-05.5.INS	ST1.GR6	(Section 6-05.5 is supplemented with the following) Must use once preceding any of the following:
38 39 40 41 42 43 44 45 46 47	6-05.5.0	OPT1.FB6	(Preboring Piles) (March 6, 2000) Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. Both fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). Include with 6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.4.OPT1.FB6. (2 fill-ins)
47 48 49 50 51 52 53	6-05.5.0	OPT6.GB6	Micropiles (April 6, 2015) Use in projects where micropiles are required. Include with 6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.4.OPT6.GB6.
53 54	6-06.GR6	Bridge	Railings

1 2	6-06.2.GR6	Materials
3 4 5 6 7 8 9 10 11 12 13	6-06.2.INST1.GR6	(Section 6-06.2 is supplemented with the following) Must use once preceding any of the following:
	6-06.2.OPT1.G	(Bridge Railing Type Chain Link Fence) (January 5, 2004 November 20, 2023) Use in projects with Bridge Railing Type Chain Link Fence. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, and 6-06.3(2).OPT1.GB6. Also include 6-06.5.OPT1.FB6 if the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck".
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	6-06.2.OPT2.G	(Bridge Railing Type Chain Link Fence) (March 6, 2000) Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 6-06.2.OPT1.GB6 and 6-06.3(2).OPT2.GB6. Also include 6-06.5.OPT1.FB6 if the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck".
	6-06.2.OPT7.G	B6 (Tamper Proof Nuts for steel Bridge Railing Type BP) (April 6, 2015) Use in projects where steel Bridge Railing Type BP is used.
	6-06.2.OPT8.FI	(Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence) (May 28, 2020 November 20, 2023) Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. The fill-in specifies the Federal Standard 595 Color Number, or the color name if no number. Include with 6-06.3(2).OPT7.GB6. (1 fill-in)
39 40 41	6-06.3.GR6	Construction Requirements
42 43	6-06.3(2).GR6	Metal Railings
43 44 45 46 47	6-06.3(2).INST	1.GR6 (Section 6-06.3(2) is supplemented with the following) Must use once preceding any of the following:
48 49 50 51 52 53	6-06.3(2).O	(Bridge Railing Type Chain Link Fence) (March 6, 2000 November 20, 2023) Use in projects with Bridge Railing Type Chain Link Fence where the posts are fastened into position with anchor bolts or resin bonded anchors. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, and 6-

1 2 3				06.2.OPT1.GB6 . Also include 6-06.5.OPT1.FB6 if the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck".
4 5 6 7 8 9 10 11 12 13 14	6-00	6.3(2).OPT2.0	GB6	(Bridge Railing Type Chain Link Fence) (March 6, 2000) Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 6-06.2.OPT1.GB6 and 6-06.2.OPT2.GB6. Also include 6-06.5.OPT1.FB6 if the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck".
15 16 17 18 19 20 21	6-00	6.3(2).OPT7.0	GB6	(Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence) (November 20, 2023 May 28, 2020) Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. Include with 6-06.2.OPT8.FB6.
22	6-06.5.GR6	Pa	yment	
23 24 25 26	6-06.5.INS	ST1.GR6		ion 6-06.5 is supplemented with the following) use once preceding any of the following:
27 28 29 30 31 32 33 34 35	6-06.5.	OPT1.FB6	(M Us inc "Si fill- sp	ridge Railing) arch 6, 2000) se in projects with bridge railing where the work is cluded as part of a separate bid item such as uperstructure", or "Roadway Deck". The first in specifies the bridge railing type. The second fill-in ecifies the bid item name. fill-ins)
36 37	6-07.GR6	Painting	9	
38	6-07.1.GR6	De	scripti	on
39 40 41 42	6-07.1.INS	ST1.GR6		ion 6-07.1 is supplemented with the following) use once preceding any of the following:
42 43 44 45 46 47 48 49 50 51 52 53	6-07.1.	OPT1.FB6	(A) Ind ste by be Ind 07 pre an	cope of Work) ugust 3, 2009) clude in projects with cleaning and painting of existing eel bridge(s). Use to define limits of cleaning and painting using the second fill-in to specify surfaces that are not to painted (light fixtures, utilities, bridge attachments, etc.). clude with 6-07.3(10)D.OPT1.FB6 and/or 6- 3(10)E.OPT1.FB6 as appropriate for the surface eparation requirements. Include with DESWORK2.FB1 and 6-07.3(10)I.OPT1.FB6. Include with 1- 2.1(2).OPT23.FR1 if the existing bridge(s) contain lead

1 2 3		paint. Include with 1-07.6.OPT4.GB1 if the bridge(s) cross a navigable waterway. (2 fill-ins)
4 5 6 7 8 9 10 11 12 13 14 15	6-07.1.OPT2.FB6	(Scope of Work) (August 3, 2009) Include in projects with cleaning and painting of existing timber bridge(s). Use to define limits of cleaning and painting by using the second fill-in to specify the surfaces to be painted (railing, rail posts, wheelguards, etc.). Include with 1-07.1(2).OPT23.FR1 if the existing bridge(s) contain lead paint. Project specific Special Provisions supplementing Section 6-07.3(13) may be required to specify specific primer and top coat paint requirements. (2 fill-ins)
16 17 18	6-07.3.GR6 Cor	nstruction Requirements
19	6-07.3(10).GR6	Painting Existing Steel Structures
20 21 22 23	6-07.3(10).INST1.GR	(Section 6-07.3(10) is supplemented with the following)Must use once preceding any of the following:
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	6-07.3(10).OPT1.	(Utility Conduits) (August 3, 2009) Include only when utility conduits are attached to the existing bridge(s) being painted. Fill-in to read "shall or "shall not". Include with DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6. (1 fill-in)
	6-07.3(10).OPT2.	GB6 (Light Fixtures) (August 3, 2009) Include only when light fixtures are attached to existing bridge(s) being painted. Include with <i>DESWORK2.FB1</i> , 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6.
39 40 41 42 43 44	6-07.3(10).OPT4.	GB6 (Cleaning Grid Deck) (August 3, 2015) Use with DESWORK2.FB1 , 6-07.1.OPT1.FB6, 6-07.3(10)I.OPT1.FB6, and 6-07.3(10)N.OPT1.GB6 if the bridge has a grid roadway deck or steel grid catwalks which require cleaning and painting.
45 46	6-07.3(10)A.GR6	Containment
47 48 49 50	6-07.3(10)A.INST	1.GR6 (Section 6-07.3(10)A is supplemented with the following) Must use once preceding any of the following:
51 52 53	6-07.3(10)A.C	OPT1.GB6 (Protection of Existing Structure) (August 3, 2009)

1 2 3 4 5	Use only when the bridge has mechanical equipment to protect such as a draw bridge. Include with DESWORK2.FB1 , 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6.
6 7 8 9 10 11 12	6-07.3(10)A.OPT2.FB6 (Containment System) (September 7, 2021) Use when a paint removal containment system must be removed from a bridge when winds at the site exceed a wind speed/gust threshold. Fill-in #1 specifies the bridge(s) that have wind speed/gust thresholds. Fill-in #2 specifies the wind speed/gust threshold.
14	(2 fill-ins)
15 16 17	6-07.3(10)D.GR6 Surface Preparation Prior to Overcoat Painting
18 19 20	6-07.3(10)D.INST1.GR6 (Section 6-07.3(10)D is supplemented with the following) Must use once preceding any of the following:
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	6-07.3(10)D.OPT1.FB6 (Surfaces Requiring Overcoat Painting Surface Preparation) (April 6, 2015) Use in bridge painting projects with bridges and bridge members requiring surface preparation for overcoat painting. Include with <i>DESWORK2.FB1</i> , 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6. Include with 6-07.3(10)E.OPT1.FB6 if the bridge(s) also have bridge members requiring full paint removal. Include with 1-07.1(2).OPT23.FR1 if the existing bridge(s) contain lead paint. Include with 1-07.6.OPT4.GB1 if the bridge(s) cross a navigable waterway. The first fill-in specifies the bridge(s) requiring overcoat painting surface preparation. The second fill-in specifies the bridge members requiring overcoat painting surface preparation. (2 fill-ins)
41 42	6-07.3(10)E.GR6 Surface Preparation – Full Paint Removal
43 44 45 46	6-07.3(10)E.INST1.GR6 (Section 6-07.3(10)E is supplemented with the following) Use once preceding any of the following:
47 48 49 50 51 52 53	6-07.3(10)E.OPT1.FB6 (Surfaces Requiring Full Paint Removal Surface) Preparation) (April 5, 2010) Use in bridge painting projects with bridges and bridge members requiring surface preparation for full paint removal. Include with <i>DESWORK2.FB1</i> ,

1 2 3 4 5 6 7 8 9 10 11 12 13		Include with 6-07.3(10)D.OPT1.FB6 if the bridge(s) also have bridge members requiring overcoat painting. Include with 1-07.1-OPT2(2).OPT3.FR1 if the existing bridge(s) contain lead paint. Include with 1-07.6.OPT4.GB1 if the bridge(s) cross a navigable waterway. The first fill-in specifies the bridge(s) requiring full paint removal surface preparation. The second fill-in specifies the bridge members requiring full paint removal surface preparation. (2 fill-ins)
14 15	6-07.3(10)I.GR6 Pa	int Color
16 17	6-07.3(10)I.INST1.GR6	(Section 6-07.3(10)I is supplemented with the following)
18		Must use once preceding any of the following:
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	6-07.3(10)I.OPT1.FE	(Color of Top Coat) (August 3, 2009) Use in projects with existing steel bridges and bridge members to cover paint color requirements by specifying the SAE AMS Standard 595 Color Number, or the color name if no number. Use with DESWORK2.FB1 , and 6-07.1.OPT1.FB6 . Include with 6-07.3(10)D.OPT1.FB6 and/or 6-07.3(10)E.OPT1.FB6 as appropriate for the surface preparation requirements. Include with 1-07.1(2).OPT23.FR1 if the existing bridge(s) contain lead paint. Include with 1-07.6.OPT4.GB1 if the bridge(s) cross a navigable waterway. (1 fill-in)
35	6-07.3(10)N.GR6 Fie	eld Coating Application Methods
36	• •	
37		(Section 6-07.3(10)N is supplemented with
38 39		the following) Must use once preceding any of the following:
40		wast add offed proceding any of the following.
41 42 43 44 45 46 47	6-07.3(10)N.OPT1.G	(Painting Grid Deck) (August 3, 2009) Use with DESWORK2.FB1 , 6-07.1.OPT1.FB6 , 6-07.3(10).OPT4.GB6 and 6-07.3(10)I.OPT1.FB6 if the bridge has a grid roadway deck or steel grid catwalks which require painting.
48 49	6-07.3(11).GR6 Paint	ing or Powder Coating of Galvanized Surfaces
50		ection 6-07.3(11) is supplemented with the
51 52		owing) st use once preceding any of the following:
53	IVIG	or and office proceeding any of the following.

1 2 3 4 5 6 7	6-07.3(11).OPT1.FB6		(Coating Color) (August 3, 2009) Use in projects requiring coating of galvanized surfaces with either paint or powder coating. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number. (1 fill-in)
8 9	6-08.GR6	Bituminous	s Surfacing on Structure Decks
10 11 12	6-08.3.GR6	Const	truction Requirements
13 14 15	6-08.3.INST	`	Section 6-08.3 is supplemented with the following) Must use once preceding the following:
15 16 17 18 19 20 21 22 23 24 25	6-08.3.OI	PT1.FB6	(Surfacing Removal and Paving Equipment Load and Spacing Restrictions) (October 29, 2020) Use in bridge deck paving projects where specific bridges are subject to surfacing removal and paving equipment load and spacing restrictions as shown and specified in the Plans. The fill-in specifies the Bridge Number(s) of the bridge(s) affected by these restrictions. (1-fill-in)
26 27	6-08.3(2).GR6		Contractor Survey for Grade-Controlled Structure Decks
28 29 30 31	6-08.3(2).INST1.GR6		(Section 6-08.3(2) is supplemented with the following) Must use once preceding any of the following:
32 33 34 35 36 37 38 39 40	6-08.3(2).OPT1.FB6		(Contractor Structure Survey Not Applicable) (January 3, 2017) Use in projects where the Contracting Agency performs the Structure survey for Grade Controlled Structure Decks, and the Contract Plans were adjusted for Final Grade Profile and Adjusted Removal Depth as needed. The fill-in specifies the Bridge number(s) where the Contracting Agency is performing the survey. (1 fill-in)
41 42 43	6-08.3(5).GI		Full Depth Removal of Bituminous Pavement from Bridge Decks
44 45 46 47	, ,		(Section 6-08.3(5) is supplemented with the following) Must use once preceding any of the following:
48 49 50 51 52 53	6-08.3	3(5).OPT1.FB6	(Rotary milling/planing equipment prohibited) (January 2, 2018) Use in bridge deck paving projects where equipment used to perform full depth removal of existing surfacing from specific Grade Controlled bridges is restricted to

1 exclude rotary milling/planing equipment. Bridges in 2 this category are generally identified in the Bridge 3 Condition Report (BCR) prepared for the project by the 4 Bridge Asset Management unit of the Bridge and 5 Structures Office and provided to the Region Design PE 6 Offices as part of the site data at the beginning of the 7 project design phase. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions. 8 9 (1 fill-in) 10 11 6-08.3(5).OPT2.FB6 (Rotary milling/planing equipment restricted to upper 12 layer of existing surfacing) 13 (January 2, 2018) 14 Use in bridge deck paving projects where equipment 15 used to perform full depth removal of existing surfacing 16 from specific Grade Controlled bridges is restricted to allow rotary milling/planing equipment for the upper 17 layer 0.10-feet above the bridge deck. 18 19 surfacing thicknesses at these bridges shall be 0.20feet minimum. The fill-in specifies the Bridge Number(s) 20 21 of the bridges affected by these restrictions. 22 (1 fill-in) 23 24 6-09.GR6 **Modified Concrete Overlays** 25 26 6-09.2.GR6 Materials 27 6-09.2.OPT1.2025.GR6 (The second, third, fourth, and fifth paragraphs are deleted 28 29 from Section 6-09.2) 30 (February 6, 2023) 31 Use in all FMC, LMC, and MMC deck overlay projects. Must 32 with 6-09.3(3)A.OPT1.2025.GR6. 33 09.3(3)B.OPT1.2025.GR6, 6-09.3(3)C.OPT1.2025.GR6, 6-34 09.3(3)D.OPT1.2025.GR6, and 6-09.3(3)E.OPT1.2025.GR6. 35 36 6-09.2.INST1.GR6 (Section 6-09.2 is supplemented with the following) 37 Must use once preceding any of the following: 38 39 6-09.2.OPT8.BSP.GB6 (Materials For Polyester Concrete) 40 41 Use in projects where polyester concrete is required. 42 Include with 6-09.3(1).OPT1.BSP.GB6. 43 09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-44 09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-45 09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-46 09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-47 09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-48 09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-49 09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-50 09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-51 09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-52 09.5.OPT8.BSP.GB6 and 6-09.5.OPT9.BSP.GB6. 53

1 2 3 4 5 6 7 8 9 10 11	6-09.3(3).OPT1.GB6 6-09.3(3).OPT2.GB6	(FMC, LMC, and MMC) (January 7, 2002) Use in modified concrete overlay projects where all three concrete overlay mixes are allowed. Include with either 6-09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6. (FMC or LMC Only) (January 7, 2002) Use in modified concrete overlay projects where only fly ash modified concrete or latex modified concrete overlay mixes are allowed. Include with either 6-
13 14 15 16 17 18 19 20	6-09.3(3).OPT3.GB6	09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6. (LMC Only) (January 7, 2002) Use in modified concrete overlay projects where only latex modified concrete overlay mixes are allowed. Include with either 6-09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6.
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	6-09.3(3).OPT9.BSP.G	Colyester Concrete
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	6-09.3(3).OPT10.BSP.0	Concrete Overlays) (*******) Use in projects where polyester concrete is required. Include with 6-09.2.OPT8.BSP.GB6, 6- 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6- 09.3(3).OPT9.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6- 09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6- 09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6,

1 2 3		09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.
4 5	6-09.3(3)A.GR6 Ge	neral
6 7	6-09.3(3)A.INST1.GR6	(Section 6-09.3(3)A is revised to read) Must use once preceding any of the following:
8 9 10	6-09.3(3)A.OPT1.202	25.GR6 (Mix Designs) (February 6, 2023)
11 12		Use in all deck overlay projects. Must use with 6- 09.2.OPT1.2025.GB6, 6-
13		09.3(3)B.OPT1.2025.GR6, 6-
14		09.3(3)C.OPT1.2025.GR6, 6-
15		09.3(3)D.OPT1.2025.GR6, and 6-
16		09.3(3)E.OPT1.2025.GR6.
17 18 19	6-09.3(3)B.GR6 Co	ncrete Class M
20	6-09-3(3)B-INST1-GR6	(Section 6-09.3(3)B is revised to read)
21	0 0010(0)20	Must use once preceding any of the following:
22		7 3 7
23	6-09.3(3)B.OPT1.202	25.GR6 (Mix Designs)
24		(February 6, 2023)
25		Use in all FMC, LMC, and MMC deck overlay
26		projects. Must use with 6-09.2.OPT1.2025.GB6,
27		6-09.3(3)A.OPT1.2025.GR6, 6-
28 29		09.3(3)C.OPT1.2025.GR6, 6- 09.3(3)D.OPT1.2025.GR6, and 6-
30		09.3(3)E.OPT1.2025.GR6.
31		03.3(0)L.OF 11.2020.GR0.
32	6-09.3(3)C.GR6 Fly	Ash Modified Concrete
33	0-03.0(0/0.010	Asii Modifica Golicicia
34	6-09-3(3)C INST1-GR6	(Section 6-09.3(3)C is revised to read)
35	0 00.0(0)0	Must use once preceding any of the following:
36		7 3 7 3
37	6-09.3(3)C.OPT1.202	25.GR6 (Mix Designs)
38		(February 6, 2023)
39		Use in all deck overlay projects where FMC is
40		allowed. Must use with 6-09.2.OPT1.2025.GB6,
41		6-09.3(3)A.OPT1.2025.GR6, 6-
42		09.3(3)B.OPT1.2025.GR6, 6-
43		09.3(3)D.OPT1.2025.GR6, and 6-
44		09.3(3)E.OPT1.2025.GR6.
45 46	6-09.3(3)D.GR6 Mic	erosilica Modified Concrete
47	0-03.3(3)D.GR0 WIIC	Josinca Mounted Concrete
48	6_00_3/3\D_INST1_CR6	(Section 6-09.3(3)D is revised to read)
49	0 00.0(0)D.1140 1 1.010	Must use once preceding any of the following:
50		mast add office proceding any of the following.
51	6-09 3(3)D OPT1 20	25.GR6 (Mix Designs)
52	0 00.0(0)2.01 11.201	(February 6, 2023)
		(J -;)

1		Use in all deck overlay projects where MMC is
2		allowed. Must use with 6-09.2.OPT1.2025.GB6,
3		6-09.3(3)A.OPT1.2025.GR6, 6-
4		09.3(3)B.OPT1.2025.GR6, 6-
5		09.3(3)C.OPT1.2025.GR6, and 6-
6		09.3(3)E.OPT1.2025.GR6.
		03.3(3)E.OF11.2023.GR0.
7	0.00.0(0)=.000	
8	6-09.3(3)E.GR6	Latex Modified Concrete
9		
10	6-09.3(3)E.INST1.G	R6 (Section 6-09.3(3)E is revised to read)
11		Must use once preceding any of the following:
12		
13	6-09-3/3\F-OPT1	I .2025.GR6 (Mix Designs)
14	0 00.0(0)2.01 1	(February 6, 2023)
15		
		Use in all deck overlay projects where LMC is
16		allowed. Must use with 6-09.2.OPT1.2025.GB6,
17		6-09.3(3)A.OPT1.2025.GR6, 6-
18		09.3(3)B.OPT1.2025.GR6, 6-
19		09.3(3)C.OPT1.2025.GR6, and 6-
20		09.3(3)D.OPT1.2025.GR6.
21		
22	6-09.3(4).GR6 St	toring and Handling
23		
24	6-09 3(4) INST1 GR6	(Section 6-09.3(4) is supplemented with the
25	0-00.0(1).114011.0140	following)
		0,
26		Must use once preceding any of the following:
27		
28	6-09.3(4).OPT1.BSF	P.GB6 (Storing and Handling of Polyester
29		Concrete Materials)
30		(*****)
31		Use in projects where polyester concrete is required.
32		Include with 6-09.2.OPT8.BSP.GB6, 6-
33		09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-
34		09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6,
35		6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6,
		0-03.3(3). OF 10.D3F.UD0, 0-03.3(3).OF 13.D3F.UD0,
36		6-09.3(5).OPT10.BSP.GB6, 6-
37		09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6,
38		6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6,
39		6-09.3(10).OPT1.BSP.GB6, 6-
40		09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6,
41		6-09.3(13).OPT2.BSP.GB6, 6-
42		09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-
43		09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-
44		09.5.OPT9.BSP.GB6.
		03.0.01 13.001.000.
45	C 00 2(E) OD2	a sulfision of Caramata Courfess
46	6-09.3(5).GR6 S	carifying Concrete Surface
47		
48	6-09.3(5).INST1.GR6	(Section 6-09.3(5) is supplemented with the
49	. ,	following)
50		Must use once preceding any of the following:
51		ggg
52	6_00_3(5) ODT1 CR6	Rotary Mill, Hydro-Demolisher, or Shot-
53	0 00.0(0).01 11.00	
55		Blaster)

1 2 3 4 5	(January 7, 2002) Include in modified concrete overlay projects where all three types of scarifying machines are allowed. Include with either 6-09.3(3).OPT1.GB6, 6-09.3(3).OPT2.GB6, or 6-09.3(3).OPT3.GB6.
7 8 9 10 11 12 13	6-09.3(5).OPT2.GB6 (Hydro-Demolisher or Shot Blaster Only) (January 7, 2002) Include in modified concrete overlay projects where only hydro-demolisher or shot blaster scarifying machines are allowed. Include with either 6-09.3(3).OPT1.GB6, 6-09.3(3).OPT2.GB6, or 6-09.3(3).OPT3.GB6.
14 15 16 17 18	6-09.3(5).OPT7.GB6 (Hydro-Demolisher Only) (April 6, 2015) Use in modified concrete overlay projects where only hydro-demolisher scarifying machines are allowed.
20 21 22 23 24	6-09.3(5).OPT8.BSP.GB6 (Shot Blaster Only) (*******) Use in modified concrete overlay projects where only shot blaster scarifying machines are allowed. Required for all polyester concrete overlay projects.
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	6-09.3(5).OPT9.BSP.GB6 (Scarification Depth for Polyester-Concrete Overlay) (********) Use in projects where polyester concrete is required. Include with 6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.5.OPT3.BSP.GB6, 6-09.5.OPT3.BSP.GB6, 6-09.5.OPT3.BSP.GB6, 6-09.5.OPT3.BSP.GB6, 6-09.5.OPT3.BSP.GB6, 6-09.5.OPT3.BSP.GB6, and 6-09.5.OPT3.BSP.GB6.
44 45 46 47 48 49 50	6-09.3(5).OPT10.BSP.GB6 (Epoxy-coated St. Reinf. Bars for Bridge Deck Repair) (*******) Use in projects where epoxy-coated steel reinforcing bars are required for bridge deck repair. Required for all polyester concrete overlay projects.
51 52 53	6-09.3(6).GR6 Further Deck Preparation

1	6-09.3(6)B.GR6	Deck Repair Preparation
2	/->	
3	6-09.3(6)B.INST1.GF	R6 (Section 6-09.3(6)B is supplemented with the
4		following)
5		Must use once preceding any of the following:
6 7	6 00 2/6\P ODT1	CP6 (Forms For Full Donth Dock Popair)
8	6-09.3(6)B.OPT1	. GB6 (Forms For Full Depth Deck Repair) (April 6, 2015)
9		Use in modified concrete overlay projects where
10		the anticipated depth required for bridge deck
10		repair following scarification of concrete surface
12		may be full depth of the bridge deck. Include with
13		6-09.5.OPT11.GB6.
14		0-03.3.0F111.0D0.
15	6 00 3(6)C GP6	Placing Deck Repair Concrete
	0-03.3(0)C.GR0	Flacing Deck Repair Concrete
16 17	6 00 2/6\C INIST4 CE	26 (Cumplemental Instructions)
18	0-09.3(0)6.1113++.G F	R6 (Supplemental Instructions)
		Must use once preceding any of the following:
19	6 00 3/6\C ODT3	PCD CDG (Dissing Databing Congrete For Delivertor
20	0-U9.3(0)U.UP12	.BSP.GB6 (Placing Patching Concrete For Polyester
21		Concrete Overlay) (*****)
22		
23		Use in projects where polyester concrete is
24		required. Include with 6-09.2.OPT8.BSP.GB6, 6-
25		09.3(1).OPT1.BSP.GB6, 6- 09.3(2).OPT1.BSP.GB6, 6-
26 27		09.3(3).OPT9.BSP.GB6, 6-
28		09.3(3).OPT10.BSP.GB6, 6-
29		09.3(4).OPT1.BSP.GB6, 6-
30		09.3(5).OPT8.BSP.GB6, 6-
31		09.3(5).OPT9.BSP.GB6, 6-
32		09.3(5).OPT10.BSP.GB6, 6-
33		09.3(8).OPT3.BSP.GB6, 6-
34		09.3(8).OPT4.BSP.GB6, 6-
35		09.3(9).OPT2.BSP.GB6, 6-
36		09.3(10).OPT1.BSP.GB6, 6-
37		09.3(11).OPT2.BSP.GB6, 6-
38		09.3(12).OPT2.BSP.GB6, 6-
39		09.3(13).OPT2.BSP.GB6, 6-
40		09.3(14).OPT1.BSP.GB6, 6-
41		09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-
42		09.5.OPT8.BSP.GB6, and 6-
43		09.5.OPT9.BSP.GB6.
44		0010101 10120110201
45	6-09.3(8).GR6 Qu	uality Assurance
46	0-00.0(0).ON0	anty Assurance
47	6-00 3/8) INST1 CR6	(Section 6-09.3(8) is supplemented with the
48		following)
49		Must use once preceding any of the following:
50		wide december proceeding any of the following.
51	6 00 3/9) ODT3 DCD	CR6 (Quality Assurance For Polycetor
52	v-v3.3(0).UF 13.D3P.	GB6 (Quality Assurance For Polyester Concrete Overlay)
53		(******)
00		()

1 Use in projects where polyester concrete is required. 2 Include with 6-09.2.OPT8.BSP.GB6, 3 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-4 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 5 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 7 6-09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-8 9 09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 10 6-09.3(12).OPT2.BSP.GB6, 11 09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 12 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 13 09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6. 14 15 6-09.3(8).OPT4.BSP.GB6 (Polyester Concrete Trial Overlay) (*****) 16 17 Use in projects where polyester concrete is required. 18 with 6-09.2.OPT8.BSP.GB6, 19 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-20 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 21 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 22 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 23 6-09.3(6)C.OPT2.BSP.GB6, 24 09.3(8).OPT3.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-25 09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 26 6-09.3(12).OPT2.BSP.GB6, 27 09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 28 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-29 09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6. 30 31 6-09.3(9).GR6 Mixing Concrete for Concrete Overlay 32 33 6-09.3(9).INST1.GR6 (Section 6-09.3(9) is supplemented with the 34 following) 35 Must use once preceding any of the following: 36 37 6-09.3(9).OPT2.BSP.GB6 (Mixing Polyester Concrete) 38 39 Use in projects where polyester concrete is required. 40 Include with 6-09.2.OPT8.BSP.GB6, 41 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-42 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 43 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 44 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 45 6-09.3(6)C.OPT2.BSP.GB6, 46 09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-47 09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 48 6-09.3(12).OPT2.BSP.GB6, 09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 49 50 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-51 09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6. 52 53 **Overlay Profile and Screed Rails** 6-09.3(10).GR6

1 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-2 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 3 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 4 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 5 6-09.3(6)C.OPT2.BSP.GB6. 6 09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-7 09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 8 6-09.3(11).OPT2.BSP.GB6, 9 09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 10 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-11 09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6. 12 13 6-09.3(13).GR6 Curing Concrete Overlay 14 15 6-09.3(13).INST1.GR6 (Section 6-09.3(13) is supplemented with the 16 following) 17 Must use once preceding any of the following: 18 19 6-09.3(13).OPT2.BSP.GB6 (Curing Polyester Concrete) 20 21 Use in projects where polyester concrete is required. 22 Include with 6-09.2.OPT8.BSP.GB6, 23 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-24 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 25 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 26 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 27 6-09.3(6)C.OPT2.BSP.GB6, 28 09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-29 09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 30 6-09.3(11).OPT2.BSP.GB6, 31 09.3(12).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 32 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-33 09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6. 34 35 6-09.3(14).GR6 Checking For Bond 36 37 6-09.3(14).INST1.GR6 (Section 6-09.3(14) is supplemented with the following) 38 Must use once preceding any of the following: 39 40 6-09.3(14).OPT1.BSP.GB6 (Checking Polyester Concrete For Bond) (*****) 41 42 Use in projects where polyester concrete is required. 43 - with -6-09.2.OPT8.BSP.GB6. 44 09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-45 09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 46 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 47 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 48 6-09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6. 6-49 50 09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 51 6-09.3(11).OPT2.BSP.GB6, 52 09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6,

1	6-09.5.OPT8.BSP.GB6	(Force Account Grinding Polyester	
2	0 00.0.01 10.001.000	Conc. Overlay)	
3		(*****)	
_		,	. :-
4		Use in projects where polyester concrete	
5		required. Include with 6-09.2.OPT8.BSP.GB6	, 6-
6		09.3(1).OPT1.BSP.GB6,	-6-
7		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6,	6-
8		09.3(3).OPT9.BSP.GB6,	6-
9		09.3(3).OPT10.BSP.GB6,	6-
10		09.3(4).OPT1.BSP.GB6,	-6-
11		09.3(5).OPT8.BSP.GB6,	-6-
12		09.3(5).OPT9.BSP.GB6,	-6-
13		09.3(5).OPT10.BSP.GB6,	
14		09.3(6)C.OPT2.BSP.GB6,	-6-
15		09.3(8).OPT3.BSP.GB6,	-6-
16		09.3(8).OPT4.BSP.GB6,	6_
17		09.3(9).OPT2.BSP.GB6,	-6-
18		09.3(10).OPT1.BSP.GB6,	6-
19		09.3(11).0PT2.BSP.GB6,	
20		09.3(12).OPT2.BSP.GB6,	
		09.3(12).OPT2.DSP.GD0,	-0-
21		09.3(13).OPT2.BSP.GB6,	-0-
22		09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.G	
23		6-09.5.OPT7.BSP.GB6 and	6-
24		09.5.OPT9.BSP.GB6.	
25			
26	6-09.5.OPT9.BSP.GB6	(Polyester Concrete Overlay)	
27		(*****)	
28		Use in projects where polyester concrete	is
29		required. Include with 6-09.2.OPT8.BSP.GB6	
30			, 0 -
			-
31		09 [.] 3(1).OPT1.BSP.GB6,	6-
31		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6,	6- 6-
32		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6,	6- 6- 6-
32 33		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6,	6- 6- 6- 6-
32 33 34		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6,	6- 6- 6- 6- 6-
32 33 34 35		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6,	6- 6- 6- 6- 6-
32 33 34 35 36		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6,	6- 6- 6- 6- 6- 6-
32 33 34 35 36 37		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6,	6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT4.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40 41		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40 41 42		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT4.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40 41 42 43		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40 41 42 43 44		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6, 09.3(10).OPT1.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-
32 33 34 35 36 37 38 39 40 41 42 43		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48		09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	6-09.5.OPT11 GB6	09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT1.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	6-09.5.OPT11.GB6	09.3(1).OPT1.BSP.GB6, 09.3(2).OPT1.BSP.GB6, 09.3(3).OPT9.BSP.GB6, 09.3(3).OPT10.BSP.GB6, 09.3(4).OPT1.BSP.GB6, 09.3(5).OPT8.BSP.GB6, 09.3(5).OPT9.BSP.GB6, 09.3(5).OPT10.BSP.GB6, 09.3(6)C.OPT2.BSP.GB6, 09.3(8).OPT3.BSP.GB6, 09.3(8).OPT4.BSP.GB6, 09.3(9).OPT2.BSP.GB6, 09.3(10).OPT1.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT2.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6, 09.3(11).OPT1.BSP.GB6,	6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6

1		Must use preceding the following:
2	6-11.3.OPT1.2025.G	R6 (Reinforced Concrete Retaining Walls)
4		(November 20, 2023)
5 6		Use in projects with reinforced concrete retaining walls.
7	6-11.4.GR6 Mea	<u>asurement</u>
8 9	6-11.4.INST1.GR6	(Section 6-11.4 is replaced with the following:)
10	-	Must use preceding the following:
11 12	6 11 4 OPT1 2025 C	R6 (Reinforced Concrete Retaining Walls)
13	<u>0-11.4.01 11.2023.0</u>	(November 20, 2023)
14		Use in projects with reinforced concrete retaining walls.
15 16	6-11.5.GR6 Pay	<u>vment</u>
17	6 44 E INST4 CD6	(Continue C 44 5 in more located with the afallowing my)
18 19	6-11.5.INST1.GR6	(Section 6-11.5 is replaced with the following:) Must use preceding the following:
20		
21 22	<u>6-11.5.OPT1.2025.G</u>	R6 (Reinforced Concrete Retaining Walls) (November 20, 2023)
23		Use in projects with reinforced concrete retaining walls.
24		
25 26	6-12.GR6 Noise	Barrier Walls
27 28	6-12.2.GR6 Mat	terials
29	6-12.2.INST1.GR6	(Section 6-12.2 is supplemented with the following)
30 31		Must use once preceding any of the following:
32	6-12.2.OPT1.GB6	(Precast Concrete Noise Barrier Walls)
33 34		(September 8, 2020) Use in projects with noise barrier walls of precast concrete
35		panels. Include with 6-12.3(6).OPT1.FB6 and all other
36		applicable noise barrier wall GSP's.
37 38	6-12.2.OPT2.FB6	(Masonry Noise Barrier Walls)
39	0-12.2.01 12.1 00	(September 8, 2020)
40		Use in projects with noise barrier walls of masonry block
41 42		panels. The fill-in describes the surface texture and color requirements for the field, cap, accent, and other CMU
43		blocks used for the masonry wall. Include with 6-
44 45		12.3(7).OPT1.GB6 and all other applicable noise barrier
45 46		wall GSP's. (1 fill-in)
47		,
48 49	6-12.3.GR6 Coi	nstruction Requirements
50	6-12.3(1).GR6	Submittals
51 52	6-12.3(1).INST1.GR6	(Section 6-12.3(1) is supplemented with the
53	0 12.0(1).11 1 011.0110	following)

1		Mu	ist use once preceding any of the following:
2 3 4 5 6 7 8 9	6-12.3(1).OPT1.	GB6	(Noise Barrier Wall Existing Groundline Field Survey) (August 3, 2015) Use in noise barrier wall projects where the Contractor is required to perform and submit a field survey of the existing noise barrier wall alignment. Include with 1-05.4.OPT1.GR1, 6-12.5.OPT1.GB6, and all other applicable noise barrier wall GSP's.
11 12 13	6-12.3(6).GR6	Preca	ast Concrete Panel Fabrication and Erection
13 14 15 16 17	6-12.3(6).INST1.GR	foll	ection 6-12.3(6) is supplemented with the owing) ast use once preceding any of the following:
18 19 20 21 22 23 24 25 26 27	6-12.3(6).OPT1.	FB6	(Precast Concrete Panel Surface Finish Requirements) (April 5, 2004) Use in projects with noise barrier walls of precast concrete panels. The fill-ins specify the type or name of the formed finish on the traffic side and on the residential side of the precast concrete panels. Include with 6-12.2.OPT1.GB6 and all other applicable noise barrier wall GSP's. (2 fill-ins)
28 29	6-12.3(7).GR6	Maso	nry Wall Construction
30 31 32 33	6-12.3(7).INST1.GR	foll	ection 6-12.3(7) is supplemented with the owing) ust use once preceding any of the following:
34 35 36 37 38 39 40	6-12.3(7).OPT1.	GB6	(Masonry Noise Barrier Wall Construction Requirements) (August 3, 2015) Use in projects with noise barrier walls of masonry block panels. Include with 6-12.2.OPT2.FB6 and all other applicable noise barrier wall GSP's.
41 42	6-12.5.GR6 Pa	yment	
43 44 45 46	6-12.5.INST1.GR6		ion 6-12.5 is supplemented with the following) use once preceding any of the following:
47 48 49 50 51 52	6-12.5.OPT1.GB6	Šu (Ap Us	ayment for Noise Barrier Wall Groundline Field rvey) oril 5, 2004) e in noise barrier wall projects where the Contractor is quired to perform and submit a field survey of the existing ise barrier wall alignment. Include with 1-

1 2 3			05.4.OPT1.GR applicable not				and	all	other
3 4 5	6-13.GR6	Structural	Earth Walls						
6	6-13.2.GR6	Mater	ials						
7 8 9 10 11 12 13 14 15 6 17 18 19 20 1 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48	6-13.2.INST	,	Section 6-13.2 is lust use once pro						
	6-13.2.OPT1.GB6		(Welded Wire Faced Structural Earth Wall Materials) (February 6, 2023) Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with 6-13.3.OPT1.GB6 and 6-13.3(2).OPT1.FB6.						
	6-13.2.OF	PT2.GB6	(Precast Concr Structural Eart (February 6, 20 Use in projects concrete panel Include with 6 13.3(4).OPT1.0	th Wall Ma 023) s with str l faced w 6-13.3.0P	aterials) ructural earth alls are an a	accepta	able a	alterr	native.
	6-13.2	2.OPT2(A).GB	(August 3, 2) Use in project following control f	2015) ects with sonditions of the precase of the conditions of the	ing Wall Systematric structural ear apply: st concrete parth walls are ole alternative at retaining in areas we above the weight of the control of the contr	panel in the concretion of the	faced fete b ed in system he w able. B.OPT A).GE	stru lock the p n sh all v 2.G	en the uctural faced project all be will be B6, 6-6-
	6-13.2.OF	PT3.GB6	(Concrete Bloc Materials) (January 2, 20 Use in projects block faced wal 6-13.3.OPT3.G 13.3(5).OPT2.0	18) s with stru lls are an 6B6, 6	uctural earth	walls liternat	where ive. In		le with
49 50	6-13.3.GR6	Cons	ruction Require	ements					
51 52 53	6-13.3.INST	,	Section 6-13.3 is lust use once pro						

1 2	6-13.3.OPT1.GB6	(Welded Wire Faced Structural Earth Wall)
3 4 5 6 7		(April 4, 2011) Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with 6-13.2.OPT1.GB6 and 6-13.3(2).OPT1.FB6.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	6-13.3.OPT2.GB6	(Precast Concrete Panel Faced Structural Earth Wall) (January 10, 2022) Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with 6-13.2.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(4).OPT1.GB6.
	6-13.3.OPT2(A).GB6	(Lock + Load Retaining Wall System Walls) (August 3, 2015) Use in projects with structural earth walls only when the following conditions apply: 1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives. 2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table. Include with 6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, 6-13.3(4).OPT1.GB6, and 6-13.3(7).OPT1.GB6.
31 32 33 34 35 36 37 38	6-13.3.OPT3.GB6	(Concrete Block Faced Structural Earth Wall) (January 2, 2018) Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with 6-13.2.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6.
39 40	6-13.3(2).GR6 St	ubmittals
41 42 43 44	6-13.3(2).INST1.GR6	(Section 6-13.3(2) is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49 50 51 52	6-13.3(2).OPT1.FB6	(Structural Earth Wall Geotechnical Design Parameters) (January 3, 2011) Use in projects with structural earth walls. The first fill-in identifies the wall by name or number, and the remaining fill-ins specify the values for various geotechnical design parameters as specified in the geotechnical report prepared for the project. The table

1 2 3 4		differ	be repeated as necessary for additional walls with ing geotechnical design parameters.
5 6	6-13.3(4).GR6	Precast Co Fabricat	oncrete Facing Panel and Concrete Block tion
7 8 9 10	6-13.3(4).INST1.GR6	following	6-13.3(4) is supplemented with the a once preceding any of the following:
11 12 13 14 15 16 17 18 19 20	6-13.3(4).OPT1.G	Preca (April Use i conc alterr 13.3.	cific Fabrication Requirements for ast Concrete Panel Faced Structural Earth Walls) I 3, 2017) in projects with structural earth walls where precast rete panel faced walls are an acceptable native. Include with 6-13.2.OPT2.GB6, 6-OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-(5).OPT1.GB6.
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	6-13.3(4).OPT	1(A).GB6	(Lock + Load Retaining Wall System Walls) (August 3, 2015) Use in projects with structural earth walls only when the following conditions apply: 1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives. 2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table. Include with 6-13.2.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(7).OPT1.GB6.
38 39	6-13.3(5).GR6	Precast Co Block Erect	oncrete Facing Panel and Concrete ion
40 41 42	6-13.3(5).INST1.GR6	following	
43 44 45 46 47 48 49 50 51 52	6-13.3(5).OPT2.G	B6 (Spe Preca Block (April Use concalterr 13.3.	e once preceding any of the following: cific Erection Requirements for ast Concrete (Faced Structural Earth Walls) 12, 2012) in projects with structural earth walls where rete block faced walls are an acceptable native. Include with 6-13.2.OPT3.GB6 6-OPT3.GB6, and 6-13.3(2).OPT1.FB6.
53	6-13.3(7).GR6	Backfill	

1 2 3 4	6-13.3(7).INST1.GR6	(Section 6-13.3(7) is supplemented with the following) Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	6-13	.3(7).OPT1.GE	(Specific Backfill Requirements for Precast Concrete Panel Faced Structural Earth Walls) (August 3, 2015) Use in projects with structural earth walls only when the following conditions apply: 1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives. 2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table. Include with 6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3(4).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(4).OPT1(A).GB6
22 23 24	6-14.GR6	Geosyn	thetic Retaining Walls
25 26	6-14.2.GR6	Mate	rials
27 28 29 30	6-14.2(9-33	((Geosynthetic Properties For Retaining Walls and Reinforced Slopes (Section 9-33.2(2) is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35 36 37 38 39 40 41	6-14.2(9	1-33.2(2)).OPT	1.FB6 (Geosynthetic Properties For Temporary Geosynthetic Retaining Walls) (August 7, 2006) Use in projects with temporary geosynthetic retaining walls. The first fill-in identifies the wall location. The second fill-in specifies the reinforcement layer vertical spacing. The third fill-in specifies the dimension from the top of wall to the reinforcement layer. The fourth fill-in specifies the geosynthetic tensile strength. (4 fill-ins)
42 43 44	6-15.GR6	Soil Nail V	Valls
45 46	6-15.2.GR6	Mate	rials
47 48 49	6-15.2.INS		(Section 6-15.2 is supplemented with the following) Must use once preceding any of the following:
50 51	6-15.2.C	PT1.GB6	(Permanent Soil Nail Materials and Components) (August 3, 2015)

1 2 3		18. <u>SA</u>	n projects with soil nail retaining <mark>\1.2025.GR62.OPT1.GB6</mark> B)A.OPT1.FB6.	g walls. Include with 6- and 6-
4 5	6-15.3.GR6	Construction	n Requirements	
6 7 8	6-15.3(8).GR	Soil Nail	I Testing And Acceptance	
9 10	6-15.3(8)A	.GR6 Verific	cation Testing	
11 12	6-15.3(fo	Section 6-15.3(8)A is supplement llowing)	
13 14 15 16 17 18 19	6-1	мі 5.3(8)А.ОРТ1.FB6	ust use once preceding any of the (Soil Nail Verification Test Lo (April 5, 2004) Use in projects with soil nate of the soil locations and the number	cations) ail retaining walls. The nail verification test
20 21 22 23			required at each location 15.2.OPT1.GB6 18. <u>SA1.2025.GR6</u> 2.OPT1.(3 fill-ins)	on. Include with 6- and 6-
24 25	<u>6-16.GR6</u>	Soldier Pile and S	Soldier Pile Tieback Walls	
26 27 28 29 30 31 32	6-16.3.GR6 6-16.3(3).GR(6-16.3(3).II	Shaft Ex NST1.GR6 (The s	n Requirements ccavation second sentence in the first par 3(3) is revised to read:) use once preceding the followir	
33 34 35 36	<u>6-17.3(</u>		(Shaft Excavation Diameter) lovember 20, 2023) se in all projects with soldier pil	e walls.
37 38	6-17.GR6	Permanent Groun	id Anchors	
39 40	6-17.1.GR6	Description		
41 42 43	6-17.1.INST1		6-17.1 is supplemented with the once preceding any of the foll	
44 45 46 47 48 49 50	6-17.1.OP ⁻	(Janu Use ir with	Bolts and Rock Dowels) ary 7, 2013) n projects with rock bolts and/o 6-17.2.OPT2.GB6, 6-17.4.OPT	7.3.OPT1.GB6, 6-
51		17.5.0	OPT1.GB6.	

1 2 3	6-17.2.INST1.GR6	(Section 6-17.2 is supplemented with the following) Must use once preceding any of the following:
4 5 6 7	6-17.2.OPT1.GB6	(Permanent Ground Anchor Materials and Components) (November 2, 2022) Use in projects with walls using permanent ground anchors.
8 9 10 11 12 13 14 15	6-17.2.OPT2.GB6	(Rock Bolt and Rock Dowel Materials) (January 7, 2013) Use in projects with rock bolts and/or rock dowels. Include with 6-17.1.OPT1.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.
16	6-17.3.GR6	Construction Requirements
17 18 19 20	6-17.3.INST1.GR6	(Section 6-17.3 is supplemented with the following) Must use once preceding any of the following:
21 22 23 24 25 26 27 28	6-17.3.OPT1.GB6	(Rock Bolt and Rock Dowel Construction Requirements) (September 8, 2020) Use in projects with rock bolts and/or rock dowels. Include with 6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.
29 30	6-17.3(8).GR6	Testing And Stressing
31 32 33	6-17.3(8).INST1.0	GR6 (Section 6-17.3(8) is supplemented with the following) Must use once preceding any of the following:
34 35 36 37 38 39 40	6-17.3(8).OPT	1.GB6 Rock Bolt and Rock Dowel Testing (January 7, 2013) Use in projects with rock bolts and/or rock dowels. Include with 6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.
41 42	6-17.3(8)A.GR6	Verification Testing
43 44 45 46	6-17.3(8)A.INS	ST1.GR6 (Section 6-17.3(8)A is supplemented with the following) Must use once preceding any of the following:
47 48 49 50 51 52 53	6-17.3(8)A	OPT1.GB6 (August 3, 2015) Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors as recommended by the WSDOT Materials Laboratory Geotechnical Services Division. Include

1 2 3 4 5 6	6-18.3	. OPT1.GB6	(Shotcrete Facing For Rock/Soil Slope Stabilization) (August 3, 2015) Use in projects with shotcrete facing for rock/soil slope stabilization. Include with 6-18.2.OPT1.GB6, 6-18.2.OPT1.GB6 and 6-18.5.OPT1.GB6.
7 8 9	6-18.4.GR6	Mea	asurement
10 11 12	6-18.4.INS	ST1.GR6	(Section 6-18.4 is supplemented with the following) Must use once preceding any of the following:
12 13 14 15 16 17 18	6-18.4.(OPT1.GB6	(Shotcrete Facing For Rock/Soil Slope Stabilization) (April 5, 2010) Use in projects with shotcrete facing for rock/soil slope stabilization. Include with 6-18.2.OPT1.GB6, 6-18.2.OPT2.GB6, 6-18.2.OPT1.GB6 and 6-18.5.OPT1.GB6.
20 21	6-18.5.GR6	Pay	yment
22 23 24	6-18.5.INS	ST1.GR6	(Section 6-18.5 is supplemented with the following) Must use once preceding any of the following:
25 26 27 28 29 30 31	6-18.5.(OPT1.GB6	(Shotcrete Facing For Rock/Soil Slope Stabilization) (April 5, 2010) Use in projects with shotcrete facing for rock/soil slope stabilization. Include with 6-18.2.OPT1.GB6, 6-18.2.OPT2.GB6, 6-18.2.OPT3.GB6, 6-18.3.OPT1.GB6 and 6-18.4.OPT1.GB6.
32 33	6-19.GR6	Shafts	
34 35	6-19.2.GR6	Mat	terials
36 37 38 39	6-19	9.2(9-36.2(2)).	.GR6 Synthetic Slurry (Section 9-36.2(2) is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45 46 47 48 49		6-19.2(9-36.2	(2)-)).OPT1.GB6 (Fresh Water for Synthetic Slurry) (January 2, 2012) Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with 6-19.4.OPT3.GB6 and 6-19.5.OPT2.GB6.
50 51 52 53	6-19.2(9-36.4).GR6	(Access Tubes and Caps) (The first paragraph of Section 9-36.4 is revised to read) Must use once preceding any of the following:

1 2 3 4	6-19.2(9-3	6.4).OPT1.G	GR6 (Shaft Related Materials) (October 3, 2022) Use in projects that contain shaft construction and crosshole sonic log testing is required.
5 6 7	6-19.3.GR6	Construc	ction Requirements
8 9	6-19.3(3).GR6	Shaf	ft Excavation
10 11 12	6-19.3(3).INS		Section 6-19.3(3) is supplemented with the following) lust use once preceding any of the following:
13 14 15 16 17 18 19 20	6-19.3(3).	OPT1.GB6	(Variations In Bearing Layer Elevations) (January 2, 2012) Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with 6-19.3(5).OPT1.GB6.
21 22	6-19.3(3)B.GF	R6 Te	emporary and Permanent Shaft Casing
23 24 25 26	6-19.3(3)E	3.INST1.GR6	(Section 6-19.3(3)B is supplemented with the following) Must use once preceding any of the following:
27 28 29 30 31 32 33 34	6-19.3	(3)B.OPT2.G	(Rotating/Oscillating Method Required) (January 2, 2012) Use in projects where the geotechnical report for the project recommends, and the ADSC/WSDOT Shaft Task Force concurs, that site conditions dictate the use of the rotating/oscillating method for shaft excavation.
35	6-19.3(3)B4.G	R6 Te	emporary Telescoping Shaft Casing
36 37 38 39 40	6-19.3(3)E	34.INST1.GR	6 (The second paragraph of Section 6-19.3(3)B4 is revised to read as follows) Must use once preceding any of the following:
41 42 43 44 45 46 47	6-19.3	(3)B4.OPT1.0	GB6 (Temp. Telescoping Casing Not Allowed At End Piers) (January 2, 2012) Use in projects where design conditions exist where the option of temporary telescoping casing for shafts at bridge end piers is not appropriate for the overall design behavior of the overall bridge.
48 49	6-19.3(3)I.GR	6 Re	equired Use of Slurry in Shaft Excavation
50 51 52 53	6-19.3(3)1.	INST1.GR6	(Section 6-19.3(3)I is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9	6-19.3(3)I.OPT	Γ1.GB6	(Exception For Casing Sealed Against Influx Of Water Into Excavation) (August 3, 2015) Use in projects where the geotechnical conditions, as documented in the geotechnical report for the project, allow the possibility of performing shaft excavation in a cased hole beneath the water table level without the need for slurry to ensure the stability of the bottom of the excavation.
11 12	6-19.3(4).GR6	Slurry Ins	tallation Requirements
13 14	6-19.3(4)A.GR6	Slurry	Technical Assistance
15 16 17 18	6-19.3(4)A.INST1.	with	ction 6-19.3(4)A is supplemented the following) st use once preceding any of the following:
19 20 21 22 23 24 25 26 27 28 29	6-19.3(4)A.OP	T1.FB6	(Slurry Manufacturer's Representative's Presence Required At Specific Shaft Sites) (January 2, 2012) Use in projects where the geotechnical conditions vary enough from one shaft site to another to affect how the slurry is used at each shaft site. The fill-in identifies the specific shaft locations where the presence of the slurry manufacturer's representative is required. (1 fill-in)
30	6-19.3(5).GR6	Assem	bly and Placement of Reinforcing Steel
31 32 33 34	6-19.3(5).INST1.G		ction 6-19.3(5) is supplemented with the following) st use once preceding any of the following:
35 36 37 38 39 40 41 42	6-19.3(5).OPT	1.GB6	(Variations In Bearing Layer Elevations) (August 1, 2016) Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with 6-19.3(3).OPT1.GB6.
42 43 44 45	\ /	Contracto Testing	or Furnished Accessories for Nondestructive QA
46 47	6-19.3(6)E.GR6	Therma	al Wire and Thermal Access Points (TAPs)
48 49 50	6-19.3(6)E.INST1.	the	ction 6-19.3(6)E is supplemented with following) st use once preceding any of the following:
51 52 53	6-19.3(6)E.OP	T1.GB6	(Thermal Wire and Associated Couplers) (January 2, 2018)

1 2 3				Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not	
4 5				include other shafts such as sign bridges, cantilever sign structures, signal standards, etc.	
6 7 8	6-19.3(7).GF	R 6	Placing C	oncrete	
9 10	6-19.3(7)	D.GR6	Require	ements for Placing Concrete Underwater	
11 12 13	6-19.3	3(7)D.INST	the	ction 6-19.3(7)D is supplemented with following) st use once preceding any of the following:	
14 15 16 17 18 19 20 21	6-	19.3(7)D.O	PT1.GB6	(Tremie Allowed As An Alternative To Concrete Pump) (January 2, 2012) Use in projects where the construction site is at a remote location where it may be difficult to make arrangements to have a concrete pump at the site.	
22 23	6-19.4.GR6	Me	asurement		
24 25 26	6-19.4.INST	2.GR6		-19.4 is supplemented with the following) once preceding any of the following:	
27 28 29 30 31 32 33 34	6-19.4.OF	6-19.4.OPT3.GB6 (Fresh Water For Synthetic Slurry) (January 2, 2012) Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with 6-19.2(9-36.2(2)).OPT1.GB6 and 6-19.5.OPT2.GB6.			
35 36 37	6-19.5.GR6	6-19.5.GR6 Payment			
38 39 40	6-19.5.INST1.GR6		(Section 6-19.5 is supplemented with the following) Must use once preceding any of the following:		
41 42 43 44 45 46 47 48 49	6-19.5.OF	PT2.GB6	(Januar Use in the geo for synt Agency only.	Water for Synthetic Slurry) ry 2, 2012) projects with shafts constructed in salt water when technical report specifies that the use of fresh water thetic slurry is feasible and when the Contracting restricts the water for synthetic slurry to fresh water Include with 6-19.2(9-36.2(2)).OPT1.GB6 and 6-PT3.GB6.	
50 51	6-20.GR6	Buried S	Structures		
52 53	6-20.1.GR6	De	scription		

1 2	6-20.1(1).GR6	Definitions		
3 4 5 6	6-20.1(1).INST1	.GR6 (The list of types of buried structures in Section 6-20.1(1) is supplemented with the following:) Must use once preceding any of the following:		
7 8 9 10 11 12	6-20.1(1).Ol	Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with 6-20.2.OPT1.GB6, 6-20.3.OPT1.GB6, and 6-20.5.OPT1.GB6.		
13 14	6-20.2.GR6	Materials		
15 16 17 18 19 20 21 22 23 24 25	6-20.2.INST1.GR6	(Section 6-20.2 is supplemented with the following) Must use once preceding any of the following:		
	6-20.2.OPT1.G	(January 10, 2022) Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with 6-20.1(1).OPT1.GB6, 6-20.3.OPT1.GB6, and 6-20.5.OPT1.GB6.		
	6-20.3.GR6	nstruction Requirements		
26 27 28	6-20.3.INST1.GR6	(Section 6-20.3 is supplemented with the following) Must use once preceding any of the following:		
29 30 31 32 33	6-20.3.OPT1.G	(January 10, 2022) Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with 6-20.1(1).OPT1.GB6, 6-20.2.OPT1.GB6, and 6-20.5.OPT1.GB6.		
34 35	6-20.3(1).GR6	Geotechnical Considerations		
36 37 38	6-20.3(1).INST1	.GR6 (Section 6-20.3(1) is supplemented with the following:) Must use once preceding any of the following:		
39 40 41 42	<u>6-20.3(1).Ol</u>	PT1.2025.GR6 (November 20, 2023) Use in all projects with buried structures.		
43 44	6-20.5.GR6	Payment		
45 46	6-20.5.INST1.GR6	(Section 6-20.5 is supplemented with the following) Must use once preceding any of the following:		
47 48 49 50 51 52	6-20.5.OPT1.G	Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with 6-20.1(1).OPT1.GB6, 6-20.2.OPT1.GB6, and 6-20.3.OPT1.GB6.		

