September 3, 2024 GSP Official Update Package & 2025 Standard Specifications Publication

The following contains the GSPs that consist of the September 3, 2024 update package. Only the changed documents are included in this package and any unchanged sections from the last included. view GSPs, please update are not То all visit our website: https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/general-specialprovisions-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 2025 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.

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General Special Provision (GSP) revisions published as part of the annual update package (September 3, 2024)

Posted: September 3, 2024

Update corresponding indexes

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File	Date of change	File type	Revision type
INTRO.GR1	9/3/2024	GSP Option	Revised
1-02.6.INST2.GR1	9/3/2024	GSP Instruction	New
1-02.6.OPT3.GR1	9/3/2024	GSP Option	Revised/Renamed (formerly 1-02.6.OPT3.2024.GR1)
1-02.6.OPT5.FR1	9/3/2024	GSP Option	Renamed (formerly 1-02.6.OPT5. NEW. FR1) - no content change
1-02.6.OPT7.GR1	9/3/2024	GSP Option	New
1-02.6.OPT8.2026.GR1	9/3/2024	GSP Option	New
1-02.9.OPT1.GR1	9/3/2024	GSP Option	Revised
1-02.13.INST1.GR1	9/3/2024	GSP Instruction	New
1-02.13.OPT1.2026.GR1	9/3/2024	GSP Option	New
1-05.4.OPT1.GR1	9/3/2024	GSP Option	Revised
1-07.9(3).OPT1.GR1	9/3/2024	GSP Option	Revised
1-07.11.OPT3.FR1	9/3/2024	GSP Option	Revised
1-07.11(2).INST1.GR1	9/3/2024	GSP Instruction	Deleted
1-07.11(2).OPT1.2025.GR1	9/3/2024	GSP Option	Deleted
1-07.18(5).OPT2.2025.GR1	9/3/2024	GSP Option	Deleted
1-07.23(1).OPT10.GR1	9/3/2024	GSP Option	Revised
1-08.1(7)A.INST1.GR1	9/3/2024	GSP Instruction	Deleted
1-08.1(7)A.OPT1.2025.GR1	9/3/2024	GSP Option	Deleted
1-08.1(7)C.INST1.GR1	9/3/2024	GSP Instruction	Deleted
1-08.1(7)C.OPT1.2025.GR1	9/3/2024	GSP Option	Deleted
1-08.1(9)B.INST1.GR1	9/3/2024	GSP Instruction	Deleted
1-08.1(9)B.OPT1.2025.GR1	9/3/2024	GSP Option	Deleted
1-08.3(2).GR1	9/3/2024	GSP Heading	Renamed (formerly 1-08.3(2). NEW. GR1) - no content change
1-08.9.OPT1.FR1	9/3/2024	GSP Option	Renamed (formerly 1-08.9.OPT1. NEW. FR1) - no content change
1-08.9.OPT2.FR1	9/3/2024	GSP Option	Renamed (formerly 1-08.9.OPT2. NEW. FR1) - no content change
1-08.9.OPT3.FR1	9/3/2024	GSP Option	Renamed (formerly 1-08.9.OPT3. NEW. FR1) - no content change
1-10.1(1).INST1.GR1	9/3/2024	GSP Instruction	Deleted
1-10.1(1)(9-35).GR1	9/3/2024	GSP Heading/Instructi	Renamed (formerly 1-10. 2 (9-35).GR1) - no content change
1-10.1(1)(9-35).OPT1.GR1	9/3/2024	GSP Option	Renamed (formerly 1-10.1(1).OPT1.GR1) - no content change

1-10.1(1)(9-35).OPT2.GR1	9/3/2024 (GSP Option	Renamed (formerly 1-10. 2 (9-35).OPT1.GR1) - no content change
1-10.1(1)(9-35.4).GR1	9/3/2024 (GSP Heading/Instructi	New
1-10.1(1)(9-35.4).OPT1.GR1	9/3/2024 (GSP Option	New
1-10.1(1)(9-35.8).GR1	9/3/2024 (GSP Heading/Instructi	Renamed (formerly 1-10.3(3)(9-35.8).GR1) - no content change
1-10.1(1)(9-35.8.OPT1.GR1	9/3/2024 (GSP Option	Renamed (formerly 1-10.3(3)(9-35.8).OPT1.GR1) - no content change
1-10.3(3)A.INST1.GR1	9/3/2024 (GSP Instruction	Deleted
1-10.3(3)A.OPT1.2025.GR1	9/3/2024 (GSP Option	Deleted
1-10.3(3)B.INST1.GR1	9/3/2024 (GSP Instruction	New
1-10.3(3)B.OPT1.GR1	9/3/2024 (GSP Option	New
1-10.3(3)B(9-35.4).GR1	9/3/2024 (GSP Heading/Instructi	Deleted
1-10.3(3)B(9-35.4).OPT1.2025.G	9/3/2024 (GSP Option	Deleted
1-10.4(2).OPT1.GR1	9/3/2024 (GSP Option	Deleted
1-10.4(3).INST1.GR1	9/3/2024 (GSP Instruction	Deleted
1-10.4(3).OPT1.FR1	9/3/2024 (GSP Option	Deleted
2-03.4.OPT2.GR2	9/3/2024 (GSP Option	Revised
5-04.2(9-03.21(1)A).GR5	9/3/2024 (GSP Heading/Instructi	Deleted
5-04.2(9-03.21(1)A).OPT1.2025.(9/3/2024 (GSP Option	Deleted
5-05.3.OPT3.FR5	9/3/2024 (GSP Option	Revised
6-02.3(5)G.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-02.3(5)G.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-02.3(25)L2.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-02.3(25)L2.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-10.3(5).INST2.GR6	9/3/2024 (GSP Option	Deleted
6-10.3(5).OPT2.2025.GR6	9/3/2024 (GSP Option	Deleted
6-11.2.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-11.2.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-11.3.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-11.3.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-11.4.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-11.4.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-11.5.INST1.GR6	9/3/2024 (GSP Instruction	Deleted
6-11.5.OPT1.2025.GR6	9/3/2024 (GSP Option	Deleted
6-15.3(8).INST1.GR6	9/3/2024 (GSP Instruction	Deleted

6-15.3(8).OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-16.3(3).INST1.GR6	9/3/2024	GSP Instruction	Deleted
6-16.3(3).OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-17.3(8).INST1.2025.GR6	9/3/2024	GSP Option	Deleted
6-17.3(8).OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-18.SA1.2025.GR6	9/3/2024	GSP Option	Deleted
6-19.3(7)F.INST1.GR6	9/3/2024	GSP Instruction	Deleted
6-19.3(7)F.OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-20.3(1).INST1.GR6	9/3/2024	GSP Instruction	Deleted
6-20.3(1).OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-20.3(1)D.INST1.GR6	9/3/2024	GSP Instruction	Deleted
6-20.3(1)D.OPT1.2025.GR6	9/3/2024	GSP Option	Deleted
6-21.SA1.2025.GR6	9/3/2024	GSP Option	Deleted
6-SA1.FR6	9/3/2024	GSP Option	New
8-01.2(9-14.6(4)A).GR8	9/3/2024	GSP Heading/Instructi	Deleted
8-01.2(9-14.6(4)A).OPT1.2025.G	9/3/2024	GSP Option	Deleted
8-01.3(6).INST1.GR8	9/3/2024	GSP Instruction	Deleted
8-01.3(6).OPT1.2025.GR8	9/3/2024	GSP Option	Deleted
8-10.1.OPT1.GR8	9/3/2024	GSP Option	Renamed (formerly 8-
8-10.2.OPT1.GR8	9/3/2024	GSP Option	Renamed (formerly 8-
8-10.3.OPT1.GR8	9/3/2024	GSP Option	Renamed (formerly 8-
8-10.4.OPT1.GR8	9/3/2024	GSP Option	Renamed (formerly 8-
8-10.5.OPT1.GR8	9/3/2024	GSP Option	Renamed (formerly 8-
8-12.2.OPT6.GB8	9/3/2024	GSP Option	Deleted
8-12.3.INST1.GR8	9/3/2024	GSP Instruction	Deleted
8-12.3.OPT1.GB8	9/3/2024	GSP Option	Deleted
8-12.3.OPT1(A).GB8	9/3/2024	GSP Option	Deleted
8-12.3.OPT1(B).GB8	9/3/2024	GSP Option	Deleted
8-12.3.OPT1(C).GB8	9/3/2024	GSP Option	Deleted
8-12.4.INST1.GR8	9/3/2024	GSP Instruction	Deleted
8-12.4.OPT1.GB8	9/3/2024	GSP Option	Deleted
8-12.5.OPT1.GR8	9/3/2024	GSP Option	Deleted
8-20.2(9-29.6(2)).GR8	9/3/2024	GSP Heading/Instructi	Deleted

enamed (formerly 8-10.1.OPT1.**NEW.**GR8) - no content change enamed (formerly 8-10.2.OPT1.**NEW.**GR8) - no content change enamed (formerly 8-10.3.OPT1.**NEW.**GR8) - no content change enamed (formerly 8-10.4.OPT1.**NEW.**GR8) - no content change enamed (formerly 8-10.5.OPT1.**NEW.**GR8) - no content change 8-20.2(9-29.6(2)).OPT1.2025.GR STDPLANS.GR9 9/3/2024 GSP Option 9/3/2024 GSP Option <mark>Deleted</mark> Revised

Please note: The following is a brief description of the latest updates that are being published in the 2025 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 2025 Standard Specifications.

The 2025 Standard Specifications Book is effective for all WSDOT projects advertised on or after Tuesday, September 3, 2024.

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

• Fixing errors regarding capitalization, punctuation, and spelling.

DIVISION 1 – General Requirements

1-02.4(1) – General

Modified when questions are due to 4 business days preceding bid opening so that it works for Local agencies as well.

1-02.13 – Irregular Proposals

Removed the trucking form from items causing an irregular proposal since it is not required at bid time anymore.

1-03.5 – Failure to Execute Contract

Removed MWBE from the paragraph since it is not applicable to this Section because it is not due until 20 days after execution.

1-04.4 – Changes

Modified language to proceed when receiving an executed change order or an oral or written order from the engineer before receiving the executed change order.

1-04.11 – Final Cleanup

Removed Highway. Right of Way includes the Highway and is redundant.

1-05.3 – Working Drawings

Modified language slightly to be aligned with the RCW.

1-05.13 – Superintendents, Labor, and Equipment of Contractor

Modified list to match the items that are evaluated on the Prime Contractors Performance Report.

1-07 – Legal Relations and Responsibilities to the Public

Throughout Section 1-07 modified the "State" to the "Contracting Agency" where applicable, and added the Contracting Agency to the list of entities so that it works for Local Programs.

1-07.9(1) – General

Updated OEO to OECR.

1-07.9(4) – Wage Disputes

Clarified the path for wage disputes.

1-07.11(2) – Contractual Requirements

Added in the Anti-Discrimination language required in contracts by state law. This language is currently approved as GSP 1-07.11(2).OPT1.2025.GR1.

1-07.15(1) – Spill Prevention, Control, and Countermeasures Plan

Fixed reference to IFC Section 3506 to change to Section 5706.

1-07.17 – Utilities and Similar Facilities

Fixed language about at the Contractor's expense.

1-07.17(1) – Utility Construction, Removal, or Relocation by the Contractor

Added language for clarity on new installation in response to Dig Once to allow fiber optics to be installed during construction.

1-07.18(5) – Required Insurance Policies

Added in correct OCP insurance endorsement from GSP 1-07.18(5).OPT2.2025.GR1

1-08 – Prosecution and Progress

Throughout Section 1-08 modified the "State" to the "Contracting Agency" where applicable, and added the Contracting Agency to the list of entities so that it works for Local Programs.

1-08.1(7)A – Payment Reporting

Modified to update what needs to be reported for clarification.

1-08.1(7)C – Subcontractor Retainage

Corrected the reference to Section 1-08.1(11).

1-08.1(8) – Required Subcontract Clauses (was "Vacant")

Moved Required Subcontract Clauses from Section 1-08.1(9) to 1-08.1(8)

1-08.1(8)A – Clauses Required in All First-Tier Subcontracts

Revised to clarify language about lower tiers (was Section 1-08.1(9)A).

1-08.1(8)B – Clauses Required in Subcontracts of All Tiers

Added in RCW antidiscrimination language currently included in GSP 1-08.1(9)B.OPT1.2025.GR1 (was Section 1-08.1(9)B).

1-08.1(9) – Submittal of Executed Contracts (New section)

Added in requirements for subcontracts to be submitted for all subcontractors. (This is currently in 1-07.11.OPT3.FR1, but it is required for all contracts, not just DBEs).

1-08.3(4) – Vacant (was "Measurement")

Deleted Section and changed to Vacant since only LS items now.

1-08.5 – Time for Completion

Clarified that Monthly Reports of amounts paid are reported through DMCS.

1-09.6 – Force Account

Made minor changes to clarify and clean up force account services.

1-09.7 – Mobilization

Added in pay item for mobilization.

1-09.10 – Vacant (was " Payment for Surplus Processed Materials")

Deleted section and payment for surplus materials. It is being moved to Section 3-01 and having a bid item added.

1-10.3(3)A – Construction Signs

Adds interim GSP for temporary sign covering to be with wood or plastic if only for a short amount of time. There are some minor changes to the GSP language. GSP 1-10.3(3)A.OPT1.2025.GR1 will be deleted as part of this change.

1-10.4(2) – Item Bids With Lump Sum for Incidentals

Added in clarification that work performed by the TCS will not be measured under Flaggers and other Traffic Control Labor. Removed quotations from the measurement section.

1-10.4 Measurement & 1-10.5 Payment

The callouts for lump sum traffic control were modified for consistency. Changed to look at the bid proposal rather than provisions for reinstated items when using Lump Sum Traffic Control.

DIVISION 2 – Roadway Excavation and Embankment

2-03.3(14)L – Embankment Widening for Guardrail

Added language for policy change to use Method B compaction for the top 3 feet of embankment widening for guardrail.

2-03.5- Payment

Added clarification for applications when embankment compaction will not be paid as a separate item.

DIVISION 3 – Acceptance of Aggregate

3-01.2(4) - Production Requirements

Modified "surplus" to be "excess" for changes to add the "Excess Processed Material" pay item.

3-01.3(4) - Excess Screenings (was "Surplus Screenings")

modified to add the Excess processed material that was in 1-09 to this section. Added a standard item so a change order is not needed for every job with Contractor Agency provided sites. Changed from "surplus" to "excess"

3-01.4(2) - Excess Screenings (was "Surplus Screenings")

Modified "surplus" to be "excess" for changes to add the "Excess Processed Material" pay item.

3-01.6- Payment

Added a pay item for "Excess Processed Material" by calculation.

3-02.2(4) - Stockpiling Aggregates for Immediate Use

Modified excess material to be in line with changes to Section 3-01

DIVISION 4 – Ballast and Crushed Surfacing

No changes

DIVISION 5 – Surface Treatments and Pavements

5-02.3(1) – Equipment

Modified roller requirements

5-02.3(3) – Application of Emulsified Asphalt and Aggregate

Clarified language on requirements for dilution and spreading of emulsified asphalt, modified max temperature for CSS-1, CSS-1h.

5-02.3(5) – Application of Aggregates

Added that there is a maximum of one complete coverage with a combination or smooth wheel roller.

5-02.3(7) – Patching and Correction of Defects

Minor clarification on dilution is no more than one part water to one part emulsified asphalt.

5-02.3(10) – Unfavorable Weather

Changes to wind speed and temperature to be considered unfavorable weather.

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

Cleaned up additives to just refer to 5-04.2(2)B rather than repeating information.

5-04.2(2)B – Using HMA Additives

Clarification on additive use.

5-04.3(9)B1- Mixture Statistical Evaluation – Lots and Sublots

Clarification that if the final mixture lot has 10 sublots or less it shall be combined into the previous lot (it is not an option).

5-04.3(10)C1 – HMA Compaction Statistical Evaluation – Lots and Sublots

Clarification that if the final mixture lot has 10 sublots or less it shall be combined into the previous lot (it is not an option).

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

Clarification on when cores will be taken.

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

Modified requirements including – the entire lot doesn't need to be below 1.00, Contracting Agency cores increase to \$400, and added a time limit on Contractor core sampling.

5-04.4 Measurement and 5-04.5 Payment

Cleaned up items that refer to another chapter to be consistent.

DIVISION 6 – Structures

6-02.3(5)G – Sampling and Testing for Temperature, Consistency, and Air Content Fixed error in testing frequency (Was GSP 6-02.3(5)G.OPT1.2025.GR6)

6-02.3(9)B – Casting

Clarification on stripping strength.

6-02.3(9)D – Control Strength

Clarification on test cylinder curing requirements. Broken into two sections 6-02.3(9)D1 Control Strength for Precast Units Cast at a Fabrication Plant and 6-02.3(9)D2 Control Strength for Precast Units Cast On-Site

6-02.3(12)B – Construction Joints Between Existing and New Construction

Modified to add that requirements don't apply to the construction joints below the top of drilled shafts.

6-02.3(14)A – Class 1 Surface Finish

Modified to allow minor projections up to 1/4"

6-02.3(25)H – Finishing

Added survey marker embedments or indelible markers for surveying.

6-02.3(25)J – Horizontal Alignment

Modified checking horizontal alignment of girders including Working Drawing requirements.

6-02.3(25)K – Vertical Deflection

Modified checking vertical alignment of girders including Working Drawing requirements.

6-02.3(25)L1 – Lifting and Handling Devices

Modified to ensure that lift loops for slab girders could be contained within the end block region.

6-02.3(25)L2 - Girder Lateral Stability and Stress Analysis

Fixed error in the table (was GSP 6-02.3(25)L2.OPT1.2025.GR6)

6-02.3(25)L4 – Girder Shipping

Modified strength requirements for girder shipping.

6-03.3(25) – Repair Welding

Added in steel Ferry Terminal Structures to clarify WS structures are included in this requirement.

6-03.3(25)A – Welding Inspection

Removed ultrasonic from sentence so that it is more general as there are other times QA may be needed to be performed.

6-03.3(25)A2 – Radiographic Inspection

Added in steel Ferry Terminal Structures to clarify WS structures are included in this requirement.

6-05.3(2) – Ordering Piling

Modified from "list" to "order list"

6-07.3(1)B – Work Force Qualifications for Field Application of Paint

Added in Association for Materials Protection and Performance (AMPP) requirements.

6-07.3(2)C – Paint System Manufacturer and Paint System Information Submittal Component

Added in time limit to certification of compliance

6-10.3 – Construction Requirements

Removed installing in conjunction with sign bridge foundations. Deleted transition for Type 2 to F shape.

6-10.3(5) – Temporary Barrier

Added language about Temporary Barrier non-mash fabrication dates (incorporates GSP 6-10.3(5).OPT2.2025.GR6).

6-10.3(6) – Placing Concrete Barrier

Modified to allow the installation on compacted surfaces.

6-11.2 – Materials

Added in materials for precast concrete retaining walls (incorporates 6-11.2.0PT1.2025.GR6)

6-11.3 – Construction Requirements

Modifies 6-11.3 including adding new subsections to added in the construction requirements for precast concrete retaining walls (incorporates 6-11.3.OPT1.2025.GR6) Adds in

6-11.4– Measurement

added in construction requirements for precast concrete retaining walls (incorporates 6-11.4.OPT1.2025.GR6)

6-11.5. – Payment

added in construction requirements for precast concrete retaining walls (incorporates 6-11.5.OPT1.2025.GR6)

6-14.1 – Description

Modified description to change Standard Plans to Plans.

6-14.3(1) – Tolerances (was "Quality Assurance"

Modified for clarity and put the tolerances in a table format.

6-14.4 – Measurement

Modified measurement referring to other Sections for consistency

6-14.5 – Payment

Modified to remove compaction from the payment temporary retaining wall.

6-15.3(8) – Soil Nail Testing and Acceptance

Modified location for the maximum test load (incorporates GSP 6-15.3(8).OPT1.2025.GR6).

6-16.3(3) – Shaft Excavation

Removed the word minimum from shaft excavation (incorporates GSP 6-16.3(3).OPT1.2025.GR6).

6-17.3(8) – Testing and Stressing

Modified location for the maximum test load (incorporates GSP 6-17.3(8).OPT1.2025.GR6).

6-18 – Shotcrete (was "Vacant")

Adds in updated shotcrete section (incorporates GSP 6-18.SA1.2025.GR6)

6-19.3(7) – Shaft Construction Joint

Modified the time when crosshole sonic log testing can occur (incorporates 6-19.3(7)F.OPT1.2025.GR6).

6-20.1(1) – Definitions

Deleted upper unit language so it doesn't preclude the bottom unit.

6-20.3(1)A - Design Delivery Method

clarification on Std Plan being acceptable.

6-20.3(1)A2 - Contracting Agency Supplied Design

took away alternate design option.

6-20.3(1)D - Geotechnical Considerations

added in interim GSP for Geotech considerations (incorporates GSP 6-20.3(1)D.OPT1.2025.GR6).

6-20.3(6)A - Bedding and Leveling

clarifying that leveling course is needed.

6-21.2 – Materials

Added in the materials which were accidently left out in the 2024 Standard Specs (incorporates GSP 6-21.SA1.2025.GR6

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

7-04.2 – Materials

Modified to clarify allowable pipe types for Rigid and Flexible applications and clarify the type of pipes included in the category Thermoplastic Storm Sewer Pipe

7-04.4 – Measurement

Measurement revised to be inclusive of all tests.

7-05.3 – Construction Requirements

Paragraph 11 is revised to clarify the requirement also applies to drainage structures.

7-17.2 – Materials

Revised the type of allowable pipe materials.

7-17.3(2)A – General

Modified for clarity on when the local sanitary agency does not have a standard for testing.

7-17.3(2)B - Exfiltration Test

Modified for clarity.

7-17.3(2)C -Infiltration Test

Modified for clarity.

7-17.3(2)E – Low Pressure Air Test for Sanitary Sewers Constructed of Air Permeable Materials

Modified for clarity.

DIVISION 8 – Miscellaneous Construction

8-01.2 – Materials

Deleted fertilizer and added that cementitious materials will not be used.

8-01.3(1) – General

Modified for clarity to ensure correct monitoring.

8-01.3(1)D – Dispersion/Infiltration

Modified for clarity. Added that infiltration areas shall be away from slopes adjacent to surface waters.

8-01.3(2)A – Preparation for Application

Added in mulching preparation.

8-01.3(2)B – Temporary Seeding

Modified tracer requirements and removed reference to fertilizing in temporary seeding.

8-01.3(2)D – Temporary Mulching

Added in requirements for when HECP contains tackifiers.

8-01.3(3) – Placing Erosion Control Blanket

Removed reference to fertilizing.

8-01.3(5) – Plastic Covering

Added that permeable soil coverings should be prioritized.

8-01.3(6) – Check Dams

Removed wattles from use for check dams (incorporated GSP 8-01.3(6).OPT1.2025.GR8).

8-01.3(7) – Stabilized Construction Entrance

Added that material shall be free of pH modifying materials. Added clarifying on wheel wash water management.

8-01.3(8) – Street Cleaning

Added in source control rather than just sweeping.

8-01.3(9)A2 – Silt Fence

Modified to add more instruction to ensure correct installation.

8-01.3(9)A3 – High Visibility Silt Fence

Modified to add more instruction to ensure correct installation.

8-01.3(9)D – Inlet Protection

Added in source control.

8-01.3(10) - Wattles

Added clarification that wattles are for sheet control and not concentrated flow.

8-01.4 Measurement and 8-01.5 Payment

The callouts for lump sum erosion control were modified for consistency to change refer to the correct divisions for measurement vs payment. Changed to look at the bid proposal rather than provisions for reinstated items.