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1 6-02.GR6 **Concrete Structures** 2 3 4 6-02.2.GR6 5 **Materials** 6 7 6-02.2.INST1.GR6 8 Section 6-02.2 is supplemented with the following: 9 10 6-02.2.OPT1.GR6 (April 1, 2013) 11 Resin Bonded Anchors 12 13 The resin bonded anchor system shall include the nut, washer, and threaded anchor rod 14 which is installed into hardened concrete with a resin bonding material. 15 16 Resin bonding material used in overhead and horizontal application shall be specifically 17 recommended by the resin manufacturer for those applications. 18 19 Resin bonding material used in submerged liquid environment shall be specifically 20 recommended by the resin manufacturer for this application. 21 22 The resin bonded anchor system shall conform to the following requirements: 23 24 Threaded Anchor Rod and Nuts 25 Threaded anchor rods shall conform to ASTM A 193 Grade B7 or ASTM A 449. 26 except as otherwise noted, and be fully threaded. Threaded anchor rods for 27 stainless steel resin bonded anchor systems shall conform to ASTM F 593 and 28 shall be Type 304 unless otherwise specified. 29 30 Nuts shall conform to ASTM A 563. Grade DH, except as otherwise noted. Nuts 31 for stainless steel resin bonded anchor systems shall conform to ASTM F 594 32 and shall be Type 304 unless otherwise specified. 33 34 Washers shall conform to ASTM F 436 and shall meet the same requirements 35 as the supplied anchor rod, except as otherwise noted. Washers for stainless 36 steel resin bonded anchor systems shall conform to ASTM A 240 and the 37 geometric requirements of ASME B18.21.1 and shall be Type 304 Stainless 38 Steel unless otherwise specified. 39 40 Nuts and threaded anchor rods, except those manufactured of stainless steel, 41 shall be galvanized in accordance with AASHTO M 232. Galvanized threaded 42 anchor rods shall be tested for embrittlement after galvanizing, in accordance 43 with Section 9-29.6(5). 44 45 Threaded anchor rods used with resin capsules shall have the tip of the rod 46 chiseled in accordance with the resin capsule manufacturer's recommendations. 47 Galvanized threaded rods shall have the tip chiseled prior to galvanizing. 48 49 Resin Bonding Material 50 Resin bonding material shall be a two-component epoxy resin conforming to

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November 20, 2023 Page 1

Type IV ASTM C 881 or be one of the following:

a. Vinyl ester resin.

Polyester resin.

c. Methacrylate resin.

3. Ultimate Anchor Tensile Capacity

Resin bonded anchors shall be tested in accordance with ASTM E 488 to have the following minimum ultimate tensile load capacity when installed in concrete having a maximum compressive strength of 6000 pounds per square inch (psi) at the embedment specified below:

Anchor Diameter (inch)	Tensile Capacity (lbs.)	Embedment (inch)
3/8	7,800	3-3/8
1/2	12,400	4-1/2
5/8	19,000	5-5/8
3/4	27,200	6-3/4
7/8	32,000	7-7/8
4	41,000	9
1-1/4	70,000	11-1/4

 The Contractor shall submit items 1 and 2 below to the Engineer for all resin bonded anchor systems. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

For resin bonded anchor systems that are installed in a submerged liquid environment the Contractor shall submit items 1, 2, and 4 below. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

1 The resin manufacturer's written installation procedure for the anchors.

2. The manufacturer's certificate of compliance for the threaded anchor rod certifying that the anchor rod meets these requirements.

 Test results by an independent laboratory certifying that the threaded anchor rod system meets the ultimate anchor tensile load capacity specified in the above table. The tests shall be performed in accordance with ASTM E 488.

 4. For threaded anchors intended to be installed in submerged liquid environments the Contractor shall submit tests performed by an independent laboratory within the past 24 months which certifies that anchors installed in a submerged environment meet the strength requirements specified in the above table.

6-02.OPT2.GB6

(September 8, 2020)

40 Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels
41 Epoxy bonding agent for surfaces shall be Type II, as specified in Section 9-26.1. Epox

Epoxy bonding agent for surfaces shall be Type II, as specified in Section 9-26.1. Epoxy bonding agent for steel reinforcing bar dowels shall be either Type I or Type IV, as

General Special Provisions Division 6-02

specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the resin manufacturer.

6-02.2.OPT4.GB6

(November 2, 2022)

Epoxy Crack Sealing Materials

Epoxy sealing paste shall be a thixotropic compound.

Epoxy injection resin shall be a moisture-insensitive, two-component material capable of restoring the structural integrity of a structure by structurally bonding cracks, delaminations and hollow planes. Resin formulations shall be hydrophilic with variable viscosity to allow full depth penetration in cracks having a width of 6 mils and greater.

Epoxy injection resin, when mixed with the hardener in accordance with the manufacturer's written instructions, shall cure to a non-shrink solid material. The material shall be capable of curing in less than 24 hours.

Epoxy injection resin shall have the following physical properties:

Solids Content, by weight (minimum)	98 percent
Viscosity (maximum) at 77F (Brookfield)	700 cps
Compressive Yield Strength (minimum)	12,000 psi
Minimum Flexural Strength (ASTM D 790)	10,000 psi

Bond Strength (minimum) 500 psi

The Contractor shall submit a Type 2 Working Drawing consisting of sample of the material of the epoxy sealing paste and epoxy injection resin together with sufficient directions and technical data for its use.

The Contractor shall submit a Type 1 Working Drawing consisting of the Safety Data Sheet (SDS) for each type of epoxy sealing paste and epoxy injection resin.

6-02.2.OPT26.GB6

(April 6, 2015)

Rapid Cure Silicone Sealant

Rapid cure silicone sealant shall be Dow Corning 902 RCS Joint Sealant.

The Contractor shall deliver the joint sealant to the job site in the sealant manufacturer's original sealed container. Each container shall be marked with the sealant manufacturer's name and lot or batch number. Each lot or batch shall be accompanied by the manufacturer's Safety Data Sheet (SDS), and Manufacturer's Certificate of Compliance, identifying the lot or batch number, and certifying that the materials conform to the properties stated on the product data sheet.

The backer rod shall be closed cell expanded polyethylene foam as recommended by the sealant manufacturer. The diameter of the backer rod shall be as recommended by the sealant manufacturer for the expansion joint opening at the time of installation.

General Special Provisions Division 6-02

1	6-02.2.OPT27.GE	36		
2	(April 6, 20	15)		
3	Polyester (•		
4		er Resin Bind	er	
5			nsaturated isophthalic polyester-styrene	co-polymer
6	1110 1001	iii onaii bo an a	neatarated teephiniane peryester etyrente	oo porymon
7	Prior to	adding the initia	ator, the resin shall conform to the followi	ng requirements:
8	\ <i>r</i>	.,	75.4.000	4.0TM D 04.00
9	VISC	cosity:	75 to 200 cps	ASTM D 2196
10			(20 rpm at 77F, RVT No. 1 spindle)	
11	_			
12	Spe	ecific Gravity:	1.05 to 1.10 at 77F	ASTM D 1475
13				
14	Sty	rene Content:	45% to 50% by weight	ASTM D2369
15			of polyester styrene resin	
16				
17	The hard	dened resin sha	all conform to the following requirements	•
18			Ğ .	
19	Eloi	ngation:	35% minimum	ASTM D 638
20			w/ thickness 0.25" ± 0.04"	
21			W americane 0.20 2 0.01	
22	Ten	sile Strength	2,500 psi minimum	ASTM D 638
23	1011	ione outerigui.	w/ thickness 0.25" ± 0.04"	7.0 TW D 000
24			W/ tillckiless 0.25 ± 0.04	
	Cor	aditioning	19 hours/775/500/ + 5 hours/1595	A CTM D 640
25	Cor	nditioning	18 hours/77F/50% + 5 hours/158F	ASTM D 618
26	0:1-		4 00/	4
27	Sila	ine Coupler:	1.0% minimum (by weight of polyester-s	tyrene resin)
28				
29			er shall be an organosilane ester, gam	
30			e. The promoter/hardeners shall be com	
31			one peroxide (MEKP) and cumene hy	
32			and CHP initiators shall be used as re	commended by the
33	mar	manufacturer.		
34				
35	Polyeste	er resin binder	will be accepted based on submittal to	the Engineer of a
36	Manufac	cturer's Certifica	ate of Compliance.	
37				
38	High Mo	olecular Weigh	nt Methacrylate (HMWM) Resin	
39			sity and density properties, and the prom	oter/initiator system,
40			9.2, the HMWM resin for polyester conc	
41		wing requireme		
42		9		
43	Flag	sh Point:	180F minimum	ASTM D 3278
44	i ia	on i onit.	1001 IIIIIIIIIIIII	7.0 TW D 0270
45	Too	k-Free Time:	400 minutes maximum	California Test 551
	Iac	K-FIEE IIIIE.	400 minutes maximum	California Test 55 i
46 47	Dui a u 4 -	adding initiates	the UMANAM regio about being a maniferen	m valatila cantant af
47		•	the HMWM resin shall have a maximum	ii voiaule content of
48	30 perce	ent, wnen teste	d in conformance with ASTM D 2369.	
49				
50			cepted based on submittal to the Enginee	r ot a Manutacturer's
51	Certifica	ite of Complian	ce.	
52				

General Special Provisions Division 6-02

1 2 3 4	Aggregate The aggregate shall be from a WSDOT approved pit site and shall be thoroughly washed and kiln dried.
5 6 7	The aggregate shall conform to Section 9-03.1(5)B for either 1/2-inch or 3/8-inch maximum nominal aggregate size.
8 9	The combined aggregate shall have a maximum of 45 percent crushed particles. Fine aggregate shall conform to Section 9-03.13.
10 11 12 13 14 15	Aggregate absorption shall not exceed 1.0 percent. The moisture content of the aggregate shall not exceed one half of the aggregate absorption at the time of mixing with the polyester resin binder. The aggregate temperature shall be between 45F and 100F at the time of mixing.
	Canal for Abreains Finish
16	Sand for Abrasive Finish
17 18 19	The sand for abrasive finish shall conform to Section 6-09.2, and the aggregate moisture content requirements specified above.
	6 00 0 ODT00 OD6
20	6-02.2.OPT28.GB6
21	(April 6, 2015)
22	Elastomeric Concrete
23 24	Elastomeric concrete shall be one of the following three products:
25 26	BASF/Watson Bowman Acme Wabo Crete II
27 28	D. S. Brown Delcrete
29 30	R. J. Watson Poly-Tron
31 32	The elastomeric concrete aggregate shall be as specified, gradated, and packaged by the elastomeric concrete manufacturer.
33 34 35	The primer shall be as recommended by the elastomeric concrete manufacturer.
36 37 38 39 40 41 42	The Contractor shall deliver the elastomeric concrete components to the job site in the elastomeric concrete manufacturer's original sealed containers. Each container shall be marked with the sealant manufacturer's name and lot or batch number. Each lot or batch shall be accompanied by the manufacturer's Safety Data Sheet (SDS), and Manufacturer's Certificate of Compliance, identifying the elastomeric concrete manufacturer and the lot or batch number, and certifying that the materials conform to the properties stated in the product data sheet.
43	6 02 2 ODT46 CB6
44	6-02.2.OPT46.GB6
45 46	Bridge Supported Utilities
47	6-02.2.OPT46(A).GB6
48	(June 26, 2000)
49	Inserts shall be of the type and model specified in the Plans. Inserts shall be galvanized

Inserts shall be of the type and model specified in the Plans. Inserts shall be galvanized in accordance with AASHTO M 111.

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General Special Provisions Division 6-02

6-02.2.OPT46(B).GB6 1 2 (September 3, 2019) 3 Hanger rods, and associated nuts and washers, shall conform to Section 9-06.5(1), and 4 shall be galvanized in accordance with ASTM F2329. 5 6 Steel bars and plates shall conform to ASTM A 36 and shall be galvanized in accordance 7 with AASHTO M 111. 8 9 6-02.2.OPT46(C).GB6 10 (September 3, 2019) 11 Horizontal strut bolts or threaded rods, and associated nuts and washers, shall conform 12 to Section 9-06.5(1), and shall be galvanized in accordance with ASTM F2329. 13 14 Pre-formed fabric pads shall be composed of multiple layers of duck, impregnated and 15 bound with high quality oil resistant synthetic rubber, compressed into resilient pads. The 16 pre-formed fabric pads shall conform to latest edition of MIL C 882 and the following 17 requirements. The number of plies shall be as required to produce the specified 18 thickness, after compression and vulcanizing. 19 20 Pre-formed fabric pads shall have a shore A hardness of 90+5 in accordance with ASTM 21 D 2240. 22 23 Pre-formed fabric pads for bridge utility supports will be accepted based on the 24 Manufacturer's Certificate of Compliance that the material furnished conforms to these 25 specifications. 26 27 6-02.2.OPT46(D).GB6 28 (June 26, 2000) 29 Pipe rolls or pipe saddles shall be of the type and model specified in the Plans. 30 31 6-02.2.OPT46(E).GB6 32 (September 3, 2019) 33 Anchor straps shall conform to ASTM A 36 and shall be galvanized after fabrication in 34 accordance with AASHTO M 111. 35 36 Anchor bolts, and associated nuts and washers, shall conform to Section 9-06.5(4), and 37 shall be galvanized in accordance with ASTM F2329. 38 39 6-02.2.OPT48.GB6 40 (April 30, 2001) Bridge Drain Risers 41 42 Spacer bars and riser bars for the drain riser assembly shall conform to ASTM A 36. 43 44 6-02.2.OPT58.GB6 (September 8, 2020) 45 46

Core Drilled Bridge Deck Drain

Bridge deck drain pipe sleeve shall be any smooth wall, non-perforated, PVC pipe of the diameter and minimum wall thickness specified in the Plans.

Epoxy bonding agent shall be Type II conforming to Section 9-26.1. The grade and class of the epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

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General Special Provisions Division 6-02

6-02.2.OPT60.GB6
(April 6, 2015)
Seismic Retrofit Materials

Components fabricated and constructed for seismic retrofit work shall conform to the following requirements:

6-02.2.OPT60(B).GB6

(April 6, 2015)

Steel pipe shall conform to ASTM A 53, Grade B, Type E or S, galvanized. The pipe shall be Schedule 40, except as otherwise specified in the Plans.

PVC pipe shall be any smooth wall, non-perforated, PVC pipe of the diameter and minimum wall thickness or Schedule specified in the Plans.

6-02.2.OPT60(C).GB6

(September 8, 2020 November 20, 2023)

Steel bars, plates and shapes shall conform to ASTM A 36A36 except that structural shapes may conform to ASTM A 992A992.

Epoxy bonding agent, where shown in the Plans for bonding steel components to concrete, shall be Type II as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

All steel components and assemblies for seismic restrainers, except as otherwise specified, shall be galvanized after fabrication in accordance with AASHTO M 111.

Bolts, nuts, and washers shall conform to Section 9-06.5(3), and shall be galvanized after fabrication in accordance with ASTM F2329.

Resin bonded anchors shall conform to SectionSections 6-02.2 as supplemented in these Special Provisions3(18)A and 9-06.4. Additionally, the threaded anchor rods for seismic retrofit elements shall conform to either ASTM A 193A193 Grade B7 or ASTM F 1554F1554 Grade 105, and shall conform to the appropriate supplemental requirements for grade and manufacturer's identification, and charpy impact testing (15-foot-pounds minimum at 40F). Results of the charpy impact testing for the production lot(s) including the anchor rods furnished for seismic retrofit components and assemblies shall be submitted to the Engineer along with the Manufacturer's Certificate of Compliance.

6-02.2.OPT60(D).GB6

(September 8, 2020)

High-strength steel rods for longitudinal seismic restrainer assemblies shall conform to ASTM F 1554 Grade 105, including Supplemental Requirements S2, S3, and S5. Nuts, and couplers if required, shall conform to ASTM A 563 Grade DH. Washers shall conform to ASTM F 436.

High-strength steel rods and associated couplers, nuts and washers shall be galvanized after fabrication in accordance with ASTM F2329.

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1 6-02.2.OPT60(F).GB6 2 (September 8, 2020) 3 **Column Jacketing Materials** 4 All metal components shall conform to ASTM A 36, and shall be painted in 5 accordance with Section 6-07.3(9), and Section 6-03.3(30) as supplemented in these 6 Special Provisions. Metal surfaces in contact with grout shall be considered in 7 contact with concrete for the purposes of Section 6-07.3(9). 8 9 10 requirements: 11

Grout shall conform to the requirements of Section 9-20.3(4) and the following

The grout shall be a pumpable mix capable of filling the annulus between the concrete column and steel column jacket assembly. The grout shall be free of lumps and undispersed cement, and shall not show any visible signs of separation of water and cement during pumping operations.

Aggregate conforming to Section 9-03.1(5) with a maximum aggregate size of 3/8 inch may be used to extend the grout. Mortar shall conform to Section 9-20.4(2).

Epoxy bonding agent for filling grout voids shall be Type II, as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

6-02.2.OPT61.GB6

(September 8, 2020)

Precast Prestressed Concrete Stay-In-Place Panels

Concrete shall have an initial strength at strand release of at least 5,000 psi, and a 28 day minimum compressive strength as specified in the Plans.

Prestressing reinforcement strand shall conform to Section 9-07.10, except that the diameter shall be as specified in the Plans. The strand shall be provided by a manufacturer and facility capable of producing 1/2" diameter strand with an average bond pull-out force of 16.0 kips when tested in accordance with ASTM A1081. Test reports for ASTM A1081 shall be submitted with the Manufacturer's Certificate of Compliance, and testing shall have been performed on strand produced within the previous 36 months.

Grout shall conform to Section 9-20.3(2).

Leveling bolts shall conform to Section 9-06.5(1), and shall be galvanized after fabrication in accordance with AASHTO M 232.

Backer rod shall be closed cell expanded polyethylene foam.

6-02.3.GR6

Construction Requirements

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6-02.3.INST1.GR6

Section 6-02.3 is supplemented with the following:

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6-02.3.OPT1.GB6

(September 7, 2021)

Epoxy Crack Sealing

The materials being used may be dermatetic. The Contractor's contact with and use of the materials shall conform to the requirements specified in the SDS for each material, and all personnel shall be provided with appropriate clothing and protective garments.

All materials shall be stored and protected from ignition sources as recommended by the material manufacturer.

The cracks shall be cleaned of efflorescence, deteriorated concrete and other surface debris, by vacuuming, flushing, routing, sawing or other means as required.

Entry ports shall consist of tubes, tees or other valve devices as recommended by the resin manufacturer. The ports shall be placed at intervals along each crack in accordance with the manufacturer's written instructions for the resin being used. The holes for the entry ports shall be drilled with a hollow bit with an attached vacuum chuck to prevent concrete dust from becoming embedded in the crack.

The exposed crack surfaces and the areas around the entry ports shall be sealed with epoxy sealing paste and cured in accordance with the resin manufacturer's written instructions, to attain a seal capable of withstanding the applied injection pressures.

The Contractor shall furnish the services of a factory trained technical representative to perform the epoxy crack sealing injection.

Injection shall be accomplished with a pressure or injection machine compatible with the resin selected for use and shall begin at the lowest port and continue until there is evidence of the resin at the entry port directly above and adjacent to the port being pumped. When material travel is indicated, the nozzle shall be moved to the port that shows resin. The previously pumped port shall be sealed. Injection shall continue until the crack is completely filled. On wide cracks where resin travel between ports will be rapid, two or more ports may be pumped simultaneously. On exceptionally large cracks, a formulation (dependent upon crack width, ambient temperature, modulus requirements and other variables) of epoxy resin and fine sands shall be used as recommended by the resin manufacturer.

After all ports have been pumped and the crack is full, the epoxy resin shall be cured without disturbance in accordance with the resin manufacturer's written instructions as necessary to ensure development of the full bond capacity of the material.

After the epoxy has cured completely, the epoxy sealing paste and port stems shall be ground flush with the original surface of the concrete.

At the discretion of the Engineer, cores shall be taken after the repair is completed to confirm penetration and bonding. The number and locations of such cores will be as specified by the Engineer. These cores shall be submitted to the Engineer for testing in the State Materials Laboratory. The Contractor shall submit a Working Drawing for repair of core holes in accordance with Section 6-01.16.

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6-02.3.OPT2.GB6 **Bridge Supported Utilities**

6-02.3.OPT2(A).GB6 (August 3, 2015)

> The Contractor shall furnish and install inserts for the bridge utility supports as shown in the Plans. The Contractor shall verify that the hanger rods freely hang plumb in their inserts, and shall make adjustments to the inserts as necessary and as accepted by the Engineer prior to utility installation.

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6-02.3.OPT2(B).GB6

(June 26, 2000)

The Contractor shall furnish and install the bridge utility supports, and the utility pipe or conduit pipe, as shown in the Plans.

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6-02.3.OPT2(C).FB6

(June 26, 2000)

The Utility Company will furnish material for and install *** \$\$1\$\$ ***. The Contractor shall install *** \$\$2\$\$ *** furnished by the *** \$\$3\$\$ ***.

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The Contractor shall notify the utility company a sufficient time in advance and shall cooperate with the utility company in order that the utility furnished items may be installed in the structure.

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6-02.3.OPT8.GB6

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Seismic Retrofit

6-02.3.OPT8(B).GB6

(April 6, 2015)

Seismic Retrofit Demolition Plan

The Contractor shall submit Type 2 Working Drawings showing the method of removing the specified portions of the existing bridges required by the seismic retrofit work. The Working Drawings shall show the sequence of demolition and removal, the type of equipment to be used in all demolition and removal operations, and details of the methods and equipment used for containment, collection, and disposal of all debris. The Working Drawings shall show all stages of demolition.

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6-02.3.OPT8(C).GB6

(April 6, 2015)

Column Jacket Installation Plan

The Contractor shall submit Type 2E Working Drawings describing the column jacket installation plan. The submittal shall include at a minimum, the following:

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Step by step installation procedure.

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2. The methods of cleaning and preparing the existing column surfaces prior to installing the column jacket assembly.

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The methods of containing, collecting, and disposing of the debris generated by cleaning and preparing the existing column surfaces.

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General Special Provisions Division 6-02

Page 10 November 20, 2023

1. Top of footing or footing pedestal.

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- 2. Bottom of crossbeam.
- Mid-height of column.

The Contractor shall field measure the column height from top of footing or footing pedestal to bottom of crossbeam for each column.

The Contractor shall tabulate these field measured dimensions and submit them to the Engineer along with the column jacket assembly shop drawings.

Where site conditions, such as traffic control requirements or deeply buried foundations, create difficulties for field measuring buried portions of the bridge columns, the Contractor may request a waiver of the pre-fabrication field measuring requirements for specific columns. If the Engineer concurs with the Contractor's request for a waiver of the pre-fabrication field measuring requirement for specific columns, and for columns identified in the Special Provisions as already designated with a waiver, the Contractor shall:

- Field measure the diameter, or width and thickness, as appropriate for the column shape, of the above ground portion of the column receiving the waiver.
- 2. Fabricate the column jacket to a length exceeding the column height (2'-0" or ten percent of the estimated column height, whichever is greater) based on the original plans and other available site data. The shop drawing details shall specify the column jacket fabrication length, and the assumed column height based on the available information.
- 3. Submit the method, template, and equipment used to field cut the top of the column jacket assembly at installation.

The Contractor shall submit the request for a waiver of the pre-fabrication field measuring requirement prior to preparing column jacket assembly shop drawings, and shall not submit shop drawings until receiving the Engineer's confirmation of the waiver request and completing all field measurements still required.

6-02.3.OPT8(F).FB6

(April 6, 2015)

The column(s) at the Bridge and Pier location(s) specified below has (have) received a waiver of the pre-fabrication field measuring requirement, and no separate waiver request from the Contractor is required for this (these) specific column(s):

*** \$\$1\$\$ ***

However, the Contractor shall conform to all other requirements specified above for columns receiving a waiver of the pre-fabrication field measuring requirement.

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1 6-02.3.OPT8(G).FB6 2 (April 6, 2015) 3 Field Measuring for Seismic Retrofit Components 4 The Contractor shall field measure dimensions of existing items and members of 5 Bridge No(s). *** \$\$1\$\$ *** prior to preparing shop drawings for fabricated steel 6 components and assemblies. 7 8 The Contractor shall field measure dimensions of the following items: 9 *** \$\$2\$\$ *** 10 11 12 The Contractor shall tabulate these field measured dimensions and submit them to 13 the Engineer along with the shop drawing submittals for the corresponding steel 14 components and assemblies. 15 16 6-02.3.OPT8(H).GB6 17 (April 6, 2015) 18 **Removing Portions of Existing Concrete** 19 The Contractor shall remove portions of existing concrete required by the seismic 20 retrofit work in accordance with Section 2-02.3(2)A2 and as shown in the Plans. 21 22 The Contractor shall dispose of all materials removed by the demolition operations 23 in accordance with Section 2-02.3. 24 25 The Contractor shall roughen, clean, and saturate the existing concrete surfaces 26 bonding to the fresh concrete in accordance with Section 6-02.3(12). 27 28 6-02.3.OPT8(J).GB6 29 (April 6, 2015) 30 Drilling Holes and Setting Steel Reinforcing Bars, and Placing Concrete The Contractor shall drill holes for, and set, steel reinforcing bars into the existing 31 32 concrete as shown in the Plans in accordance with Section 6-02.3(24)C as 33 supplemented in these Special Provisions. 34 35 6-02.3.OPT8(K).GB6 36 (April 6, 2015) 37 Installing and Tensioning High-Strength Steel Bar Reinforcement 38 The Contractor shall furnish and install high-strength steel bars as shown in the 39 Plans. The hole through existing concrete shall be core drilled. The concrete surface 40 in contact with the high-strength steel bar bearing plate shall be coated with epoxy 41 bonding agent just prior to stressing the high-strength steel bar. After stressing, the 42 high-strength steel bar shall be grouted in accordance with Section 6-02.3(26)H. 43 44 6-02.3.OPT8(L).GB6 45 (April 6, 2015November 20, 2023) 46 **Longitudinal Seismic Restrainers** 47 The Contractor shall submit Type 1 Working Drawings consisting of shop drawings 48 of the steel components of the longitudinal seismic restrainer assemblies in

General Special Provisions Division 6-02

accordance with Section 6-03.3(7).

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The Contractor shall core drill holes through the pier diaphragm for the high-strength steel bar as shown in the Plans. The Contractor shall set the PVC pipe in place with epoxy bonding agent as shown in the Plans.

Holes for the resin bonded anchors for the longitudinal seismic restrainer anchorages shall be located and drilled in accordance with Section 6-02.3(18) as supplemented in these Special Provisions A, and as follows:

- The bottom layer of steel reinforcing bars in the slab in the vicinity of the longitudinal seismic restrainer anchorage as shown in the Plans shall be located and marked on the concrete surface.
- 2. Using the anchorage assembly as a template, the Contractor shall align and slightly shift the anchorage assembly as required so that the holes avoid the existing steel reinforcing bars.
- 3. The Contractor shall drill holes for the resin bonded anchors with the anchorage assembly in position as a template.
- 4. If, after shifting the anchorage assembly, conflicts still exist between hole locations and existing steel reinforcing bars, the Contractor may, with the Engineer's approval, core drill holes at the conflict locations.

The surface of the concrete in contact with the anchorage assembly shall be coated with Type II epoxy bonding agent conforming to Section 9-26.2, with the grade and class as recommended by the epoxy bonding agent manufacturer. The longitudinal seismic restrainer anchorage assembly shall be set in place within the set time specified in the manufacturer's data sheet for the epoxy bonding agent.

All longitudinal seismic restrainers at a pier shall be installed so that the free end (the end with the gap as shown in the Plans) shall be on the same side of the pier.

6-02.3.OPT8(M).GB6

(September 8, 2020) Column Jacketing

The steel column jacket assembly for each column shown in the Plans shall be fabricated in accordance with the shop drawings.

The Contractor shall excavate and shore as required to expose the column surface below ground to the top of the existing footing or footing pedestal. Dirt, debris and any surface attachments shall be removed from the surface of the column in accordance with the Contractor's column jacket installation plan.

For specific columns for which the Engineer confirms a waiver of the pre-fabrication field measuring of the column height dimension, the Contractor shall field measure the column height upon completion of the excavation. The Contractor shall field cut the top of the column jacket assembly using the method, template, and equipment as specified in the pre-fabrication field measuring waiver request submittal.

The Contractor shall position the steel column jacket around the existing column using spacers to center the assembly. The spacers may be welded to the inside of the jacket and, if used, shall be placed and attached as shown in the shop drawings.

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 Field welded complete penetration groove welds of the column jacket assemblies shall be inspected in accordance with Section 6-03.3(25)A. Field weld inspection shall be performed by a certified welding inspector (CWI). The Contractor shall not begin welding until receiving acceptance of the joint fit-up from the CWI. The CWI shall randomly monitor the intermediate stages of welding. The CWI's daily reports and nondestructive testing reports indicating compliance with contract requirements shall be submitted as a Type 1 Working Drawing upon completion of the last column jacket in the Contract.

The Contractor shall install external grout injection valves for use in filling the cavity with grout. The valves shall be spaced such that the grout will uniformly fill the gap between the jacket assembly and the column surface. The grout pump shall be equipped with a pressure gauge to monitor grout pressures. The grouting equipment shall be sized to enable the grout to be pumped in one continuous operation. The mixer shall be capable of continuously agitating the grout.

The production grout compressive strength shall be measured using four inch diameter by eight inch cylinders, cast and cured in accordance with Section 6-02.3(5)H. The cylinders shall attain a 7-day minimum compressive strength of 4,000 psi.

The gap between the column jacket assembly and the existing column surface at the base of the assembly shall be sealed in accordance with the column jacket installation plan.

The grouting operation shall conform to Section 6-02.3(6)A.

The grouting operation shall begin from the base of the assembly and from the base of each successive lift. The Contractor shall pump grout into the assembly while maintaining a uniform level grout head around the column.

The Contractor shall limit the height of each lift of grout to minimize undulations and displacements of the surface of the column jacket assembly during grouting. For column jacket assemblies of circular (constant radius) cross section, the height of each lift of grout shall be limited to 20 feet maximum, except as otherwise accepted by the Engineer. For column jacket assemblies with cross sections of all other shapes, the height of each lift of grout shall be limited to 8 feet maximum, except as otherwise accepted by the Engineer.

The Contractor may restrain the column jacket assembly within the specified tolerances during grouting operations by using a bracing system in accordance with the column jacket installation plan. Except as otherwise shown in the Plans, restraints for the bracing system shall not pass through the column. Except when a bracing system is used, placement of the next grout lift shall not begin until the previous grout lift has hardened.

The Contractor shall contain and collect all grout outside the column jacket assembly.

When the assembly is completely grouted to the top, the Contractor shall place mortar conforming to Section 9-20.4(2) over the top of the grout at the top of the assembly, and shall slope the mortar to drain.

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All clamps, valves, injection ports, lifting ears, and other attachments shall be removed not less than 24 hours after completing grouting operations at the column. The Contractor shall fill all voids with mortar conforming to Section 9-20.4(2), and shall finish them flush with the exterior surface of the column jacket assembly. The Contractor shall not remove the attachments by flame cutting.

Seven calendar days after completing the grouting of a column jacket assembly, the Engineer will inspect the assembly for voids between the steel casing and the grout. The Contractor shall completely fill all voids detected by the Engineer by injecting epoxy bonding agent into the lowest point of each void and venting at the highest point. The exposed epoxy bonding agent shall be finished flush with the exterior surface of the column jacket assembly.

After inspection for voids and epoxy injection of voids is complete, steel surfaces with damaged primer coat shall be repaired with field primer in accordance with Section 6-07.3(9). The primer repair shall be followed by application of the intermediate and finish field coats of paint to all exposed steel surfaces in accordance with Section 6-07.3(9) and Section 6-03.3(30) as supplemented in these Special Provisions.

Backfill shall not be placed against the column jacket assembly until the finish coat of paint is completely cured, based on the cure duration recommended by the paint manufacturer. The Contractor shall fill and compact the excavation with native backfill, except as otherwise specified in the Plans, in accordance with Section 2-09.3(1)E.

6-02.3.OPT9.GB6

(January 7, 2019) Polvester Concrete

Manufacturer's Technical Representative

The Contractor shall have the services of a qualified polyester concrete manufacturer's technical representative physically present at the job site. The manufacturer's technical representative shall assist the Contractor in training the Contractor's personnel and providing technical assistance in preparing the header blockout surface, applying primer, and mixing, placing, and curing the polyester concrete.

Mix Design

Polyester concrete shall be composed of the following three components – polyester resin binder, high molecular weight methacrylate (HMWM) resin, and aggregate, in accordance with Section 6-02.2 as supplemented in these Special Provisions.

The Contractor shall prepare and submit a Type 1 Working Drawing consisting of the polyester concrete design mix and mixing procedure. The mix design shall include a recommended initiator percentage for the expected application temperature, and the recommended amount of polyester resin binder as a percentage of the dry weight of aggregate. The amount of peroxide initiator used shall result in a polyester concrete set time between 30 and 120 minutes during placement as determined by California Test 551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay and Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be required as recommended by the polyester resin binder supplier.

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Delivery and Storage of Materials

All materials shall be delivered in their original containers bearing the manufacturer's label, specifying date of manufacturing, batch number, trade name brand, and quantity. Each shipment of polyester resin binder and HMWM resin shall be accompanied by a Safety Data Sheet (SDS).

The material shall be stored in accordance with the manufacturer's recommendations.

Sufficient material to perform the entire polyester concrete application shall be in storage at the site prior to any field preparation.

Equipment and Containment

The Contractor shall submit a Type 1 Working Drawing consisting of all equipment for cleaning the concrete and steel surfaces, and mixing and applying the polyester concrete.

The HMWM resin, and abrasive blasting materials, shall be contained and restricted to the surface receiving the polyester concrete only, and shall not escape to the surrounding environment. The Contractor shall submit a Type 1 Working Drawing consisting of the method and materials used to collect and contain the HMWM resin, and abrasive blasting materials.

Surface Preparation

The concrete and steel surfaces shall be prepared by removing all material which may act as a bond breaker between the surface and the polyester concrete. Surface cleaning shall be by abrasive blasting. Precautions shall be taken to ensure that no dust or debris leaves the bridge deck and that all traffic is protected from rebound and dust.

If the concrete or steel surfaces become contaminated, the contaminated areas shall be recleaned by abrasive blasting.

Application of Prime Coat

Application of the HMWM prime coat and the polyester concrete shall not begin if rain is forecast within 12-hours of completion of the Work. The area receiving the prime coat shall be dry and had no rain within the past 12 hours. Immediately prior to applying the prime coat, the surfaces shall be cleaned to remove accumulated dust and any other loose material.

The concrete bridge deck surface shall be between 50F and 85F when applying the prime coat.

The Contractor shall apply one coat of promoted/initiated wax-free HMWM resin to the prepared concrete and steel surfaces immediately before placing the polymer concrete. The promoted/initiated resin shall be worked into the concrete in a manner to assure complete coverage of the area receiving polyester concrete. A one pint sample of each batch of promoted/initiated HMWM resin shall be retained and submitted to the Engineer at the time of primer application.

The prime coat shall cure for 30 minutes minimum before beginning placement of the polyester concrete. Placement of the polymer concrete shall not proceed until the

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Engineer verifies that the HMWM resin was properly promoted and initiated, as evidenced by the HMWM batch sample.

If the primed surface becomes contaminated, the contaminated area shall be cleaned by abrasive blasting and reprimed.

Mixing Equipment for Polyester Concrete

Polyester concrete shall be mixed in mechanically operated mixers in accordance with the mix design as approved by the Engineer. The mixer size shall be limited to a nine cubic yard maximum capacity, unless otherwise approved by the Engineer.

The aggregate and resin volumes shall be recorded for each batch along with the date of each recording. A printout of the recordings shall be furnished to the Engineer at the end of each work shift.

The Contractor shall prevent any cleaning chemicals from reaching the polyester mix during the mixing operations.

Mixing Components

The polyester resin binder in the polyester modified concrete shall be approximately 12 percent by weight of the dry aggregate. The Contractor shall specify the exact percentage in the mix design Working Drawing submittal.

The polyester resin binder shall be initiated and thoroughly blended just prior to mixing the aggregate and binder. The polyester concrete shall be thoroughly mixed prior to placing.

Polyester Concrete Placement

The polyester concrete shall be placed within two hours of placing the prime coat.

Polyester concrete shall be placed within 15 minutes following initiation. Polyester concrete that is not placed within this time shall be discarded.

The surface temperature of the area receiving the polyester concrete shall be the same as specified above for the HMWM prime coat.

The polyester concrete shall be consolidated in accordance with the manufacturer's recommendations.

Finished Polyester Concrete Surface

The finished surface of the polyester concrete shall be smooth and uniform as to crown and grade in accordance with Section 6-02.3(10)D3.

Finishing equipment used shall strike off the polyester concrete to the established grade and cross section.

The polyester concrete shall receive an abrasive sand finish. The sand finish shall be applied by hand immediately after strike-off and before gelling occurs. Sand shall be broadcast onto the surface to affect a uniform coverage of a minimum of 0.8 pounds per square yard.

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Curing

The polyester concrete shall be cured in accordance with the manufacturer's recommendations. The Contractor shall measure the compressive strength of the cured polyester concrete with a rebound hammer in accordance with ASTM C 805. The readings of the rebound hammer used shall be correlated to the compressive strength of the polyester concrete product in accordance with ASTM C 805 Section 5.4, and the Contractor shall submit a Type 1 Working Drawing of this correlation.

Traffic and equipment shall not be permitted on the polyester concrete until it achieves a compressive strength of 2500 psi based on the rebound hammer readings and the correlation chart for the rebound hammer used.

6-02.3.OPT10.GB6

(January 7, 2019)

Elastomeric Concrete

Elastomeric concrete shall be composed of the following three components – two-component polyurethane resin binder, and aggregate, in accordance with Section 6-02.2 as supplemented in these Special Provisions.

Manufacturer's Technical Representative

The Contractor shall have the services of a qualified elastomeric concrete manufacturer's technical representative physically present at the job site. The manufacturer's technical representative shall assist the Contractor in training the Contractor's personnel and providing technical assistance in preparing the header blockout surface, applying primer, and mixing, placing, and curing the elastomeric concrete.

Delivery and Storage of Materials

All materials shall be delivered in their original containers bearing the manufacturer's label, specifying date of manufacturing, batch number, trade name brand, and quantity. Each shipment of polyurethane resin binder shall be accompanied by a Safety Data Sheet (SDS).

The materials shall be stored in accordance with the manufacturer's recommendations.

Sufficient material to perform the entire elastomeric concrete application shall be in storage at the site prior to any field preparation.

Equipment and Containment

The Contractor shall submit a Type 1 Working Drawing consisting of all equipment for cleaning the concrete and steel surfaces, and mixing and applying the elastomeric concrete.

The abrasive blasting materials shall be contained and restricted to the surface receiving the elastomeric concrete only and shall not escape to the surrounding environment. The Contractor shall submit a Type 1 Working Drawing consisting of the method and materials used to collect and contain the abrasive blasting materials.

Surface Preparation

 The concrete and steel surfaces shall be prepared by removing all material which may act as a bond breaker between the surface and the elastomeric concrete,

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including the removal of all loose, deteriorated, or otherwise unsound concrete. Steel surfaces shall be cleaned and prepared to an SSPC SP-10 surface condition. Surface cleaning shall be by abrasive blasting.

Precautions shall be taken to ensure that no dust or debris leaves the bridge deck and that all traffic is protected from rebound and dust.

If the concrete or steel surfaces become contaminated, the contaminated areas shall be recleaned by abrasive blasting.

Freshly placed concrete shall be cured for a minimum of 14 calendar days before application of primer and elastomeric concrete.

Application of Prime Coat

Application of the prime coat and the elastomeric concrete shall not begin if rain is forecast within 12-hours of completion of the Work. The area receiving the prime coat shall be dry and had no rain within the past 12 hours. Immediately prior to applying the prime coat, the surfaces shall be cleaned to remove accumulated dust and any other loose material.

The concrete bridge deck surface shall be between 50F and 85F when applying the prime coat.

The Contractor shall apply primer in accordance with the elastomeric concrete manufacturer's recommendations and shall limit the extent of primer application to that surface area that can be covered by a layer of elastomeric concrete before primer cure.

If the primed surface becomes contaminated, the contaminated area shall be cleaned by abrasive blasting and reprimed.

Mixing Components

The Contractor shall mix the elastomeric concrete components and the resultant mixture in accordance with the equipment and procedure recommended by the elastomeric concrete manufacturer.

Elastomeric Concrete Placement

The elastomeric concrete shall be placed on the liquid prime coat within the time limits specified by the manufacturer. Elastomeric concrete shall be placed in layers not to exceed the maximum depth recommended by the elastomeric concrete manufacturer. At locations deep enough to require placement of multiple layers of elastomeric concrete, each layer shall be cured, and the top of the previous layer roughened, as recommended by the elastomeric concrete manufacturer before placement of the next layer.

Elastomeric concrete shall be placed within five minutes of initiation.

The surface temperature of the area receiving the elastomeric concrete shall be the same as specified above for the prime coat.

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Finished Elastomeric Concrete Surface 1 2 The finished surface of the elastomeric concrete shall be smooth and uniform as to 3 crown and grade in accordance with Section 6-02.3(10)D3. 4 5 Finishing tools or equipment used shall strike off the elastomeric concrete to the 6 established grade and cross section. 7 8 The finished surface of elastomeric concrete shall receive an abrasive sand finish. 9 The sand finish shall be applied by hand immediately after strike-off and before 10 gelling occurs. Sand shall be broadcast onto the surface to affect a uniform coverage 11 of a minimum of 0.8 pounds per square yard. 12 13 Curing 14 The elastomeric concrete shall be cured in accordance with the manufacturer's 15 recommendations. The Contractor shall measure the compressive strength of the 16 cured elastomeric concrete with a rebound hammer in accordance with ASTM C805. 17 The readings of the rebound hammer used shall be correlated to the compressive 18 strength of the elastomeric concrete product in accordance with ASTM C805 Section 19 5.4, and the Contractor shall submit a Type 1 Working Drawing of this correlation. 20 21 Traffic and equipment shall not be permitted on the elastomeric concrete until it 22 achieves a compressive strength of 2500 psi based on the rebound hammer readings 23 and the correlation chart for the rebound hammer used. 24 25 6-02.3(2).GR6 **Proportioning Materials** 26 27 28 6-02.3(2).INST1.GR6 29 Section 6-02.3(2) is supplemented with the following: 30 31 6-02.3(2).OPT1.GB6 32 (September 8, 2020) 33 **Expansion Joint Header Concrete** 34 Expansion joint header concrete shall have a minimum compressive strength of 35 4,000 psi at 28 days. Unless the Plans or Special Provisions specify a different 36 strength, the concrete shall achieve a minimum compressive strength of 2,500 psi 37 based on early break cylinders prior to allowing traffic to pass across the expansion 38 joint. 39 40 Type III cement conforming to Section 9-01.2(1) may be used. 41 42 The nominal maximum size aggregate shall be 1-1/2 inch. 43 44 Section 6-02.3(3) notwithstanding, non-chloride accelerating admixtures conforming 45 to the following specifications may be used: 46 47 Admixture **Specifications**

Admixture Specifications
Accelerating Section 9-23.6(4)

Water Reducing/Accelerating Section 9-23.6(6)

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1 6-02.3(<u>5).GR6</u> 2 Acceptance of Concrete 3 4 6-02.3(5)G.GR6 5 Sampling and Testing for Temperature, Consistency, and Air Content 6 7 6-02.3(5)G.INST1.GR6 8 The second paragraph of Section 6-02.3(5)G is revised to read: 9 10 6-02.3(5)G.OPT1.2025.GR6 11 (November 20, 2023) 12 Sampling and testing will be performed before concrete placement from the first 13 load and then randomly performed from one load for every 100 cubic yards. 14 Concrete shall not be placed until all tests have been completed by the Engineer. 15 and the results indicate that the concrete is within acceptable limits. If at any time the concrete is not within acceptable limits, sampling and testing will 16 continue before concrete placement for each load until two successive loads 17 meet all of the applicable acceptance requirements. After two successive tests 18 indicate that the concrete is within specified limits, the testing frequency may 19 20 decrease to one for every 100 cubic yards. Sampling shall be performed in 21 accordance with FOP for WAQTC TM 2 and random samples shall be selected 22 in accordance with WSDOT T 716. After the first acceptable load of concrete, up 23 to ½ cubic yard may be placed from subsequent loads to be tested prior to 24 testing for acceptance. 25 6-02.3(6).GR6 26 27 Placing Concrete 28 29 6-02.3(6)B.GR6 30 **Placing Concrete in Foundation Seals** 31 32 6-02.3(6)B.INST1.GR6 33 Section 6-02.3(6)B is supplemented with the following: 34 35 6-02.3(6)B.OPT1.GB6

(June 26, 2000)

If, in the opinion of the Engineer, water conditions at the time of construction do not require seals for footing construction, the Engineer may specify that the seals be omitted. In such a case the Contractor shall lower and construct the footing, as shown in the Plans, at the elevation shown in the Plans for the bottom of seal. The height of the pier shaft or columns shall be adjusted accordingly.

No adjustment will be allowed in the unit contract prices for concrete, steel reinforcing bar, and excavation by reason of any increase or decrease in quantities involved due to the deletion of seals.

6-02.3(6)B.OPT2.GB6

(June 26, 2000)

If, in the opinion of the Engineer, water conditions at the time of construction do not require seals for construction, the Engineer may specify that the seals be omitted. In such a case, the Contractor shall excavate only to the bottom of footing elevation and shall construct the footing as shown in the Plans.

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1 2 No adjustment will be allowed in the unit contract prices for concrete, steel 3 reinforcing bar, and excavation by reason of any increase or decrease in 4 quantities involved due to the deletion of seals. 5 6 6-02.3(9).GR6 7 Precast Concrete Panels 8 9 6-02.3(9)A.GR6 10 **Shop Drawings** 11 6-02.3(9)A.INST2.GR6 12 13 The list included in the third paragraph of Section 6-02.3(9)A is supplemented with 14 the following: 15 16 6-02.3(9)A.OPT6.GB6 17 (September 8, 2020) 18 Construction sequence and method of forming the precast prestressed 19 concrete stay-in-place panels. 20 21 Details of additional reinforcement, if any, provided at lifting and support 22 locations. 23 24 Method and equipment used to support the precast prestressed concrete 25 stay-in-place panels during storage, transporting, and erection. 26 27 10. Method used to identify the precast prestressed concrete stay-in-place 28 panel's location for calculating its position accounting for profile grade and 29 transverse slope, and for ensuring correct placement during erection. 30 31 11. Erection sequence, including the method of lifting the panels, placing and 32 adjusting the panels to proper alignment and grade, and supporting the 33 panels during leveling and grouting operations. 34 35 12. Method for forming the grout pad on the exterior face of the prestressed 36 concrete girder flange, if an alternative method is proposed, and at the 37 interior face of the stay-in-place panel to the dimensions detailed in the 38 Plans. 39 40 6-02.3(9)E.GR6 **Finishing** 41 42 43 6-02.3(9)E.INST1.GR6 44 Section 6-02.3(9)E is supplemented with the following: 45 6-02.3(9)E.OPT6.GB6 46 47 (September 8, 2020) 48 The Contractor shall furnish a Class 2 surface finish, as specified in Section 6-49 02.3(14)B, on all surfaces of the precast prestressed concrete stay-in-place 50 panels, except as otherwise noted. The top surface of all panels shall be

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textured using a metal tined comb. It shall leave striations in the fresh concrete

1/4-inch deep by at least 1/8-inch wide, spaced at 2 to 3 times the groove width

1 2 3 4	apart, and oriented perpendicular to the prestressing strand. The timing and method used shall produce the required texture without displacing large particles of aggregate. Areas of mortar buildup more than 1/4 inch above the top surface of the panel shall be removed.			
5 6 7	6-02.3(9)F.GR6 Tolerances			
8	0.00.0(0)EINOT4.0D0			
9 10	6-02.3(9)F.INST1.GR6 Section 6-02.3(9)F is supplemented with the following:			
11	eccuent o conception of the teneral gr			
12	6-02.3(9)F.OPT1.GB6			
13	(September 8, 2020)			
14	The precast prestressed concrete stay-in-place panels	shall not exceed the		
15 16	following scalar tolerances:			
16 17	Length (perpendicular to strands):	± 3/16 inch		
18	Lefigur (perpendicular to strands).	± 3/ 10 IIICH		
19	Width (parallel to strands):	± 1/4 inch		
20	Width (parallel to strands).	± 1/ 4 111011		
21	Thickness:	+ 1/4, -1/8 inch		
22		,		
23	Squareness (difference in diagonal lengths):	\pm 1/4 inch		
24		per 5 feet,		
25		\pm 1/2" max.		
26				
27	Vertical location of strand group C.G.:	\pm 1/16 inch		
28				
29	Vertical location of individual strands:	± 1/8 inch		
30	Harimantal la action of atnovala.	t 4/4 in ala		
31 32	Horizontal location of strands:	± 1/4 inch		
33	Strand or bar projection from ends:	± 1/2 inch		
34	otiand of bar projection norn ends.	± 1/2 IIIOH		
35	Camber (either upward or downward)	± 1/4 inch		
36	at time of placement on structure:	per ten feet		
37	'	•		
38	Precast prestressed concrete stay-in-place panels with	tolerances exceeding		
39	those specified above, or with hairline cracks visibly appa			
40	strand at the end of the panel and extending more than			
41	panel will be subject to evaluation by the Engineer for po	ssible rejection.		
42	6.00.0/0/C CD6			
43 44	6-02.3(9)G.GR6 Handling and Storage			
45	rianding and Storage			
46	6-02.3(9)G.INST1.GR6			
47	Section 6-02.3(9)G is supplemented with the following:			
48	()			
49	6-02.3(9)G.OPT6.GB6			
50	(September 8, 2020)			
51	Precast prestressed concrete stay-in-place panels shall			
52	and level position, without any twisting, at all times. Sup	ports shall be oriented		

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transverse to the prestressed strands, extend the full width of the panel, and be 2 located in a manner to minimize elastic and time-dependent deformation of the 3 panels. 4 5 Unloading and reloading at a site other than the bridge site will be permitted only 6 under the direct supervision of the Engineer. The panels shall not be stacked, 7 unless otherwise allowed by the Engineer. If such permission is granted, the 8 panel supports shall be in the same vertical plane and shall be of sufficient height 9 to prevent damage to the lifting bar loops. The Contractor shall have received 10 the Engineer's verification that the bottom panel of the stack is flat and level, 11 without any twisting, prior to stacking additional panels. The Contractor shall 12 not stack panels on top of adjacent girders of the structure. 13 14 6-02.3(9)I.GR6 15 **Erection** 16 17 6-02.3(9)I.INST1.GR6 18 Section 6-02.3(9)I is supplemented with the following: 19 20 6-02.3(9)I.OPT6.GB6 21 (September 8, 2020) 22 The precast prestressed concrete stay-in-place panels shall be at least 60 days 23 old at the time of placing bridge deck concrete. The Contractor shall place the 24 panels atop the prestressed girders as shown in the Plans, adjusting the leveling 25 bolts as required to match the level of adjacent panels and accommodate 26 camber. 27 28 The grout pad shall be placed after the panels have been fully adjusted for grade 29 and camber. The exposed portion of the grout pad forms that are intended to 30 be left in place permanently shall be tinted to match the color of the adjacent 31 concrete surfaces and shall be secured with an accepted adhesive or other 32 method as accepted by the Engineer. 33 34 Prior to placing the bridge deck steel reinforcing bars and concrete, the 35 Contractor shall place a backer rod at the intersection between panels as shown 36 in the Plans. All intersections between panels shall be sealed to prevent leakage 37 during concrete placement. Prior to placing the bridge deck concrete, the 38 surface of the panels shall be cleaned of all foreign materials and saturated with 39 water for a minimum of 4 hours before fresh concrete is placed. 40 41 6-02.3(10).GR6 42 Bridge Decks and Bridge Approach Slabs

43 44

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6-02.3(10)D.GR6

Concrete Placement, Finishing, and Texturing

45 46 47

6-02.3(10)D.INST1.GR6

Section 6-02.3(10)D is supplemented with the following:

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1 6-02.3(10)D.OPT1.GB6 2 (August 4, 2008) 3 Repairing Slab Left Exposed After Removing Existing Curb or Sidewalk 4 The concrete exposed by the removal of the existing curb or sidewalk shall be 5 removed to a depth of 1-inch below finished grade or to the top of the existing 6 roadway deck steel reinforcing bars, whichever is less. The Contractor shall not 7 remove concrete below the top of the existing steel reinforcing bars. The 8 Contractor shall not damage the bond between the existing steel reinforcing bars 9 and the concrete. 10 11 After roughening, cleaning and wetting the surface in accordance with Section 12 6-02.3(12), the Contractor shall place concrete over the surface to the finish 13 grade of the adjacent concrete roadway deck using a modified Class 4000 concrete mix. The maximum aggregate size in the modified Class 4000 14 15 concrete mix shall be 3/8 inch. The finished portion of the deck shall have the 16 same texture, slope and grade as that of the existing deck. 17 18 6-02.3(10)D.OPT2.GB6 19 (August 4, 2008 20 Repairing Slab Left Exposed After Removing Existing Curb and Railbase 21 After roughening and cleaning the concrete exposed by the removal of the 22 existing curb and railbase, that portion of the exposed surface not covered by 23 the new traffic barrier shall be coated with epoxy mortar and finished to have the 24 same texture, slope and grade as that of the existing deck. 25 26 6-02.3(10)D.OPT3.GB6 27 (August 3, 2015) 28 **Bridge Drain Risers** 29 The Contractor shall submit a Type 2 Working Drawing consisting of the method 30 of removing the bridge drain grate nipple extrusion, the method of grinding the existing curb as necessary for bridge drain riser installation, and the method of 31 32 cleaning the existing drain casting surfaces in contact with the drain risers. The 33 shop drawings and weld procedures for the drain riser assemblies shall be 34 submitted in accordance with Sections 6-03.3(7) and 6-03.3(25). 35 36 The existing bridge drain grate bolt, debris from removing the nipple extrusion 37 and cleaning the drain casting contact surfaces, and all debris in the bridge drain 38 cavity, shall be disposed of in accordance with Section 2-02.3. 39 40 After cleaning the bridge drain casting contact surfaces, the Contractor shall 41 install the spacer bars and riser bars of the bridge drain riser assembly as shown 42 in the Plans. 43 44 All exposed surfaces of the spacer bars and riser bars following installation shall 45 be painted with two coats of paint conforming to Section 9-08.1(2)F. Each coat 46 shall have a minimum dry film thickness of two mils. 47 48 6-02.3(10)D.OPT3(A).GB6 49 (August 4, 2008) 50 A minimum of four slotted holes, each 2 inches long and 3/4 inches high, shall 51 be provided on each bridge drain riser. The slotted holes shall be located at the 52 bottom of the riser, two on the traffic side of the assembly and one each on the

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short ends of the assembly. Risers shall be installed to be flush with the proposed roadway profile and shall maintain uniform contact with the existing drain. This portion of work shall be completed prior to the installation of the membrane waterproofing.