8-01.4(4) – Items not included with Lump Sum Erosion Control and Water Pollution Prevention

Added in high visibility silt fence.

8-01.5(4) – Items not included with Lump Sum Erosion Control and Water Pollution Prevention

Added in High Visibility Silt Fence.

8-02.3(1) – Responsibility During Construction

Modified to ensure staging areas are restored.

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

Modified to add site specific requirements to the weed plan.

8-02.3(5)C – Planting Area Preparation

Removed 18" from required depth, so it will match other requirements.

8-02.3(6)A – Compost

Modified to add additional construction requirements.

8-02.3(9) – Seeding, Fertilizing, and Mulching

Deleted material requirements from this section and moved them to Section 9-14.3

8-02.3(9)D – Inspection

Added clarification that reseeding to due nonconformance is at no cost.

8-02.3(13) – Plant Establishment

Deleted the reference to 8-02.3(3) which is not relevant to this section.

8-02.3(15)A – Live Fascines

Modified dimensions to for consistency with the Standard Plans.

8-02.3(15)B – Brush Mattress

Added the word "branch" before cuttings for clarity.

8-02.3(15)C – Brush Layer

Modified for consistency with the Plan production and other bioengineering replacement requirements.

8-11.3(1)A – Erection of Posts

Added in policy that existing guardrail runs shall have matching timber or steel posts.

8-11.3(1)C – Terminal and Anchor Installation

Added in clarification that requirement applies to both terminals and anchors and bull nose requirements.

8-11.4 – Measurement

Added in beam guardrail bull nose terminal.

8-11.5 – Payment

Added in "Beam Guardrail Bull Nose Terminal Type 2".

8-12.2 – Materials

Added in cable fence materials (incorporated GSP 8-12.3.OPT1(B).GR8

8-12.3(3) – Cable Fence (new section)

Added in cable fence construction requirements (incorporated GSP 8-12.3.OPT1(A).GB8 and 8-12.3.OPT1(B).GB8)

8-12.4 – Measurement

Added in cable fence measurement (Incorporated GSP 8-12.4.OPT1.GB8).

8-12.5 – Payment

Added in cable fence payment (Incorporated GSP 8-12.5.OPT6.GB8).

8-20.2 – Materials

Added storage requirements to address issues with improper storage and requirements for temporary systems.

8-20.3(1)A – Maintenance During Construction

Added that the Contracting agency will do the first set of locates on preexisting systems, and added clarity about ITS equipment that contracting agency will keep maintenance of the inside of the cabinet.

8-20.3(5)A – General

Added direction on bends to stop them from being too tight, and clarified when locate wire and detectable warning tape are needed.

8-20.3(5)E – Conduit Installation

Added conduit shall be certified for use with the method of installation.

8-20.3(6) – Junction Boxes, Cable Vaults, and Pull Boxes

Added tolerance for jbox installation.

8-20.3(6)A – Junction Box Security Collars (New Section)

New section to address questions that have arisen with implementation of junction box security collars.

8-20.3(8) – Wiring

Added requirements for aluminum wire and fiber racking.

8-20.3(8)A – Splices

Added reference to Standard Plans, optional submersible connectors, and aluminum wire requirements.

8-20.3(11) - Testing

Added requirements to pick up cabinets after 14 days.

8-21.3(1) - Location of Signs

Added that the final length shall be determined in the field by the contractor.

8-30 – Streams, Rivers, and Waterbodies (was Water Crossings)

Entire section including title has been revised to be consistent with current practices.

DIVISION 9 – Materials

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

Modified the binder requirements.

9-02.1(6)A – Polymerized Cationic Emulsified Asphalt CRS-2P

Modified the minimum penetration.

9-03.4(2) – Grading and Quality

Modified the fracture requirements.

9-03.21(1) – Recycled Asphalt Shingles (was Reclaimed Asphalt Shingles)

Revised section including title (incorporates 5-04.2(9-03.21(1)A).OPT1.2025.GR5

9-08.1(8) – Standard Colors

Updated the link for colors.

9-13.4 – Rock for Erosion and Scour Protection

Added grading requirements.

9-13.4(1) – Suitable Shape of Rock for Erosion and Scour Protection Added a figure for clarification.

9-13.4(2) – Grading Requirements of Rock for Erosion and Scour Protection Added Class D. Removed material acceptance in last paragraph to new section 9-13.4(3).

9-13.4(3) – Material Acceptance

New section on Material Acceptance, includes last paragraph from 9-13.4(2) that was moved here, and new requirements for rejection.

9-14.3 – Seed

Added the requirements deleted from 8-02.3(9) on seed supply to this section.

9-14.5(3) – Bark or Wood Chip Mulch

Added timing requirements to testing

9-14.5(8) – Compost

Added in C:N ratios.

9-14.6(4)A – Biodegradable Check Dams

Removed wattles (incorporated GSP 8-01.2(9-14.6(4)A.OPT1.2025.GR8).

9-14.6(6) – Compost Socks

Added in cedar as an option

9-14.6(7) – Coir Log Added in cedar as an option.

9-14.7(1) – Description Added in age and size of live cuttings.

9-16 - Fence, Guardrail and Glare Screen (was Fence and Guardrail)

Added in glare screen to main heading.

9-16.7 – Cable Fence

Added new section for Cable Fence (incorporated 8-12.2.OPT6.GB8

9-29.2(4) – Cover Markings

Added in WIM label.

9-29.3(2)A1 – Single Conductor Current Carrying

Added in aluminum requirements.

9-29.3(2)A2 – Grounding Electrode Conductor

Modified for clarification regarding grounding electrode conductor.

9-29.3(2)A3 – Equipment Grounding and Bonding Conductors

Updated to current standard

9-29.6 – Light and Signal Standards

Added information on Frangible bolts

9-29.6(2) – Slip Base Hardware

Added in that keeper plates can be 28 or 26 gage (incorporating GSP 8-20.2(9-29.6(2)).OPT1.2025.GR8).

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

Updated to address issues with timber pole procurement and wood preservatives.

9-29.9 – Electrical Ballasts and Transformers (was Ballast, Transformers)

Minor change in heading title to differentiate better from rock ballast.

9-29.10 – Luminaires

Modified for clarity. Moved luminaire rating from 9-29.10(1) to 9-29.10.

9-29.10(1) – Conventional Roadway Luminaires

Modified for clarity. Moved luminaire ratings from 9-29.10(1) to 9-29.10.

9-29.10(4) – Underdeck and Wall Mount Luminaires

Modified to only LED luminaires. Non-LED luminaires are nearly impossible to get now.

9-29.12(1) – Illumination Circuit Splices

Added direct burial pedestal splice connector as an option.

9-29.12(5) – Vinyl Electrical Tape for Splices

Updated to more conventional standards for tape used.

9-29.12(6) – Linerless Rubber Splicing Tape

New Section to add aluminum wire splicing.

9-29.15 – Flashing Beacon Control

Modified to allow alternates to jack mounted and address RRFB system controllers.

9-29.16(1)A1 – Vacant (was "Non-LED Optical System")

Deleted (made vacant), non-LED optical units are not wanted anymore.

9-29.19 – Pedestrian Pushbuttons

Updated to reflect current standard of accessible pushbuttons.

9-29.19(1) – Speech Messages for Pedestrian Pushbuttons (new section)

Added new section for Speech Messages for Pedestrian Pushbuttons.

9-29.21(2) – Rectangular Rapid Flashing Beacons (new section)

Added new section for Rectangular Rapid Flashing Beacons.

9-34.2(2) - Color

Modified to be in table format and changed wording for clarity.

9-34.3 – Plastic

Simplified last paragraph.

9-34.3(2) – Type B – Pre-Formed Fused Thermoplastic

Deleted the last two paragraphs that conflicted with the paint section.

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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 2025 Standard Specifications.

DIVISION 1 – General Requirements

1-02.6.OPT8.2026.GR1 - New

This GSP (Subcontractor List) was added to update the subcontractor list to include the form number so it is not confused with the new Bidder Questionnaire form.

1-02.6.OPT7.GR1 – New

This GSP (Bidder Questionnaire) was added to include the new Bidder Questionnaire form required by the federal rule change to 49 CFR Part 26.

1-02.6.OPT3.GR1 - Revised and Renamed (was 1-02.6.OPT3.NEW.GR1)

This GSP (Deliver of DBE forms) was revised to clarify that the items are submitted in accordance with 1-02.9.

1-02.6.OPT5.FR1 –Renamed (was 1-02.6.OPT5.NEW.FR1)

This GSP (Alt Bids) was renamed

1-02.9.OPT1.GR1 –Revised

This GSP (DBE documents) was updated because of the federal rule changes to 49 CFR Part 26.

1-02.13.OPT1.2026.GR1 – New GSP

This GSP (irregular proposals) was added to address that the trucking form is no longer needed with Bids, but the Bidder Questionnaire is needed.

1-05.4.OPT1.GR1 – Revised

This GSP (structure surveying) was revised to clarify survey point horizontal intervals.

1-07.9(3).OPT1.GR1 - Revised

This GSP (Apprentice Utilization) was revised for changes to be in line with L&I requirements.

1-07.11.OPT3.FR1 -Revised

This GSP (irregular proposals) was updated because of the federal rule changes to 49 CFR Part 26.

1-07.11(2).OPT1.2025.GR1 - Deleted

This GSP (Anti-discrimination) and the associated instructions were deleted. It was added to the 2025 Standard Specifications

1-07.18(5).OPT2.2025.GR1 - Deleted

This GSP (OCP insurance) was deleted. It was added to the 2025 Standard Specifications

1-07.23(1).OPT10.GR1 - Revised

This GSP (fourth of July) was revised to not have mid-week holidays go into the previous or next week.

1-08.1(7)A.OPT1.2025.GR1 - Deleted

This GSP (Payment Reporting) and the associated instructions were deleted. It was added to the 2025 Standard Specifications

1-08.1(7)C.OPT1.2025.GR1 - Deleted

This GSP (Subcontractor Retainage) and the associated instructions were deleted. It was added to the 2025 Standard Specifications

1-08.1(9)B.OPT1.2025.GR1 - Deleted

This GSP (Anti-discrimination) and the associated instructions were deleted. It was added to the 2025 Standard Specifications

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

This GSP (General Requirements heading) was renamed.

1-08.9.OPT1.FR1 – Renamed (was 1-08.9.OPT1.NEW.FR1)

This GSP (Liquidated Damages) was renamed.

1-08.9.OPT2.FR1 – Renamed (was 1-08.9.OPT2.NEW.FR1)

This GSP (Signal LDs) was renamed.

1-08.9.0PT3.FR1 - Renamed (was 1-08.9.0PT3.FR1)

This GSP (Interim LDs) was renamed.

1-10.1(1)(9-35).GR1 – New

The 9-35 heading and instructions were moved under the Materials (1-10.1(1)).

1-10.1(1)(9-35).OPT1.GR1 – Renamed (was 1-10.1(1).OPT1.GR1) This GSP (AFAD) was renamed to be under the 9-35 heading.

1-10.1(1)(9-35).OPT2.GR1 – Renamed and moved (was 1-10.2(9-35).OPT1.GR1) This GSP (Temporary Rumble Strips) was renamed and moved to be in 1-10.1(1).

1-10.1(1)(9-35.4). - Renamed and moved (was 1-10.3(3)B(9-35.4).GR1)

The 9-35.4 heading and instructions were moved under the Materials (1-10.1(1)).

1-10.1(1)(9-35.4).OPT1.GR1 - New

This GSP (sequential Arrow) is a new GSP. It is the Materials for sequential arrow sign that was in GSP 1-10.3(3)B(9-35.4).OPT1.2025.GR1.

1-10.1(1)(9-35.8). – Renamed and moved (was 1-10.3(3)(9-35.8).GR1)

The 9-35.8 heading and instructions were moved under the Materials (1-10.1(1)).

1-10.1(1)(9-35.8).OPT1.GR1 – Renamed and moved (was 1-10.3(3)(9-35.8).OPT1.GR1)

This GSP (Radar Speed Display Signs) was renamed and moved to be in Section 1-10.1(1)

1-10.3(3)A.OPT1.2025.GR1 - Deleted

This GSP (Sign covering) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

1-10.3(3)B(9-35.4).OPT1.2025.GR1 - Deleted

This GSP (smart arrow board) was deleted. This has been modified and is now covered in 1-10.1(1)(9-35.4).OPT1.GR1 and 1-10.3(3)B.OPT1.GR1

1-10.3(3)B.OPT1.GR1 - New GSP

This GSP (Seq Arrow) is a new GSP that modifies the requirements for sequential arrow boards to be GPS enabled. This includes information from GSP 1-10.3(3)B(9-35.4).OPT1.2025.GR1 which was deleted.

1-10.4(2).OPT1.GR1 – Deleted

This GSP (Standard Item) was deleted. The changes to the 2025 Standard Specifications refer to the proposal for items.

1-10.4(3).OPT1.FR1 – Deleted

This GSP (Standard Item) was deleted. The changes to the 2025 Standard Specifications refer to the proposal for items.

DIVISION 2 – Roadway Excavation and Embankment

2-03.4.OPT2.GR2 .OPT1.FR1 – Revised

This GSP (ground measure) was revised to incorporate the Electronic Design Files.

DIVISION 3 – Acceptance of Aggregate

N/A – no changes to Division 3 GSPs

DIVISION 4 – Ballast and Crushed Surfacing

N/A – no changes to Division 4 GSPs

DIVISION 5 - Surface Treatments And Pavements

PEC:pec

5-04.2(9-03.21(1)A).OPT1.2025.GR5 - Deleted

This GSP (Recycled Asphalt Shingles) and the associated instructions were deleted. It was added to the 2025 Standard Specifications

5-05.3.OPT3.FR5 - New GSP

This (textured patters with colored release agent) this is a new GSP to use when the use of a colored release agent is required.

DIVISION 6 – Structures

6-02.3(5)G.OPT1.2025.GR6 – Deleted

This GSP (Error in testing frequency) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-02.3(25)L2.OPT1.2025.GR6 – Deleted

This GSP (Error in table) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-10.3(5).OPT2.2025.GR6 – Deleted

This GSP (Temporary Barrier non-mash fabrication dates) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-11.2.OPT1.2025.GR6 – Deleted

This GSP (precast concrete retaining walls) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-11.3.OPT1.2025.GR6 - Deleted

This GSP (precast concrete retaining walls) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-11.4.OPT1.2025.GR6 - Deleted

This GSP (precast concrete retaining walls) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-11.5.OPT1.2025.GR6 – Deleted

This GSP (precast concrete retaining walls) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-15.3(8).OPT1.2025.GR6 – Deleted

This GSP (maximum test load) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-16.3(3).OPT1.2025.GR6 – Deleted

This GSP (minimum shaft diameter) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-17.3(8).OPT1.2025.GR6 - Deleted

This GSP (Maximum test load) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-18.SA1.2025.GR6 - Deleted

This GSP (Shotcrete) was deleted. It was added to the 2025 Standard Specifications.

6-19.3(7)F.OPT1.2025.GR6 – Deleted

This GSP (crosshole sonic log testing) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-20.3(1)D.OPT1.2025.GR6 - Deleted

This GSP (Geotech considerations) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

6-21.SA1.2025.GR6 – Deleted

This GSP (Materials) was deleted. It was added to the 2025 Standard Specifications.

6-SA1.2026.GR6 – New GSP

This GSP (Polyester Concrete) – New requirements for a polyester concrete overlay.

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

N/A – no changes to Division 7 GSPs

DIVISION 8 - Miscellaneous Construction

8-01.2(9-14.6(4)A).OPT1.2025.GR8 - Deleted

This GSP (no wattles in check dams) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-01.3(6).OPT1.2025.GR8 – Deleted

This GSP (no wattle in check dams). and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-10.1.OPT1.GR1 – Renamed (was 8-10.1.OPT1.NEW.GR8) This GSP (Linear Delineation panels) was renamed.

8-10.2.OPT1.GR1 – Renamed (was 8-10.2.OPT1.NEW.GR8) This GSP (Linear Delineation panels) was renamed.

8-10.3.OPT1.GR1 – Renamed (was 8-10.3.OPT1.NEW.GR8) This GSP (Linear Delineation panels) was renamed.

8-10.4.OPT1.GR1 – Renamed (was 8-10.4.OPT1.NEW.GR8) This GSP (Linear Delineation panels) was renamed.

8-10.5.OPT1.GR1 – Renamed (was 8-10.5.OPT1.NEW.GR8)

This GSP (Linear Delineation panels) was renamed.

8-12.2.OPT6.GB8 – Deleted

This GSP (Cable fence) was deleted. It was added to the 2025 Standard Specifications.

8-12.3.OPT1(A).GB8 – Deleted

This GSP (Cable fence) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-12.3.OPT1(B).GB8 - Deleted

This GSP (Cable fence) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-12.3.OPT1(C).GB8 – Deleted

This GSP (Cable fence) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-12.4.OPT1.GB8 – Deleted

This GSP (Cable fence) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

8-12.5.OPT1.GB8 – Deleted

This GSP (Cable fence) was deleted. It was added to the 2025 Standard Specifications.

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

This GSP (Keeper plate) and the associated instructions were deleted. It was added to the 2025 Standard Specifications.

DIVISION 9 – Materials

STDPLANS.GR9 – Revised

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

Deleted GSPs

The following is a list of all GSPs that have been deleted as part of this package.

1-07.11(2).INST1.GR1 1-07.11(2).OPT1.2025.GR1 1-07.18(5).OPT2.2025.GR1 1-08.1(7)A.INST1.GR1 1-08.1(7)A.OPT1.2025.GR1 1-08.1(7)C.INST1.GR1 1-08.1(9)B.INST1.GR1 1-08.1(9)B.OPT1.2025.GR1 1-10.1(1).INST1.GR1 1-10.3(3)A.INST1.GR1 1-10.3(3)A.OPT1.2025.GR1 1-10.3(3)B(9-35.4).GR1 1-10.3(3)B(9-35.4).POT1.2025.GR1 1-10.4(2).OPT1.GR1 1-10.4(3).INST1.GR1 1-10.4(3).OPT1.FR1 5-04.2(9-03.21(1)A).GR5 5-04.2(9-03.21(1)A).OPT1.2025.GR5 6-02.3(5)G.INST1.GR6 6-02.3(5)G.OPT1.2025.GR6 6-02.3(25)L2.INST1.GR6 6-02.3(25)L2.OPT1.2025.GR6 6-10.3(5).INST2.GR6

6-10.3(5).OPT2.2025.GR6 6-11.2.INST1.GR6 6-11.2.OPT1.2025.GR6 6-11.3.INST1.GR6 6-11.3.OPT1.2025.GR6 6-11.4.INST1.GR6 6-11.4.OPT1.2025.GR6 6-11.5.INST1.GR6 6-11.5.OPT1.2025.GR6 6-15.3(8).INST1.GR6 6-15.3(8).OPT1.2025.GR6 6-16.3(3).INST1.GR6 6-16.3(3).OPT1.2025.GR6 6-17.3(8).INST1.2025.GR6 6-17.3(8).OPT1.2025.GR6 6-18.SA1.2025.GR6 6-19.3(7)F.INST1.GR6 6-19.3(7)F.OPT1.2025.GR6 6-20.3(1)D.INST1.GR6 6-20.3(1)D.OPT1.2025.GR6 6-21.SA1.2025.GR6 8-01.2(9-14.6(4)A).GR8 8-01.2(9-14.6(4)A).OPT1.2025.GR8 8-01.3(6).INST1.GR8 8-01.3(6).OPT1.2025.GR8 8-12.2.OPT6.GB8 2-12.3.INST1.GR8 8-12.3.OPT1.GB8 8-12.3.OPT1(A).GB8 8-12.3.OPT1(B).GB8 8-12.3.OPT1(C).GB8 8-12.4.INST1.GR8 8-12.4.OPT1.GB8 8-12.5.OPT6.GB8 8-20.2(9-29.6(2)).GR8 8-20.2(9-29.6(2)).OPT1.2025.GR8

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1 2 3	INTRO.GR1	Special Pro (November All Project	· 20, 2023<mark>September 3, 2024</mark>)
4 5 6	DIVISION1.GR1	General Re	equirements
7 8	DESWORK.GR1	Description	n of Work
9 10 11 12 13	DESWORK1.FF	(Marc	
14 15 16 17 18 19	DESWORK2.FE	(Augu	ription of Work - Bridge Painting) st 3, 2015) n projects involving only the painting of metal bridges. ns)
20 21	1-02.GR1	Bid Proced	lures and Conditions
22 23	1-02.1.GR1	Prequ	alification of Bidders
23 24 25 26 27	1-02.1.INST1	Ň	Section 1-02.1, including title, is deleted and replaced /ith the following) lust use one preceding any of the following:
27 28 29 30 31 32 33	1-02.1.OP	T1.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	Exam	ination of Plans, Specifications and Site of Work
36 37	1-02.4(1).GR	1 G	ieneral
38 39 40	1-02.4(1).I	NST1.GR1	(Section 1-02.4(1) is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1-02.4	(1).OPT1.FR	 (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 within the project limits and as-built plans for all bridges which are being modified as part of the Project scope including but not limited to widening, repair, retrofit (rail, seismic,

1 2 3 4 5 6 7		etc.), 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	1-02.6.GR1 Pr	eparation of Proposal
10 11 12 13	1-02.6.INST1.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:
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	1-02.6.OPT1.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/C onnectingWashington.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 31 32 33	1-02.6.OPT2.GR1	(Subcontractor list not required with bid) (The fourth and fifth paragraphs of Section 1-02.6 are deleted) (November 20, 2023) Use in all projects with estimated cost of \$1,000,000 or less. <u>Do not use with 1-02.6.OPT8.2026.GR1.</u>
34 35 36 37	<u>1-02.6.INST2.GR1</u>	(The fourth paragraph of Section 1-02.6 is supplemented with the following) Must use once preceding any of the following:
38 39 40 41 42 43	<u>1-02.6.OPT8.2026.0</u>	<u>GR1 (Subcontractor List)</u> <u>(September 3, 2024)</u> <u>Use in all projects requiring a subcontractor list.</u> Do not use with 1-02.6.OPT2.GR1 .
44 45	1-02.6.INST3.GR1	(Section 1-02.6 is supplemented with the following) Must use once preceding any of the following:
46 47 48 49 50 51 52 53 54	1-02.6.OPT3. NEW. (GR1 (Delivery of DBE forms) (November 20, 2023September 3, 2024) Use in Federal Aid projects with DBE Condition of Award (COA) goals. Must use with 1-02.9.OPT1.GR1, 1-03.3.OPT2.GR1, and 1-07.11.OPT3.FR1

1 2 3 4 5 6 7 8 9 10	1-02.6.OPT4.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 and 1-07.11.OPT6.FR1 .
10 11 12 13 14 15 16 17 18 19	1-02.6.OPT5. NEV	K-FR1 (Alternative Bids) (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. (4 or more fill-ins)
20 21 22 23 24 25 26 27 28 29 30	1-02.6.OPT6.FR1	(Cumulative Alternate Bidding) (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.
31 32 33 34 35 36 37 38		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)
39 40	<u>1-02.6.0PT7.GR1</u>	<u>(September 3, 2024)</u>
41 42		<u>Use in all Federally funded projects.</u>
43 44	1-02.9.GR1 I	Delivery of Proposal
45 46 47	1-02.9.INST1.GR1	(Section 1-02.9 is supplemented with the following) Must use once preceding any of the following:
48 49 50 51 52 53 54 55	1-02.9.OPT1.GR1	(DBE document submittal) (November 20, 2023September 3, 2024) 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	1-02.9.OPT2.GR1	(SVBE document submittal) (November 20, 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.OPT4.GR1, and 1-07.11.OPT6.FR1 .
9 10	1-02.12.GR1 Pu	blic Opening of Proposal
10 11 12 13	1-02.12.INST1.GR1	(Section 1-02.12 is supplemented with the following) Must use once preceding any of the following:
13 14 15 16 17 18 19 20 21 22 23 24	1-02.12.OPT1.FR1	 (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 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.
25 26 27 28 29 30 31 32 33 34 35 36 36 37	1-02.12.OPT2.FR1	 (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.
38 39	<u>1-02.13.GR1 Irre</u>	egular Proposals
40 41 42	<u>1-02.13.INST1.GR1</u>	(Item 1j of Section 1-02.13 is revised to read:) Must use once preceding any of the following:
43 44 45 46	<u>1-02.13.0PT1.2026.</u>	<u>GR1 (Bidder Questionnaire)</u> (September 3, 2024) Use in all Federal Aid projects.
47 48 49		ection 1-02 is supplemented with the following) st use once preceding any of the following:
50 51 52 53 54 55	1-02.OPT1.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.

1 2 3	1-03.GR1	Award a	and Execution Of Contract
4	1-03.2.GR1	Aw	vard of Contract
5 6 7 8	1-03.2.INS	T1.GR1	(The first sentence of Section 1-03.2 is revised to read) Must use once preceding any of the following:
9 10 11 12 13 14 15	1-03.2.OPT1.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.
16 17	1-03.3.GR1	Ex	ecution of Contract
18 19 20	1-03.3.INS	T1.GR1	(Section 1-03.3 is supplemented with the following) Must use once preceding any of the following:
20 21 22 23 24 25 26 27	1-03.3.C	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.
28 29 30			Requires Region to set up banking facility for document storage prior to advertisements.
31 32 33 34 35	1-03.3.C	PT2.GR1	(DBE Trucking form) (July 2, 2024) Use in Federal Aid projects with DBE Condition of Award (COA) goals.
36 37 38			Must use with 1-02.6.OPT3.NEW.GR1 , 1-02.9.OPT1.GR1 and 1-07.11.OPT3.FR1
39 40 41	1-03.3.INS	T2.GR1	(The first paragraph of Section 1-03.3 is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47 48	1-03.3.C	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.
49	1-04.GR1	Scope o	of the Work
50 51 52	1-04.2.GR1		ordination of Contract Documents, Plans, Special ovisions, Specifications, and Addenda
53 54 55	1-04.2.INS	T1.GR1	(Section 1-04.2 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5	1-04.2.OPT1.GF	R1 (Unifier) (November 20, 2023) Use in all projects unless approved for omission by Region Construction.
6 7	1-04.5.GR1	Procedure and Protest by the Contractor
8 9 10	1-04.5.INST1.GR1	(Section 1-04.5 is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16 17 18 19 20	1-04.5.OPT1.GF	 (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.
21 22 23	1-05.GR1 Con	trol of Work
23 24 25	1-05.3.GR1	Working Drawings
26 27 28	1-05.3.INST1.GR1	(Section 1-05.3 is supplemented with the following) Must use once preceding any of the following:
29 30 31 32	1-05.3.OPT2.GF	R1 (Right/Left Designation) (October 3, 2022) Use in all WSF projects.
33 34 35 36	1-05.3.OPT3.GF	R1 (Work Plan) (October 3, 2022) Use in all WSF projects.
37 38	1-05.4.GR1	Conformity With and Deviations from Plans and Stakes
39 40 41	9 1-05.4.INST1.GR1 0	(Section 1-05.4 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	1-05.4.OPT1.GF	R1 (Contractor Surveying - Structure) (February 6, 2023September 3, 2024) Use in projects requiring the Contractor to do all surveying needed for bridges, buried structures, walls, or marine structures. 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. Do not 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 6-21.3(4) or 6-22.3(4) depending on the type of overlay).
54 55	1-05.4.OPT2.GF	R1 (Contractor Surveying - Roadway)

1 2 3 4 5 6 7 8 9		(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.
9 10 11 12 13 14 15 16 17	1-05.4.OPT3.GR1	(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.
18 19 20 21 22	1-05.4.OPT4.GR1	(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 .
23 24	1-05.9.GR1 Eq	uipment
24 25 26 27	1-05.9.INST1.GR1	(Section 1-05.9 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32 33 34 35 36 37	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.
38 39 40 41 42 43 44 45		Must also use 1-05.4.OPT2.GR1 (Contractor Surveying – Roadway). (2 fill-ins) The first fill-in describes the type of data to be provided (cross sections Sta. A to B, digital terrain model, etc.) and the file format of the electronic data. The second fill-in is the name and address of the Project Engineer administering the contract.
46 47 48 49 50 51 52 53 54	1-05.9.OPT2.FR1	(Class A Noxious Weeds) (March 9, 2023) RCW 17.10.145 requires state agencies to control Class A noxious weeds. Apply this GSP if the project's SEPA 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.

1 2 3 4			Fill-in #2 will contain the specific instructions how to clean the equipment prior to leaving the project site. (2 fill-ins)
5	1-05.14.GR1	Соор	peration with Other Contractors
6 7 8 9	1-05.14.INST1.	、	Section 1-05.14 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14 15 16 17	1-05.14.OPT	1.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)
17 18 19 20 21 22 23 24	1-05.14.OPT	2.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)
25 26	1-06.GR1 (Control of	Material
27 28	1-06.INST1.GR1	.GR1 (Section 1-06 is supplemented with the following) Must use once preceding any of the following:	
29 30 31 32 33	Plea you whic		se use the following Table to determine which GSPs to use. If have FTA funding, Contact HQ Construction for advice on GSPs to use:
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		Federal Fundi	ng Amount
		Less than \$500K in Federal Aid Aggregate total for all phases	\$500K or more in Federal Aid Aggregate total for all phases.
	No federal aid on any phases (Only State and/or Local Funds are being used for all phases)	Ø	Ø
Funding Source	Federal aid on CN phase only (Only State and/or Local funds are being used for all other phases)	ВА	BABA
Fund	Federal aid on any phase except CN phase (Only State and/or Local funds are		
	being used on the CN phase)	BA	BA

		Federal aid on CN phase and at least one other phase of the Project BA BABA Ø = Neither Buy America nor Buy America/Build America Specs apply BA = Buy America applies. Use the 1-06.OPT1 GSPs. (Iron & Steel Only)
1		BABA=Buy America/Build America applies. Use 1-06.OPT2 GSPs (all materials including Iron & Steel)
2 3 4	1-06.OPT1.GR1	Buy America Must use once preceding any of the following:
5 6 7 8 9	1-06.OPT1(A).GR1	(Buy America) (August 6, 2012) Specification will require the use of domestically sourced Steel and Iron in accordance with 23 CFR 635.410.
10		Use if "BA" GSPs are required in the table above.
11 12 13		Do not use if using 1-06.OPT1(C).FR1
14 15 16 17 18	1-06.OPT1(B).FR1	(Buy America) (August 6, 2012) Specification used for providing a list of temporary steel or iron construction materials that are excluded from Buy America requirements.
19 20 21 22 23		Use in projects that use 1-06.OPT1(A).GR1 when steel or iron in both permanent and temporary installations will be required.
23 24 25 26 27		Must also use 1-06.OPT1(A).GR1 (1 fill-in) List of temporary steel or iron construction materials.
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	1-06.OPT1(C).FR1	(Buy America) (September 7, 2021) When the "BA" GSPs are required in the table above, this GSP may be used instead of 1-06.OPT1(A).GR1 in any Contract at each Region's discretion 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.
42 43 44		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

1 2 3		alternate bid item is Item Name - Domestic Steel and Item Name - Foreign Steel.
3 4 5 6 7		(6 fill-ins) (\$\$1\$\$ and \$\$6\$\$ will be the same and \$\$2\$\$ and \$\$5\$\$ will be the same)
8	1-06.INST1.GR1	(Section 1-06 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14 15 16 17 18	1-06.OPT2.GR1	Build America/Buy America Must use once preceding any of the following:
	1-06.OPT2(A).	(December 20, 2023) Requires the use of domestically sourced Steel, Iron, and Construction Materials in accordance with Public Law 117- 58, div G §§70901-52.
19 20		Must use if "BABA" GSPs are required in the table above.
21 22 23 24 25	1-06.OPT2(B).	 FR1 (Build America/Buy America) (October 5, 2022) Specification used for providing a list of temporary steel, iron or other construction materials that are excluded from Build America/Buy America requirements.
26 27 28 29 30		Use in Projects with 1-06.OPT2(A).GR1 when both permanent and temporary installations will be required AND the Project is federal funded for construction.
31 32 33		Must also use 1-06.OPT2(A).GR1 (1 fill-in) List of temporary steel, iron or other construction materials.
34 35 36	1-06.1.GR1	Approval of Materials Prior to Use
37 38 39	1-06.1.INST1.GR	 1 (Section 1-06.1 is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45	1-06.1.OPT1.C	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.
46 47 48	1-07.GR1 Le	gal Relations and Responsibilities to the Public
40 49 50	1-07.1.GR1	Laws to be Observed
51 52	1-07.1.INST1.GR	1 (Section 1-07.1 is supplemented with the following) Must use once preceding any of the following:
53 54 55	1-07.1.OPT1.0	GR1 Ferry Tolls and Service (October 3, 2022)

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1 2 3		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.
4 5 7 8 9 10 11 12	1-07.1.OPT2.GR1	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.
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	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
32 33 34 35 36 37 38 39 40 41 42 43 44 45	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
45 46 47 48 49 50 51 52 53 53 54 55	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) Fill-in #1 and #2 is the name of the local jurisdiction(s) issuing the exemption/variance Fill-in #3 is the number of nights allowed

1 2 3	Fill-in #4 is the date the exemption/variance expires Fill-in #5 is other requirements			
5 4 5	1-07.1(2).GR1	Healt	th and Safety	
2 3 4 5 6 7 8	1-07.1(2).INST1.GF		ection 1-07.1(2) is supplemented with the following) ust use once preceding any of the following:	
9 10 11 12 13 14 15	1-07.1(2).OPT1	.FR1	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 Safety Manager.	
16 17			A confined space is a space that is ALL of the following:	
18 19 20 21 22 23 24 25			 Large enough and arranged so an employee could fully enter the space and work. 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. 	
26 27 28 29 30 31			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.	
32 33 34 35 36			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.	
37 38 39 40 41 42 43	1-07.1(2).OPT2	.GR1	(Diving and Workboat Safety Requirements) (October 3, 2022) Use in all WSF projects. Provides communication and safety protocols for all diving and work boat activities. Also provides requirements and restriction for working around ferry slips.	
44 45 46 47 48 49 50	1-07.1(2).OPT3	.FR1	(Lead Health Protection Program) (March 9, 2023) Use in projects when lead based paint on existing structures and non-structural items will be disturbed. (1 fill-in).	
50 51 52	1-07.3.GR1 Fi	ire Prev	ention and Merchantable Timber Requirements	
52 53 54 55	1-07.3.INST1.GR1		tion 1-07.3 is supplemented with the following) use once preceding any of the following:	

1 2 3 4 5 6 7	1-07.3.OPT1.GR1	์August Use in p	Service Provisions) 2, 2004) projects that require work in or adjacent to National Reservations.	
5 6	Must also use Forest Service Provisions Appendix loca			
7 8 9 10 11 12		DF/1-07 the run-	dot.wa.gov/publications/fulltext/ProjectDev/GSPsP .3.Appendix.pdf. Do not include this Appendix in list. On the Final Check sheet (Form 221-019EF) Contract Make-Up check the box Forest Service ns.	
13 14	1-07.3(2).GR1	Mer	chantable Timber Requirements	
15 16 17 18 19	1-07.3(2).INST	1.GR1	(Section 1-07.3(2) is supplemented with the following) Must use once preceding any of the following:	
20 21 22 23 24	1-07.3(2).0	PT1.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.	
25 26 27	1-07.4.GR1 Sanit	ation		
27 28 29	1-07.4(2).GR1 H	Health Ha	zards	
29 30 31 32	1-07.4(2).INST1.GR1		1-07.4(2) is revised to read) e once preceding any of the following:	
33 34 35 36 37 38 39	1-07.4(2).OPT1.FR	(Aug Use and haza	cleanup of biological and physical hazards) just 7, 2017) in all projects known to be inhabited by transients, all projects known to contain biological or physical ards such as drug paraphernalia, human ement, etc. I-in)	
40 41	1-07.5.GR1 Envir	ronmental	Regulations	
42 43 44 45			07.5 is supplemented with the following) nce preceding any of the following:	
46 47 48 49	1-07.5.OPT1.GR1	(Septerr An Env	nental Commitments Iber 20, 2010) ironmental Commitment Meeting is expected as in Division 4 of the Plans Preparation Manual	
50 51 52			e with 1-07.5.OPT2.GR1. Must use once preceding ne following Environmental Commitment GSPs:	
53 54 55	1-07.5.OPT1(A).FR		fication of ground disturbing activities) just 4, 2014)	

1 2 3 4 5 6 7			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.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24 26 27 28 9 30 31		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.)
		1-07.5.OPT1(C).FR	 1 (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.) Fill-in #2 defines the minimum distance between the contractor activity and the sensitive area. Fill-in #3 defines the sensitive area(s).
32 33 34 35		1-07.5.OPT2.GR1	Payment (August 3, 2009) Must use with 1-07.5.OPT1.GR1 .
36 37	-	1-07.5(1).GR1 G	eneral
38 39 40		1-07.5(1).INST1.GR1	(Section 1-07.5(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		1-07.5(1).OPT1.FR1	In-Water Operations Along Marine Shorelines (October 3, 2022) Use in all WSF Projects, and any projects where floating equipment or vessels will be operating or mooring near marine shorelines. (2 fill-ins) Fill-in #1 is State or Federal Agency issuing permit or approval. Fill in #2 is allowable work dates.
52	1	1-07.5(2).GR1 St	tate Department of Fish And Wildlife
53 54 55		1-07.5(2).INST1.GR1	(Section 1-07.5(2) is supplemented with the following) Must use once preceding any of the following:

1			
2 3 4 5 6 7	1-07.5(2).OPT1.GR1	(Ápi An I of tl proj	raulic Project Approval ril 2, 2018) Environmental Commitment Meeting (see Division 4 ne Plans Preparation Manual) is mandatory for all ects to determine the applicability of these uirements.
8		icqu	
9 10 11		prec	at use with 1-07.5(2).OPT2.GR1 . Must use once ceding any of the following Hydraulic Project roval GSPs:
12		Арр	10val 63FS.
13 14 15 16 17 18 19 20 21 22 23	1-07.5(2).OPT1(/	4).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)
24	1-07.5(2).OPT2.GR1		ment
25 26			ril 2, 2018) st use with 1-07.5(2).OPT1.GR1 .
27		Mus	
28 29	1-07.5(3).GR1 St	ate Dep	artment of Ecology
30 31 32	1-07.5(3).INST1.GR1		n 1-07.5(3) is supplemented with the following) se once preceding any of the following:
33 34 35 36 37 38	1-07.5(3).OPT1.GR1	(Apı An I of tl proj	er Quality and Resource Protection ril 2, 2018) Environmental Commitment Meeting (see Division 4 ne Plans Preparation Manual) is mandatory for all ects to determine the applicability of these uirements.
39 40 41 42		prec	at use with 1-07.5(3).OPT2.GR1 . Must use once ceding any of the following Hydraulic Project roval GSPs:
43 44 45 46 47 48	1-07.5(3).OPT1(/	A).FR1	(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
49 50 51 52 53 54 55			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.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1-07.5(3).OPT1(B).GR1	(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.
20 21 22	1-07.5(3).OPT2.GR	(Api	ment ril 2, 2018) st use with 1-07.5(3).OPT1.GR1 .
23 24	1-07.5(4).GR1 A	ir Qualit	
25 26	1-07.5(4)C.GR1	·	os Containing Materials
27 28 29	1-07.5(4)C.INST1.G		ction 1-07.5(4)C is supplemented with the following) st use once preceding any of the following:
30 31 32 33 34 35 36 37 38 39 40 41	1-07.5(4)C.OPT1.FR1		 (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.
42 43 44			Must also use 2-02.1.OPT2.GR2 , 2- 02.3.OPT4.GR2 , and 2-02.5.OPT11.GR2 .
45 46 47 48 49 50 51 52 53 54 55	1-07.5(4)C.OPT:	2.FR1	 (1 fill-in) Fill-in is the appendix location for the GFI. (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

1 2 3			Asbestos Containing Material (ACM) will be disturbed by the work on the project. Must include the asbestos GFI as an appendix.
4 5 6			Must also use 2-02.3.OPT5.GR2.
0 7 8 9			(1 fill-in) Fill-in is the Appendix location for the GFI.
10 11	1-07.5(5).GR1	J.S. Army	<pre>v Corps of Engineers</pre>
12 13 14	1-07.5(5).INST1.GR1		n 1-07.5(5) is supplemented with the following) se once preceding any of the following:
14 15 16 17 18 19 20 21	1-07.5(5).OPT1.GF	(Apı An I of tl proj	Army Corps Nationwide Permit ril 2, 2018) Environmental Commitment Meeting (see Division 4 he Plans Preparation Manual) is mandatory for all ects to determine the applicability of these uirements.
22 23 24		pred	st use with 1-07.5(5).OPT2.GR1 . Must use once ceding any of the following Hydraulic Project proval GSPs:
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	1-07.5(5).OPT1	(B).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 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.
44 45 46 47 48 49	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.
50 51 52 53 54	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.
55	1-07.5(5).OPT1	(F).GR1	(Creosote timber, piling, and associated debris)

1 2 3	Ĺ	February 6, 2023) Jse if the project involves disposing of creosoted naterials.
2 3 4 5 6 7 8		ent 2, 2018) ise with 1-07.5(5).OPT1.GR1 .
9 10	1-07.5(6).GR1 U.S. Fish a Fisheries Se	and Wildlife Service and National Marine ervice
11 12 13 14		-07.5(6) is supplemented with the following) once preceding any of the following:
15 16 17 18 19 20 21 22	(April 2 An Env of the project	uction paragraph for environmental (tments) 2, 2018) vironmental Commitment Meeting (see Division 4 Plans Preparation Manual) is mandatory for all ts to determine the applicability of these ements.
23 24 25		use with 1-07.5(6).OPT2.GR1 . Must use once ling any of the following GSPs:
26 27 28 29 30 31 32 33 34	ί L β M J F	Temporary storage pile restrictions) April 2, 2018) Jse in projects applying Programmatic Biological Assessment Minimization Measure #8, where work will be performed between October 1 and une 1. If this GSP is used, please ensure that the Plans indicate where the 100 year floodplain is. Do not use for Emergency Projects.
35 36 37 38 39 40 41	ί L β F W	Floating work platforms) April 2, 2018) Jse 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)
42 43 44 45 46		Truck chute cleanout areas) April 2, 2018) Jse in projects applying Programmatic Biological Assessment Minimization Measure #27.
47 48 49 50 51		Creosote-treated wood restrictions) April 2, 2018) Jse in projects applying Programmatic Biological Assessment Minimization Measure #69.
52 53 54		Pile removal methods) April 2, 2018)

1 2 3		Use in projects applying Programmatic Biological Assessment Minimization Measure #71.
2 3 4 5 6 7	1-07.5(6).OPT1(G).GR1	(Removed pile requirements) (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #73.
8 9 10 11 12 13		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.
14 15 16 17 18 19	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)
20 21 22 23 24 25 26 27 28	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)
29 30 31 32 33 34 35 36	1-07.5(6).OPT1(J).FR1	 (Night work required - 2 hrs after sunset to 2 hrs before sunrise) (April 2, 2018) 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)
 37 38 39 40 41 42 43 44 45 40 	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)
46 47 48 49 50 51 52 53 54 55	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)

1 2 3 4 5 6 7	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.
8 9 10 11 12 13 14 15	1-07.5(6).OPT1(N).I	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.
16 17 18 19 20 21	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.
22 23 24 25 26 27 28 29 30 31	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)
32 33 34 35 36	1-07.5(6).OPT1(Q).	GR1	(Galvanizing and zinc coating restrictions) (September 7, 2021) Restricts the use of Galvanized or Zinc Coatings below the 100-year water level. Contact Region Biologist for direction on use.
37 38 39 40 41	1-07.5(6).OPT2.GR1	(Apr	ment il 2, 2018) t use with 1-07.5(6).OPT1.GR1 .
41 42 43 44 45 46 47 48 49 50 51	1-07.5(6).OPT3.FR1	(Nov Use Prote assis (2 fill Fill-ii Fill-ii	Protection and Monitoring) vember 2, 2022) in projects that require a Project-specific Bird ection Plan. Consult Region biologist for stance. I-ins) n #1 defines the birds identified for protection. n #2 identifies the Appendix in which the MTBA essment Report will be located.
52 53	1-07.6.GR1 Permits a	and Li	censes
54 55			07.6 is supplemented with the following) nce preceding any of the following:

1		
2 3 4 5	1-07.6.OPT1.FR1	Permits and Licenses (January 2, 2018) An Environmental Commitment Meeting is expected as outlined in Division 4 of the Plans Preparation Manual.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		*This GSP requires editing the data located in the permit table located at: http://www.wsdot.wa.gov/publications/fulltext/projectdev/En vironmentalDocumentation/1-07.6.OPT2.FR1_Table.docx, copying and pasting the revised table inside this fill-in area. This needs to be edited prior to insertion and final printing to delete all permits that are not required for the project and insert additional permits not part of the original table. All permits will be attached as an Appendix. Include the Department of Ecology permit coverage letter with the CSWGP. If using a Nationwide Permit, attach the most recent U.S. Army Corps of Engineers Nationwide Permit Verification Letter, conditions, and permit drawings.
21 22		(1 fill-in)
23 24 25	1-07.6.OPT3.GB1	United States Coast Guard Must use once preceding any of the following:
26 27 28 29 30 31	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)
32 33 34 35 36	1-07.6.OPT3(E	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.
37 38	1-07.7.GR1 I	Load Limits
39 40 41 42	1-07.7.INST1.GR1	(Section 1-07.7 is supplemented with the following) Must use once preceding any of the following:
43 44 45 46 47 48	1-07.7.OPT3.FR1	(List of haul routes provided) (March 13, 1995) Use when WSDOT provides a materials source and roads other than State highways are designated as the haul route. (4 fill-ins)
49 50 51 52 53 54 55	1-07.7.OPT4.FR1	(Restrictions on provided haul routes) (March 13, 1995) Use with 1-07.7.OPT3.FR1 when the agreement stipulates additional requirements. (1 fill-in)

1 2 3 4 5 6	1-07.7.OPT5.G		(Contractor provides haul routes for material sources not designated to come from the provided source) (March 13, 1995) Use in all projects where WSDOT provides a source of materials for part or all required materials.
7 8 9 10	1-07.7.OPT6.G	GR1	(Contractor provides haul routes for material sources) (March 13, 1995) Use in projects when no source of materials is provided.
11	1-07.9.GR1	Wages	
12 13 14	1-07.9(1).GR1	Ge	eneral
15 16	1-07.9(1).INST		(Section 1-07.9(1) is supplemented with the following) Must use once preceding any of the following:
17 18 19 20	1-07.9(1).C	PT1.GR1	(January 10, 2024) Use in all Federally funded projects consisting of highway construction and/or landscaping.
21 22 23 24 25 26			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-
27 28 29 30 31 32	1-07.9(1).C	PT2.FR1	131.pdf. (January 10, 2024) Use in Federally funded projects consisting of both highway and building construction. (1 fill-in)
33 34 35 36 37 38 39			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.
40 41 42 43 44	1-07.9(1).C	PT3.FR1	(May 11, 2010) Use in Federally funded projects consisting of only building construction. (1 fill-in)
45 46 47 48 49 50 51			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.
52 53 54 55	1-07.9(1).C	PT5.FR1	(January 10, 2024) Use in all Federally funded projects consisting of both highway and heavy construction.