The membrane waterproofing shall extend to the bottom of and all around the bridge drain riser, except that the Contractor shall ensure that the slotted holes of the bridge drain riser assembly remain open and unplugged by the membrane waterproofing. Water seeping under the overlay shall be allowed to drain through the slotted holes and into the bridge drains.

After all the items of work on this project have been completed, the Contractor shall clean and flush all the bridge drains.

6-02.3(10)D.OPT5.GB6

(August 3, 2015)

Plugging Existing Bridge Drain

The Contractor shall submit a Type 2 Working Drawing consisting of the method and materials used to plug the existing bridge drains specified in the Plans to be plugged. The submittal shall include the following:

- 1. Material used to plug the drain outlet, and method of securing the plug in position.
- 2. The type of concrete material used to fill the drain cavity.
- 3. The method used to remove the exposed drainpipe, if removal is specified in the Plans.

All cut, damaged, and exposed metal surfaces to remain, including the drain outlet plug if metal components are used, shall be painted with two coats of paint conforming to Section 9-08.1(2)F. Each coat shall have a minimum dry film thickness of two mils.

When the removal of exposed drainpipe is specified in the Plans, the Contractor shall remove the embedded anchors a minimum of one inch beneath the existing concrete surface. The void left by removal of the embedded anchors shall be filled with mortar conforming to Section 9-20.4(2). The mortar shall match the color of the existing concrete surface as near as practicable.

All materials removed from the bridge drains specified in the Plans to be plugged shall be disposed of as specified in Section 2-02.3.

6-02.3(10)D.OPT12.GB6

(April 6, 2015)

Core Drilled Bridge Deck Drain

The Contractor shall core drill drain holes through the bridge deck of the bridges and in the locations shown in the Plans. The Contractor shall grind the concrete bridge deck to provide a taper at the top of the cored hole if shown in the Plans. The Contractor shall contain, collect and dispose of the concrete cores and debris in accordance with Section 2-02.3.

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1 2 3 4 5	The Contractor shall coat the surfaces of the cored holes with epoxy bonding agent, and shall set a bridge deck drain pipe sleeve in place as shown in the Plans. The Contractor shall ensure that the void between the cored hole surface and the outside of the pipe sleeve is completely filled with epoxy bonding agent. The Contractor shall take appropriate measures to prevent the epoxy bonding agent from according from the void and shall account the pipe sleeve in position
6 7	agent from escaping from the void and shall secure the pipe sleeve in position until the epoxy bonding agent is cured.
8 9	6-02.3(10)F.GR6
10	Bridge Approach Slab Orientation and Anchors
11	3
12	6-02.3(10)F.INST1.GR6
13	Section 6-02.3(10)F is supplemented with the following:
14	
15	6-02.3(10)F.OPT2.GB6
16	(August 4, 2008)
17	The pavement end of the bridge approach slab shall be constructed parallel to
18	the pavement seat.
19 20	6-02.3(10)F.OPT3.FB6
21	(August 4, 2008)
22	The pavement end of the bridge approach slab shall be constructed parallel to
23	the pavement seat for bridge(s) No. *** \$\$1\$\$ ***. The pavement end of the
24	bridge approach slab shall be constructed normal to the roadway center line for
25	bridge(s) No. *** \$\$2\$\$ ***.
26	
27	6-02.3(13).GR6
28	Expansion Joints
29	
30	6-02.3(13).INST1.GR6
31 32	Section 6-02.3(13) is supplemented with the following:
33	6-02.3(13).OPT7.GB6
34	Expansion Joint Modification
35	
36	6-02.3(13).OPT7(B).GB6
37	(April 6, 2015)
38	Expansion Joint Demolition Plan
39	The Contractor shall submit Type 2 Working Drawings showing the method of
40	removing the specified portions of the existing bridge expansion joints. The
41	Working Drawings shall show the sequence of demolition and removal, the type
42	of equipment to be used in all demolition and removal operations, and details of
43	the methods and equipment used for containment, collection, and disposal of all
44	debris. The Working Drawings shall show all stages of demolition.
45	0.00.0(40) ODTT(O) OD0
46	6-02.3(13).OPT7(C).GB6
47 40	(April 6, 2015)
48 49	Joint Preparation and Installation Procedure The Contractor shall submit a Type 1 Working Drawing consisting of the sealant
49 50	manufacturer's recommended joint preparation and installation procedure.

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Field Measuring Existing Bridge Expansion Joints The Contractor shall field measure the following dimensions of the exis bridge expansion joints of Bridge No(s). *** \$\$1\$\$ ***: 1. Length along the roadway surface and the horizontal and vertical surfaces of the concrete curb. 2. Opening width at both curb lines and at the centerline of the roadw surface. The Contractor shall submit a Type 1 Working Drawing consisting of the measured dimensions. 6-02.3(13).OPT7(E).FB6 (April 6, 2015) Removing Portions of Existing Bridge Expansion Joints The Contractor shall remove all concrete, expansion joint materials, overlay, and debris at the bridge expansion joints of Bridge No(s). *** \$\$1\$\$ *** with the blockout dimensions shown in the Plans. Concrete removal shall conform to Section 2-02.3(2)A2 and the follow restriction on power driven tools: 1. Jack hammers no heavier than the nominal 30 pound class. No other power driven equipment shall be used to remove concrete in the vice of the bridge expansion joints. The power driven tools shall be operated angles less than 45 degrees as measured from the surface of the deck to tool. The Contractor shall dispose of all materials removed from the bridge expansion joints in accordance with Section 2-02.3. For polyester concrete headers, or elastomeric concrete headers, the Contra shall clean and prepare all existing concrete surfaces bonding to the header accordance with the <i>Polyester Concrete</i> or <i>Elastomeric Concrete</i> subsect respectively, to Section 6-02.3 as supplemented in these Special Provisic Forester and the provisic forester and
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The Contractor shall submit a Type 1 Working Drawing consisting of the 1 measured dimensions. 6-02.3(13).OPT7(E).FB6 (April 6, 2015) Removing Portions of Existing Bridge Expansion Joints The Contractor shall remove all concrete, expansion joint materials, overlay, and debris at the bridge expansion joints of Bridge No(s). *** \$\$1\$\$ *** with the blockout dimensions shown in the Plans. Concrete removal shall conform to Section 2-02.3(2)A2 and the follow restriction on power driven tools: 1. Jack hammers no heavier than the nominal 30 pound class. 2. Chipping hammers no heavier than the nominal 15 pound class. No other power driven equipment shall be used to remove concrete in the vicing of the bridge expansion joints. The power driven tools shall be operated angles less than 45 degrees as measured from the surface of the deck to tool. The Contractor shall dispose of all materials removed from the bridge expansion joints in accordance with Section 2-02.3. For polyester concrete headers, or elastomeric concrete headers, the Contrast shall clean and prepare all existing concrete surfaces bonding to the headed accordance with the <i>Polyester Concrete</i> or <i>Elastomeric Concrete</i> subsect respectively, to Section 6-02.3 as supplemented in these Special Provision
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10 For concrete bonders the Contractor shall clean and present all suits
For concrete headers, the Contractor shall clean and prepare all exis
43 concrete surfaces bonding to the header in accordance with Section
44 02.3(12)B.
45
46 6-02.3(13).OPT7(F).GB6
47 (April 6, 2015)
48 Drilling Holes and Setting Steel Reinforcing Bars
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The Contractor shall drill holes for, and set, steel reinforcing bars into the exist

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6-02.3(13).OPT7(G).GB6

(April 6, 2015)

Placing Polyester Concrete or Elastomeric Concrete Headers

The Contractor shall form the polyester concrete or the elastomeric concrete headers in accordance with either the *Polyester Concrete* or the *Elastomeric* Concrete subsection to Section 6-02.3 as supplemented in these Special Provisions. The Contractor shall remove all forms from the bridge expansion joints after casting and curing the polyester concrete or the elastomeric concrete headers.

6-02.3(13).OPT7(H).GB6

(September 8, 2020)

Placing Concrete Headers

The Contractor shall form, cast, and cure, the concrete headers in accordance with Section 6-02.3 and as shown in the Plans. Unless the Plans or Special Provisions specify a different strength, the concrete headers shall have attained a minimum compressive strength of 2,500 psi before the Contractor may allow traffic to pass across the expansion joint.

6-02.3(13).OPT7(I).GB6

(September 8, 2020)

Placing Expansion Joint Sealant

The Contractor shall have the services of a qualified sealant manufacturer's technical representative physically present at the job site to assist in assuring the proper installation of the rapid cure silicone sealant, provide technical assistance for the use of the joint sealant, train the Contractor's personnel installing the joint sealant, and to observe and inspect the installation of at least the first complete joint.

The joint sealant shall not be placed against concrete until at least seven days after concrete placement. The joint sealant shall not be placed against polyester concrete or elastomeric concrete until a time period recommended by the sealant manufacturer.

34

The Contractor shall clean the bridge expansion joints of all forms, dirt, form oil, grease, and other deleterious material. The Contractor shall clean and prepare the entire joint surface receiving the joint sealant in accordance with the manufacturer's joint preparation procedure, and as recommended by the sealant manufacturer's technical representative, including two stage abrasive blasting surface preparation and compressed air cleaning. All steel surfaces to be in contact with the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint receiving the sealant shall be sound, clean, dry, and frost free.

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After the cleaned and prepared joint has received the Engineer's acceptance for joint dimensions, alignment, and preparation, the Contractor shall apply the primer, as recommended by the sealant manufacturer, to all surfaces to be in contact with the joint sealant. The primer shall dry and cure for the time period recommended by the sealant manufacturer for the surface type.

48 49 50

After the primer is cured, the Contractor shall place the backer rod, and place the rapid cure silicone sealant in accordance with the joint installation procedure.

51 52

If the joint width at the time of installation is less than 1-inch or greater than three inches, the Contractor shall not proceed with the expansion joint modification until the installation procedure is revised as recommended by the sealant manufacturer's technical representative.

After installing the rapid cure silicone sealant, the Contractor shall flood the joint

area with water. If leakage is detected, the bridge expansion joint system shall be repaired by the Contractor, as recommended by the sealant manufacturer.

6-02.3(13).OPT7(J).GB6

(September 8, 2020)

Placing Expansion Joint Sealant

The Contractor shall have the services of a qualified sealant manufacturer's technical representative physically present at the job site to assist in assuring the proper installation of the rapid cure silicone sealant, provide technical assistance for the use of the joint sealant, train the Contractor's personnel installing the joint sealant, and to observe and inspect the installation of at least the first complete joint.

Prior to scarifying the concrete deck for the modified concrete overlay, the Contractor shall remove all expansion joint materials and debris from the existing expansion joints, and shall dispose of these materials and debris as specified in Section 2-02.3.

Prior to placing the modified concrete overlay, the Contractor shall install a temporary form as shown in the Plans to fill the expansion joint gap. The temporary form shall preserve the expansion joint gap during the modified concrete overlay placement, and shall not damage the joint or the concrete overlay upon removal. The Contractor shall submit Type 2 Working Drawing consisting of the type of temporary form material, and the method of installation and removal.

The joint sealant shall not be placed against concrete (including concrete overlay except for polyester concrete overlay) until at least seven days after concrete placement.

After placing the modified concrete overlay and rounding the corner of the overlay at the joints with a 3/8 inch radius, the Contractor shall clean the bridge expansion joints of all temporary forms, dirt, form oil, grease, and other deleterious material. The Contractor shall clean and prepare the entire joint surface receiving the joint sealant in accordance with the manufacturer's joint preparation procedure, and as recommended by the sealant manufacturer's technical representative, including two stage abrasive blasting surface preparation and compressed air cleaning. All steel surfaces to be in contact with the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint receiving the sealant shall be sound, clean, dry, and frost free.

After the cleaned and prepared joint has received the Engineer's acceptance for joint dimensions, alignment, and preparation, the Contractor shall apply the primer, as recommended by the sealant manufacturer, to all surfaces to be in contact with the joint sealant. The primer shall dry and cure for the time period recommended by the sealant manufacturer for the surface type.

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1 2 After the primer is cured, the Contractor shall place the backer rod, and place 3 the rapid cure silicone sealant in accordance with the joint installation procedure. 4 5 If the joint width at the time of installation is less than 1-inch or greater than three 6 inches, the Contractor shall not proceed with the expansion joint modification 7 until the installation procedure is revised as recommended by the sealant 8 manufacturer's technical representative and as approved by the Engineer. 9 10 After installing the rapid cure silicone sealant, the Contractor shall flood the joint area with water. If leakage is detected, the bridge expansion joint system shall 11 12 be repaired by the Contractor, as recommended by the sealant manufacturer. 13 14 6-02.3(13)C.GR6 15 **Modular Expansion Joint System** 16 17 6-02.3(13)C.INST1.GR6 18 Section 6-02.3(13)C is supplemented with the following: 19 20 6-02.3(13)C.OPT1.FB6 21 (September 8, 2020) 22 **Acceptable Manufacturers** 23 The following manufacturers are known to have pregualified modular expansion 24 joint system details by successfully completing fatigue testing in accordance with 25 Section 6-02.3(13)C: 26 27 The D.S. Brown Company 28 P.O. Box 158 29 300 E. Cherry Street North Baltimore, Ohio 45872-0158 30 31 Tel. (419) 257-3561 32 Fax (419) 257-2200 33 www.dsbrown.com 34 35 Watson Bowman ACME Corporation 36 95 Pineview Drive 37 Amherst, New York 14228-2166 38 Tel. (716) 691-7566 39 Fax (716) 691-9239 40 www.wbacorp.com 41 42 Mageba USA, LLC 43 575 Lexington Ave FI-4 44 New York, New York 10022-6146 45 Tel. (212) 644-3335 46 Fax (212) 644-3339 47 www.magebausa.com 48 49 **Design Axle Loads and Impact Factors** 50 The vertical load range for fatigue design shall be a 32.0 kip tandem. This 51 tandem shall be taken as two 16.0 kip axles spaced four feet apart. Only one of

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November 20, 2023 Page 32

these tandem axles must be considered in the design, unless the joint opening

exceeds four feet. The load range shall be increased by the dynamic load allowance (Impact Factor) of 75%. Load factors shall be applied in accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and latest interims.

The vertical load for strength design shall be a 50.0 kip tandem. This tandem shall be taken as two 25.0 kip axles spaced four feet apart. Only one of these tandem axles must be considered in the design, unless the joint opening exceeds four feet. This load shall be increased by the dynamic load allowance (Impact Factor) of 75%. Load factors shall be applied in accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and latest interims.

The horizontal load range for fatigue design shall be *** \$\$1\$\$ *** percent of the amplified vertical load range (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load range (LL+IM) specified above shall be added to this horizontal load range.

The horizontal load for strength design shall be 20 percent of the amplified vertical load (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load (LL+IM) specified above shall be added to this horizontal load.

Fatigue Testing Laboratory

The following facilities are known to be capable of performing the fatigue testing specified in Section 6-02.3(13)C:

Structural Engineering Testing Laboratory (SETL)
 University of Washington
 Seattle, WA
 SETL Director:

Dr. Dawn Lehman: (206) 715-2108

SETL Manager

Vince Chaijaroen: (206) 543-7433

2. Bowen Laborabory

Purdue University

West Lafayette, IN Director of Bowen Laboratory:

Dr. Amit Varma: (765) 496-3419

ATI CC Engineering Decemb Conte

3. ATLSS Engineering Research Center

Lehigh University Bethlehem, PA

ATLSS Engineering Research Center Director:

Dr. Richard Sause: (610) 758-3565

ATLSS Engineering Research Center Administrative Director:

Dr. Chad Kusco: (610) 758-5299

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1	6-02.3(14).GR6
2	Finishing Concrete Surfaces
3	
4	6-02.3(14)C.GR6
5	Pigmented Sealer for Concrete Surfaces
6	· · · · · · · · · · · · · · · · · · ·
7	6-02.3(14)C.INST1.GR6
8	Section 6-02.3(14)C is supplemented with the following:
9	(/ 11
10	6-02.3(14)C.OPT1.GB6
11	(April 6, 2009)
12	The color of the pigmented sealer shall be Washington Gray.
13	
14	6-02.3(14)C.OPT2.GB6
15	(April 6, 2009)
16	The color of the pigmented sealer shall be Mt. St. Helens Gray.
17	, , , , , , , , , , , , , , , , , , ,
18	6-02.3(14)C.OPT3.GB6
19	(April 6, 2009)
20	The color of the pigmented sealer shall be Mt. Baker Gray.
21	
22	6-02.3(14)C.OPT4.GB6
23	(April 6, 2009)
24	The color of the pigmented sealer shall be Cascade Green.
25	
26	6-02.3(14)C.OPT5.FB6
27	(April 6, 2009)
28	The color for the following structure feature(s) shall match the specified color(s):
29	
30	Structure and Feature Pigmented Sealer Color
31	*** \$\$1\$\$ ***
32	
33	6-02.3(17).GR6
34	Falsework and Formwork
35	
36	6-02.3(17)C.GR6
37	Falsework and Formwork at Special Locations
38	
39	6-02.3(17)C.INST1.GR6
40	Section 6-02.3(17)C is supplemented with the following:
41	
42	6-02.3(17)C.OPT1.FB6
43	(October 3, 2022)
44	Falsework opening over railroad tracks shall be approved by the Railroad
45	Company in accordance with Section 1-07.28 and the Special Provisions. The
46	Contractor shall notify the Railroad Company at least *** \$\$1\$\$ *** working days
47	prior to erecting falsework over a track, and shall include the dimensions of the
48	opening and the duration of the restricted clearance in the submittal.
49	
50	6-02.3(17)K.GR6
51	Concrete Forms on Steel Spans

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6-02.3(17)K.INST1.GR6

The first paragraph of Section 6-02.3(17)K is revised to read as follows:

6-02.3(17)K.OPT1.GB6

(August 3, 2015)

Except as otherwise specified, concrete forms on all steel structures shall be removable and shall not remain in place. Where needed, the forms shall have openings for truss or girder members. Each opening shall be large enough to leave at least 1-1/2 inches between the concrete and steel on all sides of the steel member after the forms have been removed. Unit contract prices cover all costs related to these openings.

Permanent metal forms may be used to form that portion of the concrete slab inside the webs of the steel box girders, subject to the following requirements:

 Metal forms shall be 18 gage minimum thickness, zinc coated, steel sheet conforming to ASTM A 653 Coating Designation G 210. All accessories shall conform to ASTM A 36 or Section 9-06.1 with a zinc coating of 2.0 ounces per square foot.

2. Forms shall be designed by the Contractor to support the plastic concrete, metal forms, steel reinforcing bars, and a construction live load of 60 pounds per square foot. Deflection of the metal form shall not exceed 1/360 of the span. Camber of the metal form shall not exceed the anticipated deflection. The working unit stress shall not exceed 0.725 of the specified yield strength of the metal form material.

3. The metal forms shall provide for the full depth of the deck slab above the uppermost portions of the form. Bottom transverse steel reinforcing bars of the deck slab shall be at least 1 inch clear of the metal forms at all points. Forms or supports shall not be welded to girder flanges.

4. The bridge deck concrete shall be placed continuously between the transverse construction joints shown in the Plans, except in an emergency when the Engineer authorizes an interruption in the concrete placement. In such an emergency, the Contractor shall construct a transverse joint at the bottom of a flute and shall field drill 1/4 inch weep holes through the metal form at 12 inch centers along the line of the joint.

 All zinc coating on exposed metal form damaged or removed during construction shall be repaired with one coat of paint conforming to Section 9-08.1(2)B, two mils minimum dry film thickness.

6. Should the Engineer determine that inspection of the underside of the hardened slab is warranted, the Contractor shall remove at least one section of metal form in each span at no extra cost to the Contracting Agency. If excessive honeycomb or other defects are found, the Contractor shall, if required by the Engineer, remove additional form sections at no additional expense to the Contracting Agency, and

General Special Provisions Division 6-02

shall revise concrete placing methods as required to produce sound concrete. All unacceptable concrete shall be removed or repaired.

- Complete layout, details, and a description of materials, for the permanent metal forms shall be included in the Contractor's falsework and formwork submittal as specified in Section 6-02.3(16).
- 8. No adjustment will be made to the lump sum contract price for "Bridge Deck - ____" for additional quantities of materials required because of the use of the permanent forms.

6-02.3(18).GR6

Placing Anchor Bolts

6-02.3(18).INST1.GR6

Section 6-02.3(18) is supplemented with the following:

6-02.3(18).OPT1.GR6

(January 3, 2011)

Resin Bonded Anchors

The embedment depth of the anchors shall be as specified in the Plans. If the embedment depth of the anchor is not specified in the Plans then the embedment depth shall be as specified in the table of minimum and maximum torque below.

The anchors shall be installed in accordance with the resin manufacturer's written procedure.

Holes shall be drilled as specified in the Plans. Holes may be drilled with a rotary hammer drill when core drilling is not specified in the Plans. If holes are core drilled, the sides of the holes shall be roughened with a rotary hammer drill after core drilling.

Holes shall be prepared in accordance with the resin manufacturer's recommendations and shall meet the minimum requirements as specified herein. Holes drilled into concrete shall be thoroughly cleaned of debris, dust, and laitance prior to installing the threaded rod and resin bonding material. Holes shall not have any standing liquid at the time of installation of the threaded anchor rod

The anchor nuts shall be tightened to the following torques when the embedment equals or exceeds the minimum embedment specified.

Anchor	Minimum	Maximum	Minimum
Diameter	Torque	Torque	Embedment
(inch)	(ft-lbs)	(ft-lbs)	(Inch)
3/8	12	18	3-3/8
1/2	22	35	4-1/2
5/8	55	80	5-5/8
3/4	106	140	6-3/4
7/8	165	190	7-7/8
4	195	225	9

General Special Provisions Division 6-02

1 2

When the anchor embedment depth is less than the minimum values specified, the anchor nuts shall be tightened to the torque values specified in the Plans, or as recommended by the resin bonded anchor system manufacturer and approved by the Engineer.

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6-02.3(24).GR6

Reinforcement

9 10 11

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6-02.3(24)C.GR6

12

Placing and Fastening

13

6-02.3(24)C.INST1.GR6

14

Section 6-02.3(24)C is supplemented with the following:

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6-02.3(24)C.OPT1.GB6

16 17

(September 8, 2020)

18 19 20

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Drilling Holes for, and Setting, Steel Reinforcing Bar Dowels

Where called for in the Plans, holes shall be drilled into existing concrete to the size and dimension shown in the Plans. The Contractor may use any method for drilling the holes provided the method selected does not damage the concrete and the steel reinforcing bar that is to remain. Core drilling will be required when specifically noted in the Plans.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. Location of the holes may be shifted slightly with the acceptance of the Engineer in order to avoid damaging the existing steel reinforcing bars. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

30 31

Steel reinforcing bars shall be set into the holes noted in the Plans with epoxy resin. The holes shall be cleaned before placing the resin.

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The Contractor shall demonstrate, to the satisfaction of the Engineer, that the method used for setting the steel reinforcing bars completely fills the void between the steel reinforcing bar and the concrete with epoxy resin. Dams shall be placed at the front of the holes to confine the epoxy and shall not be removed until the epoxy has cured in the hole.

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6-02.3(25).GR6

Prestressed Concrete Girders

42 43 44

6-02.3(25)L.GR6

45

Handling and Storage

46 47

6-02.3(25)L2.GR6

48 49 Girder Lateral Stability and Stress Analysis

General Special Provisions Division 6-02

1 6-02.3(25)L2.INST1.GR6 2 The table in 3 to read: 4

5

6

The table in Item No. 4 in the first paragraph of Section 6-02.3(25)L2 is revised to read:

6-02.3(25)L2.OPT1.2025.GR6

(November 20, 2023)

November 20, 2023)			
Condition	<u>Stress</u>	<u>Location</u>	Allowable Stress (ksi)
	Tonsilo	In areas without bonded reinforcement sufficient to resist the tensile force in the concrete	$0.0948\lambda \sqrt{f'_{ci}} \le 0.2$
	<u>Tensile</u>	In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$0.24\lambda\sqrt{f_{ci}'}$
Temporary Stress at Transfer and Lifting from	Compressive	All locations (except as noted) At section extremities (i.e., flange tips) when lateral bending is explicitly considered	0.7 <i>f'</i> _{ci}
<u>Casting</u> <u>Bed</u>	<u>Tensile</u>	In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$0.24\lambda\sqrt{f_{ci}'}$
	Compressive	All locations (except as noted) At section extremities (i.e., flange tips) when lateral bending is explicitly considered	0.7 <i>f'</i> _{ci}
Final	<u>Tensile</u>	Precompressed tensile zone	0.0
Stresses at Service		Effective prestress and permanent loads	$0.45f_c'$
Load	Compressive	Effective prestress, permanent loads and transient (live) loads	$\frac{0.60f_c'}{}$
Final Stresses at Fatigue Load	Compressive	Fatigue I Load Combination plus one-half effective prestress and permanent loads	$0.40f_c'$

7 8 6-02.3(26).GR6 9 **Cast-in-Pl**

Cast-in-Place Prestressed Concrete

10 11

6-02.3(26).INST1.GR6

The third paragraph of Section 6-02.3(26) is revised to read as follows:

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6-02.3(26).OPT1.GB6

(January 4, 2010)

Before tensioning, the Contractor shall remove all side forms from the girders. The Contractor shall not release the falsework supporting the superstructure, and shall not place construction loads and other live loads on the superstructure, until the job-cured 2-inch grout cubes, fabricated in accordance with WSDOT TM 813, reach a minimum compressive strength of 800 psi in accordance with WSDOT FOP for AASHTO T 106.

General Special Provisions Division 6-02

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1
 2
     6-02.4.GR6
 3
      Measurement
 4
 5
     6-02.4.INST1.GR6
 6
      Section 6-02.4 is supplemented with the following:
 7
 8
     6-02.4.OPT1.FB6
 9
          (September 8, 2020)
10
          *** $$1$$ *** contains the following approximate quantities of materials and work:
11
              *** $$2$$ ***
12
13
14
          The quantities are listed only for the convenience of the Contractor in determining the
15
          volume of work involved and are not quaranteed to be accurate. The prospective bidders
          shall verify these quantities before submitting a bid. No adjustments other than for
16
          accepted changes will be made in the lump sum Contract price for *** $$3$$ *** even
17
18
          though the actual quantities required may deviate from those listed.
19
20
     6-02.4.OPT3.FB6
21
          (September 8, 2020)
22
          "Modular Expansion Joint System" contains the following approximate quantities of
23
          materials and work:
24
25
              *** $$1$$ ***
26
27
          The quantities are listed only for the convenience of the Contractor in determining the
28
          volume of work involved and are not guaranteed to be accurate. The prospective bidders
29
          shall verify these quantities before submitting a bid. No adjustments other than for
30
          accepted changes will be made in the applicable modular expansion joint system lump
31
          sum Contract price for "Modular Expansion Joint System" even though the actual
32
          quantities required may deviate from those listed.
33
34
     6-02.4.OPT8.FB6
35
          (September 8, 2020)
36
          Expansion joint modification contains the following approximate quantities of materials
37
          and work:
38
              *** $$1$$ ***
39
40
41
          The quantities are listed only for the convenience of the Contractor in determining the
42
          volume of work involved and are not guaranteed to be accurate. The prospective bidders
43
          shall verify these quantities before submitting a bid. No adjustments other than for
44
          accepted changes will be made in the lump sum Contract price for "Expansion Joint
45
          Modification " even though the actual quantities required may deviate from those
46
          listed.
47
48
     6-02.4.OPT24.GB6
49
          (August 6, 2012)
50
          Epoxy crack sealing will be measured by the linear foot along the sealed crack at the
51
          concrete surface.
```

52

1 2 3	6-02.4.OPT26.GB6 (June 26, 2000) Modify bridge drain will be measured per each for each bridge drain modified.
4 5 6 7	6-02.4.OPT27.GB6 (June 26, 2000) Plugging existing bridge drain will be measured per each for each bridge drain plugged.
8 9 10 11 12 13	6-02.4.OPT32.GB6 (April 6, 2015) Core drilled bridge deck drain will be measured per each for each bridge deck drain core drilled and completed with a PVC pipe sleeve.
14 15 16 17	6-02.4.OPT43.GB6 (April 6, 2015) Longitudinal seismic restrainer will be measured per each.
18 19 20 21	6-02.4.OPT44.FB6 (September 8, 2020) Seismic retrofit contains the following approximate quantities of materials and work:
22 23 24	*** \$\$1\$\$ *** The quantities are listed only for the convenience of the Contractor in determining the
25 26 27 28 29	volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the lump sum Contract price for "Seismic Retrofit" even though the actual quantities required may deviate from those listed.
30 31 32	6-02.4.OPT45.FB6 (September 8, 2020) Column jacketing contains the following approximate quantities of materials and work:
33 34 35	*** \$\$1\$\$ ***
36 37 38 39 40 41	The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted hanges will be made in the lump sum Contract price for "Column Jacketing - " even though the actual quantities required may deviate from those listed.
42	6-02.5.GR6
43 44	Payment
45 46 47	6-02.5.INST3.GR6 The fifth and sixth bid items under Section 6-02.5 are supplemented with the following:
48 49 50 51 52	6-02.5.OPT20.GB6 (April 6, 2015) The contract quantity specified for "Steel Reinf. Bar for Bridge" includes the quantity for the epoxy-coated steel reinforcing bars located in the substructure of the bridge(s) included in this project.

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1
 2
      6-02.5.INST4.GR6
 3
      Section 6-02.5 is supplemented with the following:
 4
 5
      6-02.5.OPT26.FB6
 6
          (August 2, 2010)
 7
          "Bridge Deck - ", lump sum.
          The lump sum contract price for "Bridge Deck - _____" shall be full pay for constructing
 8
 9
          the reinforced concrete portions of the steel bridge superstructure, including *** $$1$$
10
11
12
      6-02.5.OPT33.GB6
13
          (April 6, 2015)
          "Expansion Joint Modification", lump sum.
14
15
16
      6-02.5.OPT49.GB6
17
          (August 1, 2011)
18
          "Epoxy Crack Sealing", per linear foot.
19
20
          Payment for taking and submitting cores to the Engineer for testing, as specified by the
21
          Engineer, will be by force account in accordance with Section 1-09.6. For the purpose of
22
          providing a common Proposal for all Bidders, the Contracting Agency has entered an
23
          amount for the item "Force Account Epoxy Crack Sealing Cores" in the bid proposal to
24
          become a part of the total bid by the Contractor.
25
26
      6-02.5.OPT51.GB6
27
          (June 26, 2000)
28
          "Modify Bridge Drain", per each.
29
30
      6-02.5.OPT52.GB6
          (June 26, 2000)
31
32
          "Plugging Existing Bridge Drain", per each.
33
34
      6-02.5.OPT53.FB6
35
          (June 26, 2000)
          All costs in connection with *** $$1$$ *** bridge drains as specified shall be included in
36
37
          the unit contract price per square yard for *** $$2$$ ***.
38
39
      6-02.5.OPT58.GB6
40
          (April 6, 2015)
41
          "Core Drilled Bridge Deck Drain", per each.
42
43
      6-02.5.OPT59.FB6
44
          (April 6, 2015)
45
          All costs in connection with constructing the core drilled bridge deck drains as specified
46
          shall be included in the ***$$1$$***.
47
48
      6-02.5.OPT71.GB6
49
          (April 6, 2015)
50
          "Longitudinal Seismic Restrainer", per each.
```

51

```
1
      6-02.5.OPT72.GB6
 2
          (April 6, 2015)
          "Seismic Retrofit - ", lump sum.
 3
 4
 5
      6-02.5.OPT73.GB6
 6
          (April 6, 2015)
          "Column Jacketing - _____", lump sum.
 7
 8
 9
      6-02.5.OPT91.FB6
10
          (June 26, 2000)
          Bridge and Structures Minor Items
11
12
          For the purpose of payment, such bridge and structures items as *** $$1$$ *** etc., for
          which there is no pay item included in the proposal, are considered as bridge and
13
14
          structures minor items. All costs in connection with furnishing and installing these bridge
15
          and structures minor items as shown and noted in the Plans and as outlined in these
          specifications and in the Standard Specifications shall be included in the *** $$2$$ ***
16
17
      6-02.5.OPT92.FB6
18
19
          (June 26, 2000)
20
          Bridge Supported Utilities
          All costs in connection with placing *** $$1$$ *** through the superstructure of *** $$2$$
21
22
          *** as shown in the Plans, including all *** $$3$$ ***, shall be included in the *** $$4$$.
23
24
25
      6-02.5.OPT93.GB6
26
```

(June 26, 2000)

27

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30 31

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No additional compensation will be made by reason of any delay or other expense to the Contractor caused by coordination with the utility company or by installing utility company furnished items. However, any unavoidable delays to the Contractor caused by coordination with the utility company or resulting from installing utility company furnished items will be adjusted in accordance with Section 1-08.8.

General Special Provisions Division 6-02

Page 42 November 20, 2023

1	6-06.GR6		
2	Bridge Railings		
3			
4	6-06.2.GR6		
5	Materials		
6			
7	6-06.2.INST1.GR6		
8	Section 6-06.2 is supplemented with the following:		
9	2		
10	6-06.2.OPT1.GB6		
11	(January 5, 2004 November 20, 2023)		
12	Chain link fence fabric shall conform to the S	ection 9-16.1(1)B requirements for Type 1	
13	fence.		
14			
15	Fittings, fabric bands, stretcher bars, tie wire,	and other fence hardware, shall conform to	
16	Section 9-16.1.	and care remot hardrane, enam comern to	
17			
18	Pipe for posts and longitudinal members shal	I conform to ASTM A 53. Grade B. Type E	
19	or S, galvanized, and shall be Schedule 40 unless otherwise shown in the Plans.		
20	or o, garvariizoa, arra orian do corrodato ro arr		
21	Steel bars, plates, and shapes shall conform t	o ASTM A 36A36, and shall be galvanized	
22	in accordance with AASHTO M 111, except that structural shapes may conform to ASTM		
23	A 992A992.	,,,,	
24			
25	Bolts, nuts, and washers shall conform to Secti	on 9-06.5(3), and shall be galvanized after	
26	fabrication in accordance with AASHTO M 232		
27			
28	Resin bonded anchors shall conform to Sectio	n 6-02.2 as supplemented in these Special	
29	Provisions3(18)A and 9-06.4.	• • <u>• • • • • • • • • • • • • • • • </u>	
30	<u> </u>		
31	6-06.2.OPT2.GB6		
32	(March 6, 2000)		
33	Epoxy resin shall conform to Section 9-26.1.		
34	1 ,		
35	6-06.2.OPT7.GB6		
36	(April 6, 2015)		
37	Tamper Proof Nuts for steel Bridge Rail	ling Type BP	
38	Tamper proof nuts for steel Bridge Railing Typ	<u> </u>	
39	from one of the following manufacturers:	e bi shall be one of the following products	
40	nom one of the following manufacturers.		
41	Vandlgard-Nut VCN151-6 (zinc)		
42	Manufactured by	Local Supplier	
43	Simi Fastening Systems	Northwest Fasteners Inc.	
44	4615 Industrial St. Bldg. No. 1-P	15127 Washington Avenue SW	
45	Simi Valley, CA 93063	Lakewood, WA 98498	
46	(800) 959-8256	(253) 582-1671	
47	FAX (805) 581-9162	FAX (253) 581-3131	
48	www.simifast.com	17X (200) 301-3131	
49	www.similast.com		
50	Trigroove Nut ZTRN37C (Zamak 5 zinc a	llov AC41A)	
51	Breakaway Nut ZNB37C (Zamak 5 zinc a	· ·	
52	Manufactured by	Local Supplier	
J_	Manacalca by	Local Ouppliol	

1 2	Screw & Supply Inc. 1712 Church Street	Tacoma Screw Products Inc. 2001 Center Street
3	Holbrook, NY 11741	Tacoma, WA 98409
4	(800) 223-1316	(800) 562-8192
5	FAX (631) 567-3057	FAX (253) 272-2719
6	www.screwsupply.com	1 AX (200) 212-21 19
7	www.screwsuppry.com	
8	Spanner Nut 1N.386 (zinc alloy)	
9	•	
10	Manufactured by	
11	TamperProof Screw Company Inc. 30 Laurel Street	
12		
13	Hicksville, NY 11801 (516) 931-1616	
14	, ,	
15	FAX (516) 931-1654	
16	www.tamperproof.com	
17	Trident Temper Posistant Nut 27CNT	NZ (Zamak 5 zina allay AC41A)
18	Trident Tamper Resistant Nut 37CNT	` '
19	Breakaway Nut 37CNBAWZ (Zamak Breakaway Nut 37CNBAWS (stainles	
20	Manufactured by	ss steel alloy 304)
21	Tanner Bolt & Nut Company	
22	4302 Glenwood Road	
23	Brooklyn, NY 11210	
24	(800) 456-2658	
25	FAX (888) 434-3215	
26	www.tannerbolt.com	
	www.tarinerboit.com	
77		
27 28	6-06 2 OPT8 FB6	
28	6-06.2.OPT8.FB6	
28 29	(May 28, 2020 <u>November 20, 2023</u>)	nd Bridge Bailing Type Wire Fahric
28 29 30	(May 28, 2020<u>November 20, 2023</u>) Bridge Railing Type Snow Fence an	d Bridge Railing Type Wire Fabric
28 29 30 31	(May 28, 2020<mark>November 20, 2023</mark>) Bridge Railing Type Snow Fence an Fence	
28 29 30 31 32	(May 28, 2020 November 20, 2023) Bridge Railing Type Snow Fence an Fence Wire fabric shall be 8 gage diameter, 2 i	nch square wire mesh conforming to ASTM
28 29 30 31 32 33	(May 28, 2020 November 20, 2023) Bridge Railing Type Snow Fence an Fence Wire fabric shall be 8 gage diameter, 2 i	
28 29 30 31 32 33 34	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence an Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after face	nch square wire mesh conforming to ASTM
28 29 30 31 32 33 34 35	(May 28, 2020 November 20, 2023) Bridge Railing Type Snow Fence an Fence Wire fabric shall be 8 gage diameter, 2 i	nch square wire mesh conforming to ASTM
28 29 30 31 32 33 34 35 36	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A	nch square wire mesh conforming to ASTM ⊨ abrication in accordance with AASHTO M 111.
28 29 30 31 32 33 34 35 36 37	(May 28, 2020 November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453 F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500 Page 1 and 1 shapes shall conform to Steel bars, plates, and shapes shall conform to ASTM A 500 Page 2 and Shapes shall conform to ASTM A 500 Page 2 and Shapes shall conform to ASTM A 500 Page 2 and Shapes shall conform to ASTM A 500 Page 2 and Shapes shall conform to ASTM A 500 Page 2 and Shapes shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Shall conform to ASTM A 500 Page 2 and Shapes Sh	nch square wire mesh conforming to ASTM
28 29 30 31 32 33 34 35 36 37 38	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A	nch square wire mesh conforming to ASTM ⊨ abrication in accordance with AASHTO M 111.
28 29 30 31 32 33 34 35 36 37 38 39	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A STM A 500A	nch square wire mesh conforming to ASTM ⊨ abrication in accordance with AASHTO M 111. A500, Grade B. onform to either ASTM A 36A36 or ASTM A
28 29 30 31 32 33 34 35 36 37 38 39 40	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A STM A 500A	nch square wire mesh conforming to ASTM ⊨ abrication in accordance with AASHTO M 111.
28 29 30 31 32 33 34 35 36 37 38 39 40 41	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A STM A 500A	nch square wire mesh conforming to ASTM ⊨ abrication in accordance with AASHTO M 111. A500, Grade B. onform to either ASTM A 36A36 or ASTM A
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A STM A 500A	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. a500, Grade B. conform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM A 500A Steel bars, plates, and shapes shall be galvanized at 111.	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. a500, Grade B. onform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M rming to ASTM F593 Type 302. Washers shall
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM assembly shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvan	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M Information of the conforming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to a shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvan shall be tamper proof, as one of the form	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. a500, Grade B. onform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M rming to ASTM F593 Type 302. Washers shall
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the student shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM assembly shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvan	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M Information of the conforming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than the students of the shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to ASTM and shapes shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvan shall be tamper proof, as one of the formanufacturers:	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M Information of the conforming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after fast tubes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to a shape shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvan shall be tamper proof, as one of the formanufacturers: Vandlgard-Nut VCN151-6 (zinc)	nch square wire mesh conforming to ASTM ₽ abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M arming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts ollowing products from one of the associated
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than 1992A992. Steel bars, plates, and shapes shall consider shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvants shall be tamper proof, as one of the formanufacturers: Vandlgard-Nut VCN151-6 (zinc) Manufactured by	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M Information of the conforming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after fast HSS tubes shall conform to ASTM A 500A Steel bars, plates, and shapes shall conform to a shall be galvanized a 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvant shall be tamper proof, as one of the formanufacturers: Vandlgard-Nut VCN151-6 (zinc) Manufactured by Simi Fastening Systems	nch square wire mesh conforming to ASTM ₽ abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M rming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts ollowing products from one of the associated Local Supplier Northwest Fasteners Inc.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	(May 28, 2020November 20, 2023) Bridge Railing Type Snow Fence and Fence Wire fabric shall be 8 gage diameter, 2 is 2453F2453 Type 2 and galvanized after father than 1992A992. Steel bars, plates, and shapes shall consider shall be galvanized at 111. Anchor rods shall be fully threaded, conform to ASTM A193 Grade B7, galvants shall be tamper proof, as one of the formanufacturers: Vandlgard-Nut VCN151-6 (zinc) Manufactured by	nch square wire mesh conforming to ASTM abrication in accordance with AASHTO M 111. A500, Grade B. Inform to either ASTM A 36A36 or ASTM A after fabrication in accordance with AASHTO M arming to ASTM F593 Type 302. Washers shall ized in accordance with AASHTO M 232. Nuts ollowing products from one of the associated Local Supplier

1 2 3	(800) 959-8256 FAX (805) 581-9162 www.simifast.com	(253) 582-1671 FAX (253) 581-3131
4 5 6 7 8 9 10 11 12 13	Trigroove Nut ZTRN37C (Zamak 5 zi Breakaway Nut ZNB37C (Zamak 5 zi Manufactured by Screw & Supply Inc. 1712 Church Street Holbrook, NY 11741 (800) 223-1316 FAX (631) 567-3057 www.screwsupply.com	•
14 15 16 17 18 19 20 21	Spanner Nut 1N.386 (zinc alloy) Manufactured by TamperProof Screw Company Inc. 30 Laurel Street Hicksville, NY 11801 (516) 931-1616 FAX (516) 931-1654	
22 23 24 25 26 27	www.tamperproof.com Trident Tamper Resistant Nut 37CNT Breakaway Nut 37CNBAWZ (Zamak Breakaway Nut 37CNBAWS (stainles Manufactured by	5 zinc alloy AC41A)
28 29 30 31 32 33	Tanner Bolt & Nut Company 4302 Glenwood Road Brooklyn, NY 11210 (800) 456-2658 FAX (888) 434-3215 www.tannerbolt.com	
34 35 36 37	Resin bonded anchors shall conform to Servisions 3(18)A and Section 9-06.4.	ection 6-02. 2 as supplemented in these Special
38 39 40 41		inted or powder coated after galvanizing in color of the finish coat, when dry, shall match
41 42 43 44	6-06.3.GR6 Construction Requirements	
45 46 47	6-06.3(2).GR6 <i>Metal Railings</i>	
48 49 50	6-06.3(2).INST1.GR6 Section 6-06.3(2) is supplemented with the	e following:

6-06.3(2).OPT1.GB6

(March 6, 2000 November 20, 2023)

Bridge Railing Type Chain Link Fence

The Contractor shall install anchor bolts for each post anchorage as shown in the Plans. Alternatively, the Contractor may install resin bonded anchors at each post anchorage, in accordance with Section 6-02-as supplemented in these Special Provisions.3(18)A and 9-06.4.

8 9

Longitudinal members shall be connected to the steel posts as shown in the Plans.

10

The Contractor shall install the chain link fence fabric in accordance with Section 8-12.3(1)D, except as otherwise noted. The chain link fence fabric shall be fastened to the posts and longitudinal members at a maximum spacing of 14 inches.

14

6-06.3(2).OPT2.GB6

(March 6, 2000)

Bridge Railing Type Chain Link Fence

The post blockouts shall be formed with a steel sleeve of the diameter and thickness specified in the Plans. The steel sleeve shall be galvanized after fabrication in accordance with AASHTO M 111. The Contractor shall fill the bottom portion of the railing post with expanded polystyrene as shown in the Plans.

22

The Contractor shall install the steel posts in the post blockouts as shown in the Plans. The posts shall be installed vertically, set in position with epoxy resin, and braced to maintain the vertical position until the epoxy resin hardens.

26

Longitudinal members shall be connected to the steel posts as shown in the Plans.

The Contractor shall install the chain link fence fabric in accordance with Section 8-12.3(1)D, except as otherwise noted. The chain link fence fabric shall be fastened to the posts and longitudinal members at a maximum spacing of 14 inches.

32

6-06.3(2).OPT7.GB6

(May 28, 2020 November 20, 2023)

35

Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence

The railing shall be fabricated and installed in accordance with the shop drawings. The railing panels shall be installed parallel to the top of the associated concrete surface and the railing posts shall be installed perpendicular to the associated concrete surface.

40

The Contractor shall install anchor bolts for each post anchorage as shown in the Plans. Alternatively, the Contractor may install resin bonded anchors at each post anchorage, in accordance with Section 6-02.3(18) as supplemented in these Special Provisions A and Section 9-06.4.

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After completing erection, the Contractor shall repair all metal surfaces with damaged paint or powder coatings and exposed metal with a field repair coating in accordance with Section 6-07.3(9)I and Section 6-07.3(11)A (for paint) or Section 6-07.3(11)B (for powder coating). The color of the finish coat of the field repair coating, when dry, shall match the color specified in Section 6-06.2 as supplemented in these Special Provisions.

51 52

General Special Provisions Division 6-06

```
6-06.5.GR6
 1
 2
     Payment
 3
 4
     6-06.5.INST1.GR6
 5
     Section 6-06.5 is supplemented with the following:
 6
 7
     6-06.5.OPT1.FB6
 8
         (March 6, 2000)
         All costs in connection with constructing Bridge Railing Type *** $$1$$ *** shall be
 9
         included in the *** $$2$$ ***.
10
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6-09 is now Vacant
 2
     All 6-09 GSPs including the headings have been deleted.
 3
 4
     6-09.GR6
 5
     Modified Concrete Overlays
 6
 7
     6-09.2.GR6
 8
     Materials
 9
10
     6-09.2.OPT1.2025.GR6
11
     (February 6, 2023)
     The second, third, fourth, and fifth paragraphs are deleted from Section 6-09.2.
12
13
14
     6-09-2-INST1-GR6
15
     Section 6-09.2 is supplemented with the following:
16
17
     6-09.2.OPT8.BSP.GB6
         <del>(*****)</del>
18
19
         Materials for Polyester Concrete
20
             Polyester Resin Binder
21
             The resin shall be an unsaturated isophthalic polyester-styrene co-polymer.
22
23
             Prior to adding the initiator, the resin shall conform to the following requirements:
24
                 Viscosity: 75 to 200 cps
25
                                                                      ASTM D 2196
26
                                      (20 rpm at 77F, RVT No. 1 spindle)
27
                 Specific Gravity: 1.05 to 1.10 at 77F ASTM D 1475
28
29
30
                 Styrene Content: 45% to 50% by weight ASTM D2369
31
                                     of polyester styrene resin
32
33
             After adding the initiator, the resin shall conform to the following requirements:
34
35
                 Elongation: 35% minimum
                                                                       ASTM D 638
                                      w/ thickness 0.25" ± 0.04"
36
37
                 Tensile Strength: 2,500 psi minimum
38
                                                                       ASTM D 638
                                    w/ thickness 0.25" ± 0.04"
39
40
                 Conditioning 18 hours/77F/50% + 5 hours/158F ASTM D 618
41
42
43
                 Silane Coupler: 1.0% minimum (by weight of polyester styrene resin)
44
45
                 The silane coupler shall be an organosilane ester, gammamethacryloxypro-
                 pyltrimethoxysilane. The promoter/hardeners shall be compatible with suitable
46
                 methyl ethyl ketone peroxide (MEKP) and cumene hydroperoxide (CHP)
47
48
                 initiators. MEKP initiators shall be used when the surrounding concrete
49
                 temperatures are above 60F. A blend of initiators may be used as approved by
50
                 the Engineer when the surrounding concrete temperature is 50F to 60F.
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```

Polyester resin binder will be accepted based on submittal to the Engineer of a Manufacturer's Certificate of Compliance conforming to Section 1-06.3.

High Molecular Weight Methacrylate (HMWM) Resin

In addition to the viscosity and density properties, and the promoter/initiator system, already specified in this Section, the HMWM resin for polyester concrete overlays shall conform to the following requirements:

Flash Point:	180F minimum	ASTM D 3278
Tack-Free Time:	400 minutes maximum	California Test 551

Prior to adding initiator, the HMWM resin shall have a maximum volatile content of 30 percent, when tested in conformance with ASTM D 2369.

HMWM resin will be accepted based on submittal to the Engineer of a Manufacturer's Certificate of Compliance conforming to Section 1-06.3.

Aggregate

The aggregate shall be from a WSDOT approved pit site and shall be thoroughly washed and kiln dried.

The aggregate shall conform to Section 9-03, and one of the following combined aggregate gradings:

	Combined Aggregate	
Sieve Size	1/2" Max. % Passing	3/8" Max. % Passing
1/2"	100	100
3/8"	83-100	100
U.S. No. 4	65-82	62-85
U.S. No. 8	45-64	45-67
U.S. No. 16	27-48	29-50
U.S. No. 30	12-30	-16-36
U.S. No. 50	6-17	5-20
U.S. No. 100	0-7	-0-7
U.S. No. 200	0-3	0-3

The combined aggregate shall have a maximum of 45 percent crushed particles. Fine aggregate shall consist of natural sand only.

Aggregate absorption shall not exceed 1.0 percent. The moisture content of the aggregate shall not exceed one half of the aggregate absorption at the time of mixing with the polyester resin binder. The aggregate temperature shall be between 45F and 100F at the time of mixing.

Sand for Abrasive Finish

The sand for abrasive finish shall conform to Section 6-09.2, and the aggregate moisture content requirements specified above.

General Special Provisions Division 6-09

1	6-09.3.GR6		
2	Construction Requirements		
3			
4	6-09.3(1).GR6		
5	Equipment		
6			
7	6-09.3(1).INST1.GR6		
8	Section 6-09.3(1) is supplemented with the following:		
9			
10	6-09.3(1).OPT1.BSP.GB6		
11	(*****)		
12	Mobile Mixer for Polyester Concrete		
13	The mixer shall be equipped to be calibrated to automatically proportion and blend		
14	all components of the specified mix on a continuous or intermittent basis as required		
15	by the finishing operation, and shall discharge mixed material directly into the		
16	finishing machine.		
17			
18	The mixer shall be equipped with a metering device that automatically measures and		
19	records the aggregate volumes and the corresponding resin volumes. The metering		
20	device shall have a readout display gage visible at all times, and shall be capable of		
21	printing out the volumes being recorded for each material.		
22	h		
23	The aggregate and resin volumes shall be recorded at no greater than five minute		
24	intervals along with the date of each recording. A printout of the recordings shall be		
25	furnished to the Engineer at the end of each work shift.		
26			
27	The Contractor shall prevent any cleaning chemicals from reaching the polyester mix		
28	during the overlay applications.		
29	dailing the overlay approations.		
30	6-09.3(2).GR6		
31	Submittals		
32	oub/intedio		
33	6-09.3(2).INST1.GR6		
34	Section 6-09.3(2) is supplemented with the following:		
35	Ocolion o oo.o(2) is supplemented with the following.		
36	6-09.3(2).OPT1.BSP.GB6		
37	(******)		
38	Submittals for Polyester Concrete		
39	The Contractor shall submit the following items to the Engineer for approval in		
40	accordance with Section 6-01.9:		
41	docordance with occitor o or.o.		
42	1. The type of shot blasting machine selected by the Contractor for use in this		
43	project to scarify concrete surfaces.		
44	project to scarry correcte surraces.		
45	2. The method and materials used to contain, collect, and dispose of all		
46	concrete debris generated by the scarifying process, including provisions		
40 47	for protecting adjacent traffic from flying debris.		
4 <i>1</i> 48	тог рготоонну ачјаотне наше поти нушу чтрпъ.		
40 49	3. The qualifications of an eita supervisors, mobile mixer energies and		
49 50	3. The qualifications of on-site supervisors, mobile mixer operators, and finishing machine operators, in accordance with Section 6-09.3(8) as		
50 51	supplemented in these Special Provisions.		
J I	зиррієнісніси ін інезе эресійі Ртоуізіотіз.		

50 51 52

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November 20, 2023 Page 4

microsilica modified concrete (MMC) will not be allowed.

overlay operation. Use of a combination of types will not be allowed. Use of

1 6-09.3(3).OPT3.GB6 2 (January 7, 2002) 3 The Contractor shall use latex modified concrete (LMC) for the total concrete overlay 4 operation, and shall provide a concrete mix to the Engineer in accordance with Item 5 5 of Section 6-09.3(2). Use of fly ash modified concrete (FMC) or microsilica 6 modified concrete (MMC) will not be allowed. 7 8 6-09.3(3).OPT9.BSP.GB6 9 (*****) 10 **Polyester Concrete** 11 The Contractor shall use polyester concrete for the total concrete overlay operation. 12 Use of latex modified concrete (LMC), fly ash modified concrete (FMC) or microsilica 13 modified concrete (MMC) will not be allowed. 14 15 Polyester concrete shall consist of the following three components - polyester resin 16 binder, HMWM resin, and combined aggregate, in accordance with Section 6-09.2 17 as supplemented in these Special Provisions. The Contractor shall submit the mix 18 design for the polyester concrete to the Engineer for approval. The mix design shall 19 include a recommended initiator percentage for the expected application 20 temperature. The polyester resin binder shall be approximately 12 percent by weight 21 of the dry combined aggregate. The Contractor shall not begin the trial overlay of 22 the polyester concrete, as specified in Section 6-09.3(8) as supplemented in these 23 Special Provisions, until receiving the Engineer's approval of the polyester concrete 24 mix design. 25 26 6-09.3(3).OPT10.BSP.GB6 27 (*****) 28 Deck Repair Concrete for Polyester Concrete Overlays 29 Patching concrete for further deck preparation in accordance with Section 6-09.3(6) 30 shall be the polyester concrete mix used for the overlay. 31 32 6-09.3(3)A.GR6 33 General 34 35 6-09.3(3)A.INST1.GR6 36 Section 6-09.3(3)A is revised to read: 37 38 6-09.3(3)A.OPT1.2025.GR6 39 (February 6, 2023) 40 For fly ash, microsilica, and latex modified concrete, the Contractor shall adjust 41 the slump to accommodate the gradient of the bridge deck, subject to the 42 maximum slump specified. 43 44 For fly ash and microsilica modified concrete, the maximum water/cement ratio 45 shall be calculated using all of the available mix water, including the free water 46 in both the coarse and fine aggregate, and in the microsilica slurry if a slurry is 47 used. 48 For fly ash and microsilica modified concrete, all water-reducing and air 49 50 entraining admixtures, and superplasticizers, shall be used in accordance with

General Special Provisions Division 6-09

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November 20, 2023 Page 5

the admixture manufacturer's recommendations.

Fine aggregate shall be Class 1. Coarse aggregate shall be AASHTO grading No. 7 or No. 8. Fly ash shall be Class F only. 6-09.3(3)B.GR6 **Concrete Class M** 6-09.3(3)B.INST1.GR6 Section 6-09.3(3)B is revised to read: 6-09.3(3)B.OPT1.2025.GR6 (February 6, 2023) Concrete Class M for further deck preparation patching concrete shall be proportioned in accordance with the following mix design:

Type I or II Portland Cement or Type	705 pounds
IL(X) Blended hydraulic Cement	
Fine Aggregate	1,280 pounds
Coarse Aggregate	1,650 pounds
Water/Cement Ratio	0.37 maximum
Air (± 1½ percent)	6 percent
Slump (± 1 inch)	5 inches

The use of a water-reducing admixture conforming to AASHTO M194 Type A will be required to produce patching concrete with the desired slump, and shall be used in accordance with the admixture manufacturer's recommendations. Air entraining admixtures shall conform to AASHTO M154 and shall be used in accordance with the admixture manufacturer's recommendations. The use of accelerating admixtures or other types of admixtures is not allowed.

6-09.3(3)C.GR6

Fly Ash Modified Concrete

6-09.3(3)C.INST1.GR6

Section 6-09.3(3)C is revised to read:

6-09.3(3)C.OPT1.2025.GR6

(February 6, 2023)

Fly ash modified concrete shall be a workable mix, uniform in composition and consistency. Mix proportions per cubic yard shall be as follows:

Type I or II Portland Cement or Type IL(X)	611 pounds
Blended hydraulic Cement	
Fly Ash	275 pounds
Fine Aggregate	38 percent of total aggregate
Coarse Aggregate	62 percent of total aggregate
Water/Cement Ratio	0.30 maximum
Air (± 1½ percent)	6 percent
Slump	7 inches maximum

Cement and fly ash may be replaced with 886 pounds of Type IP(31)MS blended hydraulic cement. Only Type IP(31)MS that is blended with Type F fly ash is permitted for use. Type IP(31)MS that is blended with natural pozzolans are not allowed. 6-09.3(3)D.GR6 **Microsilica Modified Concrete** 6-09.3(3)D.INST1.GR6 Section 6-09.3(3)D is revised to read: 6-09.3(3)D.OPT1.2025.GR6 (February 6, 2023)

Microsilica modified concrete shall be a workable mix, uniform in composition and consistency. Mix proportions per cubic yard shall be as follows:

Type I or II Portland Cement or Type IL(X)	658 pounds
Blended hydraulic Cement	
Microsilica Fume	52 pounds
Fine Aggregate	1,515 pounds
Coarse Aggregate	1,515 pounds
Water/Cement Ratio	0.33 maximum
Air (± 1½ percent)	6 percent
Slump	7 inches maximum

6-09.3(3)E.GR6

Latex Modified Concrete

6-09.3(3)E.INST1.GR6

Section 6-09.3(3)E is revised to read:

6-09.3(3)E.OPT1.2025.GR6

(February 6, 2023)

Latex modified concrete shall be a workable mix, uniform in composition and consistency. Mix proportions per cubic yard shall be as follows:

Type I or II Portland Cement or Type IL(X)	1.00 parts by weight
Blended hydraulic Cement	
Fine Aggregate	2.40 to 2.75 parts by weight
Coarse Aggregate	1.75 to 2.00 parts by weight
Latex Admixture	3.50-gallons per bag of cement
Water/Cement Ratio	0.33 maximum
Air Content of Plastic Mix	6 percent maximum
Slump	7 inches maximum

The aggregates shall be proportioned such that the amount of aggregate passing the No. 4 sieve is 65 ± 5 percent of the total aggregate (fine plus coarse). All calculations shall be based on dry weights.

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1 The moisture content of the fine aggregate and coarse aggregate shall be no 2 more than 3.0 and 1.0 percent, respectively, above the saturated surface dry 3 condition. 4 5 The water limit for calculating the water/cement ratio shall include the added 6 water, the free water in the aggregates, and 52 percent of the latex admixture. 7 8 6-09.3(4).GR6 9 Storing and Handling 10 11 6-09.3(4).INST1.GR6 12 Section 6-09.3(4) is supplemented with the following: 13 14 6-09.3(4).OPT1.BSP.GB6 (*****) 15 16 Storing and Handling of Polyester Concrete Materials 17 All materials shall be delivered in their original containers bearing the manufacturer's 18 label, specifying date of manufacturing, batch number, trade name brand, quantity, 19 and mixing ratio. Each shipment of polyester resin binder and HMWM resin shall be 20 accompanied by a Safety Data Sheet (SDS). 21 22 The material shall be stored to prevent damage by the elements and to ensure the 23 preservation of their quality and fitness for the work. The storage space shall be kept 24 clean and dry and shall contain a high-low thermometer. The temperatures of the 25 storage space shall not fall below nor rise above that recommended by the 26 manufacturer. Every precaution shall be taken to avoid contact with flame. 27 28 Stored materials shall be inspected prior to their use and shall meet the requirements 29 of these Special Provisions at the time of use. 30 31 Any material which is rejected because of failure to meet the required tests or that 32 has been damaged so as to cause rejections shall be immediately replaced at no 33 additional expense to the Contracting Agency. 34 35 Sufficient material to perform the entire polyester concrete overlay application shall 36 be in storage at the site prior to any field preparation, so that there shall be no delay 37 in procuring the materials for each day's application. 38 39 Appropriate impermeable protective garments shall be used by all workers who may 40 contact the resin or initiators to prevent skin contact. If skin contact occurs, the resin 41 or initiators shall be immediately washed off. Clothing that becomes saturated with 42 resin shall be removed immediately. 43 44 All personnel working with the polyester concrete shall be issued suitable approved 45 organic vapor respirators in addition to other appropriate protection equipment. 46 47 6-09.3(5).GR6 48 Scarifying Concrete Surface 49 50 6-09.3(5).INST1.GR6

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Section 6-09.3(5) is supplemented with the following:

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1
     6-09.3(5).OPT1.GB6
 2
              (January 7, 2002)
 3
              The Contractor may use either a rotary milling machine, hydro-demolition machine,
 4
              or shot blasting machine for scarifying concrete surfaces. The Contractor shall
 5
               inform the Engineer of the type of machine selected in accordance with Item 1 of
 6
              Section 6-09.3(2).
 7
 8
      6-09.3(5).OPT2.GB6
 9
              (January 7, 2002)
10
              The Contractor may use either a hydro-demolition machine or shot blasting machine
11
              for scarifying concrete surfaces. The use of a rotary milling machine will not be
12
               allowed. The Contractor shall inform the Engineer of the type of machine selected
13
              in accordance with Item 1 of Section 6-09.3(2).
14
15
      6-09.3(5).OPT7.GB6
16
              (April 6, 2015)
17
              The Contractor shall use a hydro-demolition machine for scarifying concrete
18
              surfaces. The use of a rotary milling or shot blasting machines will not be allowed.
19
              The Contractor shall inform the Engineer of the type of machine selected in
20
              accordance with Item 1 of Section 6-09.3(2).
21
22
      6-09.3(5).OPT8.BSP.GB6
              (*****)
23
24
              The Contractor shall use a shot blasting machine for scarifying concrete surfaces.
25
              The use of a rotary milling or hydro-demolition machines will not be allowed. The
26
              Contractor shall inform the Engineer of the type of machine selected in accordance
27
              with Item 1 of Section 6-09.3(2).
28
      6-09.3(5).OPT9.BSP.GB6
29
30
               (*****)
31
              The scarification depth for all concrete decks receiving polyester concrete overlay
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              shall be 1/4 inch, and all references to scarification depth in Sections 6-09.3(5)A and
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              6-09.3(5)B shall be revised accordingly.
34
35
      6-09.3(5).OPT10.BSP.GB6
36
37
               Steel reinforcing bars used in deck repair operations, in accordance with Sections 6-
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               09.3(5)F and 6-09.3(6)B, shall be epoxy-coated in accordance with Section 6-
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              02.3(24)H.
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      6-09.3(6).GR6
41
42
          Further Deck Preparation
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      6-09.3(6)B.GR6
45
              Deck Repair Preparation
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      6-09.3(6)B.INST1.GR6
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              Section 6-09.3(6)B is supplemented with the following:
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      6-09.3(6)B.OPT1.GB6
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                   (April 6, 2015)
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1 The Contractor shall not remove the bottom two inches of the existing concrete 2 deck, unless otherwise directed by the Engineer. If the existing concrete bridge 3 deck is punctured by the removal operations, the Contractor shall form the 4 bottom surface prior to placing the patching concrete. The Contractor shall 5 submit the method and materials to be used for such forming as a Type 2E 6 Working Drawing in accordance with Section 6-02.3(16). 7 8 6-09.3(6)C.GR6 9 **Placing Deck Repair Concrete** 10 11 6-09.3(6)C.INST1.GR6 12 Section 6-09.3(6)C is supplemented with the following: 13 14 6-09.3(6)C.OPT2.BSP.GB6 15 (*****) 16 Placing Patching Concrete For Polyester Concrete Overlay 17 Patching concrete shall be polyester concrete, as specified in Section 6-09.3(3) 18 as supplemented in these Special Provisions. Concrete Class M shall not be 19 used. 20 21 Polyester concrete for deck repair shall be placed and cured in accordance with 22 Sections 6-09.3(11) and 6-09.3(13), respectively, as supplemented in these 23 Special Provisions. 24 25 All deck repair material that fails to achieve a minimum compressive strength of 26 3,000 psi in six hours as verified by the rebound number determined in 27 accordance with ASTM C 805 shall be removed and replaced with new deck 28 repair material by the Contractor, at no additional expense to the Contracting 29 Agency. 30 31 6-09.3(8).GR6 32 **Quality Assurance** 33 34 6-09.3(8).INST1.GR6 35 Section 6-09.3(8) is supplemented with the following: 36 37 6-09.3(8).OPT3.BSP.GB6 38 (*****) 39 Quality Assurance For Polyester Concrete Overlay 40 The Contractor shall arrange to have the suppliers of the polyester resin binder and 41 HMWM resin furnish technical service relating to application of material and health 42 and safety training for personnel who are to handle the polyester concrete and the 43 HMWM resin prime coat. 44 45 46

On-site supervisors, and all personnel operating the mobile mixer and finishing machines, shall have successful previous experience in mixing and placing polyester concrete overlay. Documentation of project experience with polyester concrete overlay shall include the name and location of the project, the Contracting Agency of the project, the area quantity of overlay placed, and the name and current phone number of the Contracting Agency's contact person for the referenced project.

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Polyester Concrete Trial Overlay

The Contractor shall place a trial overlay of polyester concrete using the equipment selected by the Contractor and the production mix and procedure as approved by the Engineer in accordance with Section 6-09.3(3). The Contractor shall notify the Engineer of the time and location of the trial overlay at least seven calendar days prior to the scheduled trial overlay.

The trial overlay shall be placed on a previously cast and cured concrete pad at a location selected by the Contractor. The plan area of the concrete pad shall be 12 feet minimum in width and 15 feet minimum in length.

The Contractor shall clean the concrete pad surface, mix, place, finish, and cure the polyester concrete overlay, and check the trial overlay for bond, in accordance with Section 6-09.3 as supplemented in these Special Provisions, except as otherwise noted. The Contractor need not scarify the concrete surface and perform further deck preparation on the concrete pad surface provided that all other conditions of Section 6-09.3(7) are satisfied. The trial overlay shall be 12 feet wide, 15 feet long, and 3/4 inches thick.

The Contractor shall perform three pull off tests on the trial overlay in accordance with American Concrete Institute 503R - Appendix A. The Contractor shall record the pull-off test results and the amount of (if any) failure into the base concrete, and shall provide written documentation of the test results to the Engineer.

The Contractor shall not begin placing polyester concrete overlay at the bridge site(s) receiving the polyester concrete overlay until receiving the Engineer's approval of the completed trial overlay.

After receiving the Engineer's approval of the completed trial overlay, the concrete pad and trial overlay shall become the Contractor's property and shall be removed and disposed of in accordance with Section 2-02.3.

6-09.3(9).GR6

Mixing Concrete for Concrete Overlay

6-09.3(9).INST1.GR6

Section 6-09.3(9) is supplemented with the following:

6-09.3(9).OPT2.BSP.GB6

(*****)

Mixing Polyester Concrete

Polyester concrete shall be mixed in mobile mixers conforming to Section 6-09.3(1) as supplemented in these Special Provisions, and in accordance with the mix design approved by the Engineer.

The polyester resin binder in the polyester concrete shall be approximately 12 percent by weight of the dry aggregate. The Contractor shall determine the exact percentage as approved by the Engineer.

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The amount of peroxide initiator used shall result in a polyester concrete set time between 30 and 120 minutes during placement as determined by California Test 551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay and Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be required as recommended by the polyester resin binder supplier and as approved by the Engineer.

The polyester resin binder shall be initiated and thoroughly blended just prior to mixing the aggregate and binder. The polyester concrete shall be thoroughly mixed prior to placing.

6-09.3(10).GR6

Overlay Profile and Screed Rails

6-09.3(10).INST1.GR6

Section 6-09.3(10) is supplemented with the following:

6-09.3(10).OPT1.BSP.GB6

(*****)

The minimum thickness of polyester concrete overlay shall be 3/4 inches, except as otherwise shown in the Plans or adjusted by the Engineer.

6-09.3(11).GR6

Placing Concrete Overlay

6-09.3(11).INST1.GR6

Section 6-09.3(11) is supplemented with the following:

6-09.3(11).OPT2.BSP.GB6

(*****)

Placing Polyester Concrete Overlay

Application of the HMWM prime coat and the polyester concrete overlay shall not begin if rain is expected. The area receiving the prime coat shall be dry and had no rain for at least 24 hours. Immediately prior to applying the prime coat, the surface receiving the prime coat shall be swept clean by compressed air to remove accumulated dust and any other loose material. If the surface receiving the HMWM prime coat and polyester concrete has been exposed to moisture within the previous 12 hours, it shall be thoroughly dried using a heat lance prior to placement of the HMWM prime coat.

The concrete bridge deck surface temperature shall be between 50F and 85F when the prime coat is applied.

The prepared concrete surface shall receive one coat of promoted/initiated wax-free HMWM resin. The promoted/initiated HMWM resin primer shall be worked into the concrete in a manner to effect complete coverage of the area. A one pint sample of each batch of promoted/initiated HMWM resin shall be retained and submitted to the Engineer at the time of primer application to verify proper catalyzation. Under no circumstances shall any resin be allowed to run into drains and expansion joints, or otherwise escape the Contractor's collection and containment system.

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If the HMWM primed surface becomes contaminated, the contaminated area shall 2 be cleaned by abrasive blasting and reprimed at no additional expense to the 3 Contracting Agency. 4 5 The HMWM prime coat shall cure for a minimum of 30 minutes before placing the 6 polyester concrete overlay. Placement of the polymer concrete shall not proceed 7 until the Engineer verifies that the HMWM resin was properly promoted and initiated, 8 as evidenced by the HMWM batch sample. 9 10 The polyester concrete shall be placed on the liquid or hardened HMWM prime coat 11 within two hours of placing the prime coat. Polyester concrete shall be placed prior 12 to gelling and within 15 minutes following initiation, whichever occurs first. Polyester 13 concrete that is not placed within this time shall be discarded. 14 15 If, for any reason, polyester concrete is not placed over the prime coat within the two 16 hour time limit, the Contractor shall apply a fresh coat of HMVM resin primer 17 immediately followed by an abrasive sand finish coating. The abrasive sand finish 18 shall be broadcast onto the surface to affect a uniform coverage of a minimum of 0.8 19 pounds per square yard. Prior to applying the polyester concrete overlay, the surface 20 shall be re-cleaned in accordance with Section 6-09.3(7). 21 22 Expansion joints shall be adequately isolated prior to placing the overlay as approved 23 by the Engineer. Saw cutting at bridge expansion joints will not be allowed. 24 25 The surface temperature of the area receiving the polyester concrete shall be the 26 same as specified above for the HMWM prime coat. 27 28 The polyester concrete shall be consolidated to a relative compaction of not less than 29 97 percent. 30 31 6-09.3(12).GR6 32 Finishing Concrete Overlay 33 34 6-09.3(12).INST1.GR6 35 Section 6-09.3(12) is supplemented with the following: 36 37 6-09.3(12).OPT2.BSP.GB6 38 (*****) 39 Finishing Polyester Concrete Overlay 40 41 02.3(10). 42 43

The finished surface of the polyester concrete overlay shall conform to Section 6-

The polyester concrete shall be struck off to the established grade and cross section and consolidated to the required compaction. No further texturing and grooving of the finish overlay surface will be required. Forms shall be coated with suitable bond release agent to permit ready release of forms.

The polyester concrete overlay shall receive an abrasive sand finish. The sand finish shall be applied immediately after overlay strike-off and before gelling occurs.

The surface texture of polyester concrete surface shall be uniform and shall have a friction number of not less than 35 as determined by ASTM E 274.

General Special Provisions Division 6-09

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After initial finishing, the polyester overlay may require grinding of rough areas as determined by the Engineer. The grinding shall be done in a manner that will not damage the existing bridge deck. Rotary milling machines are not allowed. The Contractor shall demonstrate to the satisfaction of the Engineer that the method and equipment for grinding the polyester overlay are adequate for the intended purpose and will provide satisfactory results. The removal shall not commence until the Contractor receives the Engineer's approval of the grinding equipment. The bridge deck areas specified by the Engineer to receive grinding shall be ground in a longitudinal direction. The grinding equipment shall use diamond tipped saw blades mounted on a power driven, self-propelled machine that is specifically designed to texture concrete surfaces. The grinding equipment shall have a blade spacing to provide grooves that are between 0.10 and 0.15 inches wide. The land area between the grooves shall be approximately 0.125 inches. The Contractor shall contain, collect, and dispose of all concrete debris generated by the grinding operation in accordance with Item 2 of the polyester concrete submittal in Section 6-09.3(2) as supplemented in these Special Provisions. Prior to opening the overlay area to vehicular traffic the finished overlay shall be power swept to remove excess loose aggregate and abrasive sand. The Contractor shall demonstrate to the satisfaction of the Engineer that the power broom equipment will not damage the finished overlay. Any damage to the finished overlay caused by the power broom shall be repaired at no additional expense to the Contracting Agency. 28 29 6-09.3(13).GR6 30 Curing Concrete Overlay 6-09.3(13).INST1.GR6 Section 6-09.3(13) is supplemented with the following: 35 6-09.3(13).OPT2.BSP.GB6 (*****) **Curing Polyester Concrete** Traffic and equipment shall not be permitted on the polyester overlay for at least four hours and until the polyester overlay has reached a minimum compressive strength 40 of 3,000 psi as verified by the rebound number determined in accordance with ASTM C 805. Areas in the polyester concrete that do not totally cure, or that fail to attain the minimum compressive strength specified above, shall be removed and replaced with new polyester concrete material by the Contractor, at no additional expense to the Contracting Agency. 48 6-09.3(14).GR6 Checking For Bond 50 6-09.3(14).INST1.GR6

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November 20, 2023 Page 14

Section 6-09.3(14) is supplemented with the following:

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2
      6-09.3(14).OPT1.BSP.GB6
 3
               (*****)
 4
               Checking Polyester Concrete For Bond
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               After the requirements for curing have been met, the entire overlaid surface shall be
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               sounded by the Contractor, in a manner approved by and in the presence of the
 7
               Engineer, to ensure total bond of the concrete to the bridge deck. Polyester concrete
 8
              in unbonded areas shall be removed and replaced with polyester concrete by the
 9
               Contractor, at no additional expense to the Contracting Agency.
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11
              All cracks, except those that are significant enough to require removal as determined
12
               by the Engineer, shall be thoroughly filled and sealed with HMWM resin. Cracks 1/16
13
              inch and greater in width shall receive two applications of HMWM resin. Immediately
14
              following the application of HMWM resin, the wetted surface shall be coated with
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              sand for abrasive finish.
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17
      6-09.4.GR6
18
      Measurement
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20
      6-09.4.INST1.GR6
21
      Section 6-09.4 is supplemented with the following:
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23
      6-09.4.OPT2.BSP.GB6
24
          (*****)
25
          Polyester concrete overlay will be measured by the square yard of overlay surface
26
          actually placed, finished, and cured.
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28
      6-09.5.GR6
29
      Payment
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31
      6-09.5.INST2.GR6
32
      Section 6-09.5 is supplemented with the following:
33
34
      6-09.5.OPT7.BSP.GB6
          (*****)
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36
          "Polyester Concrete Trial Overlay", lump sum.
37
          The lump sum contract price for "Polyester Concrete Trial Overlay" shall be full pay for
38
          performing the work as specified, including establishing a location for the trial overlay, and
39
          construction, removal, and disposal of the concrete pad and trial overlay.
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41
      6-09.5.OPT8.BSP.GB6
42
          "Force Account Grinding Polyester Conc. Overlay", force account.
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44
          Grinding polyester concrete overlay as specified will be paid by force account in
45
          accordance with Section 1-09.6. For the purpose of providing a common proposal for all
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          bidders, the Contracting Agency has entered an amount for the item "Force Account
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          Grinding Polyester Conc. Overlay" in the bid proposal to become a part of the total bid by
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          the Contractor.
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      6-09.5.OPT9.BSP.GB6
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          (*****)
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          "Polyester Concrete Overlay", per square yard.
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The unit contract price per square yard for "Polyester Concrete Overlay" shall be full pay 2 for performing the work as specified, including placing, finishing, and curing the overlay, 3 and checking for bond. 4 5 6-09.5.OPT11.GB6 6 (April 6, 2015) 7 "Force Account Forms For Full Depth Deck Repair", force account Payment for "Force Account Forms For Full Depth Deck Repair" will be by force 8 9 account in accordance with Section 1-09.6. For the purpose of providing a common proposal to all bidders, the Contracting Agency has entered an amount for the item 10 11 "Force Account Forms For Full Depth Deck Repair" in the bid proposal to become a part of the total bid by the Contractor. 12

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2 6-11.GR6 3 **Reinforced Concrete Walls** 4 5 6-11.2.GR6 6 Materials 7 8 6-11.2.INST1.GR6 9 Section 6-011.2 is supplemented with the following: 10 11 6-11.2.OPT1.2025.GR6 12 (November 20, 2023) 13 14 Sealing Band 9-04.12 15 Welded Wire Reinforcement 9-07.7 Concrete Surface Treatments 16 9-08.3 17 9-20.3(2) Grout 18 19 6-11.3.GR6 20 **Construction Requirements** 21 22 6-11.3.INST1.GR6 23 Section 6-11.3 is replaced in its entirety with the following: 24 25 6-11.3.OPT1.2025.GR6 26 (November 20, 2023) 27 6-11.3(1) Submittals 28 All components of reinforced concrete retaining walls, regardless of the combination of 29 precast and cast-in-place components shall be submitted simultaneously as a 30 comprehensive submittal. 31 32 The Contractor shall submit Type 2E Working Drawings consisting of shoring plans in 33 accordance with Section 2-09.3(3)D. 34 35 6-11.3(1)A Precast Reinforced Concrete Retaining Walls 36 When a precast reinforced concrete retaining wall using Standard Plan D-20.10 is detailed in the Plans, the Contractor shall submit a Type 2 Working Drawing of the 37 38 precast unit shop drawings in accordance with Section 6-02.3(9)A. When cast-in-39 place footing keys are required, the precast unit shop drawing shall also include the 40 following: 41 The construction method option selected from the Plans 42 The anticipated trench excavation wall slopes 43 The methods for dewatering if required 44 4. The methods for maintaining stability of the walls prior to and during 45 placement of the footing key concrete The location and size of block outs and closure holes. 46 47 48 6-11.3(1)B Cast-In-Place Reinforced Conc. Retaining Walls 49 When cast-in-place reinforced concrete retaining walls are called out in the Plans, the Contractor shall submit Type 2E Working Drawings of falsework and formwork 50 51 plans in accordance with Sections 6-02.3(16) and 6-02.3(17).

General Special Provisions Division 6-11

6-11.3(1)B1 Substitution of Precast Stem Walls in Lieu of Cast-In-Place Stem Walls

The Contractor may elect to fabricate and erect precast reinforced concrete wall stem panels in place of the cast-in-place wall stem panels.

If the Contractor elects to use precast wall stem panels in lieu of cast-in-place wall stem panels, Type 2E Working Drawings shall be submitted that meet the requirements of 6-11.3(1)A and also include the following:

- Working drawings for fabrication of the precast wall stem panels, showing dimensions, steel reinforcing bars, joint and joint filler details, surface finish details, lifting devices with the manufacturer's recommended safe working capacity, and material Specifications.
- Working drawings and design calculations for the erection of the precast wall stem panels showing dimensions, support points, support footing sizes, erection blockouts, member sizes, connections, and material Specifications.
- 3. Design calculations for the precast wall stem panels, the connection between the precast panels and the cast-in-place footing, and all modifications to the cast-in-place footing details as shown in the Plans.
- 4. Cast-in-place submittal requirements for foundations in accordance with 6-11.3(1)A.

6-11.3(2) Excavation and Foundation Preparation

Excavation shall conform to Section 2-09.3(3), and to the limits and construction stages shown in the Plans. Foundation soils found to be unsuitable shall be removed and replaced in accordance with Section 2-09.3(1)C.

Bedding material for precast reinforced concrete retaining wall units shall be in accordance with the Standard Plans and Section 6-20.3(6)A.

6-11.3(3) Wall Construction

6-11.3(3)A Precast Reinforced Concrete Wall Construction

Precast reinforced concrete retaining wall units for Standard Plan D-20.10 and precast reinforced concrete wall stem panels shall conform to Section 6-02.3(9) except as modified in this section.

When precast reinforced concrete retaining walls are called out in the Plans to be constructed in accordance with Standard Plan D-20.10, the units shall be Class 7000 concrete. Cast-in-place footing keys shall be Class 4000 when required. The precast units shall be fabricated full height and shall be fabricated in segment lengths greater than or equal to 4 feet.

When the Contractor elects to use precast stem panels as described in 6-11.3(1)B1, precast reinforced concrete stem panels shall be Class 4000 concrete unless otherwise shown in the Plans. The precast wall stem panels shall be fabricated full height and shall be fabricated in lengths of 8, 16, or 24 feet.

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6-11.3(3)A1 Fabrication Tolerances

The construction tolerances for the precast reinforced concrete retaining wall units for Standard Plan D-20.10 and the precast reinforced concrete wall stem panels shall be as follows:

Height	±¼ inch
Width	±¼ inch
Thickness	+1/4 inch,-1/8 inch
Concrete cover for steel reinforcing bar	+% inch,-% inch
Width of precast concrete wall stem panel joints	±¼ inch

Offset of precast concrete wall stem panels ±½ inch
(Deviation from a straight line extending 5 feet on each side of the panel joint)

When precast reinforced concrete retaining walls are called out in the Plans to be constructed in accordance with Standard Plan D-20.10, the precast reinforced concrete retaining wall shall be constructed with a joint between adjacent units. The wall and footing joints shall be constructed as shown in the Standard Plans. The joints shall be continuous and shall be of uniform width over the entire height of the precast wall and footing.

When the Contractor elects to use precast stem panels as described in 6-11.3(1)B1, precast concrete wall stem panels shall be constructed with a mating shear key between adjacent panels. The shear key shall have beveled corners and shall be $1\frac{1}{2}$ inches in thickness. The width of the shear key shall be $3\frac{1}{2}$ inches minimum and $5\frac{1}{2}$ inches maximum. The shear key shall be continuous and shall be of uniform width over the entire height of the precast reinforced wall stem panel.

6-11.3(3)A2 Finishing

For precast reinforced concrete retaining wall units for Standard Plan D-20.10 and precast reinforced concrete wall stem panels, the Contractor shall provide the specified exterior concrete surface finish as noted, and to the limits shown, in the Plans. Surface finishes shall conform to Section 6-02.3(14). Rolled on textured finished shall not be used. If the Plans call for a form liner texture on both sides of the wall, it shall be cast in a vertical position.

6-11.3(3)A3 Erection

When precast reinforced concrete retaining walls are called out in the Plans to be constructed in accordance with Standard Plan D-20.10, all joints shall be constructed with sealing band installed on the rear (backfill) side of the precast reinforced concrete retaining walls. When cast-in-place footing keys are required, the precast reinforced concrete retaining walls shall be secured in place during placement and curing of the Class 4000 cast-in-place footing key. The Contractor shall ensure the concrete is fully consolidated around all headed reinforcing bars that are wet inserted into the Class 4000 concrete.

When the Contractor elects to use precast stem panels as described in 6-11.3(1)B1, the precast reinforced concrete wall stem panel shall be rigidly held in place during placement and curing of the cast-in-place footing concrete. The precast reinforced concrete wall stem panels shall be placed a minimum of 1 inch into the cast-in-place footing to provide a shear key. The base of the precast reinforced concrete wall stem panel shall be sloped ½ inch per foot to facilitate

proper concrete placement. To ensure an even flow of concrete under and against the base of the precast reinforced concrete wall stem panel, a form shall be placed parallel to the precast reinforced concrete wall stem panel, above the cast-in-place footing, to allow a minimum 1-foot head to develop in the concrete during concrete placement. The steel reinforcing bars shall be shifted to clear the erection blockouts in the precast reinforced concrete wall stem panel by 1½ inches minimum. All joints shall be constructed with joint filler installed on the rear (backfill) side of the wall. The joint filler material shall extend from 2 feet below the final ground level in front of the wall to the top of the wall. The joint filler shall be a nonorganic flexible material and shall be installed to create a waterproof seal at panel joints. The soil bearing pressure beneath the falsework supports for the precast reinforced concrete wall stem panels shall not exceed the maximum design soil pressure shown in the Plans for the reinforced concrete retaining wall.

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6-11.3(3)B Cast-In-Place Concrete Construction

Cast-in-place concrete for reinforced concrete retaining walls shall be formed, reinforced, cast, cured, and finished in accordance with Section 6-02, and the details shown in the Plans. All cast-in-place concrete shall be Class 4000 unless otherwise shown in the Plans. Cast-in-place footings shall have a longitudinal slope no steeper than 1V: 6H, unless otherwise shown in the Plans.

The Contractor shall provide the specified exterior concrete surface finish as noted, and to the limits shown in the Plans. Surface finishes shall conform to Section 6-02.3(14).

Cast-in-place concrete for adjacent wall stem sections (between vertical expansion joints) shall be formed and placed separately, with a minimum 24-hour time period between concrete placement operations.

Premolded joint filler, ½ inch thick, shall be placed full height of all vertical wall stem expansion joints in accordance with Section 6-01.14.

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6-11.3(4) Backfill, Weepholes, and Gutters

Unless the Plans specify otherwise, backfill and weepholes shall be placed in accordance with the Plans and Section 6-02.3(22). Gravel backfill for drain shall be compacted in accordance with Section 2-09.3(1)E. Backfill within the zone defined as Bridge Approach Embankment in Section 1-01.3 shall be compacted in accordance with Method C of Section 2-03.3(14)C. All other backfill shall be compacted in accordance with Method B of Section 2-03.3(14)C, unless otherwise specified.

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Cement concrete gutter shall be constructed as shown in the Plans.

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6-11.3(5) Traffic Barrier and Pedestrian Barrier

When shown in the Plans, traffic barrier and pedestrian barrier shall be constructed in accordance with Sections 6-02.3(11)A and 6-10.3(2), and the details shown in the Plans.

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6-11.4.GR6

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Measurement

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6-11.4.INST1.GR6

52 Section 6-11.4 is replaced with the following:

General Special Provisions Division 6-11

1	
2	6-11.4.OPT1.2025.GR6
3	(November 20, 2023)
4	Concrete Class 4000 for retaining wall will be measured as specified in Section 6-02.4.
5	Control of the Control of Total ling Wall Will be interested to epochied in obstrain 6 02.1.
6	Except as noted below, concrete Class 7000 for precast retaining wall will be measured
7	as specified in Section 6-02.4.
8	as specified in Section 0-02.4.
9	Event as noted below all reinforcing steel for retaining wall and proceet retaining wall
	Except as noted below, all reinforcing steel for retaining wall and precast retaining wall
10	will be measured as specified in Section 6-02.4.
11	Free of the AMb and an acceptant of the more than a could be dead to the Diameter by a constant to the
12	Exception: When precast retaining walls are called out in the Plans to be constructed in
13	accordance with Standard Plan D 20.10 with footing keys, the construction of the footing
14	keys shall be incidental to wall construction. The concrete and reinforcing steel, including
15	dowels, for the construction of footing keys will not be measured.
16	
17	Traffic barrier and pedestrian barrier will be measured as specified in Section 6-10.4 for
18	cast-in-place concrete barrier.
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20	<u>6-11.5.GR6</u>
21	<u>Payment</u>
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23	6-11.5.INST1.GR6
24	Section 6-11.5 is replaced with the following:
25	
26	6-11.5.OPT1.2025.GR6
27	(November 20, 2023)
28	Payment will be made for each of the following Bid items when they are included in the
29	Proposal:
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31	Structure Excavation Class A and Shoring or Extra Excavation Class A will be paid
32	for in accordance with Section 2-09.5.
33	101 III docordance with economic costs
34	Traffic and Pedestrian Barrier shall be paid for in accordance with Section 6-10.5.
35	Traine and redestrian barrier shall be paid for in accordance with occiton 6-10.0.
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37	"Conc. Class 4000 For Retaining Wall", per cubic yard.
38	All costs in connection with furnishing and installing PVC pipe for weep holes.
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	premolded joint filler, grout, exterior surface finish, and pigmented sealer (when
40	specified), shall be included in the unit Contract price per cubic yard for "Conc. Class
41	4000 For Retaining Wall"
42	"O OI 7000 F D (D ()) N/ III I
43	"Conc. Class 7000 For Precast Retaining Wall", per cubic yard.
44	All costs in connection with furnishing and installing PVC pipe for weep holes,
45	premolded joint filler, joint sealant, external sealing bands, weld tie assemblies,
46	footing keys, wall joints, footing joints, grout, exterior surface finish, and pigmented
47	sealer (when specified), shall be included in the unit Contract price per cubic yard for
48	"Conc. For Retaining Wall"
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50	"St. Reinf. Bar For Retaining Wall", per pound.
51	
52	"Epoxy-Coated St. Reinf. Bar For Retaining Wall", per pound.

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1	
2	"St. Reinf. Bar For Precast Retaining Wall", per pound.
3	
4	"Epoxy-Coated St. Reinf. Bar For Precast Retaining Wall", per pound.
5	
6	Structure Excavation Class A and Shoring or Extra Excavation Class A will be paid
7	in accordance with Section 2-09.5.
8	
9	Traffic and Pedestrian Barrier will be paid in accordance with Section 6-10.5.
10	

1	<u>6-16.GR6</u>
2	Soldier Pile and Soldier Pile Tieback Walls
3	
4	<u>6-16.3.GR6</u>
5	Construction Requirements
6	
7	<u>6-16.3(3).GR6</u>
8	Shaft Excavation
9	
10	<u>6-16.3(3).INST1.GR6</u>
11	The second sentence in the first paragraph of Section 6-16.3(3) is revised to read:
12	
13	6-16.3(3).OPT1.2025.GR6
14	(November 20, 2023)
15	The diameter of the shaft shall be as shown in the Plans.
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6-18.SA1.2025.GR6

2 VACANT

Section 6-18 including the title is revised and replaced with the following:

(November 20, 2023) 6-18 Shotcrete Facing

6-18.1 Description

This Work consists of constructing permanent shotcrete facing using the wet-mixing method as shown on the Plans. Shotcrete constructed as concrete slope protection shall be constructed in accordance with Section 8-16.

0.04.0(4)

6-18.2 Materials

Materials shall meet the requirements of the following sections:

Cement	<u>9-01.2(1)</u>
Aggregates for Portland Cement Concrete	9-03.1
Premolded Joint Filler	9-04.1(2)
Steel Reinforcing Bar	9-07.2
Epoxy-Coated Steel Reinforcing Bar	9-07.3
Concrete Curing Materials and Admixtures	9-23
Fly Ash	9-23.9
Ground Granulated Blast Furnace Slag	9-23.10
Microsilica Fume	9-23.11
Water	9-25.1

Aggregate for shotcrete shall meet the following gradation requirements expressed as percentages by weight:

Sieve Size	Percent Passing
<u>1/2 inch</u>	<u>100</u>
3/8 inch	90 to 100
<u>No. 4</u>	70 to 85
<u>No. 8</u>	50 to 70
<u>No. 16</u>	35 to 55
<u>No. 30</u>	20 to 35
<u>No. 50</u>	<u>8 to 20</u>
<u>No. 100</u>	2 to 10
No. 200	<u>0 to 2.5</u>

6-18.3 Construction Requirements

6-18.3(1) **Submittals**

 The Contractor shall submit Type 2 Working Drawings prior to beginning construction of all mix design panels. The submittal shall consist of the following:

1. The shotcrete mix design, all mix design test panel measurements,

 Planned method, equipment, means of access, joint formwork, and materials for placement, finishing and curing of each shotcrete facing specified.

3. A detailed construction sequence which includes order of operations and maximum timing between operations (including placing, flash coating, finishing, fogging,

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- curing). The sequence will also include the anticipated crew size and production rate for the work.
- 4. Documentation of the certification of each nozzle operator placing permanent shotcrete facing. Nozzle operator shall be certified for the method and position required by the Plans.

The Contractor shall submit all test results as a Type 2 Working Drawing after construction of all mix design panels as described in these Special Provisions. The Contractor shall give the Contracting Agency ample time to review the test results.

6-18.3(2) Preconstruction Meeting

Prior to placing production shotcrete, the Contractor shall participate in a preconstruction meeting with the Engineer. At a minimum, attendance at this meeting shall include representatives from the Contractor, shotcrete subcontractor, and shotcrete supplier. Discussion will include shotcrete testing and acceptance, shotcrete production testing, placement and curing.

6-18.3(3) Shotcrete Testing

The Contractor shall retain a testing Laboratory to perform the tests required in these provisions. Testing Laboratories' equipment shall be calibrated within 1 year prior to testing and testers shall be either ACI certified or qualified in accordance with AASHTO R 18."

All cylinder specimens tested under ASTM C1604 shall be constructed with a L/D ratio of 2:1

6-18.3(3)A Mix Design Test Panel

The Contractor shall prepare mix design test panels for each mix design in accordance with ASTM C1140 and the following requirements:

- 1. The panels shall be of adequate size and thickness to complete all required testing.
- 2. The nozzle operators producing the panels do not need to be the same personnel who will be placing the permanent shotcrete facing.

Prior to shotcrete placement for the mix design test panels, the Contractor shall measure the air content of the freshly mixed shotcrete in accordance with WAQTC FOP for AASHTO T 152.

The Contractor shall obtain cores from the mix design test panels in accordance with ASTM C1604. Core diameters shall be at least 4 inches.

The cores shall be tested as follows and shall meet the following criteria:

- 1. Determine density in accordance with ASTM C1604.
- Determine compressive strength in accordance with ASTM C1604, except that the cores shall be cured per Standard Curing in a moist condition per AASHTO T 23. Minimum compressive strength shall be 4000 psi at 28 days.
- 3. Determine the chloride ion content in accordance with AASHTO T 260. Chloride ion content shall not exceed the limits of Section 6-02.3(2) for reinforced concrete.
- 4. Satisfy one of the following requirements:
 - a. Determine the spacing factor and air content in accordance with ASTM C457. The maximum spacing factor shall be 0.010 inches and the minimum air content shall be 4%.

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b. Determine the durability factor using Method A after 300 cycles in accordance with AASHTO T161. The minimum durability factor shall be 90 percent. Test samples shall be obtained from shotcrete batches of a minimum of 3.0 cubic yards.

6-18.3(3)B Preproduction Testing

After meeting the mix design test panels performance requirements and prior to constructing the permanent shotcrete facing, the Contractor shall schedule and perform preproduction testing.

Preproduction test panels shall be prepared at the project site with the same method of shotcrete installation, finishing and curing to construct the permanent shotcrete facing. Prior to placement in the preproduction test panels, the shotcrete shall be tested for air content in accordance with WAQTC FOP for AASHTO T 152.

All nozzle operators constructing preproduction test panels shall have a current ACI shotcrete Nozzleman Certification. Each nozzle operator shall construct preproduction test panels for verification of shotcrete properties, for verification of placement methods and if specified in the Plans a test panel for surface finish. Only nozzle operators who have constructed acceptable preproduction test panels shall be allowed to place permanent shotcrete facing. When the preproduction test panels are rejected for strength, density, air entrainment or grade, a second panel may be prepared at the Contractor's option. When the second panel is rejected for strength, density, air entrainment or grade, the nozzle operator shall not be permitted to place permanent shotcrete facing.

6-18.3(3)B1 Preproduction Test Panels for Verification of Shotcrete Properties

One test panel shall be constructed for each mix design and each anticipated shooting orientation. Test panels shall be constructed per ASTM C1140. No reinforcing steel shall be included.

At the completion of the curing period, the Contractor shall take at least six cores from each panel in accordance with ASTM C1604. Core diameters shall be at least 4 inches. Testing of these cores and acceptance criteria of the panel shall be as follows:

- Three cores shall be measured for density in accordance with ASTM C1604. Density shall be a minimum of 95% of the density reported for the mix design test panel.
- 2. Three cores shall be measured for compressive strength in accordance with ASTM C1604, except that the cores shall be cured per Standard Curing in a moist condition per AASHTO T 23. Minimum compressive strength shall be 4000 psi at 28 days.
- 3. The remaining three cores not measured for compressive strength shall have the air void system assessed in accordance with ASTM C457. Shotcrete shall have a maximum spacing factor of 0.010 inches and a minimum air content of 4%.

The results of the testing shall be submitted to the Engineer as a Type 2 Working Drawing.

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6-18.3(3)B2 Preproduction Test Panels for Verification of Placement Methods
One preproduction test panel shall be constructed for each combination of mix
design, anticipated shooting orientation, and wall reinforcing layout. The test panels
shall be constructed per ASTM C1140. The minimum test panel size shall be 48
inches by 48 inches. Test panels shall be constructed to the same thickness shown
in the Plans and shall include the same reinforcing type, size and layout and shall
have the same finish as specified for the permanent shotcrete facing.

At the completion of the curing period, the Contractor shall take three cores from each panel in accordance with ASTM C1604. Core diameters shall be at least 4 inches. Cores shall be taken at locations where reinforcing steel is present. These cores shall be visually graded as follows:

Grade 1 - Shotcrete specimens are solid; there are no laminations, sandy areas or voids. Small air voids with maximum diameter of 1/8 inch and maximum length of 1/4 inch are normal and acceptable. Sand pockets or voids behind continuous reinforcing steel are unacceptable. The surface against the form or bond plane shall be sound, without sandy texture or voids.

Grade 2 - Shotcrete specimens shall have no more than two laminations or sandy areas with dimensions not to exceed 1/8 inch thick by 1 inch long. The height, width, and depth of voids shall not exceed 3/8 inch. Porous areas behind reinforcing steel shall not exceed 1/2 inch in any direction except along length of reinforcing steel. The surface against the form or bond plane shall be sound, without sandy texture or voids.

Grade 3 - Shotcrete specimens shall have no more than two laminations or sandy areas with dimensions exceeding 3/16 inch thick by 1-1/4 inches long, or one major void, sand pocket, or lamination containing loosely bonded sand not to exceed 5/8 inch thick and 1-1/4 inches in width. The surface against the form or bond plane may be sandy, with voids containing overspray to a depth of 1/16 inch.

Grade 4 - Core shall meet, in general, requirements of Grade 3 cores, but may have two major flaws such as described for Grade 3, or may have one flaw with maximum dimension of 1 inch perpendicular to the face of the core, with maximum width of 1-1/2 inches. The end of the core that was shot against the form may be sandy, with voids containing overspray to a depth of 1/8 inch.

Grade 5 - Core that does not meet criteria of core grades 1 through 4, by being of poorer quality, shall be classified as Grade 5.

For the purpose of qualifying the nozzle operator, the panel will be acceptable if all of the following are met:

- 1. The mean grade of the cores is 2.5 or less.
- 2. No core is graded at 4 or higher.

If the mean grade of the cores exceeds 2.5, the Contractor may take three additional cores and calculate a mean based on all six cores. If the mean grade of the six cores is 2.5 or less, the panel will be acceptable.

The measurements, scaled photographs of the cores and grading shall be submitted to the Engineer as a Type 2 Working Drawing. Cores shall be provided to the Engineer upon request.

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6-18.3(4) Vacant

6-18.3(3)B3 Preproduction Test Panels for Verification of Surface Finish

When specified in the Plans, the Contractor shall prepare a surface finish test panel to demonstrate the ability of each concrete finisher to achieve the specified surface finish. The Engineer will determine the acceptability of the panel surface finish by comparing it against the surface finish specified in the Contract.

Upon approval, the surface finish test panel will serve as a reference for qualifying additional concrete finishers and as a basis for accepting the surface finish of production shotcrete work.

6-18.3(3)C Production Testing

6-18.3(3)C1 Sampling and Testing Fresh Concrete

At the start of each day of production, the shotcrete will be tested in accordance with Section 6-02.3(5)G for temperature, consistency, and air content and will be sampled in accordance with Section 6-02.3(5)H. The Contractor shall provide curing boxes in accordance with 6-02.3(5)H.

The air content of the freshly mixed concrete shall be a minimum of 4%. The Contractor shall adjust the air content of the freshly mixed concrete in order to assure 4% minimum air content in the hardened shotcrete.

6-18.3(3)C2 Production Test Panels

The Contractor shall construct one unreinforced production test panel in accordance with ASTM C1140 for each day's production of shotcrete facing. The production test panel shall be constructed and cured on site using the same methods and initial curing that will be used to construct the permanent shotcrete facing. Following a seven day curing period of the production test panel, three cores shall be taken by the Contractor in accordance with ASTM C1604. Core diameters shall be at least 4 inches. The Production cores shall be delivered to the Engineer for testing, and shall meet the following requirements:

- The cores shall be measured for density in accordance with ASTM C1604. Density shall be a minimum of 95% of the density reported for the mix design test panel.
- The cores shall be measured for 28-day compressive strength in accordance with ASTM C1604. Minimum compressive strength shall be 4,000 psi.

The remainder of the panels shall remain the property of the Contractor.

6-18.3(5) Placing Wire Reinforcement

Reinforcement of the shotcrete shall be placed as shown in the Plans. The wire reinforcement shall be securely fastened to the steel reinforcing bars so that it will be 1 to 1.5 inches from the face of the shotcrete at all locations, unless otherwise shown in the Plans. Wire reinforcement shall be lapped 1.5 squares in all directions, unless otherwise shown in the Plans.

6-18.3(6) Alignment Control

The Contractor shall install non-corroding alignment wires and thickness control pins to establish thickness and plane surface. The Contractor shall install alignment wires at corners

Page 5

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and offsets not established by formwork. The Contractor shall ensure that the alignment wires are tight, true to line, and placed to allow further tightening. The Contractor shall remove the alignment wires after facing construction is complete.

6-18.3(7) Shotcrete Application

The Contractor shall not place shotcrete that cannot be finished in the same shift.

The Contractor shall not apply shotcrete when the ambient air temperature rises above 86 degrees Fahrenheit. The Contractor may submit a request to apply shotcrete during hot weather (ambient temperatures above 86 degrees Fahreneit), but shall submit hot-weather shotcreting procedures as a Type 3 Working Drawing to obtain the Engineer's approval. The Working Drawing shall address any necessary means to control the temperature of the freshly placed concrete, prevent drying and shrinkage cracking, and ensure evaporative moisture loss is controlled.

Shotcrete shall not be placed on substrates below 41 degrees Fahrenheit.

<u>Temperature and time for placement of shotcrete shall meet the requirement of Sections 6-02.3(4)D and 6-02.3(6)A.</u>

A clean, dry supply of compressed air sufficient for maintaining adequate nozzle velocity for all parts for the Work and for simultaneous operation of a blow pipe for cleaning away rebound shall be always maintained. Thickness, method of support, air pressure, and rate of placement of shotcrete shall be controlled to prevent sagging or sloughing of freshly applied shotcrete.

The shotcrete shall be applied from the lower part of the area upwards. Surfaces to be shot shall be damp, but free of standing water.

The nozzles shall be held at an angle approximately perpendicular to the working face and at a distance that will keep rebound at a minimum and compaction will be maximized. Shotcrete shall emerge from the nozzle in a steady uninterrupted flow. If, for any reason, the flow becomes intermittent, the nozzle shall be diverted from the Work until a steady flow resumes.

<u>Deficiencies observed during shotcrete application such as the following, shall constitute a cause for shotcrete rejection:</u>

- 1. Failures to control and remove build-up of overspray and rebound;
- 2. Incomplete consolidation of shotcrete around reinforcing steel and embedments;
- 3. Incorporation of shadows, excessive voids, delaminations, sags or sloughing; and
- 4. Failures to apply shotcrete to the required line, grade and tolerance.

The Engineer will inspect the shotcrete for evidence of excessive plastic or drying shrinkage cracking, tears, sloughs or other deficiencies. Sounding or other nondestructive testing may be used to check for voids or delamination. The Engineer may also evaluate the in-place shotcrete as follows:

- Extraction of cores from the in-place shotcrete at locations selected by the Engineer and evaluation of such cores for compliance with the specifications;
 Sawcutting or coring to check the adequacy of encasement of reinforcing steel and
- embedments.

Surface defects shall be repaired as soon as possible after initial placement of the shotcrete. All shotcrete which lacks uniformity; which exhibits segregation, honeycombing, or lamination; or which contains any dry patches, slugs, voids, or sand pockets, shall be removed and

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replaced with fresh shotcrete by the Contractor, to the satisfaction of the Engineer at no cost to the Contracting Agency.

Construction joints in the shotcrete shall be uniformly tapered over a minimum distance of twice the thickness of the shotcrete layer. The surface of the joints shall be cleaned and thoroughly wetted before adjacent shotcrete is placed. Shotcrete shall be placed in a manner that provides a finish with uniform texture and color across the construction joint.

The shotcrete shall be cured by applying a clear curing compound in accordance with Section 9-23.2. The curing compound shall be applied immediately after final gunning. Two coats of curing compound shall be applied to the shotcrete surface immediately after finishing.

If field inspection or testing indicates that any shotcrete produced fails to meet the requirements, the Contractor shall immediately modify procedures, equipment, or system, to produce specification material. When the shotcrete is specified as the final fascia finish, the shotcrete shall be wet cured in accordance with Section 6-02.3(11). The Contractor shall keep the surface of the freshly placed shotcrete wet by fogging until the wet cure is applied.

6-18.3(8) Shotcrete Finishing

When the shotcrete facing is an interim coating to be covered by a subsequent shotcrete coating or a cast-in-place concrete fascia, the Contractor shall strike off the surface of the shotcrete facing with a roughened surface as specified in Section 6-02.3(12). The grooves of the roughened surface shall be either vertical or horizontal.

The shotcrete face shall be finished using the alternative finish treatment shown in the Plans. The alternatives are as follows:

Alternative A – After the surface has taken its initial set (crumbling slightly when cut), the surface shall be broom finished to secure a uniform surface texture.

Alternative B – Shotcrete shall be applied in a thickness a fraction beyond the alignment

wires and forms. The shotcrete shall stiffen to the point where the surface does not pull or crack when screeded with a rod or trowel. Excess material shall be trimmed, sliced, or scraped to true lines and grade. Alignment wires shall be removed and the surface shall receive a steel trowel finish, leaving a smooth uniform texture and color. Once the shotcrete has cured, pigmented sealer shall be applied to the shotcrete face. The shotcrete surface shall be completed to within a tolerance of ½ inch of true line and grade. Alternative C – Shotcrete shall be hand-sculptured, colored, and textured to simulate the relief, jointing, and texture of the natural backdrop surrounding the facing. The ends and base of the facing shall transition in appearance as appropriate to more nearly match the color and texture of the adjoining Roadway fill slopes. This may be achieved by broadcasting fine and coarse aggregates, rocks, and other native materials into the final surface of the shotcrete while it is still wet, allowing sufficient embedment into the

 shotcrete to become a permanent part of the surface.

Alternative D (Heavy Nozzle Finish) – The heavy nozzle finish shall conform to Alternative B method except that after the alignment wires are removed, the surface shall be flashed and sealed to a heavy nozzle finish. The surface shall have an amplitude of 3/16" and be uniform in texture and color.

6-18.4 Measurement

Shotcrete facing will be measured by the square foot surface area of the completed facing measured to the neat lines of the facing as shown in the Plans.

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6-18.5 Payment

Payment will be made for each of the following Bid items when they are included in the Proposal:

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5 "Shotcrete Facing", per square foot.
6 All costs in connection with construct

All costs in connection with constructing shotcrete facing as specified shall be included in the unit Contract price per square foot for "Shotcrete Facing".

6-18.GR6

Shotcrete Facing

6-18.2.GR6

Materials

6-18.2.INST1.GR6

Section 6-18.2 is supplemented with the following:

6-18.2.OPT1.GB6

(August 1, 2005)

Shotcrete Facing

Portland cement shall be Type I or II in accordance with Section 9-01.2(1).

Air entrainment shall be 6.0 percent, ± 1.5 percent.

Water for mixing and curing shall be clean and free from substances which may be injurious to concrete or steel, and shall be free of elements which would cause staining.

Aggregate for shotcrete shall meet the following gradation requirements:

Sieve Size	Percent Passing by Weight
1/2 inch	100
3/8 inch	90 to 100
U.S. No. 4	70 to 85
U.S. No. 8	50 to 70
U.S. No. 16	35 to 55
U.S. No. 30	20 to 35
U.S. No. 50	8 to 20
U.S. No. 100	2 to 10
U.S. No. 200	0 to 2.5

6-18.2.OPT2.GB6

(August 3, 2015)

Coloration for Shotcrete Facing Finishing Alternative C

If shotcrete facing finishing Alternative C is specified, the Contractor shall provide shotcrete coloration for finishing the sculptured shotcrete to match the color of the natural surroundings. Acceptance of the final appearance of the coloration will be based on the pre-production test panel. Acceptance of the long-term properties of the coloration material will be based on a manufacturer's certification, submitted as a Type 1 Working Drawing which verifies the following to be true about the product:

1. Resistance to alkalis in accordance with ASTM D 543.

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- Demonstrates no change in coloration after 1,000 hours of testing in accordance with ASTM D 822.
- 3. Does not oxidize when tested in accordance with ASTM D 822.
- Demonstrates resistance to gasoline and mineral spirits when tested in accordance with ASTM D 543.

Additionally, the certification shall provide the product name, proposed mix design and application method, and evidence of at least one project where the product, using the proposed mix and application method, was applied and which has provided at least five years or more of acceptable durability and color permanency.

6-18.2.OPT3.GB6

(August 3, 2015)

Fiber Reinforcement for Shotcrete Facing

Fiber reinforcement for shotcrete facing shall be either steel fibers or macro synthetic fibers.

Steel fibers shall be cold drawn, deformed steel Type 1 or Type 4 fibers conforming to ASTM A 820 with a minimum tensile strength of 120 ksi. Steel fibers shall have a length between 1.0 and 1.50 inches and shall have a length to diameter ratio of less than 80. The steel fibers used shall be manufactured specifically for shotcrete applications.

Macro synthetic fibers shall be deformed polyolefin Type 3 fibers conforming to ASTM C 1116. Macro synthetic fibers shall have a length between 1.0 and 2.0 inches and shall be between 0.02 and 0.04 inches in diameter. The macro synthetic fibers used shall be manufactured specifically for shotcrete applications.

Fiber reinforcement will be accepted based on the Manufacturer's Certificate of Compliance.

6-18.3.GR6

Construction Requirements

6-18.3.INST1.GR6

Section 6-18.3 is supplemented with the following:

6-18.3.OPT1.GB6

(August 3, 2015)

Shotcrete Facing for Rock/Soil Slope Stabilization

Qualifications of Contractor's Personnel

The shotcrete crew members shall have work experience conforming to Section 6-18.3(4), except that the nozzle operators and pumping equipment operators shall have placed a minimum of 100 cubic yards of shotcrete on a minimum of three projects of similar slope heights and orientations as in this project within the last five years.

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All nozzle operators shall be qualified by test in accordance with Section 6-18.3(4).

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Testing

Pre-production and production testing shall conform to Section 6-18.3(3) and the following additional requirements:

Fiber reinforcement shall be included in the shotcrete mix used for all preproduction and production testing.

The Contractor shall make at least two 12 inch square production test panels, where one section is defined as one day's placement. One additional 12 inch square production test panel shall be made whenever a nozzle operator or equipment is changed during the daily work period.

In addition to compressive strength testing, cores taken from the pre-production and production test panels will be tested for density, absorption and voids in accordance with ASTM C 642.

Absorption shall not exceed 8 percent and void content shall not exceed 17 percent.

Mix Design

Unless otherwise specified in the Plans, the fiber reinforced shotcrete used for rock/soil slope stabilization shall have a minimum compressive strength of 2,500 psi at seven days and 4,000 psi at 28 days.

Microsilica shall be included in the shotcrete mix, but shall not exceed 8 percent by mass of the mix.

The minimum steel fiber content in the shotcrete mix shall be 100 pounds per cubic yard. The minimum macro synthetic fiber content in the shotcrete mix shall be 10 pounds per cubic yard.

Surface Preparation

Immediately prior to shotcrete application, rock and soil surfaces within the section being shot shall be scaled of all loose material and be thoroughly cleaned by use of air or water jets or other means acceptable to the Engineer. Shotcrete shall not be placed on any surface which is frozen, spongy, or where there is free water. The surface receiving shotcrete shall be dampened not more than one hour prior to shotcrete application.

Alignment Control

Thickness control pins shall conform to Section 6-18.3(6) and shall be placed on a maximum five foot square grid pattern.

Drainage

Unless otherwise shown in the Plans, weep holes shall be provided throughout the shotcrete facing at 10-foot centers maximum, horizontal and vertical. The weep holes shall consist of 24-inch long, two inch diameter Schedule 40 PVC slotted drain pipe placed within predrilled holes and sloped to drain. The weep hole drains shall be installed prior to placement of the shotcrete facing. The weep hole drains shall extend one to three inches beyond the final finished surface of the shotcrete facing. During placement of the shotcrete facing, the exposed open ends of the weep hole

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drains shall be covered or plugged to prevent shotcrete intrusion. The Contractor shall remove the covers or plugs after completing shotcrete placement.

Prefabricated drainage mat, if shown in the Plans or specified by the Engineer, shall be placed on the slope face prior to placement of the shotcrete facing in accordance with Section 6-15.3(7) and the details shown in the Plans, and shall be secured to the slope face by methods acceptable to the Engineer to ensure permanent and full contact with the slope.

Anchor Bars

Unless otherwise shown in the Plans, steel reinforcing bar anchor bars shall be placed at approximately 10-foot centers maximum, horizontal and vertical. The bars shall be L shaped #5 bars with the short leg measuring 8 inches and the long leg 24 inches. The bars shall be placed in 1-1/4 inch diameter, 24 inch deep holes. The bars shall be set either with grout conforming to Section 9-20.3, or with Type II epoxy bonding agent conforming to Section 9-26.1, with the grade and class as recommended by the epoxy bonding agent manufacturer. The bars shall be placed such that the short leg of the L shaped bar points upward and is approximately 1-1/2 inches clear of the slope surface.

Mixing of Production Fiber Reinforced Shotcrete

Fiber reinforced shotcrete can be mixed by either a dry mix or wet mix process. If the dry mix process is selected, the fiber reinforcement used shall only be steel fibers. If the wet mix process is selected, the fiber reinforcement may be either steel fibers or macro synthetic fibers.

The method and equipment used for batch mixing shall be as submitted in accordance with Section 6-18.3(1). The frequency and procedure for equipment inspection, cleaning and maintenance shall be as recommended by the equipment manufacturer.

Dry Mix Process

The cement and aggregate shall be batched by weight. Pre-dampening shall be done prior to flow into the main hopper and immediately after flow out of the packaging in order to ensure that the premix will flow at a uniform rate (without slugs) through the main hopper, delivery hose and nozzle to form uniform shotcrete free of dry pockets. Pre-dampened cement and aggregate mix shall not be used if allowed to stand more than 90 minutes.

Wet Mix Process

The batching and mixing shall conform to ASTM C 94.

Batching and Mixing Fiber Reinforcement

If fiber addition takes place in the field after batching and mixing the shotcrete, the procedure used to add the fibers to the shotcrete mix shall be demonstrated by the Contractor for the Engineer's acceptance.

If fibers are added during the batching and mixing process, a screen having a mesh of 1.5 to 2.5 inches shall be used to prevent any fiber balls from entering the shotcrete line. Batching through a screen will not be required if the Contractor successfully demonstrates to the Engineer that fiber balls are not being formed.

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Fibers shall not be added to the dry or wet mix at a rate faster than they can be blended with the other ingredients without forming balls or clumps. Bulk fibers showing a tendency to tangle together shall pass through a vibrating screen or be carefully sifted into the mix so that they enter the mix as individual elements and not as clumps.

Shotcrete Application

Shotcrete application shall conform to Section 6-18.3(7) and the following requirements:

Unless otherwise shown in the Plans, the minimum finished thickness of the shotcrete facing shall be four inches.

Shotcrete shall be applied from the lower portion of the area upwards to prevent rebound from accumulating on surfaces yet to be covered. Rebound, defined as shotcrete constituents that fail to adhere to the applied surface, shall not be worked into the finished shotcrete facing and shall not be salvaged or recycled for inclusion in later batches.

Shotcrete application shall be suspended if any of the following conditions are present:

- 1. High winds prevent proper application of the shotcrete.
- 2. The ambient temperature is, or is forecast to be, outside the temperature range of 40F to 90F during placement or initial curing.
- 3. Rain or seepage is washing cement out of the freshly placed shotcrete or is causing sloughs in the work.

Construction joints shall be tapered over a minimum distance of 12 inches to the thin edge. Square construction joints will not be permitted.

Shotcrete Finishing

Unless otherwise shown in the Plans or specified in the Special Provisions, the shotcrete facing shall be finished in accordance with Finish Alternative A in Section 6-18.3(8). Colorization, if required, shall conform to the requirements specified in Section 6-18.2 as supplemented in these Special Provisions.

6-18.4.GR6

Measurement

6-18.4.INST1.GR6

Section 6-18.4 is supplemented with the following:

6-18.4.OPT1.GB6

48 (April 5, 2010) 49 Shotcrete facil