1 2			(1	fill-in)
2 3 4 5 6			For the selection and application of multiple schedules see the U.S. Department of Labor AGENCY MEMORANDUM NO. 130' dated 3/17, at:	'ALL
7 8 9			https://www.dol.gov/whd/programs/dbra/docs/mem 131.pdf.	10-
9 10 11 12 13 14	1-07.9(1).OPT6	6.FR1	(January 10, 2024) Use in all Federally funded projects consistir highway, heavy, and building constru (2 fill-ins)	
14 15 16 17 18 19			For the selection and application of multiple schedules see the U.S. Department of Labor AGENCY MEMORANDUM NO. 130' dated 3/17 at: https://www.dol.gov/whd/programs/dbra/docs/mem	'AĽL /1978
20 21			131.pdf.	0-
22 23	1-07.9(3).GR1	Арр	rentices	
24 25 26	1-07.9(3).INST1.G		Section 1-07.9(3) is supplemented with the following) lust use once preceding any of the following:	
27 28 29 30 31	1-07.9(3).OPT [,]	1.GR1	Apprentice Utilization (October 3, 2022<mark>September 3, 2024</mark>) Use only on projects advertised by the Washi State Department of Transportation. Use in pro with an Engineer's estimate of \$2 million and great	ojects
32 33 34	1-07.11.GR1 F	Requirer	ments for Nondiscrimination	
35 36 37	1-07.11.INST1.GR1		tion 1-07.11 is supplemented with the following) t use once preceding any of the following:	
38 39 40	1-07.11.OPT1.GR ²	E¢ (C	equirement for Affirmative Action to Ensure qual Employment Opportunity October 3, 2022)	
41 42			se in Federally funded projects exceeding \$10,0 ontract cost.	00 in
43 44 45 46 47 48	1-07.11.OPT2.GR ²	Pa (C R	isadvantaged Business Enterprise (DBE) articipation October 3, 2022) EQUIREMENTS PERTAINING TO "No DBE Goals" O NOT USE UNTIL FURTHER NOTICE.	
49 50 51 52 53 54 55	1-07.11.OPT3.FR1	Di Ei (€ Ri U	isadvantaged Business nterprise (DBE) Participation October 3, 2022<u>September 3, 2024</u>) equires a CONDITION-OF-AWARD GOAL se in selected Federal Aid projects with DBE Condit ward (COA) goals. The final COA DBE Goal is	

1 2 3 4 5 6 7 8 9 10 11 2 3 14 15		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 with 1-07.11.OPT7.GR1 or 1-07.11.OPT8.FR1.
16		
17 18 19 20 21 22 23	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)
24		Note: Fill-in is Total Hours.
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	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 Fill-in #2 is the enforceable COA Goal for Veteran-Owned Businesses Must also include 1-02.6.OPT4.GR1 and 1-
40		02.9.OPT2.GR1.
41 42 43 44	1-07.11.OPT7.FR1	Federal Small Business Enterprise (FSBE) Participation (October 3, 2022)
45 46		Use in selected Federal Aid projects with Federal Small
40 47		Business Enterprise (FSBE) goals. The FSBE Goal is to be furnished or verified by the Office of Equity and Civil
48 40		Rights.
49 50		(1 fill-in) The fill-in shall be in the following format:
51 52 53 54		percent (%) of the contract total for FSBE goals; or dollars for FSBE goals Do not use with 1-07.11.OPT3.FR1.
55	1-07.11(2).GR1	Contractual Requirements

3Must use once precedit41-07.11(2).OPT1.2025.GR1 (January 2451-07.11(2).OPT1.2025.GR1 (January 246Use in all WSDOT7Agency projects is 191-07.12.GR1 Federal Agency Inspection101-07.12.INST1.GR1 (Section 1-07.12 is supple)111-07.12.OPT1.GR1 (Section 1-07.12 is supple)12Must use once preceding131-07.12.OPT1.GR1 (October 3, 2023)15Use in all Federally fun161171-07.12.OPT2.FR118(October 3, 2022)19Use in projects with an reservation.20(3 fill-ins) (\$\$1\$\$ is th Group(s) as shown or	, 2024) projects. (Use of this GSP in Local voluntary.) mented with the following) any of the following: ded projects.
51-07.11(2).OPT1.2025.GR1(January 246Use in all WSDOT7Agency projects is 1891-07.12.GR1Federal Agency Inspection1011-07.12.INST1.GR1(Section 1-07.12 is supple Must use once preceding121-07.12.OPT1.GR1(October 3, 2023)1311-07.12.OPT2.FR1Indian Preference and (October 3, 2022)1611-07.12.OPT2.FR1Indian Preference and (October 3, 2022)19Use in projects with an reservation.201(3 fill-ins)21(3 fill-ins)(\$\$1\$\$ is th Group(s) as shown or	projects. (Use of this GSP in Local voluntary.) mented with the following) any of the following: ded projects. Tribal Ordinances
91-07.12.GR1Federal Agency Inspection10111-07.12.INST1.GR1(Section 1-07.12 is supplet Must use once preceding12Must use once preceding131-07.12.OPT1.GR1(October 3, 2023) Use in all Federally fun161-07.12.OPT2.FR1Indian Preference and (October 3, 2022)19Use in projects with an reservation.20(3 fill-ins)(\$\$1\$\$ is th Group(s) as shown or	any of the following: ded projects. Tribal Ordinances
111-07.12.INST1.GR1(Section 1-07.12 is supple Must use once preceding12Must use once preceding131-07.12.OPT1.GR1(October 3, 2023)15Use in all Federally fun16Indian Preference and (October 3, 2022)19Use in projects with an reservation.20reservation.21(3 fill-ins) (\$\$1\$\$ is th Group(s) as shown or	any of the following: ded projects. Tribal Ordinances
141-07.12.OPT1.GR1(October 3, 2023)15Use in all Federally fun16Indian Preference and 1171-07.12.OPT2.FR1Indian Preference and 118(October 3, 2022)19Use in projects with an 120reservation.21(3 fill-ins) (\$\$1\$\$ is th 122Group(s) as shown or 1	Tribal Ordinances
171-07.12.OPT2.FR1Indian Preference and (October 3, 2022)18(October 3, 2022)19Use in projects with an reservation.20reservation.21(3 fill-ins) (\$\$1\$\$ is th Group(s) as shown or	
24 representative, telepho	e Tribe or Reservation; \$\$2\$\$ is the the Summary of Quantities where Tribal Lands, \$\$3\$\$ is the Tribal
25261-07.15.GR1Temporary Water Pollution P	revention
27	l, and Countermeasures Plan
31 Must use once precedi	upplemented with the following) ng any of the following:
32 33 1-07.15(1).OPT1.GR1 Notification Require (October 3, 2022) 35 Use in all WSF proj	
37 1-07.16.GR1 Protection and Restoration of	f Property
391-07.16(1).GR1Private/Public Property	
40 41 1-07.16(1)C.GR1 Private Property	
40 1-07.16(1)C.GR1 Private Property 42 43 1-07.16(1)C.INST1.GR1 (Section 1-07.16(44 following) 45	1)C is supplemented with the reding any of the following:
40 1-07.16(1)C.GR1 Private Property 42 1-07.16(1)C.INST1.GR1 (Section 1-07.16(43 1-07.16(1)C.INST1.GR1 (Section 1-07.16(44 following) 45 Must use once pred 46 1-07.16(1)C.OPT1.GR1 (October 3, 20) 48 Use on project 49 to be access 50 This provision	eeding any of the following: 222) the where the Contractor is expected ing R/W from adjacent properties. n requires Contractor to obtain use adjacent properties and submit
34(October 3, 2022)35Use in all WSF proj3637371-07.16.GR138	ects.

1 2 3		Use in all WSF projects. Requires the Contractor to obtain permission to use adjacent properties.
4 5	1-07.16(2).GR1 V	egetation Protection and Restoration
5 6 7 8	1-07.16(2).INST1.GR1	(Section 1-07.16(2) is supplemented with the following) Must use once preceding any of the following:
9 10 11 12	1-07.16(2).OPT1.GF	R1 (August 2, 2010) Use in projects to specify preservation of existing desirable vegetation.
12 13 14	1-07.16(4).GR1 A	rchaeological and Historical Objects
14 15 16 17	1-07.16(4).INST1.GR1	(Section 1-07.16(4) is supplemented with the following) Must use once preceding any of the following:
17 18 19 20 21 22 23 24	1-07.16(4).OPT1.GF	R1 (December 6, 2004) Use in projects when reconnaissance studies indicate that there is the probability of finding cultural remains within the project limits which will require monitoring the project area during clearing, grubbing or excavation operations. Requires a pay item.
25	1-07.17.GR1 Utilitie	es and Similar Facilities
26 27 28 29		Section 1-07.17 is supplemented with the following) lust use once preceding any of the following:
30 31 32 33 34	1-07.17.OPT1.FR1	(April 2, 2007) Use in projects where there are utilities within the R/W that will not be adjusted, replaced or constructed by the utility owner or its contractor during the prosecution of the work. (1 fill-in)
35 36 37 38 39 40		(May use with 1-07.17.OPT2.FR1 if utilities other than those described in this provision will be adjusted, replaced or constructed by the utility owner during the prosecution of the work.)
41 42 43 44 45 46 47	1-07.17.OPT2.FR1	(October 3, 2022) Use in projects where there are utilities within the R/W and those utilities will be adjusted, relocated or replaced by the utility owner or its contractor during the performance of the contract, or when the utility owner or its contractor will construct new utilities within the R/W during the performance of the contract.
48 49 50 51 52 53 54 55		(3 fill-ins) (\$\$1\$\$ is a description and location of the work the each utility owner or its contractor will complete, and the duration of that work or anticipated date of completion by each utility or its contractor. \$\$2\$\$ is the name of the utility company or companies, contact person, address, telephone number and e-mail address or other contact information as required to enable the Contractor to identify

1 2 3 4 5 6 7		and contact each utility performing work during the life of the contract. \$\$3\$\$ is a description of any additional requirements that the contractor must perform in order to coordinate with the utility owner or its contractor, such as advance notifications to be provided to the utility for staged work.
8 9 10		(Use with 1-07.17.OPT1.FR1 if other utilities exist within the R/W that will not be adjusted, relocated or replaced by the utility owner.)
11 12 13	1-07.18.GR1 Pu	blic Liability and Property Damage Insurance
14 15 16	1-07.18(5).GR1	Required Insurance Policies
10 17 18 19 20 21	1-07.18(5).INST1.G	 R1 (The first sentence of Item No. 1 of Section 1-07.18(5) is revised to read) Must use once preceding any of the following:
22 23 24 25 26 27 28 29 30	1-07.18(5).OPT2	2.2025.GR1 (Owners and Contractors Protective Insurance) (November 20, 2023) Use in all projects unless an increased or reduced insurance requirement is required. This corrects an error in the standard specifications regarding the insurance form number. Do not use with 1-07.18(5).OPT1.FR1 or 1- 07.18(5).OPT2.GR1.
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	1-07.18(5).OPT1	.FR1 (Increased Insurance Requirement – Owners and Contractors Protective Insurance) (November 20, 2023) Use in projects when the Engineer's estimate is in excess of \$10 million or in projects under \$10 million when in the Engineer's judgment the project involves higher than normal risk(s). The project office should contact the Risk Management & Legal Services Division, Administrative Risk Manager (Office: (360) 704-6376, Cell: (360) 742-8501) to discuss the project's risks. The Administrative Risk Manager will advise the region as to the need to require the additional insurance, and if so, will provide the fill in amount. This GSP should not be used if the fill-in amounts match the values listed in the Standard Specifications. (1 fill-in)
49 50 51 52 53 54 55	1-07.18(5).OPT2.GF	 R1 (Reduced Insurance Requirement) (September 7, 2021) Use in projects when the Engineer's estimate is \$500,000 or less. Do not use with 1-07.18(5).INST1.GR1 because this GSP deletes Item number 1 in Section 1-07.18(5). Must use with 1-07.18(5).OPT3.GR1.

1 2 3 4	re	The first sentence of Item No. 2 of Section 1-07.18(5) is evised to read) fust use once preceding any of the following:
5 6 7 8 9 10 11	1-07.18(5).OPT3.GR1	(Reduced Insurance Requirement) (September 7, 2021) Use in all projects when the Engineer's estimate is \$500,000 or less. Must use with 1-07.18(5).OPT2.GR1 .
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1-07.18(5).OPT4.FR1	(Increased Insurance Requirement - Commercial General Liability (CGL)) (September 7, 2021) Use in projects when the Engineer's estimate is in excess of \$10 million or in projects under \$10 million when in the Engineer's judgment the project involves higher than normal risk(s). The project office should contact the Risk Management & Legal Services Division, Administrative Risk Manager (Office: (360) 704-6376, Cell: (360) 742-8501) to discuss the project's risks. The Administrative Risk Manager will advise the region as to 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)
28 29 30 31		Section 1-07.18.(5) is supplemented with the following) fust use once preceding any of the following:
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	1-07.18(5).OPT5.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.
40 47 48 49 50 51 52 53 54 55	1-07.18(5).OPT6.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

1 2 3 4 5 6 7			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)
8 9	1-07.23.GR1	Public C	Convenience and Safety
10 11	1-07.23(1).GR1	Cor	struction Under Traffic
12 13 14	1-07.23(1).INS	、	Section 1-07.23(1) is supplemented with the following) Aust use once preceding any of the following:
15 16 17 18 19	1-07.23(1).0	OPT1.FB1	(Traffic Restrictions) (March 13, 1995) Use in bridge painting projects. (1 fill-in)
20 21 22 23 24 25 26 27	1-07.23(1).0	OPT4.GR1	(Temporary Access Breaks) (December 6, 2004) 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.
27 28 29 30 31 32 33 34 35 36 37 38 39			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.
40 41 42 43 44 45 46 47 48 49 50 51 52 53	1-07.23(1).0	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.

1 2 3 4		Fill-in #6, #7, and #8 provide information on delays when the Contracting Agency needs to make adjustments due to actual traffic conditions.
4 5 6 7 8 9	1-07.23(1).OPT6.GR1	(Accommodating Oversized Loads through the Work Zone) (April 14, 2014) Use in projects on the following routes:
9 10 11 12 13 14		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
15 16 17 18 19 20 21 22 23 24		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.
25 26 27 28 29		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.
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	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.
45 46 47 48 49	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
50 51 52 53 54	1-07.23(1).OPT9.GR1	(Maintenance and Protection of Ferry Traffic) (October 3, 2022) Use in multi-slip offshore WSF projects.
54 55	1-07.23(1).OPT10.GR1	(Fourth of July Holiday)

1 2 3 4		(October 3, 2022<mark>September 3, 2024</mark>) 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.
4 5 6 7	1-07.24.GR1	Rights of Way
8 9 10	1-07.24.INST1.GR1	(Section 1-07.24 is supplemented with the following) Must use once preceding any of the following:
10 11 12 13 14 15	1-07.24.OPT1.FR	 (March 13, 1995) Use in projects when it is possible that the right of way will not be fully acquired at the time of award. (2 fill-ins)
16 17 18 19	1-07.24.OPT2.GF	C1 (October 3, 2022) Use in all WSF projects, or when the Sundry Site Plan is being included in the Contract.
20 21	1-07.28.GR1	Railroads
22 23 24	1-07.28.INST1.GR1	(Section 1-07.28 is supplemented with the following) Must use once preceding any of the following:
25 26 27 28 29 30 31 32 33	1-07.28.OPT1.FR	 1 (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
34 35 36 37 38 39 40 41 42 43 44	1-07.28.OPT2.FR	 1 (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.
44 45 46 47 48 49 50 51 52 53 54 55	1-07.28.OPT3.FR	 1 (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.

1	1-07.28(1).GR1	General
2 3 4	1-07.28(1).INST1.G	R1 (Section 1-07.28(1) is supplemented with the following) Must use once preceding any of the following:
5 6 7 8 9 10 11 12 13 14 15 16 17 18	1-07.28(1).OPT1	 .FR1 (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".
19 20	1-07.28(2).GR1	Submittals and Working Drawings
21 22	1-07.28(2).INST1.G	R1 (Section 1-07.28(2) is supplemented with the following) Must use once preceding any of the following:
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	1-07.28(2).OPT1	 .FR1 (October 3, 2022) Use in projects that require submittal review by a Railroad. Projects with work occurring below the bridge deck, work adjacent to the tracks, or work requiring containment systems, falsework, or formwork typically require Railroad review. Deck planing, deck repair, and overlays would typically not require Railroad review as the work is confined between the bridge rails and the deck surface. 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 number of calendar days expected for each working drawing. Fill-in #2 is the number of calendar days expected for a re-review of a working drawing.
41 42 43	1-07.28(6).GR1	Railroad Protective Services
44 45 46	1-07.28(6).INST1.G	R1 (Section 1-07.28(6) is supplemented with the following) Must use once preceding any of the following:
40 47 48 49 50 51 52 53 53	1-07.28(6).OPT1	.FR1 (October 3, 2022) Use when the Contracting Agency has made an agreement with the railroad for Railroad Flagging or other protective services. 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)

1 2 3 4 5 6			Fill-in #1 is the minimum notification to Railroad Company or work within 25' of centerline of tracks. Fill-in #2 is the Railroad Company contact for scheduling Railroad Flagging or other protective services.
7 8	1-07.28(8).	GR1 M	leasurement and Payment
9 10	1-07.28(8).INST1.GR1	(Section 1-07.28(8) is revised to read) Must use once preceding any of the following:
11 12 13 14 15 16 17 18 19 20 21 22	1-07	.28(8).OPT1.GF	R1 (Railroad flagging or protective services) (October 3, 2022) Use when railroad flagging or protective services are required for the project and the Contracting Agency has made an agreement with the railroad for Railroad Flagging or other protective services. Estimated Cost to be placed below the line in Ebase for the project office to make direct payments by invoice to the railroad. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary.
23 24	1-08.GR1	Prosecutio	n and Progress
25 26	1-08.1.GR1	Subco	ontracting
27 28 29 30	1-08.1.INS		Section 1-08.1 is supplemented with the following) lust use once preceding any of the following:
30 31 32 33 34	1-08.1.C)PT1.GR1	(Subcontracting) (October 3, 2022) Use in all Federally funded projects.
35 36 37 38	1-08.1.C	DPT3.GR1	Qualifications Of Building Contractor (March 13, 1995) Use in road construction projects that also include building construction.
39 40 41	1-08.1(7). G	R1 Payments	s to Subcontractors and Lower-Tier Subcontractors
41 42 43	1-08.1(7)A.GR1	Payment Reporting
44 45 46	1-08	.1(7)A.INST1.G	R1 (The first paragraph of Section 1-08.1(7)A is revised to read) Must use once preceding any of the following:
47 48 49 50	4	-08.1(7)A.OPT	1.2025.GR1 (July 2, 2024) Use in all projects.
51	1-08.1(7)C.GR1	Subcontractor Retainage
52 53 54 55	1-08	.1(7)C.INST1.G	R1 (The first sentence in the last paragraph of Section 1- 08.1(7)C is revised to read) Must use once preceding any of the following:

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1 2 3 4	1-08.1(7)C.(OPT1.2025.GR1 (February 13, 2024) Use in all projects.
5	1-08.1(9).GR1	Required Subcontract Clauses
6 7 8	1-08.1(9)B.GR1	Clauses Required in Subcontracts of All Tiers
9 10 11 12	1-08.1(9)B.INS T	F1.GR1 (The second paragraph of Section 1-08.1(9)B is supplemented with the following) Must use once preceding any of the following:
13 14 15 16	1-08.1(9)B.(OPT1.2025.GR1 (January 24, 2024) Use in all WSDOT projects. (Use of this GSP in Local Agency projects is voluntary.)
17	1-08.3.GR1 Pi	rogress Schedule
18 19 20	1-08.3(2). NEW. GR1	General Requirements
20 21 22	1-08.3(2)B.GR1	Type B Progress Schedules
22 23 24 25	1-08.3(2)B.INST1.0	GR1 (Section 1-08.3(2) is supplemented with the following) Must use once preceding any of the following:
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	1-08.3(2)B.OPT	 (Additional Required Activities on Progress Schedule) (November 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.
45 46	1-08.4.GR1 Pi	rosecution of Work
40 47 48 49	1-08.4.INST1.GR1	(The first sentence of Section 1-08.4 is revised to read) Must use once preceding any of the following:
50 51 52 53 54 55	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.