Shotcrete facing for rock/soil slope stabilization will be measured by the cubic yard of shotcrete placed.

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6-18.5.GR6
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     Payment
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     6-18.5.INST1.GR6
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     Section 6-18.5 is supplemented with the following:
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 7
     6-18.5.OPT1.GB6
          (April 5, 2010)
 8
          "Shotcrete Facing For Rock/Soil Slope Stabilization", per cubic yard.
9
10
          The unit contract price per cubic yard for "Shotcrete Facing For Rock/Soil Slope
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          Stabilization" shall be full pay for performing the work as specified, including pre-
          production and production testing, surface preparation, weep hole drains, steel anchor
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          bars, and shotcrete, mixing, application, curing and finishing, and, if required, shotcrete
13
14
          colorization.
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1 2	6-20.GR6 Buried Structures
3 4	6-20.1.GR6
5	Description
6 7 8	6-20.1(1).GR6 Definitions
9 10 11 12	6-20.1(1).INST1.GR6 The list of types of buried structures in Section 6-20.1(1) is supplemented with the following:
13 14 15 16 17 18 19 20 21	6-20.1(1).OPT1.GB6 (January 10, 2022) Composite Arch System (CAS): A buried Structure consisting of a two-component Superstructure placed on reinforced concrete foundations. The Superstructure consists of fiber-reinforced polymer (FRP) composite hollow tube external reinforcement/stay-in-place forms filled with expansive self-consolidating concrete (ESCC), supporting custom pultruded corrugated FRP deck panels retaining the structural backfill.
23	The Superstructure of the CAS shall be as designed and supplied by:
24 25 26 27 28 29 30 31	Advanced Infrastructure Technologies (AIT), LLC 55 Baker Boulevard Brewer, ME 04412 (207) 573-9055 www.aitbridges.com Fabrication shall be by the supplier or a licensed designee as designated by a Type
32	1 Working Drawing.
33 34 35 36	6-20.2.GR6 Materials
37 38 39	6-20.2.INST1.GR6 Section 6-20.2 is supplemented with the following:
40 41 42 43 44 45	6-20.2.OPT1.GB6 (January 10, 2022) Composite Arch System FRP Composite Hollow Tubes Glass fibers shall be type E-glass manufactured in accordance with ASTM D578 Section 4.2.2 and tested in accordance with ASTM D2343.
46 47 48	Carbon fibers shall be standard modulus fibers. Tensile strength, tensile modulus, and strain of the fibers shall be documented in accordance with the manufacturer's

Resin shall be epoxy vinyl ester resin with viscosity suitable for infusion. Clear casting tensile strength and tensile modulus shall be tested in accordance with ASTM

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test specifications.

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D638. Clear casting flexural strength and modulus shall be tested in accordance with ASTM D790. Heat distortion temperature shall be documented in accordance with ASTM D648.

FRP components will be accepted based on a Manufacturer's Certificate of Compliance. The certificate shall include test results for physical, material, and durability properties specified in Section 3 of the AASHTO LRFD Guide Specification for Design of Concrete Filled FRP Tubes for Flexural and Axial Members.

FRP Deck Panels and Associated Fasteners and Adhesive Sealant

The resin shall be premium grade, chemically resistant, UV stabilized polyurethane of the type specified in the fabrication shop drawings.

The glass reinforcement shall be E-Glass that is straight and continuous, with fibers oriented in three directions (0, 45, 90-degrees with respect to the length of the panel). The glass content shall be a minimum of 70-percent by weight.

The FRP deck panels shall have a class B flame spread rating of 75 or less when tested in accordance with ASTM E84, with the thickness, width, and corrugation height specified in the fabrication shop drawings.

The fasteners attaching the FRP deck panels to the FRP composite hollow tubes shall be drill point type AISI 410 stainless steel screws as specified in the fabrication shop drawings.

The adhesive sealing the longitudinal joint of the FRP deck panels shall be a two-part urethane sealant as specified in the fabrication shop drawings.

Expansive Self Consolidating Concrete (ESCC)

Total Cementitious Materials (CM) shall include cement, fly ash, and an expansive cement component specified by the composite arch bridge system supplier.

Cement shall be Type I/II or Type IL portland cement conforming to AASHTO M 85.

An expansive cement product conforming to ASTM C845 Type K shall be added at the rate as specified in Item 8 of the mix design parameters specified below.

Class F fly ash conforming to Section 9-23.9 or ground granulated blast furnace slag conforming to Section 9-23.10 may be added at the allowable rates specified in Item 9 of the mix design parameters specified below.

ESCC Mix Design

The ESCC mix shall be designed in accordance with Section 6-02.3(2)A2 and the following requirements:

- Minimum 28-day compressive strength = 6000 psi.
- 2. Maximum size of coarse aggregate = 3/8-inch.
- 3. Fine aggregate proportions shall be 50 ± 5-percent of the total aggregate by volume, to be determined by trial batching as required

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- to attain specified strength, Visual Stability Index (VSI) and flow characteristics.
- Type F high range water reducer conforming to Section 9-23.6(7) is required and shall be used at the concrete supplier's recommended dosage.
- 5. Viscosity modifying admixture conforming to Section 9-23.6(9) may be added at the concrete supplier's recommended dosage to improve mix stability.
- Hydration stabilizer (retarder) is required to ensure sufficient water and time to begin ettringite formation of the Type K expansive cement.
- 7. Minimum Cementitious Material (CM) = 850 LB./C.Y.
- 8. The mix shall contain Type K expansive cement at a rate of 15-percent by weight of total cementitious material. This quantity may be revised by a CTS Component materials technician that has reviewed mix design and has provided a recommended Type K proportion for a specific mix supplier.
- 9. The mix may include Section 9-23.9 Class F fly ash at a rate less than 25-percent by weight of cementitious material, or Section 9-23.10 Grade 100 or Grade 120 ground granulated blast furnace slag at a rate less than 50-percent, by weight of cementitious material.
- 10. The water/cementitious material ratio (W/CM) shall be between 0.40 and 0.45.
- 11. Air content shall be 0-percent to 5.0-percent.

ESCC shall meet the following requirements in accordance with ASTM C1611 or AASHTO T 347 and AASHTO T 351 for slump flow and visual stability index:

- 1. Slump flow shall be between 24 and 30-inches
- 2. Visual stability index shall be between 0 and 1.0.

Additional concrete mix design requirements of the supplier shall be shown in the FRP tube fabrication shop drawings.

Trial batches shall be performed prior to use to verify compressive strength, slump flow, and visual stability index. Test results shall be submitted as a Type 1 Working Drawing. The trial batch requirement may be waived at the discretion of the Engineer if the concrete supplier is experienced in producing ESCC.

Each batch of ESCC delivered to the jobsite shall be tested for slump flow and visual stability index. If the ESCC fails to meet the requirements re-dosing with additives is permitted. The Engineer may reject ESCC that does not meet specified requirements.

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1 2 6-20.3.GR6 3 **Construction Requirements** 4 5 6-20.3.INST1.GR6 6 Section 6-20.3 is supplemented with the following: 7 8 6-20.3.OPT1.GB6 9 (January 10, 2022) Composite Arch System 10 11 Design 12 The CAS design, Superstructure and foundation, shall conform to Section 6-20.3(1), 13 and the following: 14 15 The CAS shall be designed in accordance with the AASHTO LRFD Bridge Design Specifications, the AASHTO LRFD Guide Specifications for Design of 16 17 Concrete-Filled FRP Tubes for Flexural and Axial Members, the ASCE Pre-18 Standard for LRFD of Pultruded FRP Structures, and other applicable 19 specifications. 20 21 The CAS shall be designed by the supplier on a project-specific basis by a 22 licensed professional engineer, with design and load rating calculations and 23 fabrication shop drawing Working Drawings provided to the Contractor. 24 25 **Submittals** 26 Submittals for CAS Superstructure and foundation shall conform to Section 6-27 20.3(2). 28 29 **Foundation** 30 The CAS foundation shall be constructed in accordance with Sections 6-20.3(5) and 31 6-20.3(6). 32 33 **Fabrication** 34 The CAS structural components shall be fabricated, either by the supplier or an 35 independent fabricator licensed by the supplier, in accordance with Section 6-20.3(7) 36 and the following: 37 38 **Fabrication Quality Control/Quality Assurance** 39 FRP composite hollow tubes shall be fabricated in accordance with the 40 supplier's QC/QA plan and standard operating procedures. The portions of the QC/QA plan and procedures which do not contain trade secret material will be 41 42 submitted to the Contracting Agency for review upon Engineer's request prior to 43 beginning fabrication. 44 45 The FRP laminate comprising the tube shell shall be tested for tensile strength. 46 Test result documentation of the mechanical properties and the required design 47 values shall be submitted as a Type 1 Working Drawing.

hollow tube. A minimum of two specimens per tube shall be tested. If the mean of the two tests from any one tube fails to meet or exceed the required design value, then at least three more specimens from the corresponding tube shall be

A minimum of five test specimens shall be obtained from each FRP composite

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tested. If the mean of the three additional specimens does not meet or exceed the design value, the tube will be rejected and replaced. All test results shall be submitted as a Type 1 Working Drawing prior to placing and assembling the tubes.

FRP Composite Hollow Tube Fabrication

The FRP composite hollow tubes may be fabricated as specified below using a closed mold vacuum assisted resin transfer method (VARTM) of composite manufacturing:

Reinforcement Storage and Preparation

Fabrics shall be stored in a clean, dry environment in the original packaging. They shall be protected from water, dirt, grease, grinding dust, and other foreign matter. The fabrics shall be cut on a clean cutting surface, free of any deleterious material that may adhere to the fabrics prior to layup. Longitudinal fabric shall not be spliced. Hoop reinforcement may be spliced.

Chemicals

Vinyl ester resins and other chemicals necessary for catalyzing the infusion matrix shall be stored in accordance with the manufacturer's recommendations.

Vacuum Assisted Resin Transfer

Prior to vacuum infusion of the vinyl ester matrix, the fabricator shall thoroughly seal the tooling and demonstrate that the sealed tooling can obtain a minimum workable vacuum pressure and a drop test. Chemical additives and catalysts to be combined with the vinyl ester resin shall be measured by weight, or the corresponding volume, based on the batch weight of the vinyl ester resin. The fabricator shall maintain documentation of the promotion rates and the actual amount of catalyst used for each infusion.

The infusion tank shall be charged with a sufficient amount of resin at all times to prevent air bubbles from entering the infusion ports in the tooling. Once resin is introduced into the tooling, the infusion process shall continue uninterrupted until it has been demonstrated that all evacuation ports have a surplus of resin flowing past the finished surface of the tooling and that no less than the predicted volume of resin has been introduced into the tool.

Post Processing

Once the laminate has been allowed to harden, the FRP composite hollow tubes shall be removed from the form with care so as not to induce stresses into the curing laminate. The laminate shall reach a minimum Barcol hardness value of 35 prior to removing the tubes from the form.

Tolerances

The finished FRP composite hollow tubes shall conform to the dimensions set forth in the accepted Type 2 Working Drawing fabrication shop drawings of Section 6-20.3(2). The diameter shall not vary in any one section by more than one-percent of the dimension given in the fabrication shop drawings. The tubes shall be checked for shape variations. No tube may vary from the shape specified in the fabrication shop drawings, expect for

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diameter, by more than 2-inches or one-percent of the dimension, whichever is smaller.

Composite Arch System Placement and Assembly

The CAS structural components shall be erected in accordance with Section 6-20.3(8) and the following:

Assignment of Responsibility

The supplier shall furnish the Contractor the FRP composite hollow tubes, FRP deck panels, stainless steel fasteners, and the structural adhesive at the project site on the date requested by the Contractor.

The Contractor is responsible for the complete installation of the FRP composite hollow tubes including but not limited to unloading and storing the tubes at the project site, erecting and setting the tubes into the reinforced concrete foundation, filling the tubes with ESCC, inspecting the filled tubes for voids, and filling such voids if any are found.

After receiving the accepted fabrication shop drawings, the Contractor shall notify the fabricator to fabricate and deliver the FRP composite hollow tubes, FRP deck panels, stainless steel fasteners, and the structural adhesive to the project site.

Handling and Storage at the Project Site

Care shall be taken when handling the FRP composite hollow tubes such that no damage is caused to the unfilled tubes. When moved or placed by hand, tubes shall be stabilized to prevent tipping over. When moved by hoist, straps shall provide at least 2 inches of padded contact area.

The Contractor is responsible for receiving, unloading, and storing the FRP deck panels. All FRP deck panels shall be handled with care and protected from cuts, scratches, and abrasions. FRP deck panels shall be stored on blocking off the ground and kept clean and dry. Damaged panels shall be replaced at no additional expense to the Contracting Agency.

FRP Tube and FRP Panel Placement and Assembly

The Contractor is advised that the FRP composite hollow tubes have some flexibility prior to filling with ESCC, and tubes out of tolerance without any outside loading may be brought into tolerance with a small force applied at each end. All tubes shall be clearly marked by the fabricator in accordance with the designation in the fabrication shop drawings.

The FRP composite hollow tubes shall be erected in a vertical position and FRP deck panels installed prior to filling the tubes with ESCC. The maximum allowable variation of installed tubes shall be \pm 1/2-inch in-plane and out-of-plane. The FRP deck panels shall be installed over the tubes after the tubes are erected and aligned. The tubes shall be set into the reinforced concrete foundation as shown in the Plans. Care shall be taken when placing the foundation and vibrating around the base of the tubes as to not damage or displace the tubes.

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FRP deck panels shall be installed as shown in the Plans using fasteners provided. The first row of FRP deck panels shall be installed on each side prior to casting the foundation stem wall. The remaining FRP deck panels shall be installed after the foundation stem wall has been cast and prior to filling the FRP composite hollow tubes with ESCC.

Adhesive provided shall be used in accordance with the manufacturer's recommendations to seal the longitudinal joint between the panels. FRP deck panels shall be installed starting at the bottom at both ends of the FRP composite hollow tubes and proceeding to the apex. The Contractor shall assure that the starter panels are placed as shown in the Plans to a level line. A closure plate is provided at the apex to be field-trimmed to fit and attached after the tubes are filled with ESCC.

Once the foundation has achieved 2000 psi minimum concrete compressive strength, the erected FRP composite hollow tubes shall be filled with ESCC.

Placing ESCC Tube Fill

ESCC will be accepted as a self-consolidating concrete in accordance with Section 6-02.3(5).

ESCC shall be placed in accordance with Section 6-02.3(6) and the following:

All FRP composite hollow tubes shall be filled with ESCC under the observation of the Engineer. The tubes shall be filled in one continuous operation. Vibration may be necessary for shallow rise tubes and such use of vibration will be determined by the Engineer. The tubes shall be filled through the fill holes that are field drilled by the Contractor to the size and locations shown in the fabrication shop drawings.

ESCC placement shall be accomplished using a method capable of directing the ESCC into the 3-inch fill hole and regulating placement speed to prevent voids. Acceptable methods include the use of a boom type pump truck, a trailer pump, or a standard concrete bucket. The Contractor shall have an alternative method available in the event of an equipment malfunction.

All FRP composite hollow tubes shall undergo auditory tap testing after ESCC placement to ensure complete filling of tubes. In the event that voids are discovered, they shall be injected with grout conforming to Section 9-20.3(2) for large voids or epoxy bonding agent conforming to Section 9-26.1 for small voids. The maximum permitted hole size for grout injection is 3/4-inch. The supplier shall be provided 72-hour minimum notice and offered the opportunity to be present for the filling of the tubes and tap testing.

Backfilling the Assembled Composite Arch System

The CAS shall be backfilled in accordance with Section 6-20.3(9) and the following:

ESCC fill in the FRP composite hollow tubes shall reach a minimum compressive strength of 3000 psi prior to any backfilling or compaction activities on the Structure other than headwall connection work.

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1 Select gravel backfill shall extend to the lines and grades shown in the Plans 2 and shall be placed in accordance with Section 2-09.3(1)E and as follows: 3 4 Backfill shall be placed in maximum 6-inch lifts with each layer compacted 5 to 95-percent of the maximum density determined by the Compaction 6 Control Test in accordance with Section 2-03.3(14)D. Compaction within 4-7 feet of the Structure shall be accomplished with hand compactors only. 8 Vibratory rollers may be used outside of this zone and above the Structure 9 provided there is at least 24-inches of compacted cover above the 10 Structure. 11 12 All backfill shall be carefully placed to avoid damage to the Structure. 13 14 Lightweight equipment of an operating weight less than 12-tons may be 15 operated over the Structure provided there is at least 12-inches of cover. 16 Construction equipment of an operating weight 12-tons or greater may be 17 used after 24-inches of compacted backfill has been placed over the 18 Structure. In no case may the loading exceed the AASHTO design loading 19 HL-93 without the Engineer's written permission. 20 21 Backfill shall be placed in lifts such that at no time will the elevation 22 difference exceed 24-inches between opposite sides of the Structure. 23 24 6-20.3(1).GR6 25 **Geotechnical Considerations** 26 27 6-20.3(1).INST1.GR6 28 Section 6-20.3(1) is supplemented with the following: 29 6-20.3(1).OPT1.2025.GR6 30 31 (November 20, 2023) 32 If the Geotechnical Report prepared for this Contract does not provide recommendations for the Contractor's selected foundation or wall types, the 33 34 Contractor shall submit Type 3E Working Drawings consisting of a supplemental 35 Geotechnical Report for all foundation and wall types selected which are not provided 36 for in the recommendations. 37 38 6-20.5.GR6 39 **Payment** 40 41 6-20.5.INST1.GR6 42 Section 6-20.5 is supplemented with the following:

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6-20.5.OPT1.GB6

(January 10, 2022)

Payment for the Composite Arch System will be made with the lump sum item, "Contractor Designed Buried Structure No. _____" shall be full payment for the Work as specified.

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1	DIVISION8.GR8	Miscellaneo	us Cons	struction		
2 3 4	8-01.GR8	Erosion Cor	Erosion Control and Water Pollution Control			
5 6	8-01.3.GR8	Constr	Construction Requirements			
7 8	8-01.3(1).GR	Ge	eneral			
9 10 11	8-01.3(1).II		read)	oth paragraph of Section 8-01.3(1) is revised to e once preceding any of the following:		
12 13 14 15 16 17 18 19 20 21	8-01.3(1).OPT1.GR8	(Jan Use rece use more https	dible Soil Eastern Washington) uary 25, 2010) for projects east of the Cascade range in areas iving 12 inches or less annual precipitation. Do not if any portion of the project lies in areas that receive than 12 inches of annual precipitation. See s://wsdot.wa.gov/engineering-standards/design- cs/hydraulics-hydrology.		
22 23	8-01.3(1).II			8-01.3(1) is supplemented with the following) e once preceding any of the following:		
24 25 26 27 28 29 30 31 32 33	8-01.3(1).OPT8.FR8	(Apr Use it is befo			
34 35	8-01.3(1)B	.GR8	Erosion	and Sediment Control (ESC) Lead		
36 37 38	8-01.3(1)B.INST1.GF	Sect	n number 3 and 4 in the second paragraph of ion 8-01.3(1)B are revised to read) t use once preceding any of the following:		
39 40 41 42 43	8-0	1.3(1)B.OPT1.	.GR8	(October 3, 2022) Use on projects without a CSWGP that require an ESC lead.		
44 45	8-01.3(1)C	.GR8	Water N	lanagement		
46 47	8-01.3(1)C4.GR8	Man	agement of Off-Site Water		
48 49 50 51	8-01.3(1)C4.INST1.G	follo	etion 8-01.3(1)C4 is supplemented with the wing) t use once preceding any of the following:		
52 53 54	8-0	1.3(1)C4.OPT	1.FR8	(Off-site stormwater routed through or around Project site) (August 6, 2012)		

1 2 3 4 5 6			Use when there are known locations where stormwater enters the project site and it is desired to prevent this stormwater from flowing uncontrolled through the project site. (1 fill-in)
7	8-01.3(2).GR8	Tempo	orary Seeding and Mulching
8 9	8-01.3(2)B.GR8	Tem	nporary Seeding
10 11 12 13	8-01.3(2)B.IN	1	(Section 8-01.3(2)B is supplemented with the following) Must use once preceding any of the following:
14 15 16 17 18 19 20 21 22 23 24 25 26 27	8-01.3(2)B	3.OPT1.FR8	(Composition, proportion, quality and application rate of grass seed) (August 4, 2014) Use on projects where a common, non-native or non-source-identified seed can be used. This mix will generally be used within urban areas on small areas of disturbance. The fill-ins for the seed should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect. (2 fill-ins) (Fill-ins with dollar signs only are to be used as required)
28 29 30 31 32 33 34 35 36 37 38 39	8-01.3(2)B	3.OPT2.FR8	(Composition, proportion, quality and application rate of grass seed) (August 4, 2014) Use in projects where the Region Landscape Architect recommends source identified (local genetics) native seed. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect. (3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)
40 41 42 43 44 45 46	8-01.3(2)B	o.OPT3.GR	8 (Seeding by hand) (September 3, 2019) Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.
47 48 49 50 51 52 53 54	8-01.3(2)B	3.OPT4.FR8	(One application of fertilizer) (January 3, 2006) Use in projects requiring only one application of fertilizer. (4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters

1 2 3			Roadside and Site Development. Fill-in \$\$4\$\$ should be 2/3 the amount of nitrogen in fill-in \$\$1\$\$.)
4 5 6 7 8 9 10 11 12 13 14	8-01.3(2)B.C	OPT8.FR8	(Composition, proportion, quality and application rate of grass seed) (August 4, 2014) Use in projects where the Region Landscape Architect recommends native seed that is not source identified. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect. (3 fill-ins)
15 16	8-01.3(2)D.GR8	Tempo	orary Mulching
17 18 19 20	8-01.3(2)D.INST	foll	ection 8-01.3(2)D is supplemented with the lowing) ust use once preceding any of the following:
21 22 23 24 25 26 27 28	8-01.3(2)D.C	OPT1.FR8	(Type and rate of application of mulch) (January 5, 2015) Use in projects requiring the application of mulch when the application rate per acre or the allowable pounds in any single lift are revised from the Standard Specifications.
			(3 fill-ins)
29 30	8-02.GR8 Roadsid	de Restora	` '
30 31 32		de Restora	` '
30 31 32 33 34 35		escription (Section	` '
30 31 32 33 34	8-02.1.GR8 De	(Section Must use (Remo (August Use of irrigation constrict Requires	tion 8-02.1 is supplemented with the following)

1 2	8-02.2(9-1	4.5).GR8	(Mulch and Amendments)
3 4 5 6 7 8	8-02.2	(9-14.5(8)).G	GR8 (Compost) (Section 9-14.5(8) is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13	8-(02.2(9-14.5(8)	May be used to allow biosolids compost on projects that do not use compost on stormwater BMPs. Use with concurrence of the Hydraulics Engineer.
15	8-02.3.GR8	Construc	ction Requirements
16 17 18	8-02.3.INST1.GF	`	ction 8-02.3 is supplemented with the following) t use once preceding any of the following:
19 20 21 22 23 24 25 26 27 28 29 30 31 32	8-02.3.OPT1.	(A U: la So de m co ao Ai	Biotic Soil Amendments) April 1, 2019) se on projects to amend poor quality soils (which have a ack of organic matter and little to no bioactivity) using Biotic oil Amendments (BSAs). Should only be used if the soil is etermined to be deficient from the results of a soil organic natter test or the soil analysis and the application of ompost or topsoil is not possible due to steepness or ccess. Use requires the approval of the Region Landscape rchitect or the HQ Region Liaison Landscape Architect. Just also use 8-02.1.OPT2.GR8, 8-02.2.OPT2.GR8, 8-2.4.OPT2.GR8, and 8-02.5.OPT4.FR8.
33 34	8-02.3(4).GR8	Tops	soil
35 36	8-02.3(4)A.GF	R8 To	opsoil Type A
37 38 39	8-02.3(4)A	a.INST1.GR8	(Section 8-02.3(4)A is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44	8-02.3	(4)A.OPT1.FI	R8 (Topsoil Type A) (August 3, 2015) Must include with 8-02.2(9-14.2(1)).OPT1.FR8.
45	8-02.3(5).GR8	Road	dside Seeding, Lawn and Planting Area Preparation
46 47 48 49	8-02.3(5).INS		Section 8-02.3(5) is supplemented with the following) lust use once preceding any of the following:
50 51 52 53	8-02.3(5).	OPT1.FR8	(Application of Compost) (August 5, 2013) Include when no incorporation of compost is required. (1 fill-in)

1 2	8-02.3(5).OPT2	FR8	(Annl	ication of Compost)
3 4 5 6 7	0 02.0(0).01 12.		(Augu Includ	ust 5, 2013) de when compost is to be incorporated into the soil rigation lines are included in the Contract.
8 9 10 11 12 13	8-02.3(5).OPT3.	FR8	(Augu	ication of Compost) ust 5, 2013) de when compost is to be incorporated onto the soil nere are no irrigation lines included in the Contract. ins).
14 15 16 17	8-02.3(5).OPT4	.GR8	(Augu Must	oval of Buried Previously Fabricated Debris) ust 4, 2014) include with 8-02.1.OPT1.GR8 and 8- OPT2.GR8.
19	8-02.3(6).GR8	Mulc	h and	Amendments
20 21	8-02.3(6)B.GR8	Fe	rtilizer	rs
22 23 24 25 26	8-02.3(6)B.INST	1.GR8	follow	ion 8-02.3(6)B is supplemented with the ving) use once preceding any of the following:
27 28 29 30 31 32 33 34 35 36	8-02.3(6)B.C	PT1.FF		(One application of fertilizer) (September 3, 2019) Use in projects requiring only one application of fertilizer. (4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in \$\$4\$\$ should be 2/3 the amount of nitrogen in fill-in \$\$1\$\$.)
37 38 39 40 41 42 43 44 45	8-02.3(6)B.C	PT2.FF		(More than one application of fertilizer) (September 3, 2019) Use in projects when the Region Landscape Arch. recommends more than one fertilizer application. (7 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in \$\$7\$\$ should be 2/3 the amount of nitrogen in fill-in \$\$4\$\$.)
47 48 49 50 51 52 53 54	8-02.3(6)B.C	OPT3.GF		(Fertilizing by hand) (September 3, 2019) Must include with 8-02.3(9)B.OPT2.GR8 . Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

1 2 3 4 5			(September Must inc 02.3(5).OP T	lude with	8-02.1.OPT1.GR8	and	8-
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	8-02.5.0	PT4.FR8	(April 1, 201 Use on proj lack of orgal Soil Amende determined matter test compost or access. Use Architect or (1 fill-in) (Fill conjunction Landscape seeding iter Must also	ects to amend nic matter and ments (BSAs). to be deficient or the soil a topsoil is no erequires the a the HQ Regio I-in #1 indicate with the B Architect to m to use.) use 8-02.1.OF	I poor quality soils (will little to no bioactivity) Should only be used from the results of a analysis and the appt possible due to stapproval of the Region n Liaison Landscape as which seed item will SA. Consult with the determine which PT2.GR8, 8-02.2.OPT2.4.OPT2.GR8.	using Bionif the some soil orgation eepness Landsca Architect I be used perman	otic oil is anic of s or ape et. ed in gion nent
22 23	8-03.GR8	Irrigation	Systems				
24 25	8-03.3.GR8	Con	struction Req	uirements			
26 27	8-03.3(6).G	R8	Excavation				
28 29	8-03.3(6	A.GR8	Trenches				
30 31	8-03	.3(6)A2.GR8	Within	Critical Root	Zone		
32 33 34	8-03.3(6)A2.INS		follo	owing)	A2 is supplemented veceding any of the follow		
35 36 37 38 39 40 41 42 43 44 45 46		8-03.3(6).	A2.OPT1.FR8	(October 3, 2) Use in project has indicate trenching will (1 fill-in) Fill-in #1: Indi trenching wit	ets when the Landscaped that locations of be allowed. icate locations where hin the critical root zatact Region Landsca	mechan mechan one will	ical ical l be
47 48	8-10.GR8	Guide Po	osts				
49 50	8-10.1.GR8	Des	cription				
51 52 53	8-10.1.INS	Γ1.GR8			nted with the following y of the following:)	

1 2 3	<u>8-10.1.OPT1.NEW.</u>	GR8 (Linear delineation panels) (November 20, 2023) Use in projects where linear delineation panels will be used.
4 5 6 7		Must also use 8-10.2.OPT1a.GR8, 8-10.3.OPT1a.GR8, 8-10.4.OPT1a.GR8, and 8-10.5.OPT1a.GR8.
8 9 10 11 12	8-10.1.OPT1.GR8	(Barrier Delineators) (April 1, 2002) Must also use 8-10.2.OPT1.GR8, 8-10.3.OPT1.GR8 or 8- 10.3.OPT2.GR8, 8-10.4.OPT1.GR8, and 8- 10.5.OPT1.GR8.
13 14	8-10.2.GR8 M	aterials
15 16 17 18	8-10.2.INST1.GR8	(Section 8-10.2 is supplemented with the following) Must use once preceding any of the following:
19 20 21	8-10.2.OPT1.NEW.	GR8 (Linear delineation panels) (November 20, 2023) Use in projects where linear delineation panels will be used.
22 23 24 25 26		Must also use 8-10.1.OPT1.NEW.GR8, 8-10.3.OPT1.NEW.GR8, 8-10.4.OPT1.NEW.GR8, and 8-10.5.OPT1.NEW.GR8.
27 28 29 30 31	8-10.2.OPT1.GR8	(Barrier Delineators) (October 3, 2022) Must also use 8-10.1.OPT1.GR8, 8-10.3.OPT1.GR8 or 8-10.3.OPT2.GR8, 8-10.4.OPT1.GR8, and 8-10.5.OPT1.GR8.
32 33 34	8-10.3.GR8 C	onstruction Requirements
35 36 37	8-10.3.INST1.GR8	(Section 8-10.3 is supplemented with the following) Must use once preceding any of the following:
38 39 40 41	8-10.3.OPT1.NEW.	GR8 (Linear delineation panels) November 20, 2023) Use in projects where linear delineation panels will be used.
42 43 44 45		Must also use 8-10.1.OPT1.NEW.GR8, 8-10.2.OPT1.NEW.GR8, 8-10.4.OPT1.NEW.GR8, and 8-10.5.OPT1.NEW.GR8.
46 47 48 49 50	8-10.3.OPT1.GR8	(Barrier Delineators) (April 1, 2002) Delineators placed 6" down from top. Must_also_use 8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8_8- 10.4.OPT1.GR8, and 8-10.5.OPT1.GR8.
51 52	8-10.3.OPT2.GR8	(Barrier Delineators)

1 2 3		Must also use 8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.4.OPT1.GR8, and 8-10.5.OPT1.GR8.
4	8-10.4.GR8	Measurement
5 6 7 8	8-10.4.INST1.GR8	(Section 8-10.4 is supplemented with the following) Must use once preceding any of the following:
9 10 11	<u>8-10.4.OPT1.NE</u>	W.GR8 (Linear delineation panels) November 20, 2023) Use in projects where linear delineation panels will be used.
12 13 14 15		Must also use 8-10.1.OPT1.NEW.GR8, 8-10.2.OPT1.NEW.GR8, 8-10.3.OPT1.NEW.GR8, and 8-10.5.OPT1.NEW.GR8.
16 17 18 19 20 21	8-10.4.OPT1.GR	(Barrier Delineators) (April 1, 2002) Must_also_use_8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8_8- 10.3.OPT1.GR8, or 8-10.3.OPT2.GR8, and 8- 10.5.OPT1.GR8.
22 23 24	8-10.5.GR8	Payment
25 26 27	8-10.5.INST1.GR8	(Section 8-10.5 is supplemented with the following) Must use once preceding any of the following:
28 29 30	<u>8-10.5.OPT1.NE</u>	W.GR8 (Linear delineation panels) November 20, 2023) Use in projects where linear delineation panels will be used.
31 32 33 34 35		Must also use 8-10.1.OPT1.NEW.GR8, 8-10.2.OPT1.NEW.GR8, 8-10.3.OPT1.NEW.GR8, and 8-10.4.OPT1.NEW.GR8.
36 37 38 39 40	8 -10.5.OPT1.GR	(Barrier Delineators) (April 1, 2002) Must_also_use_8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8_8- 10.3.OPT1.GR8, or 8-10.3.OPT2.GR8, and 8- 10.4.OPT1.GR8.
41 42	8-11.GR8 Guar	rdrail
43 44	8-11.1.GR8	Description
45 46 47	8-11.1.INST1.GR8	(Section 8-11.1 is supplemented with the following) Must use once preceding any of the following:
48 49 50 51 52	8-11.1.OPT1.GF	(High-Tension Cable Barrier System 4 Cable) (February 3, 2020) Must also use 8-11.2.OPT2.FR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.
53 54	8-11.1.OPT2.GF	R8 (Aesthetic Treatment for Beam Guardrail)

1 2 3 4 5 6 7		(January 7, 2019) Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail. Must also use 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.			
8	8-11.2.GR8 M	aterials			
9 10 11 12	8-11.2.INST1.GR8	(Section 8-11.2 is supplemented with the following) Must use once preceding any of the following:			
13 14 15 16 17 18 19 20	8-11.2.OPT2.FR8	(High-Tension Cable Barrier System 4 Cable) (October 3, 2022November 20, 2023) Must also use 8-11.1.OPT1.GR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8. (1 fill-in) Fill-in #1 is the maximum allowable lateral deflection distance for the high-tension cable barrier system(s).			
21 22 23 24 25 26 27 28 29	8-11.2.OPT4.GR8	(Aesthetic Treatment for Beam Guardrail) (January 2, 2018) Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail. Must also use 8-11.1.OPT2.GR8, 8-11.3.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.			
30 31	8-11.2(9-16.3).GR8 (Beam Guardrail)				
32 33	8-11.2(9-16.3(2)).GR8	(Posts and Blocks)			
34 35 36	8-11.2(9-16.3(2)).IN	IST1.GR8 (Section 9-16.3(2) is supplemented with the following) Must use once preceding any of the following:			
37 38 39 40 41 42 43 44 45 46	8-11.2(9-16.3(2)).OPT1.GB8 (Steel shear plates and backing plates) (April 6, 2015November 20, 2023) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 11.3(1)A.OPT1.GB8, and 8- 11.3(1)B.OPT7.GB8.			
47 48 49 50 51 52	8-11.2(9-16.3(2)).OPT2.GB8 (Grout) (April 6, 2015) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using a steel post connection to the existing concrete curb or railbase. Include with 6-			

1 2				6-02.3(18).OPT1.GR6, 8-11.2(9- 8, and 8-11.3(1)A.OPT2.GB8.
3 4 5 6 7 8 9 10 11	8-11.2(9-1	(6.3(2)).OPT	Type Thrie Beam r to existing steel tru 16.3(4)).OPT2.GB8	
13 14 15 16 17 18 19 20 21	8-11.2(9-1	(6.3(2)).OPT	(April 6, 2015) Use in thrie beam beam guardrail reting Beam). Include 16.3(4)).OPT2.GB8	rail Type WP Thrie Beam) retrofit projects with weak post thrie trofit (beam guardrail Type WP Thrie with 1-07.1.OPT2.FR1, 8-11.2(9-8, 8-11.3(1)A.OPT3.GB8, 8-38, 8-11.3(1)H.OPT1.GB8, and 8-38.
22 23 24 25	8-11.2(9-16.3	(supplemented with the following) ling any of the following:
26 27 28 29 30 31 32 33 34 35	8-11.2(9-1	(6.3(4)).OPT	bonded anchors for railing end posts, Include with 6-02.2 and Eeither 8-11 16.3(4)).OPT2.GB8	am retrofit projects requiring resin for connection to concrete baluster and concrete curbs and railbases. 2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 1.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-18, 8-11.3(1)A.OPT1.GB8, and 8-38, or 8-11.2(9-16.3(2)).OPT2.GB8
36 37 38 39 40	8-11.2(9-1	6.3(4)).OPT		retrofit projects requiring connections timber members and blockouts.
41 42	8-11.3.GR8	Constru	ction Requirements	•
43 44 45 46	8-11.3.INST1.GF	`	ction 8-11.3 is suppler at use once preceding	mented with the following) g any of the following:
47 48 49 50 51 52 53	8-11.3.OPT1.	() N L p e	October 3, 2022) Must also use 8-11.4.C Jse in projects requirinosts on top of existing the model of the control of the co	on Existing Box Culverts) OPT1.GR8 and 8-11.5.OPT6.GR8. ng the construction of steel guardrail ing concrete box culverts either by through the culvert wall. When using ex culvert guardrail steel posts (Std.

1 2 3 4 5 6 7 8 9 10		Plan C-20.41), must also use 6-02.2.OPT1.GR6 and 6-02.3(18).OPT1.GR6. (4 fill-ins) Fill-in #1 is the box culvert location SR & MP. Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies. Fill-in #3 is the box culvert location SR & MP. Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
11 12 13 14 15 16 17 18 19 20 21	8-11.3.OPT2.FR8	(High-Tension Cable Barrier System 4 Cable) (November 20, 2023October 3, 2022) Must also use 8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8. Fill-in is the location(s) of Contracting Agency sites to deliver complete sets of Additional High-Tension Cable Barrier Components. (1 fill-in)
21 22 23 24 25 26 27 28 29	8-11.3.OPT4.GR8	(Aesthetic Treatment for Beam Guardrail) (January 7, 2019) Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail. Must also use 8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	8-11.3.OPT5.FR8	(Installing Steel Posts on New Box Culverts) (October 3, 2022) Use in projects requiring the construction of steel guardrail posts on top of new concrete box culverts either by embedding or bolting through the culvert wall. When using embedded anchor box culvert guardrail steel posts (Std. Plan C-20.41), must also use 6-02.2.OPT1.GR6 and 6-02.3(18).OPT1.GR6. Must also use 8-11.4.OPT1.GR8 and 8-11.5.OPT6.GR8. (4 fill-ins) Fill-in #1 is the box culvert location SR & MP. Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies. Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
46 47	8-11.3(1).GR8 Bo	eam Guardrail
48 49 50	8-11.3(1).INST1.GR8	(Section 8-11.3(1) is supplemented with the following) Must use once preceding any of the following:
51 52 53	8-11.3(1).OPT1.GR8	Post Selection (April 5, 2010)

1 2 3 4 5 6 7		Use in all projects that specifically require wood guardrail posts or specifically require steel guardrail posts.
5	8-11.3(1)A.GR8 E	rection of Posts
7 8 9 10	8-11.3(1)A.INST1.GR8	(Section 8-11.3(1)A is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16 17 18 19 20 21 22	8-11.3(1)A.OPT1.G	(Timber Blockouts for Beam Guardrail Type Thrie Beam) (April 6, 2015) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, and 8-11.3(1)B.OPT7.GB8.
23 24 25 26 27 28 29 30 31 32	8-11.3(1)A.OPT2.G	(Steel Posts for Beam Guardrail Type Thrie Beam) (January 4, 2016) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using a steel post connection to the existing concrete curb or railbase. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT2.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, and 8-11.3(1)A.OPT2.GB8.
34 35 36 37 38 39 40 41 42 43	8-11.3(1)A.OPT3.G	(Beam Guardrail Type WP Thrie Beam) (September 8, 2020) Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with 4-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)B.OPT9.GB8, 8-11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.
44 45	8-11.3(1)B.GR8 E	rection of Rail
45 46 47 48 49	8-11.3(1)B.INST1.GR8	(Section 8-11.3(1)B is supplemented with the following) Must use once preceding any of the following:
50 51 52	8-11.3(1)B.OPT6.G	B8 (Field Measuring to Existing Type 3 Anchors) (April 6, 2015)

1 2 3			Include in thrie beam retrofit projects when existing Type 3 anchors are being salvaged for reuse as part of the retrofitted guardrail system.
4 5 6 7 8 9 10 11 12 13 14 15	8-11.3(1)B.OPT7	'.GB8	(Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts) (April 6, 2015) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with 6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, and 8-11.3(1)A.OPT1.GB8.
16 17 18 19 20 21 22	8-11.3(1)B.OPT8	3.GB8	(Thrie Beam Expansion Joint Element) (September 13, 2021) Use in projects where the guardrail elements are continuous across interior bridge expansion joints. Contact HQ Design for the thrie beam expansion joint element detail to include in the project plans
24 25 26 27 28 29 30 31 32	8-11.3(1)B.OPT9).GB8	(Beam Guardrail Type WP Thrie Beam) (April 6, 2015) Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with 4-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.
33 34 35	8-11.3(1)D.GR8 R	emoving	Guardrail
36 37 38	8-11.3(1)D.INST1.GR8		8-11.3(1)D is supplemented with the following) e once preceding any of the following:
39 40 41 42 43 44 45 46 47	8-11.3(1)D.OPT1.GE	(Sep Inclu thrie Thrie 16.3 11.3	am Guardrail Type WP Thrie Beam) btember 8, 2020) lide in thrie beam retrofit projects with weak post beam guardrail retrofit (beam guardrail Type WP le Beam). Include with 1-07.1.OPT2.FR1, 8-11.2(9- (2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8- (1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8- (1)H.OPT1.GB8.
49 50	8-11.3(1)H.GR8 G	uardrail	Construction Exposed to Traffic
51 52 53	8-11.3(1)H.INST1.GR8		8-11.3(1)H is supplemented with the following) e once preceding any of the following:

1 2 3 4 5 6 7 8 9	8-11.3(1)H.OPT	(April 6, 2015) Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with 1-07.1.0PT2.FR1, 8-11.2(9-16.3(2)).0PT4.GB8, 8-11.2(9-16.3(4)).0PT2.GB8, 8-11.3(1)A.0PT3.GB8, 8-11.3(1)B.0PT9.GB8, and 8-11.3(1)D.0PT1.GB8.
10 11	8-11.4.GR8 M	easurement
12 13 14	8-11.4.INST1.GR8	(Section 8-11.4 is supplemented with the following) Must use once preceding any of the following:
15 16 17 18 19 20 21	8-11.4.OPT1.GR8	(Box Culvert Guardrail Steel Posts) (October 3, 2022) Must include with 8-11.3.OPT1.FR8 or 8-11.3.OPT5.FR8, and 8-11.5.OPT6.GR8. Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts.
22 23 24 25 26 27	8-11.4.OPT2.GR8	(High-Tension Cable Barrier System 4 Cable) (February 3, 2020) Must also use 8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-11.3.OPT2.FR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.
28 29 30 31 32 33 34	8-11.4.OPT4.GR8	(Aesthetic Treatment for Beam Guardrail) (April 2, 2018) Use in all projects that require Aesthetic Treatment for Beam Guardrail. Must also use 8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.5.OPT1.GR8.
35 36 37	8-11.4.INST2.GR8	(The fifth paragraph of Section 8-11.4 is revised to read) Must use once preceding any of the following:
38 39 40 41	8-11.4.OPT5.2024	.GR8 (November 2, 2022) Use in all projects with guardrail. Must also use 8-11.5.OPT3.2024.GR8.
42 43	8-11.5.GR8 P	ayment
44 45 46 47	8-11.5.INST1.GR8	(In Section 8-11.5, the bid item for "Beam Guardrail Anchor Type 10", per each is revised to read) Must use once preceding any of the following:
47 48 49 50 51	8 -11.5.OPT3.2024.	GR8 (November 2, 2022) Use in all projects with guardrail. Must also use 8-11.4.OPT5.2024.GR8.
52 53 54	8-11.5.INST2.GR8	(Section 8-11.5 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7	8-11.5.OF	PT1.GR8	(Aesthetic Treatment for Beam Guardrail) (April 2, 2018) Use in all projects that require Aesthetic Treatment for Beam Guardrail. Must also use 8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.4.OPT4.GR8.
8 9 10 11 12 13	8-11.5.OF	PT6.GR8	(Box Culvert Guardrail Steel Posts) (October 3, 2022) Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts. Must include with 8-11.3.OPT1.FR8 or 8-11.3.OPT5.FR8, and 8-11.4.OPT1.GR8.
14 15 16 17 18 19	8-11.5.OF	PT7.GR8	(High-Tension Cable Barrier) (February 3, 2020) Must also use 8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8- 11.3.OPT2.FR8, 8-11.4.OPT2.GR8 and 8-11.5.OPT8.GR8.
20 21 22 23 24 25 26	8-11.5.OF	>T8.GR8	(Additional High-Tension Cable Barrier Components) (February 3, 2020) Must also use 8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8 and 8-11.5.OPT7.GR8. No Federal funding participation. Must be in state funds group.
27 28	8-12.GR8	Chain L	ink Fence and Wire Fence
20			
29	8-12.2.GR8	Ма	terials
29 30 31 32	8-12.2.GR8 8-12.2.INST		(Section 8-12.2 is supplemented with the following) Must use once preceding any of the following:
29 30 31 32 33 34 35 36 37 38		Γ1.GR8	(Section 8-12.2 is supplemented with the following)
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	8-12.2.INST 8-12.2.OI	Γ1.GR8	(Section 8-12.2 is supplemented with the following) Must use once preceding any of the following: (Coated chain link fence) (September 8, 2020) Use in projects requiring the construction of coated chain link fence. Must include 8-12.5.OPT1.GR8.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	8-12.2.INST 8-12.2.OI	T1.GR8 PT1.FR8 PT6.GB8	(Section 8-12.2 is supplemented with the following) Must use once preceding any of the following: (Coated chain link fence) (September 8, 2020) Use in projects requiring the construction of coated chain link fence. Must include 8-12.5.OPT1.GR8. (1 fill-in) (Cable Fence) (November 20, 2023September 3, 2019) Use in projects with cable fence. Include with 8-12.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing concrete structures. Include with 8-12.3.OPT1(C).GB8 when
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	8-12.2.INST 8-12.2.OI 8-12.2.OI	T1.GR8 PT1.FR8 PT6.GB8	(Section 8-12.2 is supplemented with the following) Must use once preceding any of the following: (Coated chain link fence) (September 8, 2020) Use in projects requiring the construction of coated chain link fence. Must include 8-12.5.OPT1.GR8. (1 fill-in) (Cable Fence) (November 20, 2023 September 3, 2019) Use in projects with cable fence. Include with 8-12.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing concrete structures. Include with 8-12.3.OPT1(C).GB8 when painting of the galvanized fence posts is required.

1		U	se once preceding the following:
2 3 4 5 6 7 8 9			(Field Measuring For Cable Fence) (April 6, 2015) Use in projects with cable fence when anchoring the cable fence posts to existing concrete structures. Include with 8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8. Include with 8-12.3.OPT1(C).GB8 when painting of the galvanized fence posts is required.
11 12 13 14 15 16 17 18 19 20	8-12.3.OPT1(B).GB8		(Cable Fence) (November 20, 2023April 6, 2015) Use in projects with cable fence. Include with 8-12.2.OPT6.GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing concrete structures. Include with 8-12.3.OPT1(C).GB8 when painting of the galvanized fence posts is required.
20 21 22 23 24 25 26 27	8-12.3.OPT1(C).GB8		(Cable Fence) (January 2, 2018) Use in projects with cable fence. Include with 8- 12.2.OPT6.GB8, 8-12.4.OPT1.GB8, and 8- 12.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing
			concrete structures.
28 29	8-12.4.GR8	Measure	
28 29 30 31 32	8-12.4.GR8 8-12.4.INST1.GR8	(Sec	
28 29 30 31 32 33 34 35 36 37 38 39 40 41		(Sec Musi 38 (C (A U 12 12 ar st	ment tion 8-12.4 is supplemented with the following)
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	8-12.4.INST1.GR8	(Sec Musi 38 (C (A U 12 12 ar st	tion 8-12.4 is supplemented with the following) to use once preceding any of the following: Cable Fence) April 6, 2015) See in projects with cable fence. Include with 8-2.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-2.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when inchoring the cable fence posts to existing concrete ructures. Include with 8-12.3.OPT1(C).GB8 when cainting of the galvanized fence posts is required.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	8-12.4.INST1.GR8 8-12.4.OPT1.GI	(Secondaria) (Secondaria) (Secondaria) (Secondaria)	tion 8-12.4 is supplemented with the following) to use once preceding any of the following: Cable Fence) April 6, 2015) See in projects with cable fence. Include with 8-2.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-2.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when inchoring the cable fence posts to existing concrete ructures. Include with 8-12.3.OPT1(C).GB8 when cainting of the galvanized fence posts is required.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	8-12.4.INST1.GR8 8-12.4.OPT1.GI	(Secondaria) (Secondaria) (A) (A) (A) (A) (A) (A) (A) (A) (A) (B) (A) (B) (C) (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	tion 8-12.4 is supplemented with the following) to use once preceding any of the following: Cable Fence) April 6, 2015) See in projects with cable fence. Include with 8-2.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-2.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 when inchoring the cable fence posts to existing concrete ructures. Include with 8-12.3.OPT1(C).GB8 when exinting of the galvanized fence posts is required.

1 2 3 4 5 6 7 8			(April 6, 2015) Use in projects with cable fence. Include with 8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-12.4.OPT1.GB8. Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing concrete structures. Include with 8-12.3.OPT1(C).GB8 when painting of the galvanized fence posts is required.
9 10	8-13.GR8	Monument	Cases
11 12	8-13.1.GR8	Descri	ption
13 14 15	8-13.1.INST	`	ection 8-13.1 is deleted and replaced by the following) ust use once preceding any of the following:
16 17 18 19 20	8-13.1.OP	T1.GR8	(Monument pipes included in work) (March 13, 1995) Must also use 8-13.2.OPT1.GR8, 8-13.4.OPT1.GR8 and 8- 13.5.OPT1.GR8. Use in projects requiring that the monument pipes be
21 22			installed by the Contractor.
23 24	8-13.2.GR8	Materi	als
25 26 27	8-13.2.INST		ection 8-13.2 is supplemented with the following) ust use once preceding any of the following:
28 29 30 31 32	8-13.2.OP	T1.GR8	(Monument pipes included in work) (March 13, 1995) Must include with 8-13.1.OPT1.GR8 . Use in projects requiring that the monument pipes be installed by the Contractor.
33 34 35	8-13.3.GR8	Const	ruction Requirements
36 37	8-13.3(1).GR	18 M	onument Case and Cover
38 39 40	8-13.3(1).	INST1.GR8	(The last paragraph of Section 8-13.3(1) is revised to read) Must use once preceding any of the following:
41 42 43 44 45 46	8-13.3	(1).OPT1.GR8	(Monument pipes included in work) (March 13, 1995) Use in projects requiring that the monument pipes be installed by the Contractor. Must include with 8-13.1.OPT1.GR8.
47 48	8-13.3(2).GR	18 Ac	djust Monument Case and Cover
49 50	8-13.3(2)E	3.GR8	Reinstalling Monument Case and Cover
51 52 53	8-13.3	(2)B.INST1.GI	R8 (The first sentence of Section 8-13.3(2)B is revised to read) Must use once preceding any of the following:
			ggg.

1 2 3 4 5 6 7		8-13.3(2)B.OI	PT1.GR8	(October 3, 2022) Use in projects where it is desired to reinstall the monument case 1/4" lower than grade, such as routes that are subjected to frequent snow plowing.
8	8-13.4.GR8	Me	asureme	nt
9 10 11 12	8-13.4.IN	ST1.GR8		n 8-13.4 is deleted and replaced by the following) se once preceding any of the following:
13 14 15 16 17	8-13.4.	OPT1.GR8	(Mar Must Use	nument pipes included in work) ch 13, 1995) include with 8-13.1.OPT1.GR8 . in projects requiring that the monument pipes be lied by the Contractor.
18 19	8-13.5.GR8	Pay	/ment	
20 21 22 23	8-13.5.IN	ST1.GR8		n 8-13.5 is supplemented with the following) se once preceding any of the following:
24 25 26 27 28	8-13.5.	OPT1.GR8	(Apri Must Use	nument pipes included in work) I 28, 1997) include with 8-13.1.OPT1.GR8 . in projects requiring that the monument pipes be lled by the Contractor.
29 30	8-14.GR8	Cement	Concrete	e Sidewalks
31 32	8-14.2.GR8	Ma	terials	
33 34	8-14.2(9-19.1).GR8	(Surf	ace Applied Detectable Warning Surface)
35 36 37 38 39	8-1	4.2(9-19.1(1))	(¯ re	General Requirements) The first paragraph of Section 9-19.1(1) is revised to ead) Must use once preceding any of the following:
40 41 42 43 44 45 46 47 48		8-14.2(9-29.1	(1)).OPT	1.FR8 (Alternative color for detectable warning surfaces) (October 3, 2022) Use in projects where the color for detectable warning surfaces will not be yellow. (1 fill-in) Fill-in #1 is the color of the detectable warning surface.
49 50	8-14.2(9-19.2).GR8	(Cas	t-in-Place Detectable Warning Surface)
51 52 53 54	8-1	4.2(9-19.2(1))	(General Requirements) The first paragraph of Section 9-19.2(1) is revised to ead)

1 2	Must use once preceding any of the following:						
3 4 5 6 7	8-14.2(9-29.2(1)).OPT1.FR8 (Alternative color for detectable warning surfaces) (October 3, 2022) Use in projects where the color for detectable warning surfaces will not be yellow.						
8 9 10 11	(1 fill-in) Fill-in #1 is the color of the detectable w surface.						
12 13	8-14.3.GR8	Co	nstruction Requirements				
14 15 16 17	8-14.3.INS	T1.GR8	(Section 8-14.3 is supplemented with the following) Must use once preceding any of the following:				
17 18 19 20 21 22 23 24 25 26 27	8-14.3.OPT1.GR8		(Pre-construction meeting for cement concrete sidewalks, curb ramps or other pedestrian access routes to discuss ADA issues before Work begins) (October 3, 2022) Use in projects where pedestrian access route Work (cement concrete sidewalks, curb ramps or other pedestrian access) is proposed and it is felt that a pre-construction meeting is needed by Region Construction Office to discuss ADA compliance.				
28 29 30 31 32 33 34	8-14.3.C	OPT2.GR8	(Timing Restrictions) (January 7, 2019) Use in all projects that require any ADA Feature work where the closure of pedestrian routes is subject to time restrictions. Must use with 1-05.4.OPT4.GR8, and 8-14.3.OPT3.GR8.				
35 36 37 38	8-14.3.C	OPT3.GR8	(Layout and Conformance to Grades) (January 7, 2019) Use in all projects that require any ADA Feature work. Use with 1-05.4.OPT4.GR8 .				
39 40 41	8-15.GR8	Riprap					
42 43	8-15.4.GR8	Me	asurement				
44 45 46	8-15.4.INS	T1.GR8	(Section 8-15.4 is supplemented with the following) Must use once preceding any of the following:				
47 48 49 50 51 52 53	8-15.4.C	PT3.GR8	(Special excavation) (March 13, 1995) Must also use 8-15.5.OPT8.GR8 . Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.				
53 54	8-15.4.OP	Г5.GR8	(Excavation for riprap is included in cost				

1 2 3 4 5 6 7			of riprap) (The last paragraph of Section 8-14.5 is deleted) (February 5, 2001) Must also use 8-15.5.OPT1.GR8 . Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.
8	8-15.5.GR8	Payı	ment
9 10 11 12 13	8-15.5.INST1.		(The first sentence of the second paragraph of Section 8-15.5 is revised to read) Must use once preceding any of the following:
14 15 16 17 18 19 20 21	8-15.5.OPT	1.GR8	(Excavation for riprap is included in cost of riprap) (March 13, 1995) Must include with 8-15.4.OPT5.GR8. Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.
22 23 24	8-15.5.INST2.		(Section 8-15.5 is supplemented with the following) Must use once preceding the following:
25 26 27 28 29 30 31	8-15.5.OPT	-8.GR8	(Special excavation) (September 30, 1996) Must include with 8-15.4.OPT3.GR8 . Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.
32 33	8-16.GR8	Concrete	Slope Protection
34	8-16.3.GR8	Con	struction Requirements
35 36	8-16.3(2).GR	3	Placing Semi-Open Concrete Masonry Units
37 38 39	8-16.3(2).IN	NST1.GR8	(Section 8-16.3(2) is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45 46 47	8-16.3(2).OPT1.GR8		R8 (Requirements for semi-open precast masonry units) (December 19, 2005) Must include with 8-16.5.OPT1.GR8 . Use in projects requiring semi-open concrete masonry slope protection.
48 49	8-16.5.GR8	Payr	ment
50 51	8-16.5.INST1.		(Section 8-16.5 is supplemented with the following) Must use once preceding any of the following:
52 53 54	8-16.5.OPT	1.GR8	(Semi-open Conc. Masonry Slope Protection) (September 30, 1996)

1 2 3 4			Use i		8-16.3(2).0 requiring s		ncrete masonry
5 6 7	8-20.GR8	Illuminatio Systems, a			Systems,	Intelligent	Transportation
8	8-20.2.GR8	Mate	rials				
9 10 11 12	8-20.2.INS	`				d with the follo the following	
13 14 15 16 17 18 19	8-20.2.O	PT1.GB8	Slurry (April Use in soils, Geote) 6, 2015) traffic sign with the c	al projects v oncurrence anch. Inclu	of the Mate	ing and ndations in weak rials Laboratory 0.3(4).OPT1.FB8
20 21	8-20.2(9-	-29.1).GR8	(Cond	uit, Innerdu	ct, and Oute	erduct)	
22 23 24 25 26	8-20.	2(9-29.1(11)).0	(S	ection 9-29	.1(11) is s [´] up	plemented w any of the fo	ith the following) llowing:
27 28 29 30 31	8	-20.2(9-29.1(1	1)).OPT	Use in wiring is	projects wh	ere new con existing cond	duit is installed, duit, or wiring is
32 33 34	8-20.2(9-	-29.2).GR8	(Section	on 9-29.2 is	supplemen	s, and Pull Bo ted with the f of the follow	ollowing:)
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	8-20.2(9-29.2).OP		(S Us bo	eptember 3 se in project	s where jun tructure m	ction boxes,	cable vaults, pull es require slip-
	8-20.2(9-	-29.6).GR8	(Section	on 9-29.6 is		ted with the f	
	8-20.	2(9-29.6).OPT	(Ja Us En	anuary 13, 2 se in project	2021) s requiring T not required		naire Arms aire arms and the ne H1 distances
51 52 53	8-20.	2(9-29.6).OPT		Light Star anuary 13, 2		Type 1 Lumii	naire Arms

1 2 3	Use in projects requiring Type 1 luminaire arms and H1 distances are not shown in the Plans or the Engineer is required to verify the H1 distances shown in the Plans.
4	8-20.2(9-29.6).OPT5.GR8 Traffic Signal Standards
5 6	(January 10, 2022)
7 8	Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 1
9	luminaire arms, or both.
10 11	8-20.2(9-29.6(2)).GR8 (Slip Base Hardware)
12	(Section 9-29.6(2) is supplemented with the following)
13 14	Must use preceding the following:
15	8-20.2(9-29.6(2)).OPT1.2025.GR8(November 20, 2023)
16 17	<u>Use in all projects with light or signals with slipbases.</u>
18	
19 20	8-20.2(9-29.6(3)).GR8 (Timber Light Standards, Timber Strain Poles, Timber Service Supports)
21	(Section 9-29.6(3) is supplemented with the following)
22 23	Must use preceding the following:
24	8-20.2(9-29.6(3)).OPT1.GR8 (November 20, 2023)
25 26	<u>Use in all projects with timber poles.</u>
27	8-20.2(9-29.6(5)).GR8 (Foundation Hardware)
28	(Section 9-29.6(5) is supplemented with the following)
29 30	Must use once preceding any of the following:
31	8-20.2(9-29.6(5)).OPT1.GR8 (January 13, 2021)
32 33	Use in all projects where light standards are to be installed.
34	0.00.0(0.00.40), OD0(0
35 36	8-20.2(9-29.13).GR8 (Control Cabinet Assemblies) (Section 9-29.13 is supplemented with the following)
37	Must use once preceding any of the following:
38 39	8-20.2(9-29.13).OPT1.GR8 Uninterruptible Power Supply (UPS)
40	(January 2, 2018)
41 42	With Region Traffic Engineer approval, use in projects where Uninterruptible Power Supply (UPS) cabinets are
43	required. Include with 8-20.3(14).OPT1.GR8.
44 45	8-20.2(9-29.13(10)).GR8(NEMA and Type 2070 Controllers and Cabinets)
46	
47 48	8-20.2(9-29.13(10)D).GR8 (Cabinets for Type 2070 Controllers)
49	8-20.2(9-29.13(10)D).INST1.GR8 (Item 1 of Section 9-29.13(10)D is
50 51	revised to read) Must use once preceding any of the
52	following:
53 54	9 20 2(0 20 12(10)D) ODT1 2024 CD9 (Eabruary 6, 2022)
J 4	8-20.2(9-29.13(10)D).OPT1.2024.GR8 (February 6, 2023)

1 2 3	8-20.2(9-29.19).GR8	(Pedestrian Push Buttons) (Section 9-29.19 is supplemented with the following) Must use once preceding any of the following:
4 5 6 7 8 9	8-20.2(9-29.19).OPT	T1.GR8 Accessible Pedestrian Signal (APS) Pushbuttons (February 6, 2023) Use in projects requiring accessible pedestrian signal (APS) pushbuttons. Do not use for RRFB system pushbuttons.
11 12 13		Include speech message programming table in Contract Plans – one table for each signal system.
14 15 16 17 18		See https://wsdot.wa.gov/engineering-standards/design-topics/traffic-illumination-traffic-signals-and-intelligent-transportation-systems-its , specification section, for instructions for filling out the tables.
19 20 21 22 23 24	8-20.2(9-29.24).GR8	(Service Cabinets) (Item 3 of Section 9-29.24 is supplemented with the following) Must use once preceding any of the following:
25 26 27 28	8-20.2(9-29.24).OPT	T1.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
29 30 31 32 33	8-20.2(9-29.25).GR8	(Amplifier, Transformer, and Terminal Cabinets) (Item 3 of Section 9-29.25 is supplemented with the following) Must use once preceding any of the following:
34 35 36 37	8-20.2(9-29.25).OPT	T1.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
38 39	8-20.2(1).GR8 E	quipment List and Drawings
40 41 42	8-20.2(1).INST1.GR8	(Section 8-20.2(1) is supplemented with the following) Must use once preceding any of the following:
43 44 45 46 47 48 49 50	8-20.2(1).OPT1.GR8	(Light standards when H1 dimension is shown on the Plans) (March 13, 1995) Use in projects with illumination systems and the lighting standard H1 dimension is shown in the Plans and verification by the Engineer is not required prior to fabrication.
50 51 52 53 54	8-20.2(1).OPT2.GR8	(Light standards when H1 dimension is not Shown on the Plans or must be verified prior to fabrication) (March 13, 1995)

1 2 3 4 5			Use in projects with illumination systems and the lighting standard H1 dimension is not shown in the Plans or the dimension shown in the Plans must be verified by the Engineer prior to fabrication.
5 6 7 8 9 10	8-20.2(1).OPT:	3.GR8	(Traffic signal standards, strain pole standards or combination traffic signal/lighting standards) (March 13, 1995) Use in projects with traffic signal systems when standards are to be installed.
11 12	8-20.3.GR8	onstruc	ction Requirements
13 14	8-20.3(1).GR8	Gene	eral
15			
16 17	<u>8-20.3(1).INST1.G</u>		Section 8-20.3(1) is supplemented with the following) lust use once preceding any of the following:
18 19	8-20.3(1).OPT	1.FR8	(Salvaged Equipment)
20	<u> </u>		(November 20, 2023)
21			Use in projects with equipment to be removed which will
22 23			stay the property of WSDOT. (Five fill-ins).
24			<u>(1 170 mm mio).</u>
25	8-20.3(4).GR8	Foun	ndations
26	0 20 2/4\ INICT4 C	D0 (C.	Section 9 20 2(4) is supplemented with the following
27 28	8-20.3(4).INST1.G		Section 8-20.3(4) is supplemented with the following) lust use once preceding any of the following:
29			act doe ende proceamy any or the tenerming.
30	8-20.3(4).OPT	1.FB8	(Shafts for Signal Standard Foundations)
31			(August 7, 2017)
32 33			Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials
34			Laboratory Geotechnical Branch. The fill-in specifies
35			the location(s) of the shaft(s) requiring construction
36			under these construction requirements. Include with 8-
37 38			20.2.OPT1.GB8 and 8-20.5.OPT1.GB8 . (One fill-in).
39			(One mi-m).
40	8-20.3(5).GR8	Cond	duit
41 42 43	8-20.3(5)E.GR8	Me	lethod of Conduit Installation
43 44	8-20.3(5)E.INS	T1 GR8	(Section 8-20.3(5)E is supplemented with the following)
45	0 20.0(0)210		Must use once preceding any of the following:
46	0.00.0(5)=	0074 0	ND0 (0D5 5 1/T0 0 1/1)
47 48	8-20.3(5)E.	OPT1.GI	GR8 (CDF Encased ITS Conduit) (February 6, 2023)
49			Use in projects where 4-inch ITS conduits are
50			required to be encased in Controlled Density Fill
51 52			(CDF) when installed by open trenching.
52 53	8-20.3(8).GR8	Wirin	nα
	0 20.0(0).0110	7 7 11 11	··• ʊ

1	8-21.GR8	Permanent	Signing		
2 3 4	8-21.2.GR8	Mater	rials		
5 6 7	8-21.2(9-06.16).GR8	(Section 9-0	Sign Structures) 06.16 is supplemented with the following) nce preceding the following:	
8 9 10 11	8-2	1.2(9-06.16).OP		nuary 3, 2011) projects with perforated steel square sign posts.	
12 13 14	8-21.2(9-28.11).GR8		28.11 is supplemented with the following) nce preceding any of the following:	
15 16 17 18 19 20 21	8-2	1.2(9-28.11).OP ⁻	(August Use in a	verhead Sign Structure Locknuts) t 3, 2015) all projects with overhead sign structures (sign cantilever sign structure, bridge mounted sign).	
22 23 24 25	8 -21.2(9-28.12).GR8		Sheeting) 28.12 is revised to read) nce preceding any of the following:	
26 27 28	8-2	1.2(9-28.12).OP		3 (February 6, 2023) all projects.	
29 30 31	8-21.2(9-28.14).GR8	(Section 9-2	ort Structures) 28.14 is supplemented with the following) nce preceding any of the following:	
32 33 34 35	8-2	1.2(9-28.14).OP	(Septen	padside Signing Material and Fabrication) hber 8, 2020) all projects that have steel sign supports.	
36 37 38	8-21.3.GR8	Cons	truction Req	uirements	
39 40	8-21.3(9).	GR8 S	ign Structur	res	
41 42	8-21.3(9)A.GR8	Fabrication	n of Sign Structures	
43 44 45	8-21.3(9)A1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures				
46 47 48		8-21.3(9)A1.INS	follo	ection 8-21.3(9)A1 is supplemented with the owing) st use once preceding any of the following:	
49 50 51 52 53		8-21.3(9)A	1.OPT1.FB8	(Non-Conventional Paint Color) (September 8, 2020) Use in projects with monotube sign bridges and/or monotube cantilever sign structures	

1 2 3 4 5 6 7 8	painted a color other than the conventionally specified gray color. Include with 8-21.4.OPT1.FB8. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number. (1 fill-in)
8 9	8-21.3(9)E.GR8 Bridge Mounted Sign Brackets
10 11 12 13	8-21.3(9)E.INST1.GR8 (Section 8-21.3(9)E is supplemented with the following) Must use once preceding any of the following:
14 15 16 17 18 19 20 21 22 23	8-21.3(9)E.OPT1.FB8 (Bridge Mounted Sign Brackets) (April 6, 2015November 20, 2023) Use in projects with bridge mounted sign brackets. The first and third fill-ins specify the sign bracket number(s). The second fill-in itemizes the structural carbon steel quantity for each sign bracket. The fourth fill-in specifies the quantity of hole drilling required for the resin bonded anchors for each sign bracket. (4 fill-ins)
24 25	8-21.3(9)F.GR8 Foundations
26 27 28	8-21.3(9)F1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures
29	
30 31 32	8-21.3(9)F1.INST1.GR8(Section 8-21.3(9)F1 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38 39 40	8-21.3(9)F1.OPT1.FB8 (Temporary Casing Requirements) (September 8, 2020) Use in sign structure projects with shaft foundations where the shaft diameter is 48 inches or greater, or where the shaft depth is 15 feet or greater, or where the Materials Laboratory Geotechnical Branch identifies the
41 42 43 44 45 46	foundation soils as sufficiently weak to require use of this specification. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements. (1 fill-in)
47 48	8-21.4.GR8 Measurement
49 50 51	8-21.4.INST1.GR8 (Section 8-21.4 is supplemented with the following) Must use once preceding any of the following:
52 53	8-21.4.OPT1.FB8 (Monotube Sign Structures)

1 2 3 4 5 6 7 8 9			(September 8, 2020) Use in projects with monotube sign bridges and/or monotube cantilever sign structures. The first fill in specifies the type of sign structure work included (sign bridge or cantilever sign structure or both). The second fill-in itemizes the quantities and work involved with each sign structure. (2 fill-ins)
10 11	8-23.GR8	Temporary	Pavement Markings
12 13	8-23.2.GR8	Materi	als
14 15 16	8-23.2(9-	34).GR8	(Pavement Marking Material) (Section 9-34 is supplemented with the following) Must use once preceding any of the following:
17 18 19 20 21 22 23 24	8-23.	2(9-34).OPT1.G	Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include 8-23.3(4)A.OPT1.GR8, 8-23.4.OPT1.GR8, and 8-23.5.OPT1.GR8.
25 26	8-23.3.GR8	Const	ruction Requirements
27 28	8-23.3(4).G	R8 Pa	avement Marking Application
29 30			
	8-23.3(4)	A.GR8	Temporary Pavement Markings – Short Duration
31 32 33			Temporary Pavement Markings – Short Duration R8 (Section 8-23.3(4)A is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35 36 37 38 39 40 41 42 43	8-23.		R8 (Section 8-23.3(4)A is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	8-23.	3(4)A.INST1.GF	R8 (Section 8-23.3(4)A is supplemented with the following) Must use once preceding any of the following: I.GR8 (Temporary Adhesive Transverse Rumble Strips) (October 3, 2022) Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include 8-23.2(9-34).OPT1.GR8, 8-
31 32 33 34 35 36 37 38 39 40 41 42 43 44	8-23. 8-	3(4)A.INST1.GF -23.3(4)A.OPT1 Measu 11.GR8 (S	R8 (Section 8-23.3(4)A is supplemented with the following) Must use once preceding any of the following: I.GR8 (Temporary Adhesive Transverse Rumble Strips) (October 3, 2022) Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include 8-23.2(9-34).OPT1.GR8, 8-23.4.OPT1.GR8, and 8-23.5.OPT1.GR8.

1 2 3 4			highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include 8-23.2(9-34).OPT1.GR8, 8-23.3(4)A.OPT1.GR8, and 8-23.5.OPT1.GR8.
5 6 7	8-23.5.GR8	Payı	ment
8 9 10	8-23.5.INS		(Section 8-23.5 is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16 17 18	8-23.5.C	PT1.GR8	(Temporary Adhesive Transverse Rumble Strips) (October 3, 2022) Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include 8-23.2(9-34).OPT1.GR8, 8-23.3(4)A.OPT1.GR8, and 8-23.4.OPT1.GR8.
20 21	8-24.GR8	Rock and	Gravity Block Wall, and Gabion Cribbing
22 23	8-24.2.GR8	Mate	erials
24 25 26	8-24.2.INS	T1.GR8	(Section 8-24.2 is supplemented with the following) Must use once preceding any of the following:
27 28 29 30	8-24.2.C)PT1.GR8	(Gravity Block Wall) (November 2, 2022) Use in projects constructing gravity block walls. Include with 8-24.3(2).OPT1.GR8.
31 32 33	8-24.3.GR8	Con	struction Requirements
34 35	8-24.3(2).G	R8	Gravity Block Wall
36 37 38	8-24.3(2	!).INST1.GR8	(Section 8-24.3(2) is supplemented with the following) Must use once preceding any of the following:
39 40 41 42 43	8-24	.3(2).OPT1.Gl	R8 (Gravity Block Wall) (January 7, 2002) Use in projects constructing gravity block walls. Include with 8-24.2.OPT1.GR8.
44 45	8-25.GR8	Glare Scr	een
46 47	8-25.1.GR8	Des	cription
48 49 50	8-25.1.INS		(Section 8-25.1 is supplemented with the following) Must use once preceding any of the following:
51 52 53	8-25.1.C	PT1.GR8	(April 1, 2002) Use in projects when the work zone analysis determines the need for temporary barrier screening.

1 2 3		8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.
4	8-25.2.GR8	Materials
5 6 7 8	8-25.2.INST1.GR8	(Section 8-25.2 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14	8-25.2.OPT1.GF	(April 1, 2002) Use in projects when the work zone analysis determines the need for temporary barrier screening. Must use with 8-25.1.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.
15 16	8-25.3.GR8	Construction Requirements
17 18 19	8-25.3.INST1.GR8	(Section 8-25.3 is supplemented with the following) Must use once preceding any of the following:
20 21 22 23 24 25	8-25.3.OPT1.GF	(April 1, 2002) Use in projects when the work zone analysis determines the need for temporary barrier screening. 8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.
26 27	8-25.4.GR8	Measurement
28 29 30	8-25.4.INST1.GR8	(Section 8-25.4 is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35	8-25.4.OPT1.GF	(April 1, 2002) Use in projects when the work zone analysis determines the need for temporary barrier screening. 8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.5.OPT1.GR8.
36 37	8-25.5.GR8	Payment
38 39 40 41	8-25.5.INST1.GR8	(Section 8-25.5 is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46	8-25.5.OPT1.GF	(April 1, 2002) Use in projects when the work zone analysis determines the need for temporary barrier screening. 8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.4.OPT1.GR8.
47 48	8-29.GR8 Wire	e Mesh Slope Protection
49 50	8-29.1.GR8	Description
51 52 53	8-29.1.INST1.GR8	(Section 8-29.1 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7	8-29.1.OP ⁻	T1.GR8	(Cable Net Slope Protection) (April 5, 2010) Use in projects with cable net slope protection. Include with 8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.
8	8-29.2.GR8	Ма	iterials
9 10 11 12	8-29.2.INST1	.GR8	(Section 8-29.2 is supplemented with the following) Must use once preceding any of the following:
13 14 15 16 17	8-29.2.OP	T1.GR8	(Cable Net Slope Protection Materials) (January 2, 2018) Use in projects with cable net slope protection. Include with 8-29.1.OPT1.GR8, 8-29.3.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.
18 19	8-29.3.GR8	Co	enstruction Requirements
20 21 22 23	8-29.3.INST1	.GR8	(Section 8-29.3 is supplemented with the following) Must use once preceding any of the following:
24 25 26 27 28 29	8-29.3.OP	T1.GR8	(Cable Net Slope Protection Construction Requirements) (January 3, 2011) Use in projects with cable net slope protection. Include with 8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.
30 31	8-29.4.GR8	Me	easurement
32 33 34	8-29.4.INST1	.GR8	(Section 8-29.4 is supplemented with the following) Must use once preceding any of the following:
35 36 37 38 39 40	8-29.4.OP	T1.GR8	(Cable Net Slope Protection) (April 5, 2010) Use in projects with cable net slope protection. Include with 8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, and 8-29.5.OPT1.GR8.
41	8-29.5.GR8	Pa	yment
42 43 44	8-29.5.INST1	.GR8	(Section 8-29.5 is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49 50	8-29.5.OP	T1.GR8	(Cable Net Slope Protection) (January 3, 2011) Use in projects with cable net slope protection. Include with 8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, and 8-29.4.OPT1.GR8.
51 52 53	8-31.GR8	Tempor	ary Stream Diversion

1 2	8-31.3.GR8	Construction	Requirements
3 4	8-31.3(1).GR8	General	
5 6	8-31.3(1)A.GR8	Genera	I TSD Requirements
7 8 9	8-31.3(1)A.I		ction 8-31.3(1)A is supplemented with the following) at use once preceding any of the following:
9 10 11 12 13 14 15 16 17 18 19 20	8-31.3(1)A.OPT1.FR8	(Minimum Stream Flows) (October 3, 2022) Use in all projects requiring a temporary stream diversion. Contact the HQ Hydraulics Office for fill-in information. If a contingency system is required, must also use 8-31.3(1)A.OPT2.FR8. (1 fill-in) Fill-in #1 is the minimum flow rate for the temporary stream diversion.
20 21 22 23 24 25 26 27 28 29 30	8-31.3(1)A.OPT2.FR8	(Minimum Stream Flows (Contingency System)) (October 3, 2022) Use in all projects requiring a contingency system for temporary stream. Contact the HQ Hydraulics Office for fill-in information. Must also use 8-31.3(1)A.OPT1.FR8. (1 fill-in) Fill-in #1 is the minimum flow rate for the contingency system.
31 32	8-31.3(2).GR8	Temporar	y Stream Diversion Plan
33 34	8-31.3(2)B.GR8	Plan Re	equirements
35 36 37	8-31.3(2) B.I	reac	n number 3a of Section 8-31.3(2)B is revised to the section 8-31.3(2)B is revised to
38 39 40 41	8 -31.3(2)B.OPT1.2024.G	R8 (February 6, 2023) Use in all projects requiring a temporary stream diversion.
42 43 44 45 46	8-31.3(2)B.I	with	n number 3 of Section 8-31.3(2)B is supplemented the following) It use once preceding any of the following:
46 47 48 49 50	8 -31.3(2)B.OPT2.2024.G	R8 (February 6, 2023) Use in all projects requiring a temporary stream diversion.
51 52	8-31.3(3).GR8	Fish Bloc Exclusion	k Net Installation and Fish and Aquatic Species
53 54	8-31.3(3)B.GR8	3 Contrac	cting Agency Provided Materials

1 2	8-31.3		Section 8-31.3(1)B is supplemented with the following)
3 4		ľ	Must use once preceding any of the following:
5 6 7 8 9 10 11 12 13	8-	31.3(3)B.OPT1.FR8	(Contracting Agency Furnished Materials) (October 3, 2022) Use in all projects where the Contracting Agency is supplying fish exclusion materials such as nets, sandbags, posts, or other materials required to complete fish exclusion including installing fish block nets. (1 fill-in) Fill-in #1 is the materials that will be supplied by the Contracting Agency.
15 16 17	8 -31.3(4).GI	R8 Dewate	ering Work Areas
18 19	8-31.3(4)		last paragraph of Section 8-31.3(4) is revised to read) tuse once preceding any of the following:
20 21 22 23 24	8-31. ć	, ,	3 (February 6, 2023) Jse in all projects requiring a temporary stream liversion.
25 26 27 28	8-SA1.GR8	Field Office Build (August 7, 2017) Use in projects wh	ding hen a field office building is required.
29 30 31 32 33 34	8-SA2.GR8	Bollards (October 3, 2022) Use in projects re Contact Headqua Type 3 Bollards.	
35 36 37 38 39 40 41 42 43 44 45 46	8-SA3.GR8	to soil type, slope State (Hydraulics high-risk soil eros monitoring of envi The Region Cons should be cons Environmental Co	Its where the project has a high risk of soil erosion due gradiant and work in or has proximity to waters of the Runoff Manual (HRM) defines projects susceptible for sion). Also for use on projects where there is extensive ironmental permit compliance. Struction Engineer and Region Environmental Office sulted for use as the provision introduces an ampliance Lead person that incorporates, expands, and as of the ESC Lead person.
47 48 49 50 51	8-SA4.FR8		
52 53 54		(1 fill-in) See https://wsdot.wa.g	template file at gov/publications/fulltext/projectdev/gspspdf/8-SA4_Fill-

1 2 3 4		<u>In.docx</u> for starting point. Contact HQ Hydraulics for fill in information to indicate the percentage of blends for streambed aggregates, coarse bands, coarse bars, meander bars, boulder cluster, or fine band material.
5	8-SA4(9-03.11).	GR8 (Streambed Aggregates)
6	,	Must use with 8-SA4.FR8.
7		
8	8-SA5.GR8	(Woody Material)
9		(October 3, 2022)
10		For use on projects that have logs with or without rootwads or slash
11		materials.
12		

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1
      8-10.GR8
 2
      Guide Posts
 3
 4
      8-10.1.GR8
 5
      Description
 6
 7
      8-10.1.INST1.GR8
 8
      Section 8-10.1 is supplemented with the following:
 9
10
      8-10.1.OPT1.NEW.GR8
          (November 20, 2023)
11
12
          This Work shall consist of furnishing and installing linear delineation panels in accordance
          with these Specifications, at the locations indicated in the Plans or where designated by
13
14
          the Engineer.
15
      8-10.1.OPT1.GR8
16
17
          (April 1, 2002)
          This Work shall consist of furnishing and installing barrier delineators on concrete barrier
18
19
          when barrier runs concurrent with guide post locations.
20
21
      8-10.2.GR8
22
      Materials
23
24
      8-10.2.INST1.GR8
25
      Section 8-10.2 is supplemented with the following:
26
27
      8-10.2.OPT1.NEW.GR8
28
          (November 20, 2023)
29
          Linear delineation panels shall consist of one of the following products:
30
                   3M Linear Delineation System – Series 340 – 6" high for barrier
31
                   3M Linear Delineation System – Series 340, 1-1/2" high for guardrail.
32
                   Luciol Systems Bidirectional Linear Delineation M.S. for barrier or guardrail.
33
          Only one system shall be selected and installed for the project.
34
35
36
37
          the manufacturer.
38
39
          Reflective sheeting shall be in accordance with Section 9-28.12.
40
41
      8-10.2.OPT1.GR8
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Adhesives and mechanical fasteners for linear delineation shall meet the requirements of

(October 3, 2022)

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Barrier delineators shall consist of a flat plastic reflector lens or reflective sheeting attached to a housing or bracket to facilitate the mounting of the delineator on concrete traffic barrier. The reflective surface shall be rectangular or trapezoidal shape with a minimum area of 9 square inches for reflectors and 12 square inches for reflective sheeting. The housing or bracket can be flexible or rigid, molded from a durable plastic or other durable material approved by the Engineer. Barrier delineators shall be one sided for single direction or two sided for bi-directional.

Reflectors shall be acrylic or polycarbonate. Reflectors shall equal or exceed the following minimum values of specific intensity:

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Observation	Entrance	Specific	Intensity	
Angle	Angle	cd/ft-c		
(Degrees)	(Degrees)	White	Yellow	
0.1	0	126	75	
0.1	20	50	30	

Reflective sheeting for barrier delineators shall be in accordance with Section 9-28.12.

8-10.3.GR8

Construction Requirements

8-10.3.INST1.GR8

Section 8-10.3 is supplemented with the following:

8-10.3.OPT1.NEW.GR8

(November 20, 2023)

General

<u>Installation of linear delineation panels shall follow manufacturer recommendations but</u> shall not be installed on top of concrete barriers or guardrail.

Spacing of linear delineation panels shall be as specified in the plans. Delineator color shall be white on the right of traffic and yellow on the left of traffic.

Attachment methods for linear delineation panels shall not rely solely on adhesives and shall utilize the manufacturer recommended method for mechanical fasteners.

Concrete Barrier

<u>Linear delineation panels shall be installed 6" from the top of concrete barrier unless otherwise shown on the Plans.</u>

Guardrail

<u>Linear delineation panels installed on beam guardrail shall be installed in the rail trough.</u>

<u>For installation on thrie beam guardrail the top trough shall be used.</u>

Linear delineation panels shall be installed at least 1 inch away from the outer edge of post rail attachment slots of beam guardrail. Linear delineation panels shall not be installed in, over, or through the rail slots located where the rail is attached to the guardrail posts and blocks.

8-10.3.OPT1.GR8

(April 1, 2002)

Barrier delineators shall be placed on the traffic face of the barrier six inches down from the top. Spacing shall be as shown in the plans. Delineator color shall be white on the right of traffic and yellow on the left of traffic. The surface of the barrier where the delineator is applied shall be free of dirt, curing compound, moisture, paint, or any other material that would adversely affect the bond of the adhesive. Install delineators with an adhesive recommended by the manufacturer.

8-10.3.OPT2.GR8

(April 1, 2002)

Barrier delineators shall be placed on the top of the barrier. Spacing shall be as shown in the plans. Delineator color shall be white on the right of traffic and yellow on the left of

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traffic. The surface of the barrier where the delineator is applied shall be free of dirt,
 2
          curing compound, moisture, paint, or any other material that would adversely affect the
 3
          bond of the adhesive. Install delineators with an adhesive recommended by the
 4
          manufacturer.
 5
 6
     8-10.4.GR8
 7
     Measurement
 8
 9
      8-10.4.INST1.GR8
10
      Section 8-10.4 is supplemented with the following:
11
12
     8-10.4.OPT1.NEW.GR8
13
          (November 20, 2023)
14
          Linear delineation panels will be measured by each panel furnished and installed.
15
16
     8-10.4.OPT1.GR8
          (April 1, 2002)
17
18
          Barrier delineators will be measured by the unit for each delineator furnished and
19
          installed.
20
21
     8-10.5.GR8
22
     Payment
23
24
      8-10.5.INST1.GR8
25
      Section 8-10.5 is supplemented with the following:
26
27
     8-10.5.OPT1.NEW.GR8
          (November 20, 2023)
28
29
          "Linear Delineation Panel for Concrete Barrier", per each.
          "Linear Delineation Panel for Guardrail" per each.
30
31
     8-10.5.OPT1.GR8
32
          (April 1, 2002)
33
          "Barrier Delineator", per each
```

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1
     8-11.GR8
 2
     Guardrail
 3
 4
     8-11.1.GR8
 5
     Description
 6
 7
     8-11.1.INST1.GR8
8
     Section 8-11.1 is supplemented with the following:
9
     8-11.1.OPT1.GR8
10
         (February 3, 2020)
11
12
         High-Tension Cable Barrier System (4 Cable)
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14
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```

This work consists of supplying and constructing high-tension cable barrier systems (cable, posts, compensating devices, fittings, and hardware), terminals, and transitions in conformity with the lines and grades as staked.

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8-11.1.OPT2.GR8 (April 1, 2019)

> This Work shall consist of applying an aesthetic treatment, either a powder coating or reactive coloring agent, to galvanized beam guardrail, galvanized guardrail posts, terminal ends and associated hardware that provides a "non-reflective" and "earth" tone colored finish (dark brown) that visually blends with the natural environment.

22 23 24

8-11.2.GR8 Materials

25 26

8-11.2.INST1.GR8

Section 8-11.2 is supplemented with the following:

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8-11.2.OPT2.FR8

(October 3, 2022November 20, 2023)

High-Tension Cable Barrier System (4 Cable)

The Contractor shall furnish a high-tension 4-cable barrier system, terminals, and transitions that meet the requirements of NCHRP Report 350the current version of AASHTO Manual for Assessing Safety Hardware (MASH-16) Test Level 3 or 4-that are designed for a minimum cable. Cable barrier tension of 3,000 pounds at an ambient air temperature of 70 degrees F. Alland breaking strength of all cable barrier fittings and connecting hardware shall have a minimum breaking strength of 36,000 poundsbe as specified by the manufacturer.

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The maximum allowable lateral deflection distance for the high-tension cable barrier system(s) on the project is:

42 43 44

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*** $$1$$ *** feet
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45 46 47

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The Contractor shall submit a Type 2 Working Drawing consisting of fabrication drawings and installation procedures. The Working Drawings shall specify all components used in the entire barrier system-and, document the barrier system deflection distances, and specify the required post spacing necessary to meet the maximum allowable deflection distances.

49 50 51

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The barrier system will be accepted based on a Manufacturer's Certificate of Compliance provided by the Contractor. The Manufacturer's Certificate of Compliance shall consist of a Contract specific letter from the manufacturer stating the system is NCHRP 350MASH-16 Test Level 3 or 4 compliant, a copy of the original FHWA eligibility letter(s) for the barrier system, documentation from the manufacturer describing any and all modifications that have been made to the system since the letter(s) were issued, and a statement from the manufacturer certifying that those modifications do not affect the performance of the original system.

8-11.2.OPT4.GR8

(April 1, 2019)

Powder Coating

Powder coating materials for coating galvanized surfaces shall be in accordance with Section 9-08.2. The color shall match SAE AMS Standard 595, color number 30045.

Reactive Coloring Agent

The reactive coloring agent shall consist of a stable, "non-reflective" "earth" tone (dark brown) colored finish on the surface of the galvanized materials. The reactive coloring agent shall only utilize oxidizers, metals, metal salts, and/or other trace elements applied directly to the galvanized surfaces to obtain the desired color. The chemical components of the reactive coloring agent shall have no adverse reactions or effects on soils, plants, or animals and shall not contain corrosive by-products once the product has been applied. Only nitrate fertilizer products are permitted to be present as soluble residues.

The reactive coloring agent shall be provided by either the following manufacturer or an accepted equal:

NATINA manufactured by Natina Products, LLC 1577 First Street
Coachella, CA 92236
Telephone: (877) 762-8462
www.natinaproducts.com

8-11.2(9-16.3).GR8

8-11.2(9-16.3(2)).GR8

Posts and Blocks

8-11.2(9-16.3(2)).INST1.GR8

Beam Guardrail

Section 9-16.3(2) is supplemented with the following:

8-11.2(9-16.3(2)).OPT1.GB8

44 (April 6, 2015)

Shear plates and backing plates shall conform to ASTM A 36, and shall be galvanized after fabrication in accordance with AASHTO M 111.

8-11.2(9-16.3(2)).OPT2.GB8

49 (April 6, 2015)

50 Grout for post bases shall conform to Section 9-20.3(2). 51

General Special Provisions Division 8-11

1 2 3 4 5 6	8-11.2(9-16.3(2)).OPT3.GB8 (April 6, 2015) Steel angles connecting the timber blockout to the existing steel truss members shall conform to either ASTM A 36 or ASTM A 992, and shall be galvanized in accordance with AASHTO M 111.
7 8 9 10	8-11.2(9-16.3(2)).OPT4.GB8 (April 6, 2015) HSS steel tubing shall conform to ASTM A 500 Grade B, and shall be galvanized after fabrication in accordance with AASHTO M 111.
11 12 13 14 15	Steel bars, plates, and shapes shall conform to ASTM A 36, and shall be galvanized after fabrication in accordance with AASHTO M 111, except that structural shapes may conform to ASTM A 992.
16 17	Galvanized sheet metal shall conform to ASTM A 653, Coating Designation G 235.
18 19 20	Paving bulkheads, timber blocking, and custom cut shims shall be Douglas Fir- Larch No. 2 or better, and shall be treated as specified in this Section.
21 22 23	Rubberized asphalt shall conform to ASTM D 6690 (Type 1 for bridge locations in Western Washington, and Type 2 for bridge locations in Eastern Washington).
24 25 26 27	8-11.2(9-16.3(4)).GB8 Hardware Section 9-16.3(4) is supplemented with the following:
28 29 30 31 32	8-11.2(9-16.3(4)).OPT1.GB8 (April 6, 2015November 20, 2023) Resin bonded anchors shall conform to Sections 6-02.23(18)A and 6-02.3(18) as supplemented in these Special Provisions9-06.4.
33 34 35 36	8-11.2(9-16.3(4)).OPT2.GB8 (April 6, 2015) Lag screws shall conform to Section 9-06.22.
37 38 39 40	8-11.3.GR8 Construction Requirements
41 42 43	8-11.3.INST1.GR8 Section 8-11.3 is supplemented with the following:
44 45 46 47	8-11.3.OPT1.FR8 (October 3, 2022) Installing Steel Posts on Existing Box Culverts Field Measurements
48 49 50 51	The Contractor shall obtain field measurements both vertically and horizontally at each location steel posts are to be installed on the existing box culvert. The Contractor shall calculate the steel post lengths for fabrication using the field measurement information obtained.

General Special Provisions Division 8-11

52

Submittals

The Contractor shall remove surfacing materials from the top of the box culvert and shall determine the length of the posts. Prior to post and rail fabrication the Contractor shall submit Type 2 Working Drawings in accordance with Section 1-05.3. The Working Drawings shall include plan and elevation views of each post location on the culvert. The plan view drawing shall show the station and offset of each post on the culvert. The elevation view drawing shall show the top of culvert elevation at each post location, the top of surfacing elevation at each post location, the top of post elevation, and the length of post at each post location.

Excavation

The Contractor shall excavate an area extensive enough to allow the top of the culvert to be cleaned of all dirt, oil, and debris, installation of the baseplate, backfilled, and properly compacted around the posts.

Post Installation

See the Contract plans for the method of steel post attachment to the box culvert (embedded or bolt through). Steel posts shall be installed in accordance with Standard Plan C-20.41 or Standard Plan C-20.43.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. To avoid damaging the existing steel reinforcing bars, the location of the holes may be shifted slightly with the acceptance of the Engineer. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

Backfilling

After the posts are installed on the box culverts, the excavated areas shall be backfilled and compacted in 6-inch maximum lifts. Compaction shall be accomplished with three passes with a mechanical tamper. When culvert posts are installed through HMA, repair the roadway with materials matching the existing surfacing depths. Use Commercial HMA in accordance with Section 5-04.

Additional Box Culvert Guardrail Steel Post Assemblies

For each culvert with embedded or bolt through guardrail steel posts, furnish and deliver one complete set of Box Culvert Guardrail Steel Post Assemblies. Box Culvert Guardrail Steel Post Assemblies shall be delivered to the Contracting Agency locations as listed below:

Location (SR & MP)	Location/Contact Phone Number
*** \$\$1\$\$ ***	*** \$\$2\$\$ ***
*** \$\$3\$\$ ***	*** \$\$4\$\$ ***

A complete set of assemblies will include the following:

When using Embedded Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.41):

 Steel Post and Base Plate Assembly – One replacement post and base plate for each post installed on culvert

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2. Embedded Anchor Bolt Assemblies including four threaded rods, bolts, and resin adhesive for each post installed on culvert

When using Bolt-Thru Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.43):

- Steel Post and Base Plate Assembly One replacement post and base plate for each post installed on culvert
- 2. Bottom Plate One plate for each post installed on culvert
- 3. Hex Head Bolts, Nuts, & Washers 4 bolts, 4 nuts, and 8 washers for each post installed on culvert

Provide 48-hours' notice to both the Engineer and the contact(s) listed above prior to delivery. Damaged items will not be accepted and shall be replaced at no cost to the Contracting Agency.

8-11.3.OPT2.FR8

(October 3, 2022November 20, 2023)

High-Tension Cable Barrier System (4 Cable)

A manufacturer's representative, or an installer who has been trained and certified by the unit's system's manufacturer within the last 5 years and for the specific system(s) being installed; shall supervise the assembly and installation of the system at all times. Provide The Contractor shall provide a copy of the installer's certification to the Engineer prior to installation.

Assemble and install the high-tension cable barrier system according to the manufacturer's recommendations. This shall include the connection connecting cable barrier to guardrail, guardrail transitions, and the transition and terminal sections/or guardrail terminals when identified in the Plans. Submit any Contractor proposed modification in barrier location, type, terminal or transition to the Engineer for approval a minimum of 10-days prior to any work in the affected section.

Unless otherwise stated in the Plans, all High-tension cable barrier line posts shall be aone of the following types:

- (1) A socket type assembly; with the actual cable barrier line post being inserted into a sleeve encased in a cast_in_place or precast reinforced concrete post foundation and will be installed as recommended specified by the manufacturer.
- (2) A socket type assembly with the line post being inserted into a direct driven socket assembly as specified by the manufacturer.
- (3) Direct driven posts as specified by the manufacturer.

On every 6th-<u>line</u>post, install yellow retro-reflective markers in accordance with the <u>manufacturer's manufacturer's</u> system<u>and Section 9-28.12. The retro-reflective markers</u> shall be applied to a clean and dry line post.

Unless otherwise stated in the Plans, all high-tension cable barrier terminal anchor posts shall be a socket type assembly with the cable barrier post being inserted into a sleeve encased in a cast-in-place or precast reinforced concrete post foundation and installed as specified by the manufacturer. Delineate the terminal anchor posts for approach traffic

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9-28.12. The object markers shall be applied to a clean and dry terminal post.

Terminal Placement

Unless otherwise stated in the Plans, the foundations for the high-tension cable barrier terminals shall be cast in place or precast concrete and shall be installed in accordance with manufacturer's recommendations. If a precast concrete foundation is installed, the bottom of the unit shall have a full and even bearing on the surface under it. If there is a need for backfilling an excavation, use Controlled Density Fill (CDF) in accordance with Section 2-09.3(1) E. Delineate the anchor posts for approach traffic with Type 3 lateral clearance markers (object markers) in accordance with Section 9-28.12.

with yellow Type IV lateral clearance markers (object markers) in accordance with Section

Additional High-Tension Cable Barrier Components

Furnish and deliver one complete set of High-Tension Cable Barrier to each of the Contracting Agency sites listed below:

*** \$\$1\$\$ ***

Include the following components with each complete set:

One-hundred line posts and all associated hardware including but not limited to spacers, connectors, straps, caps and covers. If the system has a special post to accommodate turnbuckles, then 5 of the line posts shall be these special posts.

Twenty sockets except when concrete sockets are used.

One 50-foot long section of cable used for the contract.

ThreeFour cable splices and 34 turnbuckle assemblies for a 3-cable system or 4 cable splices and 4 turnbuckle assemblies for a 4-cable system (1-assembly consists of a left- and right-hand threaded end with a turnbuckle).

One tension measuring device as recommended by the manufacturer.

One anchor post designed for use with the foundations installed.

Ten line terminal posts and all associated hardware.

Provide 48-hours hour notice to both the Engineer and the maintenance contact listed above prior to delivery. Damaged items will not be accepted and shall be replaced at no cost to the Contracting Agency.

8-11.3.OPT4.GR8

44 (April 1, 2019) 45 Aesthetic treat

Aesthetic treatments to the galvanized W-beam guardrail, galvanized guardrail posts, galvanized guardrail terminals, and associated galvanized hardware shall be performed using either a powder coating or reactive coloring agent. The Contractor shall apply powder coating or reactive coloring agent to all galvanized steel rail, posts, other galvanized steel parts, and impact head components of the beam guardrail as specified in the Plans. Confirm that the manufacturer of proprietary guardrail terminals allows the use of powder coatings or reactive coloring agents prior to applying them.

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 Only the top 30 inches on any guardrail post length to be exposed above ground shall receive aesthetic treatment.

The color of the finish coat shall be a dark brown. The Contractor shall furnish a one-foot minimum length test section of galvanized W-beam guardrail treated with the proposed aesthetic treatment product to the Engineer for acceptance. The test section shall be prepared in accordance with the manufacturer's instructions.

The Engineer will provide acceptance in writing accepting the color of the test section prior to acceptance of any permanently incorporated material into the project.

Powder Coating

Powder coating of galvanized surfaces shall be in accordance with Section 6-07.3(11)B.

Reactive Coloring Agent

Application of the reactive coloring agent to galvanized surfaces shall be in accordance with the following:

The reactive coloring agent shall be applied using the same methods used for the accepted test section. The treated material shall develop full coloration within two weeks of application and achieve a color consistent with the color of the authorized test section.

The Contractor shall apply the reactive coloring agent prior to delivering the steel components to the project site. The reactive coloring agent manufacturer or the manufacturer's authorized application contractor shall apply the reactive coloring agent for both the test section and production applications. Application of the reactive coloring agent shall fully coat the galvanized steel in accordance with the manufacturer's written instructions and achieve the accepted surface color. Once the reactive coloring agent is applied, the Contractor shall protect the steel pieces from abrasion that would remove the brown color.

After the various guardrail components have been installed, the Contractor shall apply the reactive coloring agent to any steel products that did not receive adequate coloring, or where the color was removed during the shipment or the construction process. This remedial action shall coat the affected area. Any reactive coloring agent applied in the field shall be cured according to manufacturer's specifications, and shall be applied while protecting soil, plants, and surrounding natural surfaces.

8-11.3.OPT5.FR8

(October 3, 2022)

Installing Steel Posts on New Box Culverts

Post Installation

See the Contract plans or culvert Working Drawings for the method of steel post attachment to the box culvert (embedded or bolt through). Steel posts shall be installed in accordance with Standard Plan C-20.41 or Standard Plan C-20.43.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. To avoid damaging the existing steel reinforcing bars, the location of the holes may be shifted slightly with the acceptance of the Engineer. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

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1 2 3 4 5	Additional Box Culvert Guardrail Steel Post Assemblies For each culvert with embedded or bolt through guardrail steel posts, furnish and deliver one complete set of Box Culvert Guardrail Steel Post Assemblies. Box Culvert Guardrail Steel Post Assemblies shall be delivered to the Contracting Agency locations as listed below:				
6	Во	ox Cu	Ivert Designation & Location (SR & MP)	Contracting Agency Delivery Location/Contact Phone Number	
			*** \$\$1\$\$ ***	*** \$\$2\$\$ ***	
			*** \$\$3\$\$ ***	*** \$\$4\$\$ ***	
7 8 9	A complete set of assemblies will include the following:				
10 11	When using Embedded Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.41):				
12 13 14		1.	Steel Post and Base Plate Ass base plate for each post instal	sembly – One replacement post and lled on culvert	
17 bolts, and resin adhesive				mblies including Four threaded rods, each post installed on culvert	
18 19 20	When using Bolt-Thru Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.43):				
21 22 23		1.	Steel Post and Base Plate Ass base plate for each post instal	sembly – One replacement post and lled on culvert	
24 25 26		2.	Bottom Plate – One plate for e	each post installed on culvert	
27 28		3.	Hex Head Bolts, Nuts, & Wasl each post installed on culvert	hers – 4 bolts, 4 nuts, and 8 washers for	
29 30 31 32	Provide 48-hours' notice to both the Engineer and the contact(s) listed above p delivery. Damaged items will not be accepted and shall be replaced at no cost Contracting Agency.				
33					
34	8-11.3(1).GR8				
35	Beam Guard	drai	I		
36	,				
37	8-11.3(1).INST1.GR8				
38	Section 8-11.3(1) is supplemented with the following:				
39	0.44.0/4\.CDT4.0				
40	` ,	8-11.3(1).OPT1.GR8			
41	(April 5, 2010)				
42 43	This project may contain a mixture of steel and wood posts. The bidder is advised that post selection will be as detailed in the plans and these specifications.				
43 44	เกลเ post	Sele	ction will be as detailed in the	pians and these specifications.	
44 45	8-11.3(1)A.GR8				
45 46	Erection of Posts				
40 47	Election	1 01 1	้บอเอ		

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45 46 47

8-11.3(1)A.INST1.GR8

Section 8-11.3(1)A is supplemented with the following:

8-11.3(1)A.OPT1.GB8 (April 6, 2015)

Timber Blockouts for Beam Guardrail Type Thrie Beam

The Contractor shall cut and trim the timber blocks as necessary to conform to the shape of the existing concrete baluster rail, and to align the beam guardrail element, as shown in the Plans.

When the specified timber blockout spacing places a block at an existing concrete end post or intermediate post, the Contractor shall core drill holes into the existing concrete as shown in the Plans and as follows. The Contractor shall not shatter or damage the concrete adjacent to the holes. Location of blockout assemblies may be shifted slightly within the tolerance specified in the Plans in order to reduce the risk of damage to existing steel reinforcing bars. However, once a blockout assembly position is established, damage to existing steel reinforcing bars caused by subsequent core drilling operations at that assembly location is acceptable.

8-11.3(1)A.OPT2.GB8

(January 4, 2016)

Steel Posts for Beam Guardrail Type Thrie Beam

The Contractor shall field measure the dimension of the existing curb above the existing wearing surface at each curb line for each bridge receiving beam guardrail Type Thrie Beam. The field measured dimensions, and all adjustments to the field measurements required by planing and paving operations included in this project, shall be included in the steel post assembly shop drawings submitted in accordance with Section 8-11.3(1)G.

8-11.3(1)A.OPT3.GB8

(September 8, 2020)

Beam Guardrail Type WP Thrie Beam

The Contractor shall field measure the depth of the existing ballast and wearing course at both wheel guard lines, and shall include the dimensions at both wheel guard lines in the steel post mounting bracket shop drawings submitted in accordance with Section 8-11.3(1)G.