1 2 3		Recommendation by the Region Construction Office is advised. (1 fill-in)
4 5 6 7 8 9 10 11 12 13	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 Construction Engineer, or equivalent, approval is required to use this provision. Must include 1- 08.5.OPT1.FR1 and 1-08.5.OPT7.FR1.
14 15 16 17 18 19 20 21 22 23 24	1-08.4.OPT3.FR1	(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)
25 26	1-08.5.GR1	Time for Completion
27 28 29 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:
30 31 32 33 34 35 36 37 38 39 40	1-08.5.OPT1.FR1	(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.
41 42 43 44 45 46 47 48 49 50 51	1-08.5.OPT2.FR1	(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.
52 53 54 55	1-08.5.INST2.GR1	(Section 1-08.5 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7	1-08.5.OPT7.FR1	(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)
8 9 10 11 12 13	1-08.5.OPT8.FR1	(Time for physical completion) (March 13, 1995) Must also use 1-08.9.OPT2.NEW.FR1. 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)
14 15 16 17 18 19 20	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 .
20 21 22 23 24 25 26	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)
26 27 28 29 30 31 32 33 34 35 36 37 38 39	1-08.5.OPT11.FR1	Incentive For Early Completion (July 2, 2024) 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\$\$ is the daily incentive value, \$\$2\$\$ and \$\$4\$\$ are "Substantial" or "Physical" depending on if the incentive will be calculated at the Substantial or Physical Comp[letion Date, and \$\$3\$\$ is the maximum incentive dollar value established by the Region. Incentive values must be justified by road user costs. Fill-in \$\$2\$\$ and \$\$4\$\$ need to be the same.
40 41 42	1-08.6.GR1 Su	spension of Work
43 44	1-08.6.INST1.GR1	(Section 1-08.6 is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49 50 51 52 53 54	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

1 2		path items. Use 1-08.6.OPT2.FR1 instead, if project does not include HMA paving.
3 4 5 6 7 8 9 10 11 12 13		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.
14 15 16 17 18 19 20		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.
21 22 23		The use of a short duration may be impossible to achieve or may raise the cost of the project. (2 fill-ins)
24 25 26 27 28 29 30 31 32 33 34 35	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 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)
36 37 38 39 40 41 42 43 44 45		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.
43 46 47 48 49 50 51		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.
52 1-08 53	.9.GR1 Lic	quidated Damages
	-08.9.INST1.GR1	(Section 1-08.9 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10	1-08.9.OP	T1. NEW. FR1	(Septer Use in a (1 fill-in Fill-in Liquida http://w	shall be the am ted Damag ww.wsdot.wa.gov/	ount determined by les Calculation /publications/fulltext/P sCalculationSheet.xlsi	She ProjectDev	eet:
11 12 13 14 15 16 17 18 19 20 21	1-08.9.OP	T2. NEW. FR1	(March Use in for early physica determine road us Must	13, 1995) projects requiring y use of a signal s al completion tim ine the appropria ser costs. also use PT1.NEW.FR1 .	oorary signal system) an interim or tempor system and where an e is required. The l te liquidated damage 1-08.5.OPT8.FR1	intermedi Region m	iate nust
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	1-08.9.OPT3. NEW. FR1		(Interim Completion Liquidated Damages) (April 6, 2009) 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.NEW.FR1 .				
39 40	1-09.GR1	Measureme	ent and I	Payment			
41 42	1-09.2.GR1	Weigh	ing Equ	lipment			
43 44	1-09.2(1).GR	1 G	eneral F	Requirements for	Weighing Equipme	nt	
45 46	1-09.2(1)A	.GR1	Electro	onic Delivery Mar	nagement System (E	-Ticketing	g)
47 48 49	1-09.2	(1)A.INST1.GI			s revised to read as fo ding any of the followi		
50 51 52 53	1-0	9.2(1)A.OPT1	I.GR1		24) ects with HMA that de 2(1)A.OPT2.GR1.	o not requ	uire
53 54 55					ires the use of the W ib for HMA e-Tickets c		ortal

1 2 3 4 5 6 7 8 9 10 11 12	1	I-09.2(1)A.OF	PT2.GR1	Do not use with 1-09.2(1)A.OPT2.GR1 Must use with 1-09.2(6).OPT1.GR1. (January 24, 2024) Use on select projects with Region Construction Engineer approval when the WSDOT Portal through HaulHub will be used for all e-Tickets on the project. Do not use with 1-09.2(1)A.OPT1.GR1 Must use with 1-09.2(6).OPT2.GR1.
13 14	1-09.2(6).0	R1	Payment	
15 16 17		.2(6).INST1.0	GR1 (See	ction 1-09.2(6) is supplemented with the following:) at use once preceding any of the following:
18 19 20 21	1	I-09.2(6).OPT	1.GR1	(January 24, 2024) Use on projects when the WSDOT Portal through HaulHub will be required for HMA eTickets only.
22 23 24				Do not use with 1-09.2(6).OPT2.GR1 Must use with 1-09.2(1)A.OPT1.GR1.
25 26 27 28	1	I-09.2(6).OPT	2.GR1	(January 24, 2024) Use on projects when the WSDOT Portal through HaulHub will be required for all eTickets.
29 30 31				Do not use with 1-09.2(6).OPT1.GR1 Must use with 1-09.2(1)A.OPT2.GR1.
32 33 34	1-09.3.GR1	Sco	pe of Payr	nent
34 35 36 37	1-09.3.INS	T1.GR1		-09.3 is supplemented with the following) once preceding any of the following:
57 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	1-09.3.C	DPT1.FR1	(August Use rec concurr discretic 100 wo anticipa months dates) t adjustm "Fuel C items do (2 or mo for adju	est Adjustment t 7, 2017) quires Region Construction Manager Approval and ence from HQ Construction Office. At the Region's on, use in Design-Bid-Build projects with more than orking days or high fuel use projects with an ted substantial completion date more than 6 beyond the bid opening date (for jobs with early bid that include any of the bid items that are eligible for nent. Include an estimated amount for the bid item ost Adjustment" in the Engineers Estimate. Only the escribed below are eligible for adjustment.

1 2 3	If the bid proposal contains items that fit the description of the items listed below, then those bid items are eligible for adjustment.
4	,
5 6	Eligible Bid Item Fuel Usage Factor Excavation Incl. Haul, per cubic yard 0.70
7	gal/cy
8	Excavation Incl. Haul –
9	Area per cubic yard 0.70 gal/cy
10	Borrow Incl. Haul, per cubic yard 0.68 gal/cy
11	Borrow Incl. Haul, per ton 0.45 gal/ton
12	Structure Excavation Class
13	Incl. Haul, per cubic yard 0.70 gal/cy
14	Crushed Surfacing, per ton 0.70 gal/ton
15	Crushed Surfacing, per cubic yard 1.20 gal/cy
16	Furnishing and Placing Crushed,
17	per cubic yard 1.20 gal/cy
18	Furnishing and Placing Crushed to No. 4,
19	per square yard 0.02 gal/sy
20	Furnishing and Placing Crushed Screening No. 4 to 0,
21	per square yard 0.002 gal/sy
22	Planing Bituminous Pavement, per square yard 0.09
23	gal/sy
24	HMA CI PG, per ton0.90 gal/ton
25	HMA for, per ton 0.90 gal/ton
26	Commercial HMA, per ton 0.90 gal/ton
27	Cement Concrete Pavement, per cubic yard 1.2 gal/cy
28	Cement Concrete Pavement -
29	Including Dowels, per cubic yard 1.2 gal/cy
30	Concrete Class, per cubic yard 1.2 gal/cy
31	Commercial Concrete, per cubic yard 1.2 gal/cy
32 33	Superstructure, lump sum 0.005 gal/dollar
33 34	St. Reinf. Bar, per pound 0.004 gal/Lb
35	Epoxy-Coated St. Reinf. Bar, per pound 0.004 gal/Lb
36	Determine the Engineers Estimate for the bid item
37	"Fuel Cost Adjustment":
38	r der Cost Aujustment .
39	Base Fuel Cost and Estimated Monthly Fuel Cost:
40	Base r der Oost and Estimated Monthly r der Oost.
41	Obtain the most current Monthly fuel price from the
42	U.S. Energy Information Administration website. The
43	website location and directions are as follows:
44	
45	<u>http://www.eia.gov/petroleum/gasdiesel/</u>
46	 On the web page, click on the West Coast less
47	California, listed under the heading U.S On-
48	Highway Diesel Fuel Prices*(dollar per
49	gallon) at the lower end of the web page.
50	 In the pull down box labeled Period pull down
51	Monthly
52	 Click on the fuel price history found under the
53	column heading View History for the line
54	Diesel (On-Highway) – All Types.
55	

1 Multiply the Base Fuel Cost by the appropriate Contract 2 Duration Factor (below) to determine the Estimated 3 Monthly Fuel Cost. 4 Contract Duration Contract Duration Factor Up to 1 year 1.10 1 to 2 years 1.25 1.37 2 to 3 years 1.49 3 to 4 years 1.62 4 to 5 years 5 6 Estimate the amount of the Adjustment: 7 Use the formulas below. 8 9 Adjustment = (Est. Monthly Fuel Cost – (1.10 x Base 10 Fuel Cost)) x Q 11 Where $Q = \Box$ ((Fuel Usage Factor) x (Total Quantity of 12 13 each Eligible Bid Item)) for all Eligible Bid Items. 14 15 Sample Calculation: My project is 300 working days. It contains 10,000 tons 16 of HMA Cl. 1/2" PG 70-22, and 500 tons of CSBC. 17 18 19 HMA Cl. 1/2" PG 70-22 is Eligible for Adjustment. 20 Crushed Surfacing Base Course is Eligible for 21 Adjustment. 22 23 From U.S. Energy Information Administration website : 24 most recent Monthly Fuel Price = 3.06 dollars per 25 gallon. This monthly price becomes the Base Fuel 26 Cost. 27 28 Therefore: 29 Base Fuel Cost = 3.06 dollars/gal 30 Est. Monthly Fuel Cost = Base Fuel Cost x Contract 31 **Duration Factor** 32 Est. Monthly Fuel Cost = 3.06 x 1.25 = 3.825 dollars/gal 33 34 Q = (0.70 gal/ton x 500 tons) + (0.90 gal/ton x 10,000)35 tons) 36 Q = 9,350 gal 37 38 Adjustment = (3.82 dollars/gal - (1.10 x 3.06)39 dollars/gal)) x 9,350 gal 40 41 Adjustment = \$5,675.45= \$5,700 42 1-09.3.0PT2.FR1 Steel Cost Adjustments 43 44 (August 6, 2018) 45 Use in all projects that use quantities of steel in excess of 50,000 pounds, including non-proprietary walls, pedestrian 46 47 bridges and vehicular bridges. 48

1 2 3		va	-in #1 is the initial cost basis of steel and should use a lue of \$0.40/lb. Any deviation from the default value of .40/lb requires approval of the HQ Construction Office.
4 5 7 8 9 10 11 12 13 14		co co an qu Cc as ite	-in #2 is a list of the bid items that are eligible for steel st adjustment. This can include bid items that are entirely mposed of steel (e.g., Steel Reinforcing Bar for Bridge) d can also include lump sum items that use significant antities of steel (e.g., Superstructure, Lump Sum). Intact the HQ Strategic Analysis and Estimating Unit for sistance preparing the Engineer's Estimate for the bid m "Steel Cost Adjustment."
14 15 16	1-09.8.GR1	Payment	for Material On Hand
17 18	1-09.8.INST1.G	(last paragraph of Section 1-09.8 is revised to read) use once preceding any of the following:
19 20 21 22	1-09.8.OPT1	Ùs	ugust 3, 2009) e in projects that are over \$2 million and have more than 0 working days.
23 24	1-09.9.GR1	Payments	
25 26	1-09.9(1).GR1	Retai	nage
20 27 28 29 30	1-09.9(1).INS	wit	ection 1-09.9(1) including title is deleted and replaced h the following) ist use once preceding any of the following:
31 32 33	1-09.9(1)	.OPT1.GR1	(Vacant) (June 27, 2011) Use in all Federally funded projects.
34 35 26	1-10.GR1 T	emporary Tra	ffic Control
36 37 38	1-10.1.GR1	General	
30 39 40 41	1-10.1.INST1.G		ion 1-10.1 is supplemented with the following) use once preceding any of the following:
42 43 44 45 46 47 48 49 50 51 52 53 54 55	1-10.1.OPT1	(A) Us lat Ty de rec Th pro ap Co de	gency-Provided Traffic Control Resources) oril 1, 2013) e on projects where the Region will be providing some or, equipment or material resource to the Contractor. pically will include signs, posts, pilot car drivers, etc. The cision to provide resources and the use of this provision quires the approval of the Region Construction Manager. e first fill-in is a detailed list of the resources to be ovided. Include a description of the item, the quantity (if propriate), its location and any special instructions to the intractor for acquiring the item. Include a reference to the scription of work provision where the resource is to be plied. The second fill-in is the number of working days

1 2		you want the Contractor to notify the Engineer before each duration of use of the resources.
3 4		(2 fill-ins)
2 3 4 5 6 7 8 9 10 11 12	1-10.1.OPT2.FR1	(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)
13 14 15 16 17 18 19 20 21 22 23 24 25		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.
26		
27		Use with 1-10.5(2).OPT8.GR1 .
27 28 29	1-10.1(1).GR1 M	Use with 1-10.5(2).OPT8.GR1 . Iaterials
27 28 29 30 31 32	1-10.1(1).GR1 M 1-10.1(1).INST1.GR1	
27 28 29 30 31 32 33 33 34 35 36		laterials <u>(Section 1-10.1(1) is supplemented with the following</u>)
27 28 29 30 31 32 33 33 34 35	1-10.1(1).INST1.GR1	Iaterials (Section 1-10.1(1) is supplemented with the following) Must use once preceding any of the following: (Temporary Traffic Control Materials) (Section 9-35 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4	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 .
5	1-10.21(1)(9-35).OPT24.GR1 (Temporary Portable Transverse Rumble Strips)
6 7 8 9	(October 3, 2022) Use on projects that have flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.
10 11	Must use with 1-10.3(3).OPT5.GR1.
12 13 14 15 16 17	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 .
18 19 20 21	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.
22 23 24 25	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.
26 27 28 29	<u>1-10.1(1)(9-35.4).GR1 (Sequential Arrow Signs)</u> (Section 9-35.4 is supplemented with the following) Must use once preceding any of the following:
30 31 32 33 34 35 36	<u>1-10.1(1)(9-35.4).OPT1.GR1 (GPS and Remote Communications</u> <u>Requirements)</u> (September 3, 2024) <u>Use on all Freeway projects where the traffic control</u> plans show sequential arrow signs being used. <u>Must use with 1-10.3(3)B.OPT1.GR1.</u>
37 38 39	1-10.≟ <u>1</u> (≟ <u>1)(</u> 9-35.8).GR1(Section 9-35.8 is revised to read) Must use once preceding any of the following:
40 41 42 43 44 45 46 47	1-10.3 <u>1</u> (3 <u>1</u>)(9-35.8).OPT1.GR1 (Radar Speed Display Signs) (April 1, 2019) 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.
47 48 49 50 51 52	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.
53 54 55	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.

1			
2 3 4 5 6			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 .
7	1-10.2.GR1	Traffic	Control Management
8 9 10 11	1-10.2.INST1.GR1	· · ·	ection 1-10.2 is supplemented with the following) ust use one preceding any of the following:
12 13 14 15	1-10.2.OPT1.GR1		(Work Zone Safety Contingency) (November 2, 2022) Use in all WSDOT projects with traffic control.
16 17			For projects with item bids, use with 1-10.5(2).OPT7.GR1 .
18 19 20			For projects with lump sum plus reinstated bid items, use with 1-10.4(3).OPT1.FR1 and 1-10.5(2).OPT7.GR1.
20 21 22	1-10.2(1).GR1	G	eneral
23 24 25	1-10.2(1).INST	1.GR1	(Section 1-10.2(1) is supplemented with the following) Must use once preceding any of the following:
26 27 28 29 30 31	1-10.2(1).O	PT1.GR1	(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.
32 33 34 35 36 37 38 39	1-10.2(1).O	PT2.GR1	(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.
40 41 42	1-10.3.GR1	Traffic	Control Labor, Procedures and Devices
42 43 44 45	1-10.3.INST1.GR1	· ·	ection 1-10.3 is supplemented with the following) ust use once preceding any of the following:
46 47 48 49 50	1-10.3.OPT1.FR1		(Contractor-Provided Uniformed Police Officers) (May 20, 2020) Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control-related duties.
51 52 53 54			(1 fill-in) The fill-in should provide contact information for local law enforcement agencies that may be able to provide this

1 2		service. The WSP district contact for the project location may also be provided.
3 4 5		Use with 1-10.4(2).OPT6.GR1 and 1-10.5(2).OPT5.GR1 . For use on WSDOT projects only.
6 7	1-10.3(3).GR1 Tr	affic Control Devices
8 9 10	1-10.3(3).INST1.GR1	(Section 1-10.3(3) is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16	1-10.3(3).OPT1.GR1	(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.
17 18 19 20 21		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.
22 23 24 25		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.
26 27 28 29		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 .
30 31 32 33 34 35 36 37 38 39 40 41	1-10.3(3).OPT2.GR1	 (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)(9-35.8).OPT1.GR1.
42 43 44 45		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.
46 47 48 49 50		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.
50 51 52 53 54 55		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 .

1 2 3 4 5 6 7 8 9 10 11 12 13	1-10.3(3).OPT3.FR1	(Smart Work Zone System) (April 15, 2024) 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.
14 15 16 17 18		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.
19 20 21 22		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.
22 23 24 25 26 27		If the smart work zone system 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.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	1-10.3(3).OPT4.FR1	(Queue Warning System) (April 15, 2024) 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 merge offer work zone queue mitigation. Consult region traffic engineer for assistance.
43 44 45 46		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.
47 48 49 50 51		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.
52 53 54 55		If the queue warning system 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 .

1	
1 2 3 4 5 6 7	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 assistance. Must use with 1-10.2(9-35).OPT1.GR1.
8 9 10 11 12	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 .
13 14 15 16 17	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.
18 19 20 21	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 .
22 23	1-10.3(3)A.GR1 Construction Signs
24 25 26 27	1–10.3(3)A.INST1.GR1 (The third paragraph of Section 1-10.3(3)A is revised to read) Must use once preceding any of the following:
28 29 30 31 32 33	1-10.3(3)A.OPT1.2025.GR1 (Sign covering) (February 13, 2024) Use on projects where signs in conflict with the temporary traffic configuration will be covered for 7 calendar days or less.
34 35	1-10.3(3)B.GR1 Sequential Arrow Signs (Arrow Boards)
36 37 38 39	<u>1-10.3(3)B.INST1.GR1 (Section 1-10.3(3)B is supplemented with the following)</u> <u>Must use once preceding any of the following:</u>
40 41 42 43 44 45	1-10.3(3)B.OPT1.GR1(Initial Arrow Board Turn-On Meeting) (September 3, 2024) Use on all Freeway projects where the traffic control plans show sequential arrow signs being used. Must use with 1-10.1(1)(9-35.4).OPT1.GR1.
46 47 48 49	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:
49 50 51 52 53 54 55	1-10.3(3)B(9-35.4).OPT1.2025.GR1 (GPS and Remote Communication Requirements) (October 3, 2022) Use on all Freeway projects where the traffic control plans show sequential arrow signs being used.

1 2 3 4 5	1-10.4.GR1		ment nese GSPs must be included in every project with traffic -10.4(2).OPT1.GR1 or 1-10.4(3).OPT1.FR1.
6 7	1-10.4(2).GR1	Item	Bids With Lump Sum for Incidentals
8 9 10	1-10.4(2).INST1.		Section 1-10.4(2) is supplemented with the following) ust use once preceding any of the following:
11 12 13 14 15 16 17	1-10.4(2).OP	T1.GR1	(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.
18 19			Must use with 1-10.5(2).OPT7.GR1.
20 21 22 23			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.
24 25 26 27 28 29 30	1-10.4(2).OP	T2.GR1	(Automated Flagger Assistance Devices) (January 10, 2022) 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 if being paid by the hour.
31 32 33 34			Do not use if the AFAD is part of the lump sum cost for "Project Temporary Traffic Control,"
35 36 37			Must use with 1-10.1(1).OPT1.GR1, 1- 10.3(3).OPT1.GR1, and 1-10.5(2).OPT1.GR1.
37 38 39 40 41 42 43 44	1-10.4(2).OP	T3.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.
45 46			Do not use if the radar speed display sign is part of the lump sum cost for "Project Temporary Traffic Control,"
47 48 49			Must use with 1-10.3(3).OPT2.GR1, 1-10.3(3)(9- 35.8).OPT1.GR1, and 1-10.5(2).OPT2.GR1.
50 51 52 53 54 55	1-10.4(2).OP	75.GR1	(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 hour.

1 2 3		Do not use if the smart work zone system is part of the lump sum cost for "Project Temporary Traffic Control,"
3 4 5 6		Use with 1-10.3(3).OPT3.FR1 and 1- 10.5(2).OPT3.GR1.
6 7 8 9 10 11 12	1-10.4(2).OPT6.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
13		Use with 1-10.3.OPT1.GR1 and 1-10.5(2).OPT5.GR1 .
14 15 16 17 18 19 20 21	1-10.4(2).OPT7.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. Do not use if the queue warning system is part of the lump sum cost for "Project Temporary Traffic Control,"
22		Use with 1-10.3(3).OPT4.FR1 & 1-10.5(2).OPT4.GR1.
23 24 25 26 27 28	1-10.4(2).OPT8.GR1	(Temporary Portable Transverse Rumble Strips) (October 3, 2022) Use on projects with temporary portable transverse rumble strips that are paid per each.
29 30 31 32		Do not use if the temporary portable transverse rumble strips are part of the lump sum cost for "Project Temporary Traffic Control,"
33 34		Use with 1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.GR1 and 1-10.5(2).OPT6.GR1 .
35 36 27	1-10.4(3).GR1 Rein	stating Unit Items With Lump Sum Traffic Control
37 38 39		Section 1-10.4(3) is supplemented with the following) ust use once preceding any of the following:
40 41 42 43 44 45 46 47 48 40	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.
49 50 51 52 53 54 55		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 Changeable Message Signs. Smart work zone

1 2 3 4			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 .
5 6 7 8 9 10 11 12			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)
13 14 15	1-10.5.GR1	Payment	
16 17	1-10.5(2).GR1	Item	Bids with Lump Sum for Incidentals
18 19	1-10.5(2).INST1		ection 1-10.5(2) is supplemented with the following) ust use once preceding any of the following:
20 21 22 23 24 25 26	1-10.5(2).OF	PT1.GR1	(Automated Flagger Assistance Devices) (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.
27 28 29 30 31 32			Do not use if the AFAD is part of the lump sum cost for "Project Temporary Traffic Control". Must use with 1-10.1(1).OPT1.GR1, 1- 10.3(3).OPT1.GR1, and 1-10.4(2).OPT2.GR1.
33 34 35 36 37 38	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.
39 40 41 42 43 44			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)(9-35.8).OPT1.GR1, and 1-10.4(2).OPT3.GR1.
44 45 46 47 48 49	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.
50 51 52 53 54			Do not use if the Smart Work Zone System is part of the lump sum cost for "Project Temporary Traffic Control" Use with 1-10.3(3).OPT3.FR1 and 1- 10.4(2).OPT5.GR1 .
55			

1 2 3 4	1-10.5(2).OPT4.GR1	(Queue Warning System) (September 7, 2021) Use on projects when a Qu utilized and will be paid by	ueue Warning System will be the hour.
4 5 6 7 8 9		Do not use if the queue w lump sum cost for "Project	varning system is part of the Temporary Traffic Control,"
9 10 11 12		Use with 1-10.3(3 10.4(2).OPT7.GR1.	e). OPT4.FR1 and 1-
12 13 14 15 16 17 18	1-10.5(2).OPT5.GR1		rmed Police Officer) e traffic control plans show s performing traffic control-
19		Use with 1-10.3.OPT1.GR1	I and 1-10.4(2).OPT6.GR1.
20 21 22 23 24 25	1-10.5(2).OPT6.GR1	(Temporary Portable Rumb (October 3, 2022) Use when temporary porta per each.	le Strips) ble rumble strips will be paid
23 26 27 28 29			y portable transverse rumble Imp sum cost for "Project
30 31		Use with 1-10.2(9-35).OPT and 1-10.4(2).OPT8.GR1 .	1.GR1, 1-10.3(3).OPT5.FR1
32 33 34 35 36	1-10.5(2).OPT7.GR1	(Work Zone Safety Conting (November 2, 2022) Use in all WSDOT projects	
37 38 39		For Work Zone Safety Co use the following:	ntingency Estimate amount,
		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
40 41 42		Must use with 1-10.2.OPT1	I.GR1.
43 44	1-10.5(2).OPT8.GR1	(Washington State Patrol R (July 2, 2024)	
45 46 47		included in the Contract.	e use of WSP personnel is The decision to use this
47 48		Construction or designee.	approval of the ARA for

Use with 1-10.1.OPT2.FR1.