The Contractor shall remove the existing ballast and wearing course to the top of existing timber deck in the vicinity of the steel post anchorage locations, and shall dispose of the removed surfacing materials in accordance with Section 2-02.3.

As shown in the Plans, the Contractor shall place a timber block beneath the timber deck at each steel post anchorage location and against the existing exterior timber stringer.

The Contractor shall install the steel post anchorage assembly, including the deck plate, distribution plate, bearing plate, base plate, backing plate, and HSS steel tube post, as shown in the Plans. Timber deck shims shall be cut and trimmed as necessary to align the top of the vertical webs of the steel post anchorage 1/2 inch below the top of the surrounding wearing course surfacing,

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in accordance with the existing timber deck transverse slope and existing ballast and wearing course depth specified in the shop drawings.

The Contractor may field drill holes through the steel components in accordance with Section 6-03.3(27) except as otherwise noted. The Contractor shall identify all holes to be field drilled in the steel fabrication shop drawings. The Contractor may field drill the holes using hand held drills provided that the Contractor submits the method and equipment used to the Engineer for approval, and that the Contractor receives the Engineer's acceptance of the submittal prior to beginning hand drilling. The Contractor shall repair all galvanized steel surfaces damaged by field drilling operations by painting the damaged areas with one coat of paint conforming to Section 9-08.1(2)B.

The Contractor shall replace all existing ballast and wearing course removed in the vicinity of the steel post anchorage locations to the top of the surrounding surfacing. The Contractor shall fill the void with an HMA surfacing material accepted by the Engineer.

8-11.3(1)B.GR8

Erection of Rail

8-11.3(1)B.INST1.GR8

Section 8-11.3(1)B is supplemented with the following:

8-11.3(1)B.OPT6.GB8

(April 6, 2015)

Field Measuring to Existing Type 3 Anchors

The Contractor shall field measure the dimension from the centerline of the existing Type 3 anchors specified for reuse to the end of the existing concrete curb and railbase or concrete baluster railing end blocks of the adjacent bridge. The Contractor shall submit these dimensions to the Engineer along with a Type 2 Working Drawing showing the arrangement of the thrie beam guardrail elements and approach guardrail elements relative to the existing Type 3 anchors and concrete curb and railbase or concrete baluster railing end blocks for each bridge as applicable.

8-11.3(1)B.OPT7.GB8

(April 6, 2015)

Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts

The Contractor shall fasten the thrie beam element to the timber blockout assemblies such that the steel shear plates fit snug against the surface forming the opening through the concrete baluster rail.

The Contractor may field drill the holes through the thrie beam elements in accordance with Section 6-03.3(27), except as otherwise noted. The Contractor may field drill the holes using hand held drills.

The Contractor shall repair all galvanized steel surfaces damaged by field drilling operations by painting the damaged areas with one coat of paint conforming to Section 9-08.1(2)B.

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1	8-11.3(1)B.OP18.GB8
2	(September 13, 2021)
3	Thrie Beam Expansion Joint Element
4	Where beam guardrail Type Thrie Beam crosses bridge interior expansion joints,
5	the Contractor shall place a thrie beam expansion section element conforming
6	to Standard Plan C-25.22 or C-25.26.
7	
8	8-11.3(1)B.OPT9.GB8
9	(April 6, 2015)
10	Beam Guardrail Type WP Thrie Beam
11	The Contractor may field drill the holes through the thrie beam elements in
12	accordance with Section 6-03.3(27), except as otherwise noted. The Contractor
13	may field drill the holes using hand held drills.
14	may hold arm the holds doing harla hold arms.
15	The Contractor shall repair all galvanized steel surfaces damaged by field drilling
16	operations by painting the damaged areas with one coat of paint conforming to
17	Section 9-08.1(2)B.
18	Occilon 5-00. 1(2)B.
19	After completing the beam guardrail retrofit and replacing the surfacing at the
20	steel post anchorage locations on the bridge up to the level of the surrounding
21	surfacing, the Contractor shall install the sheet metal water barrier, when the
22	water barrier is shown in the Plans. A bonding layer of rubberized asphalt shall
22 23	
23 24	be applied to the surfacing contact area immediately prior to installing the water
	barrier assembly. The direction of overlap of adjacent water barrier segments
25 26	shall be as directed by the Engineer.
26 27	0 11 2/1\D CD0
2 <i>1</i> 28	8-11.3(1)D.GR8
	Removing Guardrail and Guardrail Anchor
29	9 11 2/1\D INICT1 CD9
30	8-11.3(1)D.INST1.GR8
31	Section 8-11.3(1)D is supplemented with the following:
32	0.44.0(4)D.ODT4.OD0
33	8-11.3(1)D.OPT1.GB8
34	(September 8, 2020)
35	Beam Guardrail Type WP Thrie Beam
36	The Contractor shall remove the existing bridge guardrail posts and railing, the
37	existing timber wheel guards, all associated fasteners, and the existing ballast
38	and wearing course in the vicinity of the steel post anchorage assemblies of the
39	bridges being retrofitted with beam guardrail Type WP Thrie Beam as shown in
40	the Plans
41	
42	The items specified above shall be removed as follows:
43	
44	 The Contractor shall remove the existing timber wheel guards before
45	beginning the beam guardrail retrofit work.
46	
47	The Contractor shall not remove any section of the existing bridge
48	railing system on the bridge until completing the beam guardrail
49	retrofit within that section of the bridge, except as otherwise specified.
50	The Contractor may remove portions of the existing bridge railing
51	system on the bridge which conflict with the anchorages, posts, and
52	rail elements of the retrofit, provided:

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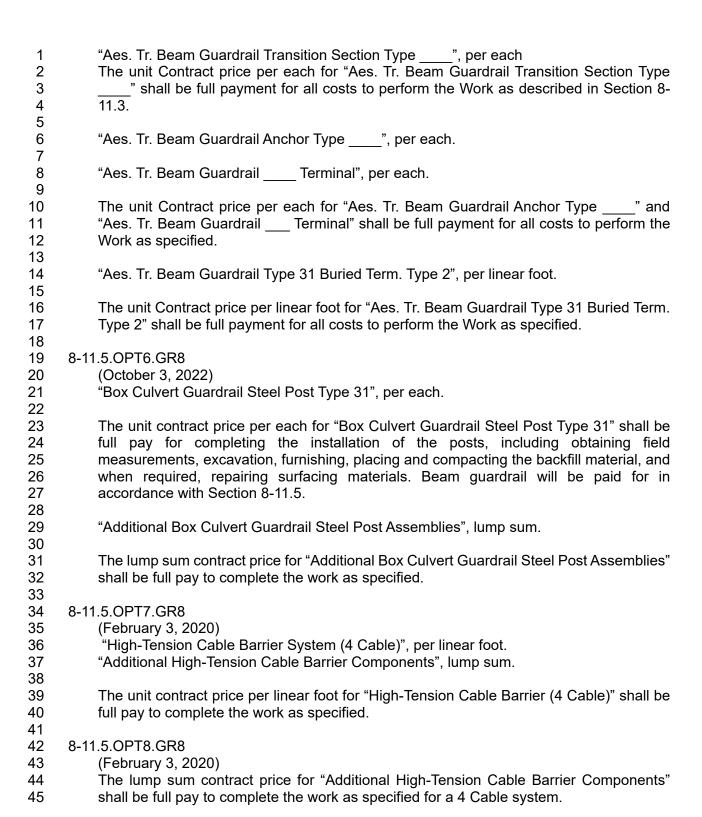
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tensioning device, slip base post, sleeves, caps, and all hardware.

barrier to guardrail terminals, foundations, sockets, concrete, compensating devices,

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1
     8-11.4.OPT4.GR8
 2
          (April 2, 2018)
 3
          Measurement of Aesthetic Treatment for beam quardrail will be by the linear foot
 4
          measured along the line of the completed guardrail, including expansion sections and the
 5
          end section for F connections.
 6
 7
          Measurement for Aesthetic Treatment for beam guardrail transition section will be per
 8
          each for the type of transition section installed.
 9
10
          Measurement for Aesthetic Treatment for beam guardrail anchor type specified will be per
          each for the completed anchor, including the attachment of the anchor to the guardrail.
11
12
13
          Measurement of Aesthetic Treatment beam guardrail terminal will be per each for
14
          the completed terminal.
15
16
          Measurement of Aesthetic Treatment beam guardrail Type 31 buried terminal Type 2 will
17
          be per linear foot for the completed terminal.
18
      8-11.4.INST2.GR8
19
20
     The fifth paragraph of Section 8-11.4 is revised to read:
21
22
     8-11.4.OPT5.2024.GR8
23
          (November 2, 2022)
24
          Measurement for beam guardrail anchor Type 11 will be per each for the completed
25
          anchor, including the attachment of the anchor to the guardrail.
26
27
     8-11.5.GR8
28
     Payment
29
30
      8-11.5.INST1.GR8
31
     In Section 8-11.5, the bid item for "Beam Guardrail Anchor Type 10", per each is revised to
32
     read:
33
34
     8-11.5.OPT3.2024.GR8
35
          (November 2, 2022)
36
          "Beam Guardrail Anchor Type 11", per each.
37
38
      8-11.5.INST2.GR8
39
      Section 8-11.5 is supplemented with the following:
40
41
      8-11.5.OPT1.GR8
42
          (April 2, 2018)
          "Aes. Tr. Beam Guardrail Type", per linear foot
43
44
          "Aes Tr. Beam Guardrail Type 1- Ft. Long Post", per linear foot.
45
46
          "Aes Tr. Beam Guardrail Type 31- Ft. Long Post", per linear foot.
47
48
49
          The unit Contract price per linear foot for "Aes. Tr. Beam Guardrail Type", "Aes Tr.
          Beam Guardrail Type 1- Ft. Long Post", and "Aes Tr. Beam Guardrail Type 31-
50
          Ft. Long Post", shall be full payment for all costs to perform the Work as specified.
51
```

52



1	8-12.GR8
2	Chain Link Fence and Wire Fence
4 5 6	8-12.2.GR8 Materials
7 8 9	8-12.2.INST1.GR8 Section 8-12.2 is supplemented with the following:
10 11 12 13 14	8-12.2.OPT1.FR8 (September 8, 2020) Coated Chain Link Fence Chain link fence fabric shall be hot-dip galvanized with a minimum of 0.8 ounce per square foot of surface area.
15 16 17 18 19 20	Fencing materials shall be coated with an ultraviolet-insensitive plastic or other inert material at least 2 mils in thickness. Any pretreatment or coating shall be applied in accordance with the manufacturer's written instructions. The Contractor shall provide the Engineer with the manufacturer's written specifications detailing the product and method of fabrication. The color shall match SAE AMS Standard 595 color number *** \$\$1\$\$\$***.
21 22 23 24	Samples of the coated fencing materials shall have received the Engineer's acceptance prior to installation on the project.
25 26 27	The Contractor shall supply the Engineer with 10 aerosol spray cans containing a minimum of 14 ounces each of paint of the color specified above. The touch-up paint shall be compatible with the coating system used.
28 29 30 31 32	8-12.2.OPT6.GB8 (September 3, 2019 November 20, 2023) Cable Fence Steel pipe shall conform to ASTM A 53A53, Grade B, Type E or S.
33 34	Steel bars, plates, and shapes shall conform to ASTM A 36A36.
35 36 37 38	Steel components shall be galvanized after fabrication in accordance with AASHTO M 111.
39 40	Resin bonded anchors shall conform to Section 6-02.2 as supplemented in these Special Provisions Sections 6-02.3(18)A and 9-06.4.
41 42 43	Proof coil chain shall conform to ASTM A413 Grade 30.
44 45 46	Spelter sockets and turnbuckles shall conform to the size and breaking strength requirements specific in the Plans, shall be compatible with the wire rope selected by the Contractor, and shall be galvanized after fabrication in accordance with AASHTO M 232.
47 48 49	Wire rope shall conform to one of the following:
50 51	1. ASTM A 603A603 with Class A weight zinc-coated wires throughout.

1 2 3 4	2.	ASTM A 1023A1023 with drawn galvanized wires throughout in accordance with ASTM A 1007A1007. Acceptance of ASTM A 1023A1023 wire rope is contingent upon the Contractor furnishing a Type 1 Working Drawing certifying that the lot of supplied wire rope has a minimum modulus of elasticity of 15,000 ksi when	
5 6		tested in accordance with ASTM <u>A 931 A931</u> Section 3.2.17.	
7 8	3.	Phillystran HPTG 27000 I as manufactured by:	
9 10 11 12 13		Phillystran, Inc. 151 Commerce Drive Montgomeryville, PA 18936-9628 (215) 368-6611 www.phillystran.com	
14 15	8-12.3.GR8		
16		on Requirements	
17 18	8-12.3.INST	1 GR8	
19 20		3.3 is supplemented with the following:	
21	8-12.3.OPT1	I.GB8	
22	Cable I	Fence	
23 24	8-12.3.OPT1	(A) CB8	
25	(April 6,		
26	, ·	ntractor shall field measure the slope of the top of the existing retaining wall a	
27 28	each lo	cation of cable fence end post and intermediate brace. The Contractor shall repeat the	
29 30	8-12.3.OPT1	(R) GB8	
31		2015November 20, 2023)	
32 33	The Cor	ntractor shall submit shop drawings of the cable fence in accordance with Section 7). The shop drawings shall include, at a minimum, the following:	
34 35 36	1.	Plan, elevation, and section views of the cable fence and all components, with dimensions and tolerances.	
37 38 39	2.	Material designations for all components.	
40 41	3.	Socketing procedure for the spelter sockets.	
42 43	4.	Erection plan for installing the posts, installing and connecting the cable to the posts, and tensioning the cable.	
44 45 46 47		ntractor shall install resin bonded anchors in accordance with SectionSections 6-) as supplemented in these Special Provisions A and 9-06.4.	
48 49	The cable shall be tensioned to 400 pounds with six inches minimum of take up st available in the turnbuckle.		
50	0.40.0.0074	(C) CD2	
51 52	8-12.3.OPT1		
5 Z	(Januar)	y 10, 2022)	

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1
          The Contractor shall clean, prepare, and shop paint or powder coat all exposed
 2
          galvanized surfaces of the cable fence post assemblies in accordance with Section 6-
 3
          07.3(11). The color of the finish coat, when dry, shall match SAE AMS Standard 595 Color
          No. 20045. After installation of the cable fence posts, any surfaces with paint or powder
 4
 5
          coating damage shall be repaired in accordance with Section 6-07.3(10)P or Section 6-
 6
          07.3(11)B6, respectively.
 7
 8
      8-12.4.GR8
 9
      Measurement
10
11
      8-12.4.INST1.GR8
12
      Section 8-12.4 is supplemented with the following:
13
14
      8-12.4.OPT1.GB8
15
          (April 6, 2015)
          Cable fence will be measured by the linear foot along the line and slope at the base of
16
17
          the completed fence.
18
19
      8-12.5.GR8
20
      Payment Payment
21
22
      8-12.5.INST1.GR8
23
      Section 8-12.5 is supplemented with the following:
24
      8-12.5.OPT1.GR8
25
26
          (April 1, 2002)
27
          "Coated Chain Link Fence Type ____", per linear foot.
          Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in
28
29
          accordance with Section 2-01.5.
          "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each.
30
31
          "Double 14 Ft. Coated Chain Link Gate", per each.
          "Double 20 Ft. Coated Chain Link Gate", per each.
32
33
          "Single 6 Ft. Coated Chain Link Gate", per each.
34
      8-12.5.OPT6.GB8
35
36
          (April 6, 2015)
```

(April 6, 2015)
"Cable Fence", per linear foot.

37

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1 2 3	8-20.GR8 Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical
4 5	8-20.2.GR8
6	Materials
7 8	8-20.2.INST1.GR8
9	Section 8-20.2 is supplemented with the following:
10	Contain o Loi Libraria and and and and and and and and and an
11	8-20.2.OPT1.GB8
12	(April 6, 2015)
13 14 15	Traffic Signal Standard Foundation Shaft Casing All permanent casing shall be a smooth wall non corrugated structure of steel base metal. All permanent casing shall be of ample strength to resist damage and deformation from
16 17	transportation and handling, installation stresses, and all pressures and forces acting on the casing. The casing shall be clean prior to placement in the excavation. The
18	permanent casing may be telescoped, but the outside diameter of the casing shall not be
19	less than the specified diameter of the shaft.
20	•
21	8-20.2(9-29.1).GR8
22	Conduit, Innerduct, and Outerduct
23	0.00.0/0.00.4/44)\ OF0
24 25	8-20.2(9-29.1(11)).GR8 Foam Conduit Sealant
26	Section 9-29.1(11) is supplemented with the following:
27	Section 3-23. I(11) is supplemented with the following.
28	8-20.2(9-29.1(11)).OPT1.GR8
29	(January 7, 2019)
30	The following products are accepted for use as foam conduit sealant:
31	
32	CRC Minimal Expansion Foam (No. 14077)
33	Polywater FST Foam Duct Sealant Output in the description Forms Continued.
34 35	Superior Industries Foam SealTodol Duo Fill 400
36	10d0i Du0 Fiii 400
37	8-20.2(9-29.2).GR8
38	Junction Boxes, Cable Vaults, and Pull Boxes
39	Section 9-29.2 is supplemented with the following:
40	
41	8-20.2(9-29.2).OPT1.GR8
42	(September 3, 2019)
43	Slip-Resistant Surfacing for Junction Boxes, Cable Vaults, and Pull Boxes
44 45	Where slip-resistant junction boxes, cable vaults, or pull boxes are required, each
45 46	box or vault shall have slip-resistant surfacing material applied to the steel lid and frame of the box or vault. Where the exposed portion of the frame is ½ inch wide or
4 0 47	less, slip-resistant surfacing material may be omitted from that portion of the frame.
48	,p

Slip-resistant surfacing material shall be identified with a permanent marking on the underside of each box or vault lid where it is applied. The permanent marking shall be formed with a mild steel weld bead, with a line thickness of at least 1/8 inch. The marking shall include a two character identification code for the type of material used

General Special Provisions Division 8-20

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and the year of manufacture or application. The following materials are approved for application as slip-resistant material, and shall use the associated identification codes:

- 1. Harsco Industrial IKG, Mebac #1 Steel: M1
- 2. W. S. Molnar Co., SlipNOT Grade 3 Coarse: \$3
- 3. Thermion, SafTrax TH604 Grade #1 Coarse: T1

8-20.2(9-29.6).GR8

Light And Signal Standards

Section 9-29.6 is supplemented with the following:

8-20.2(9-29.6).OPT1.GR8

(January 13, 2021)

Light Standards with Type 1 Luminaire Arms

Lighting standards shall be fabricated in conformance with the methods and materials specified on the pre-approved Plans listed below, provided the following requirements have been satisfied:

- (a) Light source to pole base distance (H1) shall be as noted in the Plans. Verification of H1 distances by the Engineer, prior to fabrication, is not required. Fabrication tolerance shall be \pm 6 inches.
- (b) All other requirements of the Special Provisions have been satisfied.

Fabricator	Pre-Approved Drawing No.	Rev.	Mounting Height(s) (feet)
Valmont Ind., Inc.	DB01164, Sheets 1-5 of 5	В	30, 35, 40, and 50
Ameron Pole Products Division	WA15LT3721, Sheets 1 and 2 of 2	А	20, 25, 30, 35, 40, 45, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-BB, Sheets 1 and 2 of 2	Н	30, 35, 40, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-ELBOW, Sheets 1-3 of 3	J	30, 35, 40, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-SB, Sheets 1-3 of 3	G	30, 35, 40, and 50

8-20.2(9-29.6).OPT2.GR8

(January 13, 2021)

Light Standards with Type 1 Luminaire Arms

Lighting standards shall be fabricated in conformance with the methods and materials specified on the pre-approved plans listed below, provided the following requirements have been satisfied:

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- (a) Mounting heights shall be as specified in the Plans.
- (b) Light source to pole base distances (H1) shall be determined or verified by the Engineer prior to fabrication. Fabrication tolerance shall be ±6 inches.
- (c) All other requirements of the Special Provisions have been satisfied.

Fabricator	Pre-Approved Drawing No.	Rev.	Mounting Height(s) (feet)
Valmont Ind., Inc.	DB01164, Sheets 1-5 of 5	В	30, 35, 40, and 50
Ameron Pole Products Division	WA15LT3721, Sheets 1 and 2 of 2	А	20, 25, 30, 35, 40, 45, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-BB, Sheets 1 and 2 of 2	Н	30, 35, 40, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-ELBOW, Sheets 1-3 of 3	J	30, 35, 40, and 50
Millerbernd Manufacturing Co.	74515-WA-LP1-SB, Sheets 1-3 of 3	G	30, 35, 40, and 50

8-20.2(9-29.6).OPT5.GR8

(June 6, 2023)

Traffic Signal Standards

Traffic signal standards shall be furnished and installed in accordance with the methods and materials noted in the applicable Standard Plans, pre-approved plans, or special design plans.

All welds shall comply with the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. Welding inspection shall comply with Section 6-03.3(25)A Welding Inspection.

Hardened washers shall be used with all signal arm connecting bolts instead of lockwashers. All signal arm ASTM F 3125 Grade A325 connecting bolts tightening shall comply with Section 6-03.3(33).

Traffic signal standard types, applicable characteristics, and foundation types are as follows:

Type PPB

Pedestrian push button posts shall conform to Standard Plan J-20.10 or to one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01165 Rev. B (4 sheets)
Ameron Pole	WA15TR10-1 Rev. C (1 sheet) and
Products Division	WA15TR10-3 Rev. B (1 sheet)

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Millerbernd Manufacturing,	74514-WA-PED-PPB Rev J (2 sheets)
Co.	

Foundations shall be as noted in Standard Plan J-20.10

Type PS, Type I, Type RM, and Type FB

Type PS pedestrian signal standards, Type I vehicle signal standards, Type RM ramp meter signal standards, and Type FB flashing beacon standards shall conform to Standard Plan J-20.16, J-21.15, J-21.16, and J-22.15 respectively, or to one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01165 Rev. B (4 sheets)
Ameron Pole	WA15TR10-1 Rev. C (1 sheet) and
Products Division	WA15TR10-2 Rev. C (1 sheet)
Millerbernd	
Manufacturing,	74514-WA-PED-FB Rev. H (2 sheets)
Co.	, ,
Millerbernd	
Manufacturing	74514-WA-PED-SB Rev. H (2 sheets)
Co.	

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Foundations shall be as noted in Standard Plan J-21.10.

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Type II

Type II signal standards are single mast arm signal standards with no luminaire arm or extension. Type II standards shall conform to one of the following preapproved plans. Maximum arm length (in feet) and wind load (XYZ value, in cubic feet) is noted for each manufacturer.

Fabricator	Pre-Approved Drawing No.	Max. Arm Length (ft)	Max. Wind Load (XYZ) (ft³)
Valmont Ind., Inc.	DB01162 Rev. B (5 sheets)	65	3206
Ameron Pole Products Division	WA15TR3724-1 Rev. C (sheet 1 of 2), and WA15TR3724-2 Rev. D (sheet 2 of 2)	65	2935
Millerbernd Manufacturing, Co.	74516-WA-TS-II Rev. L (4 sheets)	65	3697

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Foundations shall be as noted in the Plans and Standard Plan J-26.10. Type II signal standards with two mast arms installed 90 degrees apart may use these pre-approved drawings. Standards with two arms at any other angle are Type SD and require special design.

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Type III

Type III signal standards are single mast arm signal standards with one Type 1 (radial davit type) luminaire arm. The luminaire arm has a maximum length of

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November 20, 2023

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16 feet and a mounting height of 30, 35, 40, or 50 feet, as noted in the Plans. Type III standards shall conform to one of the following pre-approved plans. Maximum arm length (in feet) and wind load (XYZ value, in cubic feet) is noted for each manufacturer. Wind load limit includes a luminaire arm up to 16 feet in length.

Fabricator	Pre-Approved Drawing No.	Max. Arm Length (ft)	Max. Wind Load (XYZ) (ft³)
Valmont Ind., Inc.	DB00162 Rev. B (5 sheets), with Type "J" luminaire arm	65	3259
Ameron Pole Products Division	WA15TR3724-1 Rev. C (sheet 1 of 2), and WA15TR3724-2 Rev. D (sheet 2 of 2), with Series "J" luminaire arm	65	2988
Millerbernd Manufacturing, Co.	74516-WA-TS-III-J Rev. L (5 sheets)	65	3750

Foundations shall be as noted in the Plans and Standard Plan J-26.10. Type III signal standards with two mast arms installed 90 degrees apart may use these pre-approved drawings. Standards with two arms at any other angle are Type SD and require special design.

Type IV

Type IV strain pole standards shall be consistent with the Plans and Standard Plan J-27.15 or one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01167 Rev. B (2 sheets)
Ameron Pole	WA15TR15 Rev. A (2 sheets)
Products Division	**************************************
Millerbernd	
Manufacturing,	74554-WA-SP-IV Rev. H (2 sheets)
Co.	

Foundations shall be as noted in the Plans and Standard Plan J-27.10.

Type V

Type V strain poles are combination strain pole and light standards, with Type 1 (radial davit type) luminaire arms. Luminaire rams may be up to 16 feet in length, and a mounting height of 40 or 50 feet, as noted in the Plans. Type V strain poles shall be consistent with the Plans and Standard Plan J-27.15 or one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01167 Rev. B (2 sheets),
Ameron Pole Products Division	WA15TR15 Rev. A (2 sheets)
Millerbernd Manufacturing, Co.	74554-WA-SP-V Rev. J (3 sheets)

Type CCTV

Type CCTV camera pole standards shall conform to Standard Plan J-29.15 or to one of the following pre-approved plans:

Foundations shall be as noted in the Plans and Standard Plan J-27.10.

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01166 Rev. C (4 sheets)
Ameron Pole Products Division	WA15CCTV01 Rev. B (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC1 Rev. H (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC2 Rev. H (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC3 Rev. H (3 sheets)

Foundations shall be as noted in the Plans and Standard Plan J-29.10.

Type SD

Type SD signal standards are outside the basic requirements of any pre-defined signal standard and require special design. All special design shall be based on the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and pre-approved plans and as follows:

- 1. A 115 mph wind loading shall be used.
- 2. The Mean Recurrence Interval shall be 1700 years.
- 3. Fatigue category shall be III.

Complete calculations for structural design, including anchor bolt details, shall be prepared by a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural Engineering or by an individual holding valid registration in another state as a civil or structural Engineer.

All shop drawings and the cover page of all calculation submittals shall carry the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration. The cover page shall include the contract number, contract title, and sequential index to calculation page numbers. Two copies of the associated design calculations shall be submitted for approval along with shop drawings.

Details for handholes and luminaire arm connections are available from the Bridges and Structures Office.

Foundations for Type SD standards shall be as noted in the Plans.

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1 8-20.2(9-29.6(2)).GR8 2 Slip Base Hardware 3 The second sentence of Section 9-29.6(2) is revised to read: 4 5 8-20.2(9-29.6(2)).OPT1.2025.GR8 6 (November 20, 2023) 7 The keeper plate shall be either 28 or 26 gage and conform to ASTM A653 8 coating designation G 90. 9 10 8-20.2(9-29.6(3)).GR8 11 <u>Timber Light Standards, Timber Strain Poles, Timber Service Supports</u> The third and fourth paragraph of Section 9-29.6(3) are revised to read: 12 13 14 8-20.2(9-29.6(3)).OPT1.GR8 15 (November 20, 2023) All poles shall be treated with DiChloro-Octyl-Isothiazolin (DCOI) or 16 pentachlorophenol in accordance with Section 9-09.3(1). 17 18 19 Tops shall be sawed before treatment. Where holes are field bored in poles to 20 accommodate hanging bolts for brackets, transformers, guy assemblies, or 21 other accessories, such holes shall be painted with an appropriate repair 22 preservative in accordance with Standard Specification 9-09.3(1) (Copper 23 Naphthenate or Oxine Copper in accordance with AWPA Standard M4). 24 25 8-20.2(9-29.6(5)).GR8 26 **Foundation Hardware** 27 Section 9-29.6(5) is supplemented with the following: 28 29 8-20.2(9-29.6(5)).OPT1.GR8 30 (January 13, 2021) Anchor bolt assemblies for light standards installed on top of barrier (median 31 32 barrier mount) shall consist of the following: 33 34 (4) 1-inch diameter threaded rods (bolts), minimum 36 inches in 35 length 36 (24) heavy hex nuts, six per anchor rod 37 (24) flat washers, six per anchor rod 38 Two anchor plates 39 40 Each anchor plate shall be constructed from 1/2" ASTM A36 plate and hot-dip galvanized in accordance with AASHTO M111. Each anchor plate shall be ring 41 shaped, with an outside diameter of 16 inches and an inside diameter of 12 42 43 inches. Each anchor plate shall have four 1 1/8" diameter holes on a 13.89" bolt circle, with the holes positioned to match the anchor rod layout shown in the 44 45 Standard Plans. 46 47 Anchor rods shall extend a minimum of five inches and a maximum of six inches 48 above the top of the traffic barrier. The lower anchor plate shall be embedded 29 inches below the top of the traffic barrier. Each anchor plate shall be clamped 49 50 with a heavy hex nut and washer above and below the anchor plate. The lower

General Special Provisions Division 8-20

top of the traffic barrier.

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heavy hex nut for the pole base plate shall be no more than one inch from the

8-20.2(9-29.13).GR8

Control Cabinet Assemblies

Section 9-29.13 is supplemented with the following:

8-20.2(9-29.13).OPT1.GR8

(January 2, 2018)

Uninterruptible Power Supply (UPS)

Each UPS System shall provide battery backup power to the cabinet to which it is connected in the event of loss or failure of normal utility power. Each UPS system shall be constructed for full on line configuration (line interactive type), providing automatic voltage regulation and power conditioning when operating on normal utility power. The transfer between utility power and battery power shall not interfere with the normal operation of the connected downstream cabinet.

Each UPS System shall be capable of supplying a minimum 1000W load at 120 VAC for a minimum number of hours depending on the number of batteries specified:

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Four batteries: Minimum 4 hours run time.

Eight batteries: Minimum 8 hours run time.

Each UPS System shall be composed of the following equipment:

UPS Cabinet Construction

Each UPS Cabinet shall be constructed as follows. The equipment shall be installed within the cabinet as shown in the Plans.

- The cabinet shall be designated Type 331, consisting of Housing 1B and Mounting Cage 1 as described in the CalTrans TEES. The housing shall use 0.125 inch minimum thickness 5052 H32 ASTM B209 alloy aluminum, with bare mill finish. The exterior shall not be anodized or painted.
- 2. Each cabinet door shall be provided with:
 - A three point latch system. Locks shall be spring loaded construction locks capable of accepting a Best 6 pin core. A 6 pin construction core of the type (blue, green, or red) specified in the contract shall be installed in each core lock. One core removal key and two standard keys shall be included with each cabinet and delivered to the Engineer.

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b. A one piece, closed cell, neoprene gasket.

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A two position doorstop assembly. The doorstops shall hold the door open at both 90 degrees and 180 +/- 10 degrees.

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Cabinet lighting shall be provided by two LED light strips. Each LED light strip shall be approximately 12 inches long, have a minimum output of 320 lumens, and have a color temperature of 4000K (cool white) plus or minus 400K. Lighting shall not interfere with the proper

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Page 8 November 20, 2023

operation of any other ceiling or shelf mounted equipment. All lighting fixtures shall energize whenever any door is opened. Each door switch shall be labeled "Light". Both light strips shall be ceiling mounted - rack mounted lights are not allowed. One light strip shall be installed over the front face of the rack and the second shall be installed over the rear face of the rack. Each light strip shall be oriented parallel to the door face, and placed such that the associated face of the rack and the rack mounted equipment is illuminated.

- 4. Cabinet ventilation shall be as described in the TEES for a Type 332L cabinet. The door vent filter shall be a 12 inch by 16 inch by 1 inch thick (nominal) disposable paper filter.
- 5. A UPS Service Panel, installed on the left side of the cabinet as viewed from the front. This service panel shall include the following, positioned as shown in the Plans:
 - a. Two three-position terminal blocks. Each terminal block shall be labeled "Power IN" or "Power OUT" as appropriate.
 - b. Two 120V 1P-15A circuit breakers, one each for the cabinet lighting and the cabinet ventilation (fan and thermostat).
 - c. A Tesco TES-10B (or equivalent) Surge Suppressor.
 - d. A HESCORLS LF60X (or equivalent) Line Filter.
 - e. A neutral (AC-) bus bar, with minimum 10 connections.
 - f. A ground bus bar, with minimum 10 connections.
- 6. Three battery shelves, each 0.5U (Rack Unit) in height. Each shelf shall be vented and capable of supporting three AlphaCell 240XTV batteries without visibly flexing. Each shelf shall span the full width and depth of the rack, and be secured to all of the rack verticals.
- 7. One drawer shelf, 1U in height.
- 8. A Generator Transfer Switch (GTS) and enclosure, meeting the requirements of Section 9-29.13(8). The GTS shall be installed in place of the Police Panel Switch enclosure as shown on a Type 332L cabinet. The lock shall have an aluminum rain shield cover riveted to the cabinet housing.

UPS System Components

The following UPS System Equipment shall be provided and installed within the cabinet as shown in the Plans. All equipment shall be from Alpha Technologies unless otherwise noted.

 One UPS Controller, model FXM 2000 w/SNMP module operating at 120 VAC, Part Number (P/N) 017-232-31. The UPS Controller shall

include the 19" EIA rack mount kit, P/N 740-697-21, and support shelf, P/N 3610030085.

- One Universal Automatic Transfer Switch (UATS) Accessory Shelf Assembly (P/N 020-168-25), consisting of a Surge Arrestor Assembly (P/N 740-755-21), UATS (P/N 020-165-21), and 120V Single Duplex Plate (P/N 740-748-23).
- 3. Four or eight AlphaCell 240XTV Batteries, as required by the Contract. Where four batteries are required, they shall be installed with two each on the middle and lower battery shelves. Where eight batteries are required, the upper and middle battery shelves shall hold three batteries each, with the remaining two installed on the lower battery shelf. Batteries shall be labeled with their string ID and number in the string. The first four batteries shall be labeled A1 through A4, and the second four batteries (when required) shall be labeled B1 through B4.
- Remote Battery Monitoring System Plus. Use P/N 03760260-002 for cabinets requiring four batteries. Use P/N 03760260-003 for cabinets requiring eight batteries.
- 5. 48V Battery Cable Kit, 10ft in length with 1/4-20 termination(s), P/N 740-628-27. Where eight batteries are required, a second battery cable kit and a Y-Connector (P/N 870-601-21) shall also be included.
- Battery Heater Mats, one per shelf with batteries installed, sized for the number of batteries present on that shelf. Each mat shall run on 120VAC and be plugged into the duplex receptacle on the Accessory Shelf Assembly.

Three sets of cabinet drawings and maintenance and operations manuals shall be provided. Two sets shall be hard copies in paper format and placed in the cabinet drawer shelf. The third shall be electronic in PDF format and provided on a portable USB flash drive (stick) and placed in the cabinet drawer shelf.

Contact information for Alpha Technologies:

Alpha Technologies, Inc.

3767 Alpha Way Bellingham, WA 98226

Phone: (360) 647-2360 E-mail: alpha@alpha.com Website: www.alpha.ca

8-20.2(9-29.13(10)).GR8

NEMA and Type 2070 Controllers and Cabinets

8-20.2(9-29.13(10)D).GR8

 Cabinets for Type 2070 Controllers

General Special Provisions Division 8-20

1 2 3	8-20.2(9-29.13(10)D).INST1.GR8 Item 1 of Section 9-29.13(10)D is revised to read:
4 5 6 7 8	8-20.2(9-29.13(10)D).OPT1.2024.GR8 (February 6, 2023) Each cabinet door shall be furnished with the equipment listed in Section 9-29.13(10)C item 6 above.
9 10 11	8-20.2(9-29.13(10)D).INST2.GR8 Item 1 of Section 9-29.13(10)D is supplemented with the following:
12 13 14 15 16 17 18 19 20	8-20.2(9-29.13(10)D).OPT2.GR8 (February 6, 2023) Removable Door Handles Cabinet doors shall be provided with a ½-inch hex key socket in place of a handle. The hex socket and locking cam shall rotate on a 0.5-inch minimum diameter shaft. No portion of the socket assembly shall extend beyond the face of the door, such that the socket cannot be rotated by locking pliers or a similar gripping device. No door handles or hex keys shall be provided.
21 22 23 24	8-20.2(9-29.13(11)).GR8 Traffic Data Accumulator and Ramp Meters Section 9-29.13(11) is supplemented with the following:
25 26 27 28 29 30 31 32 33 34	8-20.2(9-29.13(11)).OPT1.GR8 (July 6, 2021November 20, 2023) Advanced Transportation Controller All new Traffic Data Accumulator (Data Station) and Ramp Meter cabinets shall be provided with a Type ATC 2070 Controller as shown in the Plans. Each controller shall comply with Advanced Transportation Controller (ATC) Standard Version 06 (ATC 5201 v06.25), and shall support both C12S serial bus operation and C1S (104 pin) parallel bus operation. Each controller shall be supplied with the following options and equipment:
35 36 37 38 39 40	 Board Support Package, in electronic format (see ATC 5201, Paragraph 3.3.1) 2070-1C Engine Board (CPU Module) 2070-2E Field I/O Module 2070-3B or 2070-3D Front Panel 2070-4A Power Supply Module
41 42 43 44	A spare blank cover (4X wide), designed to cover the slot for the 270-2E module when it is removed, shall also be provided.
45 46 47 48	ATC Controllers are required to be preapproved by WSDOT to ensure compatibility with WSDOT ITS operating software. The following controllers have been verified compatible with WSDOT ITS operating software and are preapproved:
49 50 51	1. Model: Intelight 2070-LDX
52	Manufacturer:

1		ee America
2	5962	La Place Ct SE, Ste. 150
3	Carls	bad, CA 92008
4	(833)	MAXHELP (833-629-4357)
5		intelight-its.com
6		intelight-its.com
7	<u> </u>	mtongrit ito.oom
8	2 Mode	el: McCain ATC 2070LX
9	Z. Wode	incodin A10 2010EX
10	Manu	ıfacturer:
		ain, Inc.
11		
12		Oak Ridge Way
13		, CA 92801
14		262-2246
15		<u>)mccain-inc.com</u>
16	WWW.	mccain-inc.com
17		
18	3. <u>Mode</u>	el: Siemens ATCYunex 2070LX ATC
19		
20	Manu	ıfacturer:
21		x, LLC
22		nerly Siemens Mobility, Inc)
23		Bee CaveCaves Road
24		ing B, Suite 101
25		n, TX 78733
26		837-8300 ita a i a sa a a sa () a () a la trad
27	<u>lidom</u>	ity.siemens.com/us/en.html
28		
29	4. <u>Mode</u>	el: Safetran ATC 2070LX
30		
31		<u>ıfacturer:</u>
32	<u>Econ</u>	<u>olite</u>
33	<u>1250</u>	N Tustin Ave
34	<u>Anah</u>	eim, CA 92807
35	(714)	630-3700
36	www.	econolite.com
37		
38	8-20.2(9-29.13(11)).OPT2.0	R8
39	(February 6,	
40	•	Door Handles
41		s shall be provided with a $\frac{5}{8}$ -inch hex key socket in place of a
42		nex socket and locking cam shall rotate on a 0.5-inch minimum
43		t. No portion of the socket assembly shall extend beyond the face
44		uch that the socket cannot be rotated by locking pliers or a similar
45	gripping device	e. No door handles or hex keys shall be provided.
46	0.00.040.00.4044033.000	
47	8-20.2(9-29.13(12)).GR8	
48	Type 331L ITS Ca	binet
49		
50	8 -20.2(9-29. 13(12)).INST1.	
51	Item 3 of Section (9-29.13(12) is revised to read:
52		

1 2 3 4	(Fe	2)).OPT1.2024.GR8 bruary 6, 2023) ch cabinet door shall be furnished with the equipment listed in Section 9- 13(10)C item 6 above.					
5 6 7 8	8-20.2(9-29.13(1) Item 3 o	2)).INST2.GR8 If Section 9-29.13(12) is supplemented with the following:					
9 10 11 12 13 14 15 16 17	Rei Cal har dial of t	bruary 6, 2023) movable Door Handles pinet doors shall be provided with a %-inch hex key socket in place of a ndle. The hex socket and locking cam shall rotate on a 0.5-inch minimum meter shaft. No portion of the socket assembly shall extend beyond the face the door, such that the socket cannot be rotated by locking pliers or a similar oping device. No door handles or hex keys shall be provided.					
18 19 20		GR8 Seacon Control 1.15 is supplemented with the following:					
21 22 23 24 25 26 27 28 29 30	(January 7, 2019) Rapid Flashing Beacons Rapid Flashing Beacon (RFB) indications shall comply with the dimensional operational, and flash pattern requirements of Federal Highway Administration (FHWA) Interim Approval 21 (IA-21, Conditions 4, 5, and 6, excluding Condition 5 https://mutcd.fhwa.dot.gov/resources/interim_approval/ia21/index.htm). RF systems shall be capable of providing, at a minimum, the following two-chann						
31 32	1.	NEMA Standard 50-50:					
33 34 35		Channel one is ON and channel two is OFF for 0.5 seconds.					
36		Channel one is OFF and channel two is ON for 0.5 seconds.					
37 38		(Cycle repeats; the total flashing pattern cycle length is 1.00 second.)					
39 40	2.	RFB "WW+S" Pattern (IA-21 Condition 5b):					
41 42		Channel one is ON and channel two is OFF for 0.05 seconds.					
43 44		Both channels are OFF for 0.05 seconds.					
45 46		Channel one is OFF and channel two is ON for 0.05 seconds.					
47 48		Both channels are OFF for 0.05 seconds.					
49 50		 Channel one is ON and channel two is OFF for 0.05 seconds. 					
51 52		Both channels are OFF for 0.05 seconds.					

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Interconnect cable for installation between pushbutton station and pedestrian display interface unit. Four conductor cable meeting the requirements of Standard Specification 9-29.3(2)B or 9-29.3(2)G may be used if it meets the pushbutton manufacturer's requirements. Otherwise, cable shall be provided by the pushbutton manufacturer.

The following shall be provided at each intersection:

- One USB flash drive with copies of all voice message audio files for that intersection, placed in the traffic signal cabinet drawer or drawing envelope. A separate flash drive is required for each intersection.
- One USB cable of the appropriate type (A to A, A to B, male/female, etc.), placed in the traffic signal cabinet drawer or drawing envelope for connection of a laptop to the APS button.

Any other equipment or software required by the manufacturer for setup, operation, and maintenance of the pushbutton stations shall be provided.

Dual button adaptor brackets are required for all installations with two APS pushbuttons on the same Type PPB, Type PS, or Type I Signal Standard. Where dual button adaptor brackets are required, they shall be obtained from the same manufacturer as the pushbutton station - brackets from other manufacturers shall not be used.

Extensions, when allowed, shall be in accordance with WSDOT Standard Detail IS-2 (see https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plansheet-library/illumination-signals-and-its#IS-2). Where the signal system is owned by another agency, extensions shall be in accordance with the owning agency's requirements.

APS Speech Messages

Speech messages shall be provided in the following format:

- "Wait."
- "Wait to cross ____(A)___ at ___(B)___."
 "Walk sign is on to cross ____(A)___."

Tables with the entries for (A) and (B) above, as well as quantities for button and arrow orientations, are provided in the Plans for each intersection.

Order forms shall be completed by the Contractor using the information presented above.

Each APS pushbutton shall include a label tape with the text "Crossing (A) at (B)", where (A) and (B) are the street names as described here and programmed into the pushbutton. The label shall be installed directly on the side or back of the APS pushbutton and shall remain intact and legible until final installation.

Delivery and Setup

All APS pushbuttons shall be delivered to the region signal shop or owning agency shop for verification and owner setup. After the owning agency has completed setup,

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Page 15 November 20, 2023

1 2	the Contractor will be notified that the APS pushbuttons are ready for pickup and installation.
3	
4	Wireless access features (Bluetooth and/or WiFi), if included, will be disabled upon
5	installation.
6	
7	Approved APS Equipment
8	APS equipment shall be one of the following systems:
9	7 to 6 equipment shall be one of the following systems.
10	1. Model: Campbell Guardian Independent 4-Wire APS
	1. Wodel. Campbell Guardian independent 4-vville APS
11	Common outo.
12	Components:
13	APS Pushbutton Kit: KAC-32021-2BT
14	Pedestrian Display Interface Unit: 501-0300 SPI
15	
16	<u>Manufacturer:</u>
17	Campbell Company
18	450 W McGregor Dr
19	Boise, ID 83705
20	(208) 345-7459
21	www.pedsafety.com
22	www.podsdioty.som
23	2. Model: Pelco IntelliCross Intelligent Pedestrian System
	2. Model. Pelco intenioross intenigent Pedestrian System
24	Common outer
25	Components:
26	APS Pushbutton: SE-2901-#-P30 9x15
27	Pedestrian Display Interface Unit: SE-6190-PNC
28	
29	<u>Manufacturer:</u>
30	Pelco Products, Inc.
31	320 W 18th St
32	Edmond, OK 73013
33	(405) 340-3435
34	intellicross@pelcoinc.com
35	www.pelcointellicross.com
36	www.percontrellioress.com
	3. Model: Polara iNS iNavigator Push Button Station
37	3. Model: Polara iNS iNavigator Push Button Station
38	Common outer
39	Components:
40	APS Pushbutton: iNS23TN1-G
41	Pedestrian Display Interface Unit: iPHCU3S
42	PC Interface Module: iN-DGL (one per intersection; place in cabinet
43	drawer).
44	
45	<u>Manufacturer:</u>
46	Polara Enterprises
47	1497 CR 2178
48	Greenville, TX 75402
49	(903) 366-0300
50	www.polara.com
51	www.polara.com
52	Only one brand of equipment shall be used for the entire Contract.
JZ	Only one braile of equipment shall be used for the entire Contract.

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8-20.2(9-29.24).GR8

Service Cabinets

Item 3 of Section 9-29.24 is supplemented with the following:

8-20.2(9-29.24).OPT1.GR8

(February 6, 2023)

Removable Door Handles

Service cabinet doors shall be provided with a 5/8-inch hex key socket in place of a handle for customer sections of the service cabinet. The hex socket and locking cam shall rotate on a 1/2-inch minimum diameter shaft. The socket assembly shall either be:

Flush with the face of the door, such that no portion of the socket assembly extends beyond the face of the door, and it cannot be rotated by locking pliers or a similar gripping device; or

Protected by a ring of 6061-T6 aluminum tubing. The tubing shall have a minimum wall thickness of 0.125 inches. The ring shall extend at least 0.15 inches beyond the end of the socket and shall provide no more than 0.07 inches of clearance from the socket such that the socket cannot be gripped by pliers or a similar gripping device. The ring shall be attached to the door using three ½-inch fillet welds, each ¾-inch long, evenly spaced around the outer circumference of the tube.

One hex key door handle shall be provided with each cabinet.

8-20.2(9-29.25).GR8

Amplifier, Transformer, and Terminal Cabinets

Item 3 of Section 9-29.25 is supplemented with the following:

8-20.2(9-29.25).OPT1.GR8

(February 6, 2023)

Removable Door Handles

Transformer cabinet doors shall be provided with a \%-inch hex key socket in place of a handle for customer sections of the service cabinet. The hex socket and locking cam shall rotate on a 1/2-inch minimum diameter shaft. The socket assembly shall either be:

Flush with the face of the door, such that no portion of the socket assembly extends beyond the face of the door, and it cannot be rotated by locking pliers or a similar gripping device; or

Protected by a ring of 6061-T6 aluminum tubing. The tubing shall have a minimum wall thickness of 0.125 inches. The ring shall extend at least 0.15 inches beyond the end of the socket and shall provide no more than 0.07 inches of clearance from the socket such that the socket cannot be gripped by pliers or a similar gripping device. The ring shall be attached to the door using three ½-inch fillet welds, each ¾-inch long, evenly spaced around the outer circumference of the tube.

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One hex key door handle shall be provided with each cabinet.

General Special Provisions Division 8-20

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1
 2
      8-20.2(1).GR8
 3
          Equipment List And Drawings
 4
 5
      8-20.2(1).INST1.GR8
 6
          Section 8-20.2(1) is supplemented with the following:
 7
 8
      8-20.2(1).OPT1.GR8
 9
               (March 13, 1995)
10
               Pole base to light source distances (H1) for lighting standards with pre-approved
11
               plans shall be as noted in the Plans.
12
13
               Pole base to light source distances (H1) for lighting standards without pre-approved
14
               plans will be furnished by the Engineer as part of the final approved shop drawings,
15
               prior to fabrication.
16
17
     8-20.2(1).OPT2.GR8
18
               (March 13, 1995)
19
               Pole base to light source distances (H1) for lighting standards with pre-approved
20
               plans will be determined or verified by the Engineer at the request of the Contractor
21
               prior to fabrication.
22
23
               Pole base to light source distances (H1) for lighting standards without pre-approved
24
               plans and for combination traffic signal and lighting standards will be furnished by the
25
               Engineer as part of the final approved shop drawings prior to fabrication.
26
      8-20.2(1).OPT3.GR8
27
28
               (March 13, 1995)
29
               If traffic signal standards, strain pole standards, or combination traffic signal and
30
              lighting standards are required, final verified dimensions including pole base to signal
31
               mast arm connection point, pole base to light source distances (H1), mast arm length,
32
               offset distances to mast arm mounted appurtenances, and orientations of pole
33
               mounted appurtenances will be furnished by the Engineer as part of the final
34
               approved shop drawings prior to fabrication.
35
36
      8-20.3.GR8
37
      Construction Requirements
38
39
      8-20.3(1).GR8
40
          General
41
42
      8-20.3(1).INST1.GR8
43
          Section 8-20.3(1) is supplemented with the following:
44
45
      8-20.3(1).OPT1.FR8
46
               (November 20, 2023)
47
               Salvaged Equipment
48
               The following equipment designated for removal shall remain the property of
               WSDOT:
49
               ***
50
51
                      $$$1$$$
```

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The contractor shall deliver this equipment to the following addresses as appropriate: 2 3 All poles (light poles, signal poles, etc.): 4 ***\$\$\$2\$\$\$*** 5 6 All other equipment: 7 ***\$\$\$3\$\$\$*** 8 9 All equipment deliveries shall be made during normal business hours. The point of contact is the ***\$\$\$4\$\$\$*** Region Signal Superintendent at ***\$\$\$5\$\$***. 10 11 12 All other existing electrical equipment and materials designated to be removed shall become the property of the Contractor and be removed from the project. 13 14 15 8-20.3(4).GR8 16 **Foundations** 17 18 8-20.3(4).INST1.GR8 19 Section 8-20.3(4) is supplemented with the following: 20 21 8-20.3(4).OPT1.FB8 22 (August 7, 2017) 23 **Shafts For Signal Standard Foundations** 24 Shaft foundations for the traffic signal standards at the following location(s) shall be 25 constructed in accordance with the following requirements: 26 *** \$\$1\$\$ *** 27 28 29 Shaft foundations for traffic signal standards shall be constructed in accordance with 30 Section 6-19.3, except as follows: 31 32 **Quality Assurance** 33 The tolerance for placing the center at the top of shaft under Section 6-19.3(1)A 34 is revised for traffic signal standard foundation shafts to be within 4-inches of the 35 Plan location. 36 37 Non-destructive testing of shafts under Sections 6-19.3(1)B and 6-19.3(9) and 38 associated Work under Section 6-19.3(6) does not apply. 39 40 **Shaft Excavation** 41 Permanent casing advanced during excavation operations is required full depth

for all traffic signal standard shaft foundation locations specified at the beginning of this Special Provision. Excavation in advance of the casing tip shall not exceed three feet. In no case shall shaft excavation and casing placement extend below the bottom of shaft excavation as shown in the Plans.

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> When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the portion of the shaft excavation in the geological unit that contains the obstruction, then the Contractor shall remove, break-up, or push aside, the obstruction under the provisions of Section 8-20.5 as supplemented in these Special Provisions.

General Special Provisions Division 8-20

1												
2	Placing Concrete											
3	Traffic signal standard foundation shaft concrete shall be Class 4000P.											
4												
5	Casing Removal											
6	Tops of permanent casing for the shafts shall be removed to at least 6-inches											
7	beneath the finish groundline, unless otherwise specified by the Engineer.											
8												
9												
10	8-20.3(5).GR8											
11	Conduit											
12												
13	8-20.3(5)E.GR8											
14	Method of Condui	t Instal	lation)								
15												
16	8-20.3(5)E.INST1.GR8											
17	Section 8-20.3(5)E	is supp	lemer	nted w	ith th	e follo	wing:					
18												
19	8-20.3(5)E.OPT1.GR8											
20	(February 6, 2											
21	CDF Encased											
22	Where two 4-i											
23	fiber-optic cabl											
24	installed by op											
25	where shown in	n the Pla	ans ar	nd bad	сктше	d in ad	ccorda	ance v	vith th	e Sta	ndard I	rians.
26	0.00.0(0).000											
27	8-20.3(8).GR8											
28	Wiring											
29	0.00.0(0) INICTA CD0											
30	8-20.3(8).INST1.GR8		ابد اممه	:46 46 0	falla							
31 32	Section 8-20.3(8) is sup	piemen	tea w	iun une	HOHO	wing:						
32 33	9 20 2/9) ODT1 CD9											
34	8-20.3(8).OPT1.GR8 (March 13, 1995)											
35	Field Wiring Chart											
36	501	AC+ Ir	anut			516 5	30 D	ailroa	d Pre-	amnt		
37	502	AC- In	-							Pre-er	mnt	
38	503-510	Contro	•	nlav						16-61	πρι	
39	511-515	Sign L		лау		541-580 Coordination 581-599 Spare						
40	011-010	Oigii L	ignio			001-0	,00 O	Jaic				
41	Movement Number		1	2	3	4	5	6	7	8	9	
42	Mevenient Humber		•	_	Ū	•		Ŭ	•	Ū	Ū	
43	Vehicle Head											
44	Red		611	621	631	641	651	661	671	681	691	
45	Yellow		612	622	632		652	662	672	682	692	
46	Green		613	623	633		653	663	673	683	693	
47	Spare		614	624	634	644	654	664	674	684	694	
48	Spare		615	625	635		655	665	675	685	695	
49	AC-		616	626	636		656	666	676	686	696	
50	Red Auxiliary		617	627	637	647	657	667	677	687	697	
51	Yellow Auxiliar	y	618	628	638		658	668	678	688	698	
52	Green Auxiliary	/	619	629	639	649	659	669	679	689	699	

1	Pedestrian Heads & Dets.									
2	Hand	711	721	731	741	751	761	771	781	791
3	Man	712	722	732	742	752	762	772	782	792
4	AC-	713	723	733	743	753	763	773	783	793
5	Detection	714	724	734	744	754	764	774	784	794
6	Common-Detection	715	725	735	745	755	765	775	785	795
7	Spare	716	726	736	746	756	766	776	786	796
8	Spare	717	727	737	747	757	767	777	787	797
9	Spare	718	728	738	748	758	768	778	788	798
10	Spare	719	729	739	749	759	769	779	789	799
11	Detection									
12	AC+	811	821	831	841	851	861	871	881	891
13	AC-	812	822	832	842	852	862	872	882	892
14	Common-Detection	813	823	833	843	853	863	873	883	893
15	Detection A	814	824	834	844	854	864	874	884	894
16	Detection B	815	825	835	845	855	865	875	885	895
17	Loop 1 Out	816	826	836	846	856	866	876	886	896
18	Loop 1 In	817	827	837	847	857	867	877	887	897
19	Loop 2 Out	818	828	838	848	858	868	878	888	898
20	Loop 2 In	819	829	839	849	859	869	879	889	899
21	Supplemental Detection									
22	Loop 3 Out	911	921	931	941	951	961	971	981	991
23	Loop 3 In	912	922	932	942	952	962	972	982	992
24	Loop 4 Out	913	923	933	943	953	963	973	983	993
25	Loop 4 In	914	924	934	944	954	964	974	984	994
26	Loop 5 Out	915	925	935	945	955	965	975	985	995
27	Loop 5 In	916	926	936	946	956	966	976	986	996
28	Loop 6 Out	917	927	937	947	957	967	977	987	997
29	Loop 6 In	918	928	938	948	958	968	978	988	998
30	Spare	919	929	939	949	959	969	979	989	999
31										

32 8-20.3(14).GR8

Signal Systems

8-20.3(14).INST1.GR8

Section 8-20.3(14) is supplemented with the following:

8-20.3(14).OPT1.GR8

(January 2, 2018)

Uninterruptible Power Supply (UPS)

UPS Systems shall be tested before and after field installation.

Contractor Quality Control Testing

Prior to delivery of the UPS system to the Washington State Department of Transportation Materials Laboratory (State Materials Laboratory), all components and equipment, including the batteries shall be fully installed in the cabinet and the UPS system operations shall be successfully tested by the Contractor's representative. A testing certification (letter or similar) shall be provided with the cabinet.

After the UPS system has been successfully tested, the batteries shall be removed from the cabinet and the cabinet and batteries shall be delivered, independently, to

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the State Materials Laboratory, located in Tumwater, Washington, for pre-installation testing.

UPS System Laboratory Testing

The UPS system testing shall simulate the operations as installed in the field. The tests shall check the operation of each individual component as well as the overall operation of the system.

The State Materials Laboratory testing of the UPS system will consist of the following four separate stages:

- 1. Delivery and Assembly
- 2. Documentation
- 3. Demonstration
- 4. Performance Test

Testing will follow in the listed order with no time gaps between stages unless mutually agreed upon by the Contractor and State Materials Laboratory.

The Contractor shall designate a qualified representative for these tests. All communications and actions regarding testing of all equipment submitted to the State Materials Laboratory shall be made through this representative. These communications and actions shall include, but not be limited to, all notifications of failure or rejection, demonstration of the equipment, and the return of rejected equipment.

Stage 1: Delivery and Assembly

The Contractor shall provide all Work necessary to assemble the UPS system and make ready for demonstration at the State Materials Laboratory. Upon delivery, the batteries shall be reinstalled in the cabinet and the UPS system shall be made fully operational. All components for the complete UPS system, including the necessary test equipment, shall be ready for testing within 14 calendar days of delivery to the State Materials Laboratory.

Stage 2: Documentation

All documentation shall be furnished with the UPS system equipment prior to the start of testing. The documents to be supplied shall consist of the following:

- 1. Serial numbers when applicable.
- 2. Wiring diagrams for all equipment in the required quantities and formats.
- 3. Complete operations and maintenance manuals in the required quantities and formats.
- 4. A description of the functions and the capabilities of individual components and of the overall UPS system.

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Stage 3: Demonstration

The Contractor shall provide the following:

- 1. A presentation on how to operate the system.
- 2. A complete and thorough demonstration to show that all components of the UPS system are in good condition and operating properly.

The demonstration shall be performed by the Contractor's representative in the presence of State Materials Laboratory personnel.

Stage 4: Performance Test

The performance test will be conducted by State Personnel to determine if the UPS system performs correctly. The performance test shall include the testing of the following specifications:

- 1. Battery Discharge Rate
- 2. Battery Recharge Rate
- 3. Power Transfer Rate
- 4. Operational Duration

Test results for items 1-3 shall be within the manufacturers recommended values in order for the tests to be considered successful. For item 4, the test is considered successful if the system maintains the test load for the required minimum duration for the battery configuration.

Equipment Failure or Rejection

All component or system failures shall be documented. This documentation shall provide the following information:

- 1. A detailed description of the failure.
- 2. The steps undertaken to correct the failure.
- 3. A list of parts that were replaced, if any.

All failed or rejected equipment shall be removed from the Materials Laboratory within three calendar days following notification; otherwise, the failed or rejected equipment will be returned, freight collect, to the Contractor.

Following final approval by the State Materials Laboratory, all equipment shall be removed from the State Materials Laboratory by the Contractor and delivered to the appropriate site(s) as designated elsewhere in this Contract.

UPS System Field Testing

After installation, the Contractor shall field test the UPS system to ensure the system operates in accordance with Plans, Specifications and manufacturer's instructions. The test shall ensure that that all components are operational within manufacturer's

General Special Provisions Division 8-20

1 tolerances. The Contractor shall provide a testing procedure to the Engineer for 2 approval. The testing procedure shall provide for operational testing of the following: 3 4 1. UPS Power Module 5 6 2. Surge Suppressor 7 8 3. Automatic Transfer Switch 9 10 Generator Power Transfer Switch 4 11 12 The field test shall demonstrate the loss of utility power and the switch over to battery 13 power without interference with the normal operation of the connected downstream 14 cabinet. For traffic signal systems, this this includes the traffic signal controller 15 including conflict monitor and any other peripheral devices within the traffic controller 16 assembly. 17 18 19 8-20.3(14)A.GR8 20 21 Signal Controllers 22 23 8-20.3(14)A.INST1.GR8 24 Section 8-20.3(14)A is supplemented with the following: 25 26 8-20.3(14)A.OPT1.GR8 27 (August 2, 2010) 28 Testing 29 All signal control equipment shall be tested at the Washington State Department 30 of Transportation Materials Laboratory located in Tumwater, Washington, prior 31 to final delivery. The tests shall check the operation of each individual 32 component as well as the overall operation of the system. 33 34 The Contractor shall designate a qualified representative for these tests. 35 Notification of this representative shall be submitted for approval, in writing, to the State Materials Laboratory, 14 calendar days prior to any equipment 36 37 deliveries. The Engineer shall also receive a copy of this notification, which 38 includes the representative's name, address, and telephone number. All 39 communications and actions regarding testing of all equipment submitted to the 40 State Materials Laboratory shall be made through this representative. These 41 communications and actions shall include, but not be limited to, the following: 42 43 All notifications of failure or rejection, demonstration of the equipment, and 44 the return of rejected equipment. 45 46 The State Materials Laboratory testing process will consist of the following four 47 separate stages: 48 49 **Delivery and Assembly** a. **Demonstration and Documentation** 50

General Special Provisions Division 8-20

C.

d.

Performance Test

Operational Test

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Testing will follow in the correct order with no time gaps between stages unless mutually agreed upon by the Contractor and State Materials Laboratory.

Stage 1 Delivery Assembly

All components for the complete traffic control systems, including the necessary test equipment, shall be assembled and ready for demonstration within ten working days of delivery to the Materials Laboratory. The systems shall simulate the operations as installed in the field.

Equipment and prerequisites necessary to complete this stage shall include:

a. Detection Simulator:

The detection simulator shall provide at least one detector per phase and variable traffic volumes. One simulator shall be required for every two controllers tested.

o. Communications Network:

Locations, specified for coordinating communications equipment and cable, shall be completely wired to provide an operational communications system between all local and master controllers.

The Contractor shall provide labor, equipment, and materials necessary to assemble all control equipment complete and ready for demonstration. Materials and equipment used for this stage that are not required for field installation shall remain the property of the Contractor. Failure to complete this stage within ten working days will result in rejection of the entire system.

Stage 2 Demonstration and Documentation

This stage shall be completed within seven working days following the completion of Stage 1. Failure to do so shall result in rejection of the entire shipment.

All documentation shall be furnished with the control equipment prior to the start of testing. If corrections to any document are deemed necessary by the State, the Contractor shall submit this updated version prior to the final approval by the State Materials Laboratory. The documents to be supplied shall consist of or provide the following:

- a. A Complete accounting of all the control and test equipment required.
- b. A complete set of documents which shall include:
 - 1. Serial numbers when applicable.
 - Written certification that equipment of the same make and model has been tested according to NEMA Environmental Standards and Test Procedures, and has met or exceeded these standards. The certificate shall include equipment model number and where, when, and

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- by whom the tests were conducted. This certificate shall accompany each shipment of controllers.
- 3. Reproducible mylar wiring diagrams and two blue-tone prints for each controller and cabinet supplied. The sheet size shall be 24 inches by 36 inches.
- 4. Wiring diagrams for all auxiliary equipment furnished. One set per cabinet.
- Complete operations and maintenance manuals including complete and correct software listing and flow charts. One set of operations and maintenance manuals per cabinet; at least four but no more than ten. Five sets of software listings and flow charts.
- 6. Complete operations and maintenance manuals for all auxiliary equipment. One set per cabinet.
- c. A description of the functions and the capabilities of individual components and of the overall control system.
- d. A presentation on how to operate the system.
- A complete and thorough demonstration to show that all components of the control system are in good condition and operating properly, and proof that the controller and cabinet are functioning correctly.
- f. Detailed instructions for installing and operating the controller(s), including explanations on the use of all features of the controller(s).
- g. The operational and maintenance manuals for each traffic signal controller supplied including as a minimum, but not to be limited to the following:
 - 1. Detailed instructions for maintaining all hardware components, controller, and auxiliary equipment.
 - 2. A complete parts list detailing all manufacturer's identification codes.
 - 3. Detailed wiring diagrams and schematics indicating voltage levels and pictorial description, part name, and location for all hardware components, controller, and auxiliary equipment.

The demonstration shall include the following:

a. Phasing per plans and all phase timing.

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- b. Detection including any special detector functions.
- Conflict Monitor and Load Switches.
- d. Special Coordination including communication equipment.

This demonstration shall be performed by the Contractor in the presence of State Materials personnel. The Contractor shall supply any item not accounted for within five working days of the accounting. Controllers and cabinets that remain incomplete five working days after notification shall be rejected and returned freight collect to the Contractor.

Stage 3 Unit Performance Test

A minimum of ten working days shall be allowed for one or two cabinet assemblies and five working days for each additional assembly.

The unit performance test will be conducted by State Personnel to determine if each and every controller cabinet assembly complies with NEMA Environmental Standards as stated in NEMA publication No. TS 1-1976, Part 2.

Any unit submitted, whose failure has been corrected, shall be retested from the beginning of this stage.

Stage 4 Operational Test

All control and auxiliary equipment shall operate without failure for a minimum of ten consecutive days. If an isolated controller is specified, it shall operate as an isolated controller. If a coordinated system is specified, it shall operate as a total coordinated system with the master and all local controllers operating in all coordinated modes.

If any failure occurs during this stage, all equipment for this stage shall be restarted following completion of repairs.

Equipment Failure Or Rejection

Equipment failures shall be defined as set forth in NEMA Publication No. TS 1-1976. Failure of load switches, detector amplifiers, and conflict monitors shall not result in rejection of the controller or cabinet. However, the Contractor shall stock, as replacements, approximately 30 percent more than the total for these three items. All excess material shall remain the property of the Contractor following completion of all tests.

If a failure occurs during Stages 3 or 4, repairs shall be made and completed within ten working days following notification of the malfunction. The Contractor shall have the option of making onsite repairs or repair them at a site selected by the Contractor. Failure to complete repairs within the allotted time shall result in rejection of the controller or cabinet assembly under test.

A total of two failures will be allowed from the start of Stage 3 to the end of Stage 4. If three failures occur during this time period, the equipment will be rejected. New equipment of different serial numbers submitted as

General Special Provisions Division 8-20

1 replacement shall be received by the Materials Laboratory for testing under 2 Stage 3 within ten working days following notification of rejection. Failure 3 to meet this requirement within the allotted time will result in rejection of the entire system. Software errors will be considered as failures and, if not 4 5 corrected within ten working days, the entire system will be subject to 6 rejection. Following rejection of any equipment, the Contractor shall be 7 responsible for all costs incurred. This shall include but not be limited to all 8 shipping costs. 9 10 When the traffic control program is supplied by the State, the Contractor shall prove that any failures are, in fact, caused by that program and not the 11 12 hardware. 13 14 All component or system failures, except load switches and detector 15 amplifiers, shall be documented. This documentation shall be submitted 16 prior to commencing the test or stage in which the failure was found and 17 shall provide the following information: 18 19 a. A detailed description of the failure. 20 b. The steps undertaken to correct the failure. 21 c. A list of parts that were replaced, if any. 22 23 Upon completion of the tests, the equipment will be visually inspected. If 24 material changes are observed which adversely affect the life of the 25 equipment, the cause and conditions shall be noted. The Contractor will 26 immediately be given notice to correct these conditions. If not repaired 27 within ten working days of notification, the equipment will be subject to 28 rejection. A final accounting shall be made of all equipment prior to 29 approval. 30 31 All failed or rejected equipment shall be removed from the Materials 32 Laboratory within three working days following notification; otherwise, the 33 failed or rejected equipment will be returned, freight collect, to the 34 Contractor. 35 36 Following final approval by the State Materials Laboratory, all equipment 37 shall be removed from the State Materials Laboratory and delivered to sites 38 as designated elsewhere in this contract. 39 40 Guarantees 41 Guarantees and warranties shall be in accordance with Section 1-05.10. 42 43 8-20.3(14)D.GR8 44 Test for Induction Loops and Lead-in Cable 45 46 8-20.3(14)D.INST1.GR8 47 The fourth subparagraph of the first paragraph of Section 8-20.3(14)D is revised to 48 read: 49 14)D.OPT1.2024.GR8

General Special Provisions Division 8-20

(November 2, 2022)

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Test D - Inductance test of the loop circuit. Type 1 loops and Type 2 and Type 3

loops connected in series, shall have a minimum inductance of 150

8-20.5.GR8 **Payment**

8-20.5.INST1.GR8

Section 8-20.5 is supplemented with the following:

8-20.5.OPT1.GB8

(April 6, 2015)

"Removing Traffic Signal Shaft Obstructions", estimated.

Payment for removing obstructions, as defined in Section 8-20.3(4) as supplemented in these Special Provisions, will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Traffic Signal Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and

2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

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1 2 3	8-21.GR8 Permanent Sig	ning
4 5	8-21.2.GR8 Materials	
6 7 8 9 10		GR8 Sign Structures 3.16 is supplemented with the following:
11 12 13 14 15 16 17	Perfora Where i galvaniz approve	OPT1.GR8 Ty 3, 2011) ted Steel Square Sign Post System noted in the Plans, steel sign post systems shall be square, pre-punched ted steel tubing, that are NCHRP 350 Test Level 3 Certified and FHWA ad. The steel sign post system shall include all anchor sleeves, and other te required for a complete sign installation.
18 19 20 21 22 23 24	Systems Systems Complia	Acceptance is listed in the current QPL will be accepted per the QPL approval code. In some of the QPL will be accepted based on a Supplier's Certificate of the Cartificate of the Cartificate of Compliance will be a contract specific letter as supplier stating the system is NCHRP 350 Test Level 3 compliant.
25 26	8-21.2(9-28.11).0 <i>Hardware</i>	GR8
27 28		.11 is supplemented with the following:
29 30 31 32	Locknut	OPT1.GB8 3, 2015) s shown in the Plans specifying a locknut or locknut with nylon insert shall to one of the following:
33 34 35	1.	ANCO Pin Locknut, with stainless steel locking pin, as manufactured by Lok-Mor, Inc.
36 37	2.	Tri-lock Locknut, as manufactured by Lok-Mor, Inc.
38 39 40 41 42 43 44	3.	Grade DH or 2H hex or heavy hex nuts conforming to one of the ASTM material specifications in the Locknut category of the Hardware table of this Section may be modified by installing a nylon insert washer. A minimum of 60-percent of the original number of threads shall meet the requirements of the applicable ASTM material specification after insertion of the nylon insert washer.
45 46 47 48 49 50 51	4.	Hex or heavy hex nuts conforming to one of the ASTM material specifications in the Locknut category of the Hardware table of this Section may be modified by adding one of the following products to a minimum of one-half of the internal threads of the nut and the entire exterior top surface of the nut:

a. Nylok Blue Torq-Patch Locknut.

General Special Provisions Division 8-21

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- b. Nylok Precote 30.
- c. ND Patch 360 Ring Patch.

The nuts with any of the three listed products are permitted for a single use only and shall have a maximum of two nut widths of thread extending beyond the nut after installation.

The alternatives to locknuts specified in Standard Plans G-90.20, G-90.30, and J-75.41 are deleted and replaced with the four options specified above.

8-21.2(9-28.12).GR8

Reflective Sheeting

Section 9-28.12 is revised to read:

8-21.2(9-28.12).OPT1.2024.GR8

(February 6, 2023)

Reflective sheeting material shall conform to ASTM D4956 — Standard Specification for Retroreflective Sheeting for Traffic Control. The following standard reflective sheeting types have been modified to reflect Contracting Agency requirements:

Device Type	Use	Sheeting Color	Allowable Sheeting Types
Permanent Signs			
Permanent Signing	All	All	IV ¹
Object Markers	All	All	₩
Temporary Construction Signing			
Warning Signs	All	Fluorescent Orange	VIII, IX, X ² , XI
Regulatory Signs	All	White	₩
Regulatory Signs	Rural	White	H³ , IV
Regulatory Signs	Urban/Rural	White	∭ ³ , IV
Regulatory Signs	All	Red	III, IV
Regulatory Signs	All	Green	II, IV
Regulatory Letters, Border or Symbols		Green	∭³ , V ³
Temporary Construction Signs	All	All Other Background Colors	⊞³ , IV
Other Devices			
Barricades	All	White or Orange	₩³ , \\
Barrier Delineators	All	White or Yellow	III, IV, V, XI
Bollards	All	All	₩
Flexible Guidepost	All	All	Ⅲ, Ⅳ, ∨
Pedestrian Channelization Devices	All	White or Orange	Ⅲ³, Ⅳ
Signal Backplates	Portable Signals		₩
Signal Backplates	Permanent Signals		See Section 9-29.16
Tall Channelization Devices	All	Fluorescent	III ⁴ , IV ⁴ , VIII, IX,
42-inch		Orange/White	XI ⁴
Traffic Cones 28- and 36-inch	All	White or Higher White	Ⅲ³, Ⅳ

General Special Provisions Division 8-21

Traffic Safety Drums	All	Fluorescent	Ⅲ ⁴ , IV ⁴ , VIII, IX,
		Orange/White	XI ⁴
Transportable Attenuators	All	Yellow and Black	∰³ , V
		Chevron	
Transportable Attenuators	All	White and Red	₩
		Chevron	
Tubular Markers (portable or pavement	All	White or Yellow	₩³ , W
mounted)			
Utilities attached to Bridges	All		I, See Section 6-
			01.10

Notes:

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- Except S Series signs with fluorescent yellow green sheeting shall use Type XI and Overhead Warning Signs and overhead exit only panels with fluorescent yellow shall use Type IV or XI.
- 2. Former Type X, not shown in ASTM D4956, however meets requirements of Types VII, IX and XI.
- 3. Only devices in inventory may be used, new fabrication shall use Type IV.
- 4. Type III and Type IV orange and white sheeting may be still used through December 31, 2026.

8-21.2(9-28.14).GR8

Sign Support Structures

Section 9-28.14 is supplemented with the following:

8-21.2(9-28.14).OPT6.GR8

(September 8, 2020)

Manufacturers for Steel Roadside Sign Supports

The Standard Plans lists several steel sign support types. These supports are patented devices and many are sole-source. All of the sign support types listed below are acceptable when shown in the Plans.

Ultimate Highway Solutions, Inc.,

27		
28	Steel Sign Support Type	<u>Manufacturer</u>
29	Type TP-A & TP-B	Transpo Industries, Inc.
30	•	
31	Type PL, PL-T & PL-U	Northwest Pipe Co.
32		
33	Type AS	Transpo Industries, Inc.
34		
35	Type AP	Transpo Industries, Inc.
36		
37	Type ST 1, ST 2, ST 3, & ST 4	Ultimate Highway Solutions, Inc.,
38		Allied Tube & Conduit Corp. (Mechanical
39		Division),
40		Trinity Highway Products, LLC.
41		

General Special Provisions Division 8-21

Type SB-1, SB-2, & SB-3

1 2 3	Xcessories Squared Development and Manufacturing Incorporated, Trinity Highway Products, LLC.
4 5	8-21.3.GR8
6 7	Construction Requirements
8 9 10	8-21.3(9).GR8 Sign Structures
11 12 13	8-21.3(9)A.GR8 Fabrication of Steel Structures
14 15	8-21.3(9)A1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures
16	r abrication of Monotube Sign Bridges and Cantilever Sign Structures
17 18 19	8-21.3(9)A1.INST1.GR8 Section 8-21.3(9)A1 is supplemented with the following:
20 21 22 23 24	8-21.3(9)A1.OPT1.FB8 (September 8, 2020) The color of the monotube sign bridge and cantilever sign structure finish coat, when dry, shall match *** \$\$1\$\$\$ ****.
25 26 27	8-21.3(9)E.GR8 Bridge Mounted Sign Brackets
28 29	8-21.3(9)E.INST1.GR8 Section 8-21.3(9)E is supplemented with the following:
30 31 32 33 34 35	8-21.3(9)E.OPT1.FB8 (April 6, 2015 November 20, 2023) Bridge Mounted Sign Bracket No(s). *** \$\$1\$\$ *** include the following quantities of structural carbon steel:
36 37	*** \$\$2\$\$ ***
38 39 40 41 42	For bridge mounted sign brackets mounted with resin bonded anchors, the Contractor shall install resin bonded anchors in accordance with Section 6-02.3(18) as supplemented in these Special Provisions. A and Section 9-06.4 For this type of mounting, Bridge Mounted Sign Bracket No(s). *** \$\$3\$\$ *** include the following quantities of drilled holes:
43 44 45	*** \$\$4\$\$ ***
46 47 48	8-21.3(9)F.GR8 Foundations
49 50 51 52	8-21.3(9)F1.GR8 Shafts for Monotube Sign Bridge and Cantilever Sign Structure Foundations

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1
      8-21.3(9)F1.INST1.GR8
 2
                   Section 8-21.3(9)F1 is supplemented with the following:
 3
 4
      8-21.3(9)F1.OPT1.FB8
 5
                       (September 8, 2020)
 6
                       Shafts for monotube sign bridge and cantilever sign structure foundations
 7
                       at the following location(s) shall be constructed in accordance with Section
 8
                       8-21.3(9)F1, except temporary casing is not required by the Contracting
 9
                       Agency but is instead a Contractor option.
10
                            *** $$1$$ ***
11
12
13
                       Shafts for monotube sign bridge and cantilever sign structure foundations
14
                       at the following location(s) shall be constructed in accordance with Section
15
                       8-21.3(9)F1, including the required use of temporary casing:
16
                            *** $$2$$ ***
17
18
19
      8-21.4.GR8
20
      Measurement
21
22
      8-21.4.INST1.GR8
23
      Section 8-21.4 is supplemented with the following:
24
25
      8-21.4.OPT1.FB8
26
          (September 8, 2020)
          *** $$1$$ *** contain(s) the following approximate quantities of material and work:
27
28
              *** $$2$$ ***
29
30
31
```

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the applicable sign structure lump sum Contract price even though the actual quantities required may deviate from those listed.

General Special Provisions Division 8-21

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1	8-31.GR8
2	Temporary Stream Diversion
3	
4	8-31.3.GR8
5	Construction Requirements
6 7	0 24 2/4\ CD0
<i>1</i> 8	8-31.3(1).GR8 General
9	General
10	8-31.3(1)A.GR8
11	General TSD Requirements
12	
13	8-31.3(1)A.INST1.GR8
14	Section 8-31.3(1)A is supplemented with the following:
15	
16	8-31.3(1)A.OPT1.FR8
17	(October 3, 2022)
18	Minimum Stream Flows
19	At all times of operation, the Contractor's temporary stream diversion shall be
20	designed to convey the following minimum flow rate of water in cubic feet pe
21 22	second:
22 23	*** \$\$1\$\$ ***
23 24	ψψιψψ
25	8-31.3(1)A.OPT2.FR8
26	(October 3, 2022)
27	Minimum Stream Flows (Contingency System)
28	A Contingency System is required for this Project. The Contractor's contingency
29	system shall be designed to convey the following minimum flow rate of water in
30	cubic feet per second:
31	
32	*** \$\$1\$\$ ***
33	0.04.0(0) 0.00
34	8-31.3(2).GR8
35	Temporary Stream Diversion Plan
36	0.24.2/0\D.CD0
37	8-31.3(2)B.GR8 Plan Requirements
38 39	Fian Requirements
40	8-31.3(2)B.INST1.GR8
41	Item number 3a of Section 8-31.3(2)B is revised to read:
42	16.11 Hallibot da di Godilott d' d'1.0(2)B la fovicada la foda.
43	8-31.3(2)B.OPT1.2024.GR8
44	(February 6, 2023)
45	Detail all elements of the temporary stream diversion; including but not limited
46	to pipes, pumps, screen intake elements, and other equipment and materials.
47	
48	8-31.3(2)B.INST2.GR8
49	Item number 3 of Section 8-31.3(2)B is supplemented with the following:
50 51	0 24 2/2\P ODT2 2024 CD0
51 52	8-31.3(2)B.OPT2.2024.GR8 (February 6, 2023)
JZ	(FCD)(ual V-0ZUZ3)

General Special Provisions Division 8-31

Detail where bags will be used for temporary stream diversion. Bags shall 2 comply with the requirements of the HPA and be filled using clean pea 3 gravel. Clean pea gravel is pea gravel that does not cause an exceedance 4 of the allowable turbidity in the stream or waterbody. 5 6 8-31.3(3).GR8 7 Fish Block Net Installation and Fish and Aquatic Species Exclusion 8 9 8-31.3(3)B.GR8 10 **Contracting Agency Provided Materials** 11 12 8-31.3(3)B.INST1.GR8 Section 8-31.3(3)B is supplemented with the following: 13 14 15 8-31.3(3)B.OPT1.FR8 16 (October 3, 2022) 17 The Contracting Agency will provide the following fish exclusion materials: 18 *** \$\$1\$\$ *** 19 20 21 8-31.3(4).GR8 22 **Dewatering Work Areas** 23 24 8-31.3(4).INST1.GR8 25 The last paragraph of Section 8-31.3(4) is revised to read: 26 27 8-31.3(4).OPT1.2024.GR8 28 (February 6, 2023) 29 The minimum open area for all types of fish screens is 27 percent. The screened 30 intake facility must have enough surface area to ensure that the velocity through the 31 screen complies with the velocity provided within the Hydraulic Project Approval 32 (HPA). If no velocity is provided within the HPA, the maximum approach velocity shall 33 not exceed 0.33 feet per second. The fish screen must remain in place whenever 34 water is withdrawn until the Contracting Agency Biologists confirm all fish have been

removed. At that point, the Contractor may remove the fish screen to finish

General Special Provisions Division 8-31

dewatering the work area.

35

36

1	DIVISION9.GR9	Materials
2 3 4 5 6 7 8 9	APPENDIX1.FR9	Appendices (January 2, 2012) Use when only one appendix is included in the Contract. If 1-02.4(1).OPT1.FR1 is used, then the <i>Summary of Geotechnical Conditions Report</i> must be an appendix as required in Section 1-02.4(2) of the Standard Specifications. (1 fill-in)
10 11 12 13 14 15 16 17	APPENDIX2.FR9	Appendices (January 2, 2012) Must be used when multiple appendices are included in the Contract. If 1-02.4(1).OPT1.FR1 is used, then the <i>Summary of Geotechnical Conditions Report</i> is an appendix as required in Section 1-02.4(2) and must be included as an appendix and is part of the fill-in. (1 fill-in)
18 19 20 21	STDPLANS.GR9	Standard Plans (November 20, 2023 January 9, 2023) Use in all projects.

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```
2
      (November 20,2023) (January 9, 2023)
 3
      Standard Plans
 4
     The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-
 5
      01, effective September 30, 2022 October 23, 2023, is made a part of this contract.
 6
 7
      The Standard Plans are revised as follows:
 8
 9
          A-10.30
10
          RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table):
          The RISER RING detail is deleted from the plan.
11
12
13
          INSTALLATION detail, SECTION A: The "1/4" callout is revised to read "+/- 1/4" (SEE
          CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)"
14
15
16
          A-40.20
17
          Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following:
                  1. Use the ½ inch joint details for bridges with expansion length less than 100
18
                      feet and for bridges with L type abutments. Use the 1 inch joint details for
19
20
                      other applications.
21
                   2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge
22
                      deck panels.
23
                  3. For details 1, 2, 3, and 4, the item "HMA Joint Seal at Bridge End" shall be
24
                      used for payment. For details 5 and 6, the item "HMA Joint Seal at Bridge
25
                      Deck Panel Joint" shall be used for payment. For detail 7, the item "Clean
26
                      and Seal Bridge Deck Panel Joint" shall be used for payment.
27
          Sheet 2, Detail 8 reference to "6-09.3(6)" is revised to read "6-21.3(7)".
28
29
          A-60.40
          Note 2 reference to "6-09.3(6)" is revised to read "6-21.3(7)".
30
31
32
          B-90.40
33
          Valve Detail - DELETED
34
35
          <u>C-8</u>
          DELETED
36
37
38
          DELETED
39
40
41
42
          Plan View (Case 22A-31), callout, was; "BEAM GUARDRAIL ANCHOR TYPE 10 PAY
          LIMIT" is revised to read; "BEAM GUARDRAIL ANCHOR TYPE 11 PAY LIMIT"
43
44
45
          C-23.60
46
          DELETED
47
48
          C-23.70
49
          Sheet 1, Detail A, callout, was - "EIGHT 5/8" x 1/2" (IN) BOLTS W/ HEX NUTS AND
          WASHERS (SEE NOTE 5)"is revised to read: "EIGHT 5/8" x 1-1/2" (IN) BOLTS W/ HEX
50
          NUTS AND WASHERS (SEE NOTE 5)".
51
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General Special Provisions Division STDPLANS

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STDPLANS.GR9

```
Sheet 2, ANCHOR RAIL ELEMENT DETAIL and associated Enlarged Detail, 3/4"
 1
 2
         Diameter hole pattern (8 holes), callout, "3/4" DIAMETER HOLE (TYP.)" is revised to read:
 3
         "29/32" x 1 1/8" (IN) SLOT (TYP.)"
 4
 5
         D-2.04
 6
         DELETED
 7
 8
         D-2.06
 9
         DELETED
10
11
         D-2.08
12
         DELETED
13
14
15
         DELETED
16
17
         D-2.34
18
         DELETED
19
20
         D-2.60
21
         DELETED
22
23
         D-2.62
24
         DELETED
25
26
         D-2.64
27
         DELETED
28
29
         D-2.66
30
         DELETED
31
32
         D-2.68
33
         DELETED
34
35
         D-2.80
         DELETED
36
37
38
         D-2.88
39
         DELETED
40
41
         D-3.10
42
         Sheet 1, Typical Section, callout - "FOR WALLS WITH SINGLE SLOPE TRAFFIC
43
         BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-
44
         3.15" is revised to read; "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE
45
         CONTRACT PLANS"
         Sheet 1, Typical Section, callout – "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER.
46
47
         USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16" is revised
48
         to read; "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS"
49
50
         D-3.11
51
         Sheet 1, Typical Section, callout - ""B" BRIDGE APPROACH SLAB (SEE BRIDGE
         PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD
52
```

General Special Provisions Division STDPLANS

1 PLANS D-3.15 OR D-3.16" is revised to read; "B" BRIDGE APPROACH SLAB OR 2 MOMENT SLAB (SEE CONTRACT PLANS) 3 Sheet 1, Typical Section, callout – "TYPICAL BARRIER ON BRIDGE APPROACH SLAB 4 (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE 5 STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "TYPICAL BARRIER ON 6 BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS) 7 8 D-3.15 9 **DELETED** 10 11 D-3.16 **DELETED** 12 13 14 15 DELETED 16 17 D-10.10 18 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 19 barriers attached on top of the wall are considered non-standard and shall be designed 20 in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions 21 stated in the 11/3/15 Bridge Design memorandum. 22 23 D-10.15 24 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 25 barriers attached on top of the wall are considered non-standard and shall be designed 26 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 27 Bridge Design memorandum. 28 29 D-10.30 30 Wall Type 5 may be used in all cases. 31 32 D-10.35 33 Wall Type 6 may be used in all cases. 34 35 D-10.40 36 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 37 barriers attached on top of the wall are considered non-standard and shall be designed 38 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 39 Bridge Design memorandum. 40 41 D-10.45 42 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 43 barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions 44 45 stated in the 11/3/15 Bridge Design memorandum. 46 47 D-15.10

D-15.20

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51 52 in place of these STD Plans.

November 20, 2023 Page 3

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"

are withdrawn. Special designs in accordance with the current WSDOT BDM are required

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required 3 in place of these STD Plans. 4

D-15.30

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STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.18

Note 2, "Region Traffic engineer approval is needed to install a truck apron lower than 3"." - DELETED

J-10.10

Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' -3" is revised to read: 7' - 3". Type 342LX / NEMA P44=5' - 10" is revised to read: 6' - 10" Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "-SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED TO READ: "SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6" (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN)"

J-10.16

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.17

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.18

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

Elevation View, horizontal dimension to edge of sidewalk 10" (IN) OR LESS DESIRABLE ~ 18" (IN) MAXIMUM is revised to read: "10" (IN) MAXIMUM"

J-20.26

Add Note 1. "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."

View A, callout, was - LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1 of 2, Elevation View, Round Concrete Foundation Detail, callout - "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"

Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

51 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top 52 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from

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the 2 $\frac{1}{2}$ " CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the $2\frac{1}{2}$ " CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 1)"

Detail F, callout, "3/4" (IN) x 2' - 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is revised to read; "3/4" (IN) x 2' - 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 $\frac{1}{2}$ " DIAM., is revised to read; CHASE NIPPLE ~ 1 $\frac{1}{2}$ " (IN) DIAM.

J-21.16

Detail A, callout, was - LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15

Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0" (2x) Detail A, callout, was – LOCK NIPPLE ~ 1 $\frac{1}{2}$ " DIAM. is revised to read; CHASE NIPPLE ~ 1 $\frac{1}{2}$ " (IN) DIAM.

J-40.10

Sheet 2 of 2, Detail F, callout, " $12 - 13 \times 1 \frac{1}{2}$ " S.S. PENTA HEAD BOLT AND 12" S. S. FLAT WASHER" is revised to read; " $12 - 13 \times 1 \frac{1}{2}$ " S.S. PENTA HEAD BOLT AND 1/2" (IN) S. S. FLAT WASHER"

<u>J-40.36</u>

Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-40.37

Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-75.20

Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel Bands", add the following to the end of the note: "Alternate: Stainless steel cable with stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel bands and associated hardware."

50 <u>J-75.41</u> 51 <u>DELETED</u>

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1 J-75.55 2 Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20. 3 4 5 DELETED 6 7 L-5.10 8 9

Sheet 1, General Note 8, third sentence - was; "For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 3' - 6' as measured form the top front face of the barrier." Is revised to read: "For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 2' - 6" as measured form the top front face of the barrier."

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> Sheet 2, Typical Elevation, callout - "2" - 0" MIN. LAP SPLICE BETWEEN (mark) A #3 BAR AND WALL REINFORCEMENT ~ TYPICAL" is revised to read: "2' - 0" MIN. LAP SPLICE BETWEEN (MARK) A #4 BAR AND WALL REINFORCEMENT ~ TYPICAL" Section C, callout; "(mark) A #3" is revised to read: "(mark) A #4", callout - "(mark) B #3" is revised to read: "(mark) B #4", callout - "(mark) C #3 TIE" is revised to read: "(mark) C #4_TIE"Reinforcing Steel Bending Diagram, (mark) B detail, callout – "128 deg." is revised to read: "123 deg.", callout - "51 deg." is revised to read: "57 deg."

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M-40.10

Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - "(SEE NOTE 5)"

24 25 26

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The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

29 30

00			
	A-10.10-008/7/07	A-30.35-00 10/12/07	A-50.10-018/17/21
	A-10.20-0010/5/07	A-40.00-017/6/22	A-50.40-018/17/21
	A-10.30-0010/5/07	A-40.10-047/31/19	A-60.10-0312/23/14
	A-20.10-008/31/07	A-40.15-00 8/11/09	A-60.20-03 12/23/14
	A-30.10-00 11/8/07	A-40.20-041/18/17	A-60.30-016/28/18
	A-30.30-01 6/16/11	A-40.50-03 9/12/23	A-60.40-008/31/07
31	7 00.00 01	71 10.00 00 0/12/20	71 00.10 00
01	B-5.20-039/9/20	B-30.50-03 2/27/18	B-75.20-03 8/17/21
	B-5.40-021/26/17	B-30.60-00 9/9/20	B-75.50-02 3/15/22
	B-5.60-021/26/17	B-30.40-03 2/27/18	B-70.60-01 1/26/17
	B-10.20-038/23/23	B-30.70-04 2/27/18	B-75.60-00 6/8/06
	B-10.40-028/17/21	<u>B-30.80-01 2/27/18</u>	B-80.20-00 6/8/06
	B-10.70-038/23/23	B-30.90-02 1/26/17	B-80.40-00 6/1/06
	B-15.20-012/7/12	B-35.20-00 6/8/06	<u>B-85.10-01 6/10/08</u>
	B-15.40-012/7/12	B-35.40-01 8/23/23	B-85.20-00 6/1/06
	B-15.60-021/26/17	B-40.20-00 6/1/06	B-85.30-00 6/1/06
	B-20.20-023/16/12	B-40.40-02 1/26/17	B-85.40-00 6/8/06
	B-20.40-042/27/18	B-45.20-01 7/11/17	B-85.50-01 6/10/08
	B-20.60-033/15/12	B-45.40-01 7/21/17	B-90.10-00
			6/8/06
	B-25.20-022/27/18	B-50.20-00 6/1/06	B-90.20-00 6/8/06
	B-25.60-038/23/23	B-55.20-03 8/17/21	B-90.30-00 6/8/06
1			

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	B-30.05-00	9/9/20	B-60.20-02	9/9/20	B-90.40-01	1/26/17
	B-30.10-03		B-60.40-01		B-90.50-00	
	B-30.15-00		B-65.20-01		B-95.20-02	
	B-30.20-04		B-65.40-00		B-95.40-01	
	B-30.30-03		B-70.20-01			
1						
	<u>C-1</u>	9/8/22	C-22.40-10	10/16/23	C-60.70-01	9/8/22
	C-1b		C-22.45-06	9/8/22	C-60.80-01	9/8/22
	<u>C-1d</u>		C-23.70-01		C-70.15-00	
	<u>C-2c</u>		C.24.10-04		<u>C-70.10-04</u>	
	<u>C-4f</u>		<u>C-24.15-00</u>		<u>C-75.10-02</u>	
	<u>C-6a</u>		C-25.20-07		C-75.20-03	
	<u>C-7</u>		C-25.22-06		C-75.30-03	
	<u>C-7a</u>		<u>C-25.26-05</u>		<u>C-80.10-03</u>	
	<u>C-20.10-09</u>		<u>C-25.30-01</u>		<u>C-80.20-01</u>	
	C-20.14-05		<u>C-25.80-05</u>		C-80.30-02	
	C-20.15-03		<u>C-60.10-03</u> C-60.15-00		C-80.40-01 C-85.10-00	
	C-20.18-04 C-20.40-10		C-60.15-00		C-85.10-00	
	C-20.41-04		C-60.30-01		C-85.15-03	
	C-20.42-06		C-60.40-00		C-85-18-03	
	C-20.43-00		C-60.45-00		C-81.10-00	
	C-20.45.03		C-60.50-00		C-81.15-00	
	C-22.16-08		C-60.60-00			<u> 07 .=7=0</u>
2						
	D-2.36-03	6/11/14	D-3.11-03	6/11/14	D-10.25-01	8/7/19
	D-2.46-02	8/13/21	<u>D-4</u>	12/11/98	D-10.30-00	7/8/08
	D-2.84-00		D-6		D-10.35-00	
	D-2.92-01		D-10.10-01		<u>D-10.40-01</u>	
	D-3.09-00		D-10.15-01		D-10.45-01	
	D-3.10-01	5/29/13	D-10.20-01	8/7/19	D-20.10-00	10/9/23
3	E 4	0/04/07	E 4	0.107.100	E 00 40 00	0/40/00
	<u>E-1</u> E-2	2/21/07	<u>E-4</u>		E-20.10-00	
4	<u>E-2</u>	5/29/98	<u>E-4a</u>	8/27/03	E-20.20-00	10/4/23
4	F-10.12-04	0/24/20	F-10.62-02	1/22/11	F-40.15-04	0/25/20
	F-10.16-00		F-10.64-03		F-40.16-03	
	F-10.18-03		F-30.10-04		F-45.10-04	
	F-10.40-04		F-40.12-03		F-80.10-04	
	F-10.42-00		F-40.14-03		<u> </u>	17 107 10
5						
	G-10.10-00	9/20/07	G-24.50-05	8/7/19	G-90.10-03	
						7/11/17
	G-20.10-03	8/20/21	G-24.60-05	6/28/18	G-90.20-05	
						7/11/17
	<u>G-22.10-04</u>	6/28/18	<u>G-25.10-05</u>	9/16/20	G-90.30-04	<u></u>
						7/11/17
	G-24.10-00	11/8/07	G-26.10-00		G-95.10-02	6/28/18
	0.04.00.04	0/7/40			0.05.00.00	0/00/46
	G-24.20-01		G-30.10-04		G-95.20-03	
	G-24.30-02		<u>G-50.10-03</u>	b/28/18	<u>G-95.30-03</u>	6/28/18
	<u>G-24.40-07</u>	0/28/18				

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1	H-10.10-007/3/08	H-32.10-00 9/20/07	H-70.10-02 8/17/21
	H-10.15-007/3/08	H-60.10-01 7/3/08	H-70.20-02 8/17/21
	H-30.10-0010/12/07	H-60.20-01 7/3/08	11-70.20-02 0/17/21
2	11 00:10 00 10/12/01	11 00.20 01 170/00	
_	<u>I-10.10-01 8/11/09</u>	<u>I-30.20-009/20/07</u>	<u>1-40.20-00 9/20/07</u>
	I-30.10-023/22/13	I-30.30-02 6/12/19	I-50.20-027/6/22
	I-30.15-023/22/13	I-30.40-02 6/12/19	I-60.10-01 6/10/13
	I-30.16-01 7/11/19	I-30.60-02 6/12/19	I-60.20-016/10/13
	I-30.17-016/12/19	I-40.10-00 9/20/07	I-80.10-027/15/16
3			
	<u>J-05.50-00 8/30/22</u>	<u>J-26.20-01 6/28/18</u>	<u>J-50.10-017/31/19</u>
	<u>J-107/18/97</u>	<u>J-27.10-017/21/16</u>	<u>J-50.11-027/31/19</u>
	<u>J-10.10-049/16/20</u>	<u>J-27.15-003/15/12</u>	<u>J-50.12-028/7/19</u>
	<u>J-10.12-009/16/20</u>	<u>J-28.01-00 8/30/22</u>	<u>J-50.13-018/30/22</u>
	<u>J-10.14-009/16/20</u>	<u>J-28.10-02 8/7/19</u>	<u>J-50.15-017/21/17</u>
	<u>J-10.15-01 6/11/14</u>	<u>J-28.22-00 8/07/07</u>	<u>J-50.16-013/22/13</u>
	<u>J-10.16-02 8/18/21</u>	<u>J-28.24-029/16/20</u>	<u>J-50.18-008/7/19</u>
	<u>J-10.17-028/18/21</u>	<u>J-28.26-01 12/02/08</u>	<u>J-50.19-008/7/19</u>
	<u>J-10.18-028/18/21</u>	<u>J-28.30-03 6/11/14</u>	<u>J-50.20-006/3/11</u>
	<u>J-10.20-048/18/21</u>	J-28.40-02 6/11/14	J-50.25-006/3/11
	<u>J-10.21-02 8/18/21</u>	J-28.42-01 6/11/14	J-50.30-00 6/3/11
	<u>J-10.22-03 10/4/23</u>	<u>J-28.43-016/28/18</u>	<u>J-60.05-017/21/16</u>
	<u>J-10.25-00 7/11/17</u>	<u>J-28.45-037/21/16</u>	<u>J-60.11-00 5/20/13</u>
	<u>J-10.26-008/30/22</u>	<u>J-28.50-037/21/16</u>	<u>J-60.12-005/20/13</u>
	<u>J-12.15-006/28/18</u>	<u>J-28.60-038/27/21</u>	<u>J-60.13-00 6/16/10</u>
	<u>J-12.16-00 6/28/18</u>	<u>J-28.70-048/30/22</u>	<u>J-60.14-017/31/19</u>
	<u>J-15.10-01 6/11/14</u>	J-29.10-028/26/22	<u>J-75.10-027/10/15</u>
	<u>J-15.15-027/10/15</u>	<u>J-29.15-017/21/16</u>	J-75.20-017/10/15
	J-20.01-008/30/22	<u>J-29.16-027/21/16</u>	J-75.30-027/10/15
	<u>J-20.10-05 10/4/23</u>	<u>J-30.10-018/26/22</u>	<u>J-75.50-00</u> 8/30/22
	<u>J-20.11-037/31/19</u>	<u>J-40.01-00 8/30/22</u> J-40.05-00 7/21/16	<u>J-75.55-00</u> 8/30/22
	<u>J-20.15-036/30/14</u>	J-40.05-00 7/21/16 J-40.10-04 4/28/16	<u>J-80.05-00</u> 8/30/22
	<u>J-20.16-02 6/30/14</u> <u>J-20.20-02 5/20/13</u>	J-40.20-034/28/16	<u>J-80.10-01 8/18/21</u> J-80.12-00 8/18/21
	J-20.26-017/12/12	J-40.30-044/28/16	J-80.15-00 6/28/18
	J-21.10-046/30/14	J-40.35-015/29/13	J-81.10-028/18/21
	J-21.15-016/10/13	J-40.36-027/21/17	J-81.12-009/3/21
	J-21.16-016/10/13	J-40.37-027/21/17	J-84.05-008/30/22
	J-21.17-016/10/13	J-40.38-015/20/13	J-86.10-00 6/28/18
	J-21.20-016/10/13	J-40.39-00 5/20/13	J-90.10-03 6/28/18
	J-22.15-027/10/15	J-40.40-027/31/19	J-90.20-03 6/28/18
	J-22.16-037/10/15	J-45.36-007/21/17	J-90.21-026/28/18
	J-26.10-037/21/16	J-50.05-007/21/17	J-90.50-00 6/28/18
	J-26.15-015/17/12	<u> </u>	<u> </u>
4			
	K-70.20-016/1/16	K-80.32-00 8/17/21	K-80.35-01 9/16/20
	K-80.10-029/25/20	K-80.34-00 8/17/21	K-80.37-01 9/16/20
5			
	<u>L-5.10-017/17/23</u>	<u>L-20.10-037/14/15</u>	<u>L-40.20-02 6/21/12</u>
	L-5.15-009/19/22	L-30.10-02 6/11/14	L-70.10-01 5/21/08
	L-10.10-026/21/12	L-40.15-01 6/16/11	L-70.20-01 5/21/08
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'	M-1.20-049/25/20	M-9.60-00 2/10/09	M-24.66-00 7/11/17
	M-1.40-039/25/20	M-11.10-04 8/2/22	M-40.10-04 10/17/23
	M-1.60-039/25/20	M-12.10-03 8/2/22	M-40.20-00 10/12/07
	M-1.80-03 6/3/11	M-15.10-027/17/23	M-40.30-01 7/11/17
	M-2.20-037/10/15	M-17.10-027/3/08	M-40.40-00 9/20/07
	M-2.21-007/10/15	M-20.10-048/2/22	M-40.50-00 9/20/07
	M-3.10-049/25/20	M-20.20-02 4/20/15	M-40.60-00 9/20/07
	M-3.20-04 8/2/22	M-20.30-042/29/16	M-60.10-01 6/3/11
	M-3.30-049/25/20	M-20.40-03 6/24/14	M-60.20-03 8/17/21
	M-3.40-04 9/25/20	M-20.50-02 6/3/11	M-65.10-03 8/17/21
	M-3.50-039/25/20	M-24.20-024/20/15	M-80.10-01 6/3/11
	M-5.10-039/25/20	M-24.40-024/20/15	M-80.20-00 6/10/08
	M-7.50-01 1/30/07	M-24.60-046/24/14	M-80.30-00 6/10/08
	M-9.50-026/24/14	M-24.65-00 7/11/17	
2			
3			
	A-10.10-008/7/07	A-30.35-0010/12/07	A-50.10-018/17/21
	A-10.20-0010/5/07	A-40.00-017/6/22	A-50.40-018/17/21
	A-10.30-0010/5/07	A-40.10-047/31/19	A-60.10-0312/23/14
	A-20.10-008/31/07	A-40.15-008/11/09	A-60.20-0312/23/14
	A-30.10-0011/8/07	A-40.20-041/18/17	A-60.30-016/28/18
	A-30.30-016/16/11	A-40.50-0212/23/14	A-60.40-008/31/07
4			
	B-5.20-039/9/20	B-30.50-032/27/18	B-75.20-038/17/21
	B-5.40-021/26/17	B-30.60-009/9/20	B-75.50-023/15/22
	B-5.60-021/26/17	B-30.70-042/27/18	B-75.60-006/8/06
	B-10.20-023/2/18	B-30.80-012/27/18	B-80.20-006/8/06
	B-10.40-028/17/21	B-30.90-021/26/17	B-80.40-006/1/06
	B-10.70-028/17/21	B-35.20-006/8/06	B-85.10-016/10/08
	B-15.20-012/7/12	B-35.40-006/8/06	B-85.20-006/1/06
	B-15.40-012/7/12	B-40.20-006/1/06	B-85.30-006/1/06
	B-15.60-021/26/17	B-40.40-021/26/17	B-85.40-006/8/06
	B-20.20-023/16/12	B-45.20-017/11/17	B-85.50-016/10/08
	B-20.40-042/27/18	B-45.40-017/21/17	B-90.10-006/8/06
	B-20.60-033/15/12	B-50.20-006/1/06	B-90.20-006/8/06
	B-25.20-022/27/18	B-55.20-038/17/21	B-90.30-006/8/06
	B-25.60-022/27/18	B-60.20-029/9/20	B-90.40-011/26/17
	B-30.05-009/9/20	B-60.40-012/27/18	
	B-30.10-032/27/18	B-65.20-014/26/12	
	B-30.15-002/27/18	B-65.40-006/1/06	B-95.40-016/28/18
	B-30.20-042/27/18	B-70.20-013/15/22	
	B-30.30-032/27/18	B-70.60-011/26/17	
	B-30.40-032/27/18		
5			
	C-19/8/22	C-22.40-099/8/22	
	C-1b9/8/22	C-22.45-069/8/22	
	C-1d10/31/03	C-23.70-008/22/	
	C-2c8/12/19	C.24.10-037/24/2	
	C-4f8/12/19	C-24.15-003/15/2	
	C-6a9/8/22	C-25.20-078/20/2	
	C-79/8/22	C-25.22-068/20/2	24 C-75.30-038/20/21

	C-7a9/8/22	C-25.26-058/20	0/21 C-80.10-029/16/20
	C-20.10-089/8/22	C-25.30-018/20	0/21 C-80.20-016/11/14
	C-20.14-059/8/22	C-25.80-058/12	2/19 C-80.30-028/20/21
	C-20.15-026/11/14	C-60.10-029/8/	
	C-20.18-049/8/22	C-60.15-008/1	
	C-20.40-099/8/22	C-60.20-019/8/2	
	C-20.41-048/22/22	C-60.30-018/17	'/21 C-85.15-028/27/21
	C-20.42-057/14/15	C-60.40-008/1	7/21 C-85-18-039/8/22
	C-20.43-008/22/22	C-60.45-008/1	7/21
	C-20.45.039/8/22	C-60.50-008/1	
	C-22.16-079/16/20	C-60.60-00 8/1	
	U-22.10-079/10/20	U-00.00-00	-1/2
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	D-2.36-036/11/14	D-412/11/98	D-10.35-007/8/08
	D-2.46-028/13/21	D-66/19/98	D-10.40-0112/2/08
	D-2.84-0011/10/05	D-10.10-0112/2/08	D-10.45-0112/2/08
	D-2.92-014/26/22	D-10.15-0112/2/08	
	D-3.09-005/17/12	D-10.20-018/7/19	
		D-10.25-018/7/19	
	D-3.10-015/29/13		
1 _	D-3.11-036/11/14	D-10.30-007/8/08	
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	E-12/21/07	E-48/27/03	
	E-25/29/98	E-4a8/27/03	
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	F-10.12-049/24/20	F-10.62-024/22/14	F-40.15-049/25/20
	F-10.16-0012/20/06	F-10.64-034/22/14	F-40.16-036/29/16
	F-10.18-033/28/22	F-30.10-049/25/20	F-45.10-038/13/21
	F-10.40-049/24/20		F-80.10-047/15/16
			F-00.10-041/10/10
1	F-10.42-001/23/07	F-40.14-036/29/16	
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	G-10.10-009/20/07	G-26.10-007/31/19	
	G-20.10-038/20/21	G-30.10-046/23/15	
	G-22.10-046/28/18	G-50.10-036/28/18	
	G-24.10-0011/8/07	G-90.10-037/11/17	
	G-24.20-012/7/12	G-90.20-057/11/17	
	G-24.30-026/28/18	G-90.30-047/11/17	
	G-24.40-076/28/18	G-95.10-026/28/18	
	G-24.50-058/7/19	G-95.20-036/28/18	
	G-24.60-056/28/18	G-95.30-036/28/18	
	G-25.10-059/16/20		
5			
	H-10.10-007/3/08	H-32.10-009/20/07	H-70.10-028/17/21
	H-10.15-007/3/08	H-60.10-017/3/08	H-70 20-02 8/17/21
	H-30.10-0010/12/07	H-60.20-017/3/08	11 10.20 020, 11/2 !
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	I-30.10-023/22/13	I-30.30-026/12/19	I-50.20-027/6/22
	I-30.15-023/22/13	I-30.40-026/12/19	I-60.10-016/10/13
	I-30.16-017/11/19	I-30.60-026/12/19	I-60.20-016/10/13
	I-30.17-016/12/19	I-40.10-009/20/07	I-80.10-027/15/16
7			
	J-05.50-008/30/22	J-28.10-028/7/19	J-50.25-006/3/11
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J-10.15-016/11/14	J-28.40-026/11/1	4 J-60.13-006/16/10	
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J-10.21-028/18/21	J-28.60-038/27/2		
J-10.22-028/18/21	J-28.70-048/30/2		
J-10.25-007/11/17	J-29.10-028/26/2		
J-10.26-008/30/22	J-29.15-017/21/		
J-12.15-006/28/18	J-29.16-027/21/		
J-12.16-006/28/18	J-30.10-018/26/2		
J-12.10-006/11/14	J-40.01-008/30		
J-15.15-027/10/15	J-40.05-007/21/		
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J-21.16-016/10/13	J-45.36-007/21/17		
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J-22.15-027/10/15	J-50.11-027/31/	19	
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J-26.15-015/17/12	J-50.15-017/21/	/17	
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L-5.10-009/19/22	L-20.10-037/14/15	L-40.20-026/21/12	
L-5.15-009/19/22	L-30.10-026/11/14	L-70.10-015/21/08	
L-10.10-026/21/12	L-40.15-016/16/11	L-70.20-015/21/08	
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M-1.80-036/3/11	M-17.10-027/3/08	M-40.50-009/20/07	
M-2.20-037/10/15	M-20.10-048/2/22	M-40.60-009/20/07	
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