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1		INTRODUCTION	
2 3 4 5		be constructed in accordance with the 202 Iunicipal Construction.	2 <u>5</u> 4 Standard Specifications for
6 7		SPECIAL PROVISIONS	
8 9 10		ecial Provisions are included in this cont Project Specific. Special Provisions types	
11 12 13 14	(date) (*****)	General Special Provisio Notes a revision to a Ger and also notes a Project Provision.	neral Special Provision
15 16	(Regions ¹ date)	Region Special Provisior	ו
17 18 19 20	to many projects, u	ovisions are similar to Standard Specifica sually in more than one Region. Usually the inclusion of variable project data, inse	y, the only difference from one
21 22 23	Region Special Pro designations are as	visions are commonly applicable within t follows:	he designated Region. Region
24 25 26 27 28 29 30 31 32 33	Regions ¹ ER NCR NWR OR SCR SWR WSF	Eastern Region North Central Region Northwest Region Olympic Region South Central Region Southwest Region Washington State Ferries Division	
34 35	Project Specific Sp developed.	ecial Provisions normally appear only in the second s	the contract for which they were

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1	1-02.GR1
2	Bid Procedures and Conditions
2	Dia Frocedules and conditions
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
11	(April 2, 2018)
12	Vacant
13	Facant
14	1-02.4.GR1
15	Examination of Plans, Specifications and Site of Work
16	Examination of Flans, opecifications and one of work
17	1-02.4(1).GR1
18	General
19	Ceneral
20	1-02.4(1).INST1.GR1
21	Section 1-02.4(1) is supplemented with the following:
22	
23	1-02.4(1).OPT1.FR1
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	
32	*** \$\$2\$\$ ***
33	
34	1-02.4(2).GR1
35	Subsurface Information
36	
37	1-02.6.GR1
38	Preparation of Proposal
39	
40	1-02.6.INST1.GR1
41	Item number 3 in the second paragraph of Section 1-02.6 is supplemented with the following:
42	
43	1-02.6.OPT1.FR1
44 45	(September 3, 2019)
45 46	The successful Bidder will be the Bidder submitting the lowest responsive Bid that does
46 47	not exceed the maximum funds available. The maximum funds available for this Contract
47 48	is *** \$\$1\$\$ ***.
48 49	Submitting a Proposal that exceeds the maximum funds available will result in the
49 50	Proposal being declared irregular and shall cause the Bid to be rejected by the
00	

1 2 3	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.
4	1-02.6.INST2.GR1
5	The fourth paragraph of Section 1-02.6 is revised to read:
6	
7	
8	1-02.6.OPT8.2026.GR1
9	(September 3, 2024)
10	The Bidder shall submit with the Bid a Subcontractor List (WSDOT Form #271-015)
11	containing the following:
12	A Outprovide state state will be efforted by state of structured state line to list the state of
13 14	1. Subcontractors who will perform the work of structural steel installation, rebar
14	installation, heating, ventilation, air conditioning, and plumbing as described in RCW 18.106 and electrical as described in RCW 19.28, and
16	The wind the electrical as described in the wind the second secon
17	2. The Work those subcontractors will perform on the Contract as described in
18	RCW 39.30.060.
19	
20	3. No more than one subcontractor for each category of work identified, except,
21	when subcontractors vary with Bid alternates, in which case the Bidder shall
22	identify which subcontractor will be used for which alternate.
23	
24 25	1-02.6.INST3.GR1
25 26	Section 1-02.6 is supplemented with the following:
27	1-02.6.OPT2.GR1
28	(November 20, 2023)
29	The fourth and fifth paragraphs of Section 1-02.6 are deleted.
30	
31	1-02.6.OPT3. NEW. GR1
32	(September 3, 2024)
33 34	The Bidder shall submit the following supplemental documents with the Bid in accordance with Section 1-02.9:
35	<u>Section 1-02.9.</u>
36	1. Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-
37	056).
38	
39	2. DBE Written Confirmation Form (WSDOT Form 422-031) - For each and every DBE
40	firm listed on the Bidder's completed Disadvantaged Business Enterprise Utilization
41	Certification, the Bidder shall submit written confirmation from that DBE firm that the
42	DBE is in agreement with the DBE participation commitment that the Bidder has
43	made in the Bidder's completed Disadvantaged Business Enterprise Utilization
44 45	Certification.
46	<u>3. Good Faith Effort Documentation - Bidder must submit good faith effort</u>
47	documentation with the Disadvantaged Business Enterprise Utilization Certification
48	only in the event the Bidder's efforts to solicit sufficient DBE participation have been
49	unsuccessful.
50	

1 2 3 4	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 listed on the DBE Utilization Certification.
5	1-02.6.OPT4.GR1
6	(March 14, 2022)
7	The Bidder shall submit a completed Small and Veteran-Owned Business Plan (SVB
8	Plan, WSDOT Form 226-018) with the Bid, when required by the Special Provisions.
9	
10	For each and every Small or Veteran-Owned Business firm listed on the Bidder's
11	completed SVB Plan, the Bidder shall submit a completed SVBE Subcontractor Written
12	Confirmation Form (WSDOT Form 226-017) that confirms the listed firm is in agreement
13	with the SVBE participation commitment that the Bidder has made in the Bidder's
14	completed SVB Plan. Bidder must submit good faith effort documentation only in the event
15	the Bidder's efforts to solicit sufficient participation have been unsuccessful.
16	
17	Directions for delivery of the SVB Plan, SVBE Subcontractor Written Confirmation, and
18	good faith effort documentation are included in Section 1-02.9.
19 20	1-02.6.OPT5.NEW.FR1
20 21	(September 7, 2021)
22	Alternative Bids
22	
23 24	The bidding proposal on this project permits the Bidder to submit a Bid on one or more alternatives for the construction *** \$\$1\$\$ ***.
24 25	alternatives for the construction $\phi\phi i\phi\phi$.
26	Bid Proposal
27	The bid proposal is composed of the following parts: Base Bid and Alternatives ***
28	\$\$2\$\$ *** i.e. A1, A2, etc.
29	
30	The <u>base bid</u> includes all items that do not change as to quantity, dimension, or type
31	of construction, regardless of which alternative is Bid.
32	
33	The <u>Alternative</u> portions of the bid proposal contain all items which change as to
34	quantity, dimension, or construction method, depending on which alternative is Bid.
35	Alternative Ad
36 37	Alternative A1 Alternative A1 is based on constructing the *** \$\$3\$\$ ***.
38	Alternative AT is based on constructing the \$\$\$\$\$
39	The bid items for Alternative A1 are as listed in the bid proposal.
40	
41	Alternative A2
42	Alternative A2 is based on constructing the *** \$\$4\$\$ ***.
43	
44	The bid items for Alternative A2 are as listed in the bid proposal.
45	
46	Bidding Procedures
47	The Bidder shall submit a price on each and every item of Work included in the base
48	bid. The Bidder shall also submit prices on each and every item under the alternative
49 50	on which the Bidder chooses to bid, or, if the Bidder chooses to bid on more than one
50	alternative, the Bidder shall submit prices for each and every item under each
51 52	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
52	Didder shan subtrik their seared bid in the envelope provided by the contracting

1 2	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				
3	Bids™ "BidExpress®."				
4 5 6 7	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.				
8					
9	1-02.6.OPT6.FR1				
10	(August 3, 2015)				
11	Cumulative Alternates Bidding				
12	The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as part				
13	of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of the				
14	Alternate(s).				
15	Did Droposel				
16 17	Bid Proposal The Bid Dreposal includes the following:				
17 18	The Bid Proposal includes the following:				
19	1. Base Bid				
20	The Base Bid shall include constructing all items included in the Proposal				
21	<i>except</i> those items contained in the Alternate(s).				
22					
23	2. Alternate(s)				
24					
25	a. Alternate A1				
26	Based on constructing (*** \$\$1\$\$ ***)				
27	The Bid items for Alternate A1 are as listed in the Bid Proposal.				
28					
29	b. Alternate A2				
30 31	Based on constructing (*** \$\$2\$\$ ***)				
32	The Bid items for Alternate A2 are as listed in the Bid Proposal.				
33	c. Alternate A3				
34	Based on constructing (*** \$\$3\$\$ ***)				
35	The Bid items for Alternate A3 are as listed in the Bid Proposal.				
36					
37	Bidding Procedures				
38	To be considered responsive the Bidder shall submit a price on each and every Bid				
39	item included in the Base Bid and all Alternate(s.)				
40					
41	The successful Bidder will be the Bidder submitting the lowest responsible Bid for				
42 43	the highest order Preference that is within the amount of available funds for the project. Available funds will be announced immediately prior to the opening of Bids.				
43 44	The following are listed in order from highest to lowest Preference:				
44	The following are listed in order from highest to lowest reference.				
46	1. Preference 1: Lowest total for Base Bid plus Alternate A1 plus Alternate A2				
47	plus Alternate A3, plus etcetera.				
48					
49	2. Preference 2: Lowest total for Base Bid plus Alternate A1 plus Alternate A2				
50	plus Alternate A3.				
51					
52	3. Preference 3: Lowest total for Base Bid plus Alternate A1 plus Alternate A2.				

1	
2	4. Preference 4: Lowest total for Base Bid plus Alternate A1.
3	
4	5. Preference 5: Lowest total for Base Bid.
5	
6	The Contracting Agency may, at their discretion, award a Contract for the Base Bid,
7	without any additional Alternates, in the event that all Bids exceed the available funds
8	announced. In any case, the award will be subject to the requirements of Section 1-
9	03.
10	
11	1-02.6.OPT7.GR1
12	<u>(September 3, 2024)</u>
13	Bidder Questionnaire
14	The Bidder shall submit with their Bid a completed Bidder Questionnaire form (WSDOT
15	Form #272-022). This shall be filled out for each firm who submitted a bid or quote in
16	attempt to participate in the project whether they were successful or not and include the
17	following information:
18	
19	<u>1. Firm name;</u>
20 21	2 Firm address including ZID code:
22	2. Firm address including ZIP code;
23	3. Firm's status as a DBE or non-DBE;
24	
25	4. Race and gender information for the firm's majority owner;
26	
27	5. NAICS code applicable to each scope of work the firm sought to perform in its
28	bid;
29	
30	6. Age of the firm; and
31	
32	7. The annual gross receipts of the firm. The Bidder may obtain this information by
33	asking each firm to indicate into what gross receipts bracket they fit (less than
34	<u>\$1 million; \$1-3 million; \$3-6 million; \$6-10 million; etc.) rather than requesting</u>
35	an exact figure from the firm.
36 37	Failure to return this completed form as part of the Rid Dropped package will eques this
38	Failure to return this completed form as part of the Bid Proposal package will cause this Bid to be considered irregular in accordance with Section 1-02.13. A copy of this form is
39	included in the Proposal Forms.
40	
41	1-02.9.GR1
42	Delivery of Proposal
43	
44	1-02.9.INST1.GR1
45	Section 1-02.9 is supplemented with the following:
46	
47	1-02.9.OPT1.GR1
48	(November 20, 2023<mark>September 3, 2024</mark>)
49	DBE Document Submittal Requirements
50	General
51	The Bidder shall submit supplemental documents that are identified with the Bidder's
52	company name, Project title, Bid date, and description of all contents. (ie, DBE

1 2 3	Utilization Certification, DBE Written Confirmation <u>Document</u> , Good Faith Effort <u>(GFE)</u> Documentation, and DBE Bid Item Breakdown <u>Form</u>)
3 4 5	Submissions must be made by one of the following methods:
5 6 7	1. Physically in a sealed envelope marked as "BID SUPPLEMENT"; or
7 8 9	2. By facsimile to the following FAX number: 360-705-6966; or
9 10 11	3. By e-mail to the following e-mail address: <u>DBEDoc@wsdot.wa.gov;</u> or
12 13 14 15 16	 Mailed to: Washington State Department of Transportation Room 2D20 310 Maple Park Avenue SE Olympia WA 98501-2361
17 18 19 20 21	The only documents that can be accepted after the 11:00:59 am time for delivery of Proposal are the Written Confirmation Document ation , the DBE Bid Item Breakdown Form, and a-GFE <u>Documentation</u> (if applicable). Incomplete or inaccurate documents will be rejected, except as detailed above for the DBE Bid Item Breakdown Form.
22 23 24 25	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.
26 27 28 29 30 31 32 33	DBE Utilization Certification (WSDOT Form 272-056) The DBE Utilization Certification shall be received at the same location and no later than the time required for delivery of the Proposal. The Contracting Agency will not open or consider any Proposal when the DBE Utilization Certification is received after the time specified for receipt of Proposals or received in a location other than that specified for receipt of Proposals. The DBE Utilization Certification may be submitted in the same envelope as the Bid deposit.
34	DBE Written Confirmation <u>Document</u> (WSDOT Form 422-031) and GFE
35 36 37 38 39 40 41 42 43 44 45	Documentation, (if applicable) The DBE Written Confirmation Document(s) and/or GFE Documentations are not required to be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or GFE <u>Documentation</u> (if applicable) shall be received either with the Bid Proposal or as a Supplement to the Bid. Written confirmation and/or GFE <u>Documentation</u> 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 <u>a</u> Written Confirmation Documentation from each DBE firm listed on the Bidder's completed DBE Utilization Certification and/or the GFE <u>Documentation</u> as required by Section 1-02.6.
46 47 48 49 50 51	DBE Bid Item Breakdown Form (WSDOT Form 272-054) The DBE Bid Item Breakdown 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. The successful Bidder shall submit a completed DBE Bid Item Breakdown, however, the Contractor may correct minor errors and corrections to the DBE Bid Item

1 2	Breakdown will be returned for correction f or a period up to five calendar days (not including Saturdays, Sundays and Holidays).					
3 4 5 6	The DBE Bid Item Breakdown <u>Form will</u> not be included as part of the executed Contract.					
7 8 9	software	, "BidExpress,"	mitted electronically via AASHTOWare Project Bids™ the DBE Utilization Certification may be attached to the ed as a supplemental document as defined above.			
10 11	1-02.9.OPT2.GR	21				
12	(Novembe					
13			tal Requirements			
14	Genera The Did		un plana a tal da cum a sta that ana idantifia du vith tha Didda "a			
15 16			supplemental documents that are identified with the Bidder's title, Bid date, and description of all contents (i.e., Small and			
17			ess Plan, SVBE Subcontractor Written Confirmation			
18	Docume	ents, and/or SVB	E GFE Documentation).			
19 20	Submic	cions must ho m	ade by one of the following methods:			
20	Subilis		ade by one of the following methods.			
22	1.	Physically in a s	sealed envelope marked as "BID SUPPLEMENT"; or			
23	0	Du fa asimila ta				
24 25	2.	By facsimile to	the following FAX number: 360-705-6966; or			
26	3.	By e-mail to the	e following e-mail address: DBEDoc@wsdot.wa.gov; or			
27						
28 29	4.	Mailed to:	Washington State Department of Transportation Room 2D20			
29 30			310 Maple Park Avenue SE			
31			Olympia WA 98501-2361			
32		<i></i> .				
33 34			is not responsible for delayed, partial, failed, illegible or mail document transmissions, and such documents may be			
35			t the Bidder's risk.			
36	,	I				
37			ned Business Plan (SVB Plan) (WSDOT Form 226-018)			
38 39			received no later than the time required for delivery of the ency will not open or consider any Bid when the SVBE Plan			
40			specified for receipt of Bids or received as specified by this			
41			SVBE Plan may be submitted in the same envelope as the			
42 43	Bid dep	osit.				
43 44	SVBE S	Subcontractor W	/ritten Confirmation (WSDOT Form 226-017) and/or			
45	GFE Do	ocumentation				
46			r Written Confirmation Documents and/or GFE Documents			
47 48		•	submitted with the Bid. The SVBE Subcontractor Written s) and/or GFE (if any) shall be received either with the Bid			
49			ne Bid. The documents shall be received no later than 48			
50			Irdays, Sundays, and Holidays) after the time for delivery of			
51	the Bid	. IO DE CONSIDER	ed responsive, Bidders shall submit Written Confirmation			

1	Documentation from each SVBE firm listed on the Bidder's completed SVB Plan
2 3	and/or the GFE as required by Section 1-02.6.
4	NOTE: If the Bid is submitted electronically via AASHTOWare Project Bids™
5	software "BidExpress®", the SVB Plan may be attached to the electronic Bid
6 7	or submitted as a supplemental document as defined above.
8	1-02.12.GR1
9	Public Opening of Proposals
10	
11 12	1-02.12.INST1.GR1
12	Section 1-02.12 is supplemented with the following:
14	1-02.12.OPT1.FR1
15	(August 3, 2015)
16	Date of Opening Bids
17	The bid opening date for this project is *** \$\$1\$\$ ***. Bids received will be publicly opened
18 19	and read after 11:00:59 A. M. Pacific Time on this date.
20	1-02.12.OPT2.FR1
21	(October 3, 2022)
22	Date of Opening Bids
23	Proposals will be received by in-person delivery or by courier at the *** \$\$1\$\$ *** reception
24	desk located at the *** \$\$2\$\$ *** on the Bid opening day.
25 26	The Bid opening date for this project is *** \$\$3\$\$ ***. Bids received will be publicly opened
27	and read after 11:00:59 A.M. on this date.
28	
29	1-02.13.INST1.GR1
30 31	Item 1j of Section 1-02.13 is revised to read:
32	1-02.13.OPT1.2026.GR1
33	(September 3, 2024)
34	j. The Bidder fails to submit the Bidder Questionnaire (WSDOT Form 272-022), if
35	applicable, as required in Section 1-02.6, or if the documentation that is submitted
36 37	fails to meet the requirements of the Special Provisions; or
38	1-02.INST1.GR1
39	Section 1-02 is supplemented with the following:
40	
41	1-02.OPT1.GR1
42	(September 7, 2021)
43 44	Protest Procedures Form and Substance
44	All protests regarding any contents or portion of the bid proposal must be submitted
46	to the Contracting Agency as soon as possible after the protestant becomes aware
47	of the reason(s) for the protest. All protests must be in writing and signed by the
48	protestant or an authorized agent. Such writing must state all facts and arguments
49 50	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
50 51	referenced in the writing. Copies of all protests and exhibits shall be submitted by the
52	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.
- 19 The Contracting Agency's decision shall be final and conclusive. Selection of the 20 successful Bidder, if one is to be made, will be postponed until after the Contracting 21 Agency has issued its decision. The Contracting Agency shall provide the protestant 22 with written notice of this decision no later than two full working days prior to 23 execution of the contract. 24

25 **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.
- 32
 33 Protests which do not comply with the above-specified procedures will not be
 34 considered.
- 35

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1 2 3	1-05.GR1 Control of V	Work			
4 5 6	1-05.3.GR1 Working D i	rawings			
7 8 9	1-05.3.INST ² Section 1-05	1.GR1 .3 is supplemented with the following:			
10 11 12 13 14 15 16	When su *** caler Contract	.FR1 uber 3, 2019) ubmittals require review by the railroad, the Engineer will require up to *** \$\$1\$\$ ndar days from the date the submittals are received until they are returned to the tor. If a submittal is returned unapproved and then resubmitted, then an additional me of up to *** \$\$2\$\$ *** calendar days will be required.			
17 18 19 20	individua	than *** \$\$1\$\$ *** calendar days are required for the Engineer's review of any al submittal or resubmittal, an extension of time will be considered in accordance ction 1-08.8.			
21 22 23 24 25	1-05.3.OPT2.GR1 (October 3, 2022) Right and Left Designation Any right or left designations used to locate Structures throughout the Plans and these Special Provisions are made by facing offshore.				
26 27 28	1-05.3.OPT3.GR1 (October 3, 2022)				
29 30 31 32	<i>Work Plan</i> The Contractor shall submit a Work Plan to the Engineer for review. The Work Plan shall include the following minimum requirements:				
32 33 34 35 36 37 38 39 40	1.	The Work Plan shall describe the Contractor's proposed methods for accomplishing the Work within the conditions and restrictions of the Contract. It shall describe the nature, approach and sequence of the Work to be performed; the type and location of cranes, barges and other equipment to be used; plans for demolition, debris control and disposal of materials; temporary construction; compliance with environmental provisions; and any unavoidable impacts, necessary safeguards, and mitigating measures.			
41 42 43 44	2.	Where the Contractor's Work would impact the operation and safety of ferry traffic and ferry pedestrian areas, the Work Plan shall detail the methods used to either separate the Work from the ferry traffic or to maintain the area in a safe condition while it is being utilized by ferry passengers.			
45 46 47 48 49	3.	The Work Plan shall be a Type 2 Working Drawing with attached drawings, charts, diagrams and references to the Plans and Progress Schedule as necessary.			
50 51 52	4.	The Work Plan shall be updated whenever conditions change or as directed by the Engineer.			

1 2	All costs associated with the Work Plan shall be included in the applicable items of Work					
3	1-05.4.GR1					
4		y with and Deviations from Plans and Stakes				
5	Comoning					
6	1-05.4.INST1.GR1					
7		5.4 is supplemented with the following:				
8						
9	1-05.4.OPT1	1.GR1				
10		ary 6, 2023 September 3, 2024)				
11	•	ctor Surveying - Structure				
12		ntracting Agency has provided primary survey control in the Plans.				
13						
14	The Co	ntractor shall be responsible for setting, maintaining, and resetting all alignment				
15		slope stakes, and grades necessary for the construction of bridges, noise walls,				
16		g walls, buried structures, and marine structures. Except for the survey control				
17	data to	be furnished by the Contracting Agency, calculations, surveying, and measuring				
18	required	for setting and maintaining the necessary lines and grades shall be the				
19	Contrac	tor's responsibility.				
20						
21		ntractor shall inform the Engineer when monuments are discovered that were not				
22		d in the Plans and construction activity may disturb or damage the monuments.				
23		uments noted on the plans "DO NOT DISTURB" shall be protected throughout the				
24	length o	of the project or be replaced at the Contractor's expense.				
25	Dataila	l company and the line of the transformed in the line of the contraction of the contract				
26	Detailed survey records shall be maintained, including a description of the work					
27	performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall					
28 29	be provided to the Engineer within three working days after the end of the shift.					
29 30	be provi					
31	The me	aning of words and terms used in this provision shall be as listed in "Definitions of				
32	Surveying and Associated Terms" current edition, published by the American Congress					
33		eying and Mapping and the American Society of Civil Engineers.				
34						
35	The sur	vey work by the Contractor shall include but not be limited to the following:				
36						
37	1.	Verify the primary horizontal and vertical control furnished by the Contracting				
38		Agency and expand into secondary control by adding stakes and hubs as well				
39		as additional survey control needed for the project. Provide descriptions of				
40		secondary control to the Contracting Agency. The description shall include				
41		coordinates and elevations of all secondary control points.				
42	-					
43	2.	Establish, by placing hubs and/or marked stakes, the location with offsets of				
44		foundation shafts and piles.				
45	2	Establish affects to facting contarling of begring for structure every				
46	3.	Establish offsets to footing centerline of bearing for structure excavation.				
47 48	1	Establish offsats to facting contarling of bearing for facting forms				
40 49	4.	Establish offsets to footing centerline of bearing for footing forms.				
49 50	5.	Establish wing wall, retaining wall, noise wall, and buried structure horizontal				
51	0.	alignment.				
52						

1	6.	Establish retaining wall top of wall profile grade.		
2 3	7.	Establish buried structure profile grade.		
4 5	8.	Establish elevation benchmarks for all substructure formwork.		
6 7 8 9	9.	Check elevations at top of footing concrete line inside footing formwork immediately prior to concrete placement.		
9 10 11 12	10.	Check column location and pier centerline of bearing at top of footing immediately prior to concrete placement.		
12 13 14 15	11.	Establish location and plumbness of column forms, and monitor column plumbness during concrete placement.		
16 17 18	12.	Establish pier cap and crossbeam top and bottom elevations and centerline of bearing.		
19 20 21	13.	Check pier cap and crossbeam top and bottom elevations and centerline of bearing prior to and during concrete placement.		
21 22 23	14.	Establish grout pad locations and elevations.		
24 25	15.	Establish structure bearing locations and elevations, including locations of anchor bolt assemblies.		
26 27	16.	Establish box girder bottom slab grades and locations.		
28 29 20	17.	Establish girder and/or web wall profiles and locations.		
30 31 32	18.	Establish diaphragm locations and centerline of bearing.		
33 34	19.	Establish roadway slab alignment, grades and provide dimensions from top of girder to top of roadway slab. Set elevations for deck paving machine rails.		
35 36 27	20.	Establish traffic barrier and curb profile.		
37 38 39	21.	Profile all girders prior to the placement of any deadload or construction live load that may affect the girder's profile.		
40 41 42 43	22.	Establish locations for marine structures including fixed and floating berthing structures, vehicle and pedestrian foundations and spans, and marine-based buildings.		
44 45 46 47	The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.			
48 49 50 51 52	The Contractor shall submit the computed elevations at the top of bridge decks as a Type 2 Working Drawing. The To compute top of bridge deck elevations, elevations shall be computed taken at the tenth points along the centerline of each girder web from center-to-center of bearing. For girders exceeding 100 feet in length, the elevations shall be taken at equivalent intervals not to exceed 10 feet.			

1				
2 3	The Co	ntractor shall ensure a surveyi	ng accuracy within the fo	ollowing tolerances:
4			<u>Vertical</u>	<u>Horizontal</u>
5	1.	Stationing on structures		±0.02 feet
6	2. 3.	Alignment on structures	0.01 feet	±0.02 feet
7 8	3.	Superstructure elevations	±0.01 feet variation from	2
9			plan elevatio	
10	4.	Substructure	±0.02 feet	
11			variation from	n
12			Plan grades.	
13 14	Bu	ried structures shall be within t	the tolerances described	in Section 6-20.3.
15				·
16 17 18		ntracting Agency may spot-che change the requirements for n		
10	When s	taking the following items, the	Contractor shall perform	independent checks from
20		t secondary control to ensure	•	
21	specifie	d survey accuracy tolerances:	·	
22	51			
23 24	Pile	es afts		
25		otings		
26		lumns		
27			.	
28		ntractor shall calculate coord		
29 30		and columns. The Contract approval to the Contract		
31		will require up to seven calend		
32	approva	• •	y	5
33				
34 25		t work to be performed using		
35 36		are approved by the Contractor of responsibility for the acc		loval shall not relieve the
37	Contrac	tor or responsibility for the doc	buldey of the states.	
38	Payme	ent		
39	Paymer	nt will be made for the following	g bid item when included	l in the proposal:
40	"04	·····		
41 42	"St	ructure Surveying", lump sum.		
43	The lur	np sum contract price for "Si	tructure Surveving" shal	l be full pay for all labor.
44	equipm	ent, materials, and supervisio	n utilized to perform the	Work specified, including
45		surveying, checking, correctio	n of errors, replacemer	nt of missing or damaged
46	stakes,	and coordination efforts.		
47 48	1-05.4.OPT2	2 GR1		
49		ary 13, 2021)		
50		nctor Surveying - Roadway	/	
51		ntracting Agency has provided		n the Plans.
52				

The Contractor shall be responsible for setting, maintaining, and resetting all alignment 1 2 stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, 3 surfacing, paving, channelization and pavement marking, illumination and signals, 4 guardrails and barriers, and signing. Except for the survey control data to be furnished 5 by the Contracting Agency, calculations, surveying, and measuring required for setting 6 and maintaining the necessary lines and grades shall be the Contractor's responsibility. 7 8 The Contractor shall inform the Engineer when monuments are discovered that were not 9 identified in the Plans and construction activity may disturb or damage the monuments. 10 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the 11 length of the project or be replaced at the Contractors expense. 12 13 Detailed survey records shall be maintained, including a description of the work 14 performed on each shift, the methods utilized, and the control points used. The record 15 shall be adequate to allow the survey to be reproduced. A copy of each day's record shall 16 be provided to the Engineer within three working days after the end of the shift. 17 18 The meaning of words and terms used in this provision shall be as listed in "Definitions of 19 Surveying and Associated Terms" current edition, published by the American Congress 20 on Surveying and Mapping and the American Society of Civil Engineers. 21 22 The survey work shall include but not be limited to the following: 23 24 1. Verify the primary horizontal and vertical control furnished by the Contracting 25 Agency, and expand into secondary control by adding stakes and hubs as well 26 as additional survey control needed for the project. Provide descriptions of 27 secondary control to the Contracting Agency. The description shall include 28 coordinates and elevations of all secondary control points. 29 30 Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on 2. 31 centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and 32 at points on the alignments spaced no further than 50 feet. 33 34 3. Establish clearing limits, placing stakes at all angle points and at intermediate 35 points not more than 50 feet apart. The clearing and grubbing limits shall be 5 36 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise 37 shown in the Plans. 38 39 4. Establish grading limits, placing slope stakes at centerline increments not more 40 than 50 feet apart. Establish offset reference to all slope stakes. If Global 41 Positioning Satellite (GPS) Machine Controls are used to provide grade control, 42 then slope stakes may be omitted at the discretion of the Contractor 43 44 5. Establish the horizontal and vertical location of all drainage features, placing 45 offset stakes to all drainage structures and to pipes at a horizontal interval not 46 greater than 25 feet. 47 48 6. Establish roadbed and surfacing elevations by placing stakes at the top of 49 subgrade and at the top of each course of surfacing. Subgrade and surfacing 50 stakes shall be set at horizontal intervals not greater than 50 feet in tangent 51 sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-52 foot intervals in intersection radii with a radius less than 10 feet. Transversely,

1 2 3 4 5		additional points such that the	ne transverse spaci ols are used to prov	e roadway slope changes and at ng of stakes is not more than 12 vide grade control, then roadbed cretion of the Contractor.
6 7 8	7.	Establish intermediate ele throughout the project.	vation benchmarks	s as needed to check work
9 10 11 12	8.	•	•	tervals or provide simultaneous f paving pins as they are being
13 14 15 16 17	9.	limited to channelization a	and pavement mar signing) provide sta	this provision, (including but not king, illumination and signals, aking and layout as necessary to ecific construction activity.
18 19 20 21 22 23 24	10.	sections shown in the Cont and drainage where matchin from new pavement to exis	tract Plans in order ng into existing featu sting pavement. The	eded to the profiles or roadway to achieve proper smoothness ires, such as a smooth transition e Contractor shall submit these al 10 days prior to the beginning
24 25 26 27		ntractor shall provide the Co data when requested by the E		copies of any calculations and
28 29	The Cor	ntractor shall ensure a survey	ing accuracy within	the following tolerances:
30			Vertical	Horizontal
31	Slo	pe stakes	±0.10 feet	±0.10 feet
32		ograde grade stakes set		
33		0.04 feet below grade	±0.01 feet	±0.5 feet
34		C		(parallel to alignment)
35				±0.1 feet
36				(normal to alignment)
37				
38		tioning on roadway	N/A	±0.1 feet
39	•	nment on roadway	N/A	±0.04 feet
40	Sur	facing grade stakes	±0.01 feet	±0.5 feet
41				(parallel to alignment)
42				±0.1 feet
43				(normal to alignment)
44 45	Por	adway paving pins for		
45		surfacing or paving	±0.01 feet	±0.2 feet
40 47		surgering of paving	-v.v i ieel	± 0.2 reet (parallel to alignment)
48				± 0.1 feet
49				(normal to alignment)
50				
51 52		ntracting Agency may spot-ch change the requirements for r		s surveying. These spot-checks the Contractor.

- When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.
- 6 The Contractor shall calculate coordinates for the alignment. The Contracting Agency will 7 verify these coordinates prior to issuing approval to the Contractor for commencing with 8 the work. The Contracting Agency will require up to seven calendar days from the date 9 the data is received.
- Contract work to be performed using contractor-provided stakes shall not begin until the
 stakes are approved by the Contracting Agency. Such approval shall not relieve the
 Contractor of responsibility for the accuracy of the stakes.
- Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
 needed that are not described in the Plans, then those stakes shall be marked, at no
 additional cost to the Contracting Agency as ordered by the Engineer.
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Payment

- Payment will be made for the following bid item when included in the proposal:
 - "Roadway Surveying", lump sum.

The lump sum contract price for "Roadway Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

28

29 1-05.4.OPT3.GR1

30 (April 4, 2011)

31 Licensed Surveyors

The Contractor shall be responsible for reestablishing or locating legal survey markers such as GLO monuments or property corner monuments, conduct boundary surveys to determine Contracting Agency right-of-way locations, and obtain, review and analyze deeds and records as necessary to determine these boundaries. The Contracting Agency will provide "rights of entry" as needed by the Contractor to perform the work.

37

The Contractor shall brush out or clear and stake or mark the right-of-way lines as designated by the Engineer.

- The Contractor shall inform the Engineer when monuments are discovered that were not
 identified in the Plans and construction activity may disturb or damage the monuments.
 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
 length of the project or be replaced at Contractors expense.
- 45
- When required, the Contractor shall prepare and file a Record of Survey map in accordance with RCW 58.09 and provide a recorded copy to the Contracting Agency. The Contracting Agency will provide all existing base maps, existing horizontal and vertical control, and other material available with Washington State Plane Coordinate information to the Contractor. The Contracting Agency will also provide maps, plan sheets, and/or aerial photographs clearly identifying the limits of the areas to be surveyed. The

- 1 Contractor shall establish Washington State Plane Coordinates on all points required in 2 the Record of Survey and other points designated in the Contract documents.
 - Existing right of way documentation, existing base maps, existing horizontal and vertical control descriptions, maps, plan sheets, aerial photographs and all other available material may be viewed by prospective bidders at the office of the Engineer.
- 8 The Contractor shall perform all of the necessary calculations for the contracted survey 9 work and shall provide copies of these calculations to the Contracting Agency. Electronic 10 files of all survey data shall be provided and in a format acceptable to the Contracting 11 Agency.
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All survey work performed by the Contractor shall conform to all applicable sections of the Revised Code of Washington and the Washington Administrative Code.

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The Contractor shall provide all traffic control, signing, and temporary traffic control devices in order to provide a safe work zone.

Pavment

Payment will be made in accordance with Section 1-09.6 for the following bid item when included in the proposal:

- "Licensed Surveying", Force Account.
- For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Licensed Surveying" in the bid proposal to become a part of the total bid by the Contractor.
- 27 28 1-05.4.OPT4.GR1
- 29 (March 9, 2023)

30 **Contractor Surveying – ADA Features**

ADA Feature Staking Requirements

- The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, and grades necessary for the construction of the ADA features. Calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility. The Contractor shall build the ADA features within the specifications in the Standard Plans and contract documents.
 - ADA Feature Contract Compliance
- 40 The Contractor shall be responsible for completing measurements to verify all ADA 41 features comply with the Contract in the presence of the Engineer. 42

43 ADA Feature As-Built Measurements

- 44 The Contractor shall be responsible for providing the latitude and longitude of each 45 ADA feature as indicated on the ADA Inspection Form(s) (WSDOT Form 224-020).
- 46 47 The completed ADA Inspection Form(s) (WSDOT Form 224-020) shall be submitted
- 48 as a Type 3 Working Drawing and transmitted to the Engineer within 30 calendar
- 49 days of completing the ADA feature. After acceptance, the Contracting Agency will 50 submit the final form(s) to the WSDOT ADA Steward.
 - 50 51
 - 52

1 **Payment** 2 Payment wil

Payment will be made for the following bid item that is included in the Proposal:

"ADA Features Surveying", lump sum.

6 The lump sum Contract price for "ADA Features Surveying" shall be full pay for all the
7 Work as specified.

In the instance where an ADA feature does not meet accessibility requirements, all work
to replace non-compliant work and then to measure, record the as-built measurements,
and transmit the electronic forms to the Engineer shall be completed at no additional cost
to the Contracting Agency.

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14 1-05.9.GR1

15 Equipment

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- 17 1-05.9.INST1.GR1
- 18 Section 1-05.9 is supplemented with the following:
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- 20 1-05.9.OPT1.FR1
- 21 (April 7, 2008)
- 22 General
 - This specification contains requirements for the use of machine control grading.
- Instead of providing grade control through construction stakes, the Contractor may control
 grade with equipment that is controlled by a machine control system.
- 26 27
- The Contractor may use any type of equipment and machine control system that produces
 results meeting the requirements of the Contract.
- 29 30
- 31 Electronic data is provided for the Contractor's convenience, and is not a part of the 32 Contract. No guarantee or warranty is made by the Contracting Agency that electronic 33 data provided to the Contractor: is compatible with any of the systems that are used by 34 the Contractor; is complete; is representative of actual conditions at the project site, or; 35 accurately reflects the quantities and character of the actual Work required. The furnishing 36 of electronic design data or documentation shall not relieve the Contractor from any risks 37 or of any duty to make examinations and investigations as required by Section 1-02.4 or 38 any other responsibility under the Contract or as required by law. Except as provided 39 above, no corrections, additions, or updates of any kind will be made to electronic data 40 provided to the Contractor.
- 41

The Engineer may perform spot checks of the Contractor's machine control grading results, calculations, records, field procedures, and quality control measures. If the Engineer determines that the Work being performed is not achieving results that will meet the Contract requirements, the Contractor shall make corrections to the Work at no additional cost to the Contracting Agency.

- WSDOT Responsibilities
- 49 1. The Engineer will set the initial horizontal and vertical control points for the project 50 as shown in the Contract documents.
- 50 51

1 2 3	2.	The Engineer will provide additional datum and scale factor information upon request.			
4 5	3.	After execution of the Contract, the Engineer will make available upon written requ the following electronic data used to design the project:			
6 7 8		*** \$\$1\$\$ ***			
9 10 11		Data may be obtained by furnishing a written request to the Engineer at the following address:			
12 13		*** \$\$2\$\$ ***			
14	Co	ntractor's Responsibilities			
15 16 17 18	1.	The Contractor shall provide any information or data that is requested by the Contracting Agency for the purpose of performing the verification of quantities, and quality.			
19 20 21 22	2.	The Contractor shall be responsible for any edits or conversions of the Contracting Agencies electronic data whether done by the Contractor or a vendor that is hired by the Contractor to perform such edits or conversions.			
23 24 25	3.	The Contractor shall be responsible for the accuracy and usability of any data or model that is developed from the Contracting Agencies data.			
26 27 28	4.	The Contractor shall be responsible for checking and recalibrating Machine Control Equipment as required to achieve results that meet the requirements of the Contract.			
29 30 31	5.	The Contractor shall be responsible for establishing any additional control points needed to achieve results that meet the requirements of the Contract.			
32 33 34	6.	The Contractor shall provide the Contracting Agency electronic as-built construction data for the final Roadway surface model in a MicroStation format.			
35 36 37 38	7.	One week prior to the start of grading operations the Contractor shall meet with the Engineers staff to review the grading plans, quality processes, and tolerance requirements.			
39	Payment				
40		costs associated with the use of machine control grading equipment are incidental to			
40 41 42	related items of Work, and no additional payment will be provided.				
43	1-05.9.OPT2.FR1				
44	(March 9, 2023)				
45 46					
47 48 40	*** \$\$1\$\$ ***				
49 50 51 52	To prevent the spread of noxious weeds and aquatic invasive species, the Contractor shall clean all equipment in accordance with the following:				

- 1. Permits;
 - 2. The current edition of the Washington Department of Fish and Wildlife's publication, "Invasive Species Management Protocols"; and

7 8 1-05.14.GR1

9 **Cooperation with Other Contractors**

- 10 11 1-05.14.INST1.GR1
- 12 Section 1-05.14 is supplemented with the following:
- 13 14 1-05.14.OPT1.FR1
- 15 (March 13, 1995)

Other Contracts Or Other Work

- 17 It is anticipated that the following work adjacent to or within the limits of this project will
 18 be performed by others during the course of this project and will require coordination of
 19 the work:
- 20

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- *** \$\$1\$\$ ***
- 22
- 23 1-05.14.OPT2.FR1
- 24 (March 13, 1995)
- 25 The Contractor on this project shall provide sufficient room within the right of way for a
- two-way haul road past the Contractor's operations for use of the *** \$\$1\$\$ *** Contractor.
- 27

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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

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1-07.1.INST1.GR1

8 Section 1-07.1 is supplemented with the following:

- 10 1-07.1.OPT1.GR1
 - (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.
- 16
- 17 1-07.1.OPT2.GR1
- 18 (October 3, 2022)

19 **Ferry Terminal Access and Security**

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

22

23 **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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30 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:

- Contain the full name of the individual.
- Contain a photograph clearly depicting the person's current facial features. (Driver's license is not acceptable.)
- Contain the name of the issuing Contractor organization.
- Shall be laminated or constructed of material so as to be tamper resistant.
- Shall bear a photo ID number issued by the issuing Contractor's organization.

47 Employees shall wear their photo ID in a visible location at all times while on WSF 48 properties or working area.

1 **Contractor Parking Pass**

2 If parking is allowed in the Contract, the Contractor will be issued a disposable parking 3 pass that allows the vehicle to be parked at a designated location at the terminal on the 4 day of issue and for the period during which services are provided. A pass shall be 5 obtained each day the Contractor's vehicle enters the facility. Any vehicle not displaying 6 a parking pass is subject to being towed at the owner's risk and expense. All vehicles 7 entering WSF facilities are subject to security screening and inspection by Washington 8 State Patrol (WSP) personnel.

- 9 10
 - Restricted Areas and Employee Areas

11 All areas on WSF terminals and vessels that are not considered public access areas will 12 be designated with conspicuous signs as "Restricted Areas" or "Employee Only 13 **Areas**". Areas will be locked, barricaded, or otherwise physically delineated as needed. 14 Contractor employees who need to enter restricted or employee areas shall obtain 15 permission/direction from WSF personnel. "Restricted Areas" require that one person 16 for every five people be in possession of Transportation Workers Identification Card 17 (TWIC) issued by the Transportation Security Administration as required under the 18 Maritime Transportation Security Act. If the Contractor's work will involve extended 19 amounts of time in these areas, they will be required to have personnel with TWIC 20 identification. An unauthorized person in a restricted area constitutes a reportable "Breach 21 of Security" that will be reported by the Contracting Agency to the U.S. Coast Guard 22 National Response Center in Washington, D.C.

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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.

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

30 31 Material Deliverv

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

33 34 Equipment Identification

35 Contractor's derricks, skiffs, and trailers shall be clearly identified with the company's 36 name or logo. At the end of the work shift, all equipment and construction materials shall 37 be picked up and secured in a way that readily identifies the material as belonging to the 38 Contractor. 39

Pavment

41 All costs associated with conforming to terminal ferry access security requirements shall 42 be included in the unit Contract prices for the associated items of Work. 43

- 44 1-07.1.OPT3.FR1
- 45 (April 3, 2006)

46 **Confined Space**

47 Confined spaces are known to exist at the following locations:

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

- 49 50
- 51 The Contractor shall be fully responsible for the safety and health of all on-site workers
- 52 and compliant with Washington Administrative Code (WAC 296-809).

1	T 0			
2				confined space program for each of the
3				ctors Confined Space program shall be
4				prior to the Contractor beginning work in
5			•	hall be performed in or adjacent to the
6 7			•	e Engineer as required. The Contractor
			-	e a coordinated effort for providing and
8 9		•		cting Agency's and Contractor's workers
9 10	when we	orking in or nea	r a confined space.	
10		to prepare an	d implement the confined	space program shall be included in the
12			is items associated with t	
13			is items associated with the	ne commed space work.
14	1-07.1.OPT4	LFR1		
15		er 3, 2022)		
16	•		ariance Conditions	
17				httime noise exemption and/or variance
18	•	· · ·		C 173-60 to allow Contracting Agency
19				the conditions as listed below.
20	represe	manves to perio		the conditions as listed below.
20	luri	isdiction	Nights	Expiration Date
22		\$\$1\$\$ ***	*** \$\$2\$\$***	*** \$\$3\$\$ ***
23		ψψιψψ	ψψΖψψ	$\psi\psi \odot \psi\psi$
24	This exe	emption/varianc	e allows the Contractor to	exceed the local noise ordinance levels.
25				noise exemptions or variances from the
26	•			ithin the Contracting Agency's Right-of-
27	Way.		5 5	
28	,			
29	The Cor	ntractor shall pe	erform the following meas	ures to minimize construction noise:
30				
31	1.	All trucks per	rforming export haul sha	Il have well maintained bed liners as
32		inspected and	l accepted by the Enginee	er.
33				
34	2.			All truck tailgates shall be secured to
35		prevent exces	sive noise from banging.	
36				
37	3.		noise exemption and/or v	variance shall be kept on the project site
38		at all times.		
39	4	The Contract	ar aball mail Nightting Ma	w/ Mail Natifications to vasidants lageted
40 41	4.			rk Mail Notifications to residents located
41 42		Work zone.	β beet of Contracting F	gency Right-of-Way within the nighttime
42 43		WORK ZONE.		
43 44	***	\$\$5\$\$ ***		
44 45		ψψΟψψ		
46	The Co	ntracting Agen	cy will provide the Niat	nttime Work Mail Notification, and the
47		• •	•	to the Contracting Agency 20 working
48			f nighttime Work:	
49				
50	•	Start date and	duration of the nighttime	Work.
51				
52	•	List of the exp	ected nighttime noise sou	Irces.
			÷	

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 10 Contract are in place and the Affidavit of Service by Mailing is received by the Contracting 11 Agency 24 hours prior to the start of nighttime Work.

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13 The Affidavit of Service by Mailing is a notarized document from the Mailing Service 14 stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained 15 by the Contractor for the mailing shall be included with the Affidavit.

General

18 Failure of the Contractor to perform all obligations under this Special Provision will result 19 in the suspension of all night Work until a corrective Work plan is accepted by the 20 Engineer. Working days will continue to accrue during the period of suspension.

21

22 The Contractor shall be responsible for obtaining all exemptions or variances to perform 23 nighttime Work outside the project limits such as staging areas. A copy of each exemption 24 or variance obtained by the Contractor shall be provided to the Contracting Agency before 25 proceeding with the nighttime Work.

26

27 Other noise mitigation measures may be required, and it is understood that the Contractor 28 is responsible for devising methods that comply with all ordinances. Compliance with the 29 above noise mitigation measures shall not be considered a warranty that the equipment 30 or the activity will comply with all local regulations.

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Payment

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

36 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:

- 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. 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.

51 52 *** \$\$2\$\$ ***

1 2 The Contracting Agency will provide the Nighttime Work Mail Notification and the 3 Contractor shall submit the following information to the Contracting Agency 20 working 4 days prior to the start of nighttime Work: 5 6 Start date and duration of the nighttime Work. 7 8 List of the expected nighttime noise sources. ٠ 9 10 List of noise mitigation measures to be implemented. ٠ 11 12 The Contractor shall obtain the mailing distribution list of residents and property owners. 13 The Contractor shall hire a Mailing Service to print and distribute by mail the Contracting 14 Agency's provided Nighttime Work Mail Notification to the required residences *** \$\$3\$\$ 15 *** working days prior to the start of the night Work. 16 17 The Contractor shall not proceed with nighttime Work unless all conditions listed in this 18 Contract are in place and the Affidavit of Service by Mailing is received by the Contracting 19 Agency 24 hours prior to the start of nighttime Work. 20 21 The Affidavit of Service by Mailing is a notarized document from the Mailing Service 22 stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained 23 by the Contractor for the mailing shall be included with the Affidavit. 24 25 General 26 Failure of the Contractor to perform all obligations under this Special Provision will result 27 in the suspension of all night Work until a corrective Work plan is accepted by the 28 Engineer. Working days will continue to accrue during the period of suspension. 29 30 The Contractor shall be responsible for obtaining all exemptions or variances to perform 31 nighttime Work outside the project limits such as staging areas. A copy of each exemption 32 or variance obtained by the Contractor shall be provided to the Contracting Agency before 33 proceeding with the nighttime Work. 34 35 Other noise mitigation measures may be required, and it is understood that the Contractor 36 is responsible for devising methods that comply with all ordinances. Compliance with the 37 above noise mitigation measures shall not be considered a warranty that the equipment 38 or the activity will comply with all local regulations. 39 40 Payment 41 All costs to comply with the above nighttime Work requirements shall be included in the 42 associated items of Work. 43 44 1-07.1.OPT6.FR1 (October 3, 2022) 45 46 *** \$\$1\$\$ *** Noise Exemption/Variance Conditions 47 The jurisdiction(s) listed below has granted a nighttime noise exemption and/or variance 48 to its respective noise control code and WAC 173-60 to allow Contracting Agency 49 representatives to perform nighttime Work under the conditions as listed below. 50 51 Nights **Expiration Date** Jurisdiction *** \$\$4\$\$ *** 52 *** \$\$2\$\$ *** *** \$\$3\$\$***

1	
2 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
5 6	listed jurisdiction(s) including nighttime Work within the Contracting Agency's Right-of- Way.
7 8 9	The Contractor shall perform the following measures to minimize construction noise:
10 11 12	 All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.
13 14 15	 Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.
16 17	A copy of the noise exemption and/or variance shall be kept on the project site at all times.
18 19 20	*** \$\$5\$\$ ***
20	General
22	Failure of the Contractor to perform all obligations under this Special Provision will result
23 24 25	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.
26	The Contractor shall be responsible for obtaining all exemptions or variances to perform
27	nighttime Work outside the project limits such as staging areas. A copy of each exemption
28 29	or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.
29 30	
31	Other noise mitigation measures may be required, and it is understood that the Contractor
32	is responsible for devising methods that comply with all ordinances. Compliance with the
33 34	above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.
35	or the activity will comply with all local regulations.
36	Payment
37	All costs to comply with the above noise exemption/variance requirements shall be
38 39	included in the associated items of Work.
40	1-07.1(2).GR1
41	Health and Safety
42	
43	1-07.1(2).INST1.GR1
44 45	Section 1-07.1(2) is supplemented with the following:
46	1-07.1(2).OPT1.FR1
47	(April 3, 2006)
48	Confined Space
49 50	Confined spaces are known to exist at the following locations:
50 51	*** \$\$1\$\$ ***
52	** **

1 2 3	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).
4 5 7 8 9 10 11	The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractor's 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.
13 14	All costs to propers and implement the confined appear program shall be included in
15	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.
16	the bid phees for the validus items associated with the commed space work.
17	1-07.1(2).OPT2.GR1
18	(October 3, 2022)
19	Diving and Workboat Safety Requirements
20	The Contractor shall comply with the requirements of WAC 296-37, "Standards for
21	Commercial Diving Operations" and the requirements contained herein as
22	applicable. The Contractor shall give the Engineer 24 hours advance notice of any
23	planned diving or workboat activity.
24 25	General Requirements for Communications and Safety
26	The following requirements shall be followed whenever diving or workboat activity is
27	performed at the ferry terminal:
28	
29	 Prior to diving and workboat activity, the Contractor shall obtain approval
30	from the Engineer.
31	
32	 Notification shall be made no less than one hour prior to the Diver entering the under
33 34	the water.
35	 The Engineer or designee will be responsible for notifying each vessel of
36	the upcoming day's diving or workboat activity.
37	
38	 The Engineer will request that the vessels depart under low power (slow
39	bell) unless otherwise necessary due to weather conditions.
40	
41	 The diving team and workboat operations shall not disrupt the ferry service
42 43	schedule.
43 44	Communications between the Diver and the Diver's Tender shall be
44 45	maintained at all times.
46	
47	 The Engineer and Masters shall be notified at the completion of diving and
48	workboat activity each day.
49	· ·

1	Slip-Specific Diving Requirements
2	The following safety rules shall be followed when diving activities are performed
3	within the diving envelope of the ferry slip. The diving envelope is defined as
4	occurring in an active ferry slip being used for vessel operations:
5 6	
7	 It includes the area around all of the slip landing aid structures.
8	• A 50-yard by 50-yard box which is bisected by the centerline of the slip and
9	runs from the off-shore portion of the apron toward shore.
10	runs nom the on-shore portion of the apron toward shore.
11	A three-member minimum diving team will be required when diving within the diving
12	envelope. The duties of the team members shall include:
	envelope. The dulies of the learn members shall include.
13	One member shall be diving
14	One member shall be diving.
15	One member that the interstition the treatile and the term for an entitient
16	• One member shall be in a skiff, on the trestle or on the transfer span acting
17	as the Diver's Tender. The Diver's Tender shall maintain communication
18	with the Diver, and the Safety Technician, at all times. In addition, the Diver's
19	Tender shall ensure that the diver has safely surfaced and cleared the diving
20	area five minutes prior to the vessel landing, unless the Diver is outside the
21	envelope.
22	
23	• One member shall act as a Safety Technician. The Safety Technician shall
24	be in a skiff or on shore and shall maintain constant communication with the
25	Diver's Tender.
26	
27	Upon completion of diving activity, the Safety Technician shall notify the Engineer
28	and Masters. Once the diver has cleared the diving area, the Safety Technician shall
29	directly radio the Master on each arriving vessel and relay the message "DIVER
30	CLEAR". The Engineer will provide the Safety Technician a hand-held radio for this
31	purpose.
32	pulpose.
33	Slip-Specific Workboat Requirements
34	The following safety rules shall be followed when operating workboats at the ferry
35	terminal:
36	
	The workboat shall not peep in front of a farm vessel when it is closer than
37	• The workboat shall not pass in front of a ferry vessel when it is closer than
38	500 yards from the terminal on approach (33 CFR 165.1317).
39	
40	• While the ferry vessel is making the landing approach to the ferry terminal,
41	workboats shall maintain a 100-yard distance unless moored to a larger
42	anchored vessel or to a landing structure for other than the active slip (33
43	CFR 165.1317).
44	
45	• Workboats shall maintain a 25-yard distance from any ferry vessel while
46	ferry vessels are moored at the ferry terminal unless approved by the vessel
47	Master (33 CFR 165.1317).
48	
49	• Operators of workboats shall be aware of the slip and any vessels that are
50	or will be using the slip.
51	

1 Operators of workboats shall be aware of the ferry schedule and when ferry 2 vessels will be departing so that they can position their workboat in a safe 3 operating location in compliance with the requirements noted above. 4 5 The workboat shall not cross under the active occupied slip unless the ٠ 6 Master has been notified and agrees. 7 8 • Workboats shall be moored in locations that will provide visibility to vessel 9 approaches and/or protection from any prop wash that may occur by ferry 10 vessel approaches and departures. 11 12 **Payment** 13 All costs to comply with this Special Provision covering diver and workboat safety 14 shall be included in related items of Work. 15 16 1-07.1(2).OPT3.FR1 17 (March 9, 2023) 18 Lead Health Protection Program 19 The following Structural and non-structural materials located at the project site 20 contain lead-based products: 21 22 *** \$\$1\$\$ *** 23 24 The Contractor shall be fully responsible for the safety and health of all on-site 25 workers and maintain strict compliance with Washington Administrative Code (WAC 26 296-155-176). The Contractor's Lead Health Protection Program shall be submitted 27 to the Contracting Agency as a Type 2 Working Drawing prior to the Contractor 28 beginning Work involving exposure to materials containing lead. The Contractor shall 29 communicate with the Engineer to ensure a coordinated effort for providing and 30 maintaining a safe worksite for both the Contracting Agency's and Contractor's 31 workers. 32 33 Contracting Agency personnel shall be given free and full access to all hygiene and 34 housekeeping facilities including, but not limited to, change areas, showers, and 35 handwashing and eating facilities. 36 37 Payment 38 All costs to comply with this Special Provision for the Lead Health Protection laws 39 and regulations are the responsibility of the Contractor and shall be included in 40 related items of work. 41 42 1-07.3.GR1 43 Fire Prevention and Merchantable Timber Requirements 44 45 1-07.3.INST1.GR1 Section 1-07.3 is supplemented with the following: 46 47 48 1-07.3.0PT1.GR1 49 (August 2, 2004) 50 The Forest Service Provisions, included in the Appendix to these Special Provisions, are 51 made a part of this contract. The Contractor shall comply with the requirements of these 52 Forest Service provisions at no additional cost to the Contracting Agency.

1	
2	1-07.3(2).GR1
3	Merchantable Timber Requirements
4	•
5	1-07.3(2).INST1.GR1
6	Section 1-07.3(2) is supplemented with the following:
7	
8	1-07.3(2).OPT1.GR1
9	(April 7, 2008)
10	This project contains merchantable timber.
11 12 13	<i>Export Restrictions</i> - DOT Form 410-100, Purchaser Certification for Export Restricted Timber, will be included when the contract is sent to the Contractor for
14 15	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
16	directly to the Washington State Department of Revenue at the address on the form.
17 18	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.
19 20	State Tax Requirements - It shall be the Contractor's responsibility to pay to the State
21	Department of Revenue all taxes on harvested timber.
22 23	1-07.4.GR1
23 24	Sanitation
25	Samaton
26	1-07.4(2).GR1
27	Health Hazards
28	
29	1-07.4(2).INST1.GR1
30	Section 1-07.4(2) is revised to read:
31	
22	
32	1-07.4(2).OPT1.FR1
33	(August 7, 2017)
33 34	(August 7, 2017) This project site is known to be occupied by transients and therefore contains
33 34 35	(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
33 34 35 36	(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
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33 34 35 36 37 38	(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.
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33 34 35 36 37 38 39 40 41 42	 (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
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 	 (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 public under
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 	 (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 public under

9 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. 77 Public Notification 78 Public Notification 79 Site cleanup or any potentially hazardous Work (such as clearing or operating equipment). 72 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: 78 1. The precise location of each area that is posted "No Trespassing"; 79 2. The date and time that each site was posted "No Trespassing"; 79 3. The date, time, description and duration of the Work to be performed at each site. 79 4. I heast 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: 79 1. Be weather resistant, and written in both English and Spanish. 71 8. Be affixed to	1 2 3 4 5 6 7	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.
Public Notification 18 The Contractor shall furnish and install the "No Trespassing" signs shown in the 19 Plans at locations staked by the Engineer at least 72 hours prior to performing 20 site cleanup or any potentially hazardous Work (such as clearing or operating 21 equipment). 23 At the same time that "No Trespassing" signs are posted, provide written 24 notification of the following to the Engineer and to the chief law enforcement 25 officer of the local governmental entity where the Work will occur: 26 1. The precise location of each area that is posted "No Trespassing"; 27 1. The date and time that each site was posted "No Trespassing"; 30 3. The date, time, description and duration of the Work to be performed at each site. 31 3. The date, time, description and duration of the Work to be performed at each site. 33 9 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: 39 1. Be weather resistant, and written in both English and Spanish. 41 2. Be affixed to each dwelling or post mounted within 10-feet of each encampment; 43 </td <td>10 11 12 13 14 15</td> <td>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</td>	10 11 12 13 14 15	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
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23At 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:261. The precise location of each area that is posted "No Trespassing"; 28271. The precise location of each area that is posted "No Trespassing"; 30303. The date and time that each site was posted "No Trespassing"; 30313. The date, time, description and duration of the Work to be performed at each site.333434At 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:391. Be weather resistant, and written in both English and Spanish.402. Be affixed to each dwelling or post mounted within 10-feet of each encampment;413. State the Prime Contractor's company name as the entity that performed the cleanup as required by the Washington State Department of Transportation;484. Provide the date that the notice is posted;495. Provide date(s) and time(s) that cleanup will occur;		equipment).
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49505. Provide date(s) and time(s) that cleanup will occur;		
50 5. Provide date(s) and time(s) that cleanup will occur;		Provide the date that the notice is posted;
51		Provide date(s) and time(s) that cleanup will occur;
	51	

1 2 3	6. Provide the telephone number, business hours and physical address of the location where stored personal property may be claimed.
5 4 5 6	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.
7 8 9	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:
10 11	***\$\$1\$\$***
12 13 14 15	Acceptance of signs and notifications will be based on visual inspection that the sign and notifications meet these requirements.
16 17 18 19 20 21 22 23 24 25	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.
26 27 28 29	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.
30 31 32 33	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.
34 35 36 37 38 39 40 41 42	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.
43 44 45 46 47 48 49 50 51	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

1	Contractor shall not open closed items of personal property unless, in its
2	determination, it is necessary to do so to protect public safety.
3	
4	The Contractor shall retain the property for 70-days.
5	
6	If the name and contact information of the owner of a personal property item is
7	identified on that item, then for a period of not less than 10-days after removing
8	the property from the Work area, the Contractor shall attempt to notify the
9	apparent owner of the property and make arrangements for the owner to claim
10	the property.
11	
12	The Contractor shall release the property to any individual who claims ownership
13	provided they are able to establish ownership by identifying the property and its
14	approximate location. The Contractor shall maintain a record of all property that
15	is claimed. The record shall include a description of the property, the date
16	claimed, and the name of the claimant.
17	
18	If personal property is not claimed within 70-days of removal from the
19	encampment, then the property shall become the property of the Contractor and
20	shall be removed from the project.
21	
22	Site Preservation
23	The Contractor shall preserve the site after initial cleanup of biological and
24	physical hazards.
25	
26	On a daily basis and prior to performing any Work in areas where pedestrians
27	or encampments may be present, the Contractor shall verify that the Work area
28	is cleared of all persons not associated with the project. Individuals may seek
29	shelter in dumpsters, equipment, under blankets, or other places hidden from
30	view. Individuals may be disabled, or under the influence of alcohol or drugs
31	and it should not be assumed that loud construction noise will wake them.
32	
33	If the worksite becomes unsanitary or unsafe due to new encampments or new
34	biological and associated physical hazards after initial cleanup is completed,
35	then the Contractor shall perform additional site assessment, additional
36	notification and additional cleanup.
37	·
38	The Engineer may authorize additional site preservation measures. The nature
39	and frequency of these measures will be as agreed to by the Engineer.
40	Additional site preservation measures may include the use of fencing, lighting,
41	or security, provided it is approved in advance by the Engineer. Work performed
42	without Engineer authorization will not be eligible for payment.
43	······································
44	Measurement
45	No trespassing signs will be measured per each.
46	
47	Payment
48	Payment will be made for the following bid items when they are included in the
49	proposal:
50	
51	"No Trespassing Sign", per each.

1 2 3	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.
3 4	"Health and Safety Plan", lump sum.
5 6 7 8 9	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.
10 11 12 13	"FA-Site Cleanup of Bio. And Physical Hazards", by force account as provided in Section 1-09.6.
13 14 15 16 17 18 19 20	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.
20 21 22 23 24 25	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.
25 26	1-07.5.GR1
20 27	Environmental Regulations
28	
29	1-07.5.INST1.GR1
30	Section 1-07.5 is supplemented with the following:
31	
32	1-07.5.OPT1.GR1
33	(September 20, 2010)
34	Environmental Commitments
35	The following Provisions summarize the requirements, in addition to those required
36	elsewhere in the Contract, imposed upon the Contracting Agency by the various
37 38	documents referenced in the Special Provision Permits and Licenses . Throughout the
30 39	work, the Contractor shall comply with the following requirements:
40	1-07.5.OPT1(A).FR1
41	(August 4, 2014)
42	The Contractor shall submit a written notification to the Engineer no later than 10
43	calendar days prior to beginning any ground disturbing activities *** \$\$1\$\$ ***. The
44	Contractor shall not commence any such ground disturbing activities until the monitor
45	is present.
46 47	1-07.5.OPT1(B).FR1
48	(April 1, 2019)
49	The Contractor shall notify the Engineer a minimum of *** \$\$1\$\$ *** calendar days
50	prior to commencing any work in sensitive areas, mitigation areas, and wetland
51	buffers. Installation of construction fencing is excluded from this notice requirement.

1	
2 3	1-07.5.OPT1(C).FR1 (April 1, 2019)
4	No *** \$\$1\$\$ *** is allowed within *** \$\$2\$\$ *** feet of *** \$\$3\$\$ ***.
5	
6	1-07.5.OPT2.GR1
7 8	(August 3, 2009) Payment
о 9	All costs to comply with this special provision for the environmental commitments and
10	requirements are incidental to the contract and are the responsibility of the Contractor.
11	The Contractor shall include all related costs in the associated bid prices of the contract.
12 13	1-07.5(1).GR1
14	General
15	
16	1-07.5(1).INST1.GR1
17 18	Section 1-07.5(1) is supplemented with the following:
19	1-07.5(1).OPT1.FR1
20	(October 3, 2022)
21 22	In-Water Operations Along Marine Shorelines
22 23	In-Water Operations along Marine Shorelines shall meet the requirements from *** \$\$1\$\$ ***.
24	
25	The Contractor's vessels and equipment operating in support of the Work shall be in
26 27	adequate water depth and shall use the minimum required propulsion to prevent impacts from propeller wash and grounding to seagrass, kelp, and forage fish
28	spawning beds as shown in the Plans. The Contractor shall not conduct activities
29	that may cause scouring within, or other types of sediment transfer out of or into the
30	seagrass, kelp, and forage fish spawning beds. At no time shall any vessel or
31 32	temporary floating work contact the ground.
33	The Contractor shall not deploy anchors or spuds in seagrass or kelp. The Contractor
34	shall maintain anchor cable tension, set and retrieve anchors vertically, and prevent
35 36	mooring cables from dragging to avoid impacts to seagrass and kelp.
37	To minimize shading of seagrass, the Contractor shall relocate vessels moored over
38	seagrass every fourth day when working within the allowed working dates listed in
39	*** \$\$2\$\$ ***.
40 41	The Contractor shall not allow debris or any type of fuel, solvent or lubricant to enter
42	the water.
43	
44 45	1-07.5(2).GR1
45 46	State Department of Fish And Wildlife
47	1-07.5(2).INST1.GR1
48	Section 1-07.5(2) is supplemented with the following:
49 50	1 07 5(2) OPT1 GP1
50 51	1-07.5(2).OPT1.GR1 (April 2, 2018)

1 2 3 4 5	The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the Washington State Department of Fish and Wildlife. Throughout the work, the Contractor shall comply with the following requirements:
5 6 7 8 9 10	1-07.5(2).OPT1(A).FR1 (April 2, 2018) The Contractor may begin Work below the Ordinary High Water Line on *** \$\$1\$\$ *** and must complete all the Work by *** \$\$2\$\$ ***.
10 11 12 13 14 15 16	 1-07.5(2).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.
17	1-07.5(3).GR1
18	State Department of Ecology
19 20	1-07.5(3).INST1.GR1
20	Section 1-07.5(3) is supplemented with the following:
22	
23	1-07.5(3).OPT1.GR1
24	(April 2, 2018)
25	The following Provisions summarize the requirements, in addition to those required
26	elsewhere in the Contract, imposed upon the Contracting Agency by the Washington
27	State Department of Ecology. Throughout the work, the Contractor shall comply with
28	the following requirements:
29	
30	1-07.5(3).OPT1(A).FR1
31	(August 3, 2009)
32	A mixing zone is established within which the turbidity standard is waived during
33	actual in-water work. The mixing zone is established to only temporarily allow
34	exceeding the turbidity criteria (such as a few hours or days) and is not
35	authorization to exceed the turbidity standard for the entire duration of the
36	construction. The mixing zone shall not exceed *** \$\$1\$\$ *** feet downstream
37	from the construction area.
38	
39	1-07.5(3).OPT1(B).GR1
40	(April 1, 2019)
41	Stormwater, dewatering water, or other authorized non-stormwater discharges
42	that has come into contact with pH modifying substances such as concrete
43	rubble, cast concrete or amended soils, need to be maintained between 6.5 –
44	8.5 standard units (su). If pH exceeds 8.5 su, the Contractor shall immediately
45	discontinue work and initiate treatment to prevent discharges outside the
46	acceptable range from occurring. All neutralization methods used shall be in
	· · ·
47 49	accordance with the permit. Work may resume once treatment has been
48 40	implemented and pH of the stormwater or authorized non-stormwater discharge
49 50	is between 6.5 - 8.5 su or it can be demonstrated that high pH waters will not
50	discharge to surface waters.
51	

1 2 3 4 5 6 7 8 9 10 11 12	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.
13	1-07.5(3).OPT2.GR1
14	(April 2, 2018)
15 16	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
17	the associated bid prices of the Contract.
18	
19	1-07.5(4).GR1
20	Air Quality
21 22	1-07.5(4).INST1.GR1
22	Section 1-07.5(4) is supplemented with the following:
24	
25	1-07.5(4).OPT1.FR1
26	(October 4, 2021)
27	Asbestos Good Faith Investigation
28 29	An asbestos Good Faith Investigation (GFI) has been conducted for this project and it has been determined that known Asbestos Containing Material (ACM), and/or
30	Presumed Asbestos Containing Material (PACM), will be disturbed by the work on
31	this project. The asbestos GFI has been provided in Appendix *** \$\$1\$\$ ***.
32	
33 34	1-07.5(4).OPT2.FR1
34 35	(October 4, 2021) Asbestos Good Faith Investigation
36	An asbestos Good Faith Investigation (GFI) has been conducted for this project and
37	it has been determined to a reasonable certainty that no known Asbestos Containing
38	Material (ACM) will be disturbed by the work on this project. The asbestos GFI has
39 40	been provided as Appendix *** \$\$1\$\$ ***.
40 41	1-07.5(4)C.GR1
42	Asbestos Containing Material
43	
44	1-07.5(4)C.INST1.GR1
45 46	Section 1-07.5(4)C is supplemented with the following:
40 47	1-07.5(4)C.OPT1.FR1
48	(October 4, 2021)
49	Asbestos Good Faith Investigation
50	An asbestos Good Faith Investigation (GFI) has been conducted for this project
51	and it has been determined that known Asbestos Containing Material (ACM),
52	and/or Presumed Asbestos Containing Material (PACM), will be disturbed by the

1 2 3		work on this project. The asbestos GFI has been provided in Appendix *** \$\$1\$\$ ***.
3 4 5 6 7 8 9 10 11	1-07.5(4)C.C	OPT2.FR1 (October 4, 2021) Asbestos Good Faith Investigation An asbestos Good Faith Investigation (GFI) has been conducted for this project and it has been determined to a reasonable certainty that no known Asbestos Containing Material (ACM) will be disturbed by the work on this project. The asbestos GFI has been provided as Appendix *** \$\$1\$\$ ***.
12 13 14	1-07.5(5).GF U.S. Ar	my Corps of Engineers
15 16 17	1-07.5(5).INS Section	ST1.GR1 1-07.5(5) is supplemented with the following:
18 19 21 22 23 24 56 27 8 90 31 23 34 56 78 90 41 23 44 56 78 90 41 23 44 56 78 90 52	The else Cor	PT1.GR1 ril 2, 2018) e following Provisions summarize the requirements, in addition to those required ewhere in the Contract, imposed upon the Contracting Agency by the U.S. Army ps of Engineers. Throughout the work, the Contractor shall comply with the owing requirements:
	1-07.5(5).OF	PT1(B).FR1 (February 25, 2013) Temporary fills at *** \$\$1\$\$ *** must be removed within *** \$\$2\$\$ *** calendar days of beginning placement of these fills. This time period may be extended with approval from the Engineer. Requests to extend must be received a minimum of 45 days prior to the expiration of number of days listed above, since the extension is subject to concurrence by the U.S. Army Corps of Engineers.
	1-07.5(5).OF	PT1(C).GR1 (February 25, 2013) Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army Corps of Engineers must maintain normal downstream flows and prevent upstream and downstream flooding to the maximum extent practicable.
	1-07.5(5).OF	PT1(D).GR1 (August 3, 2009) Heavy equipment working in wetlands or mudflats must be placed on mats or other measures taken to minimize soil disturbance as approved by the Engineer.
	1-07.5(5).OF	PT1(F).GR1 (February 6, 2023) 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

1 2 3 4	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.	
5 6 7 8 9 10	1-07.5(5).OPT1(G).FR1 (August 4, 2014) The Contractor shall submit a written notification to the Engineer no later than 10 calendar days prior to beginning any ground disturbing activities *** \$\$1\$\$ ***. The Contractor shall not commence any such ground disturbing activities until the monitor is present.	
11 12 13 14 15 16 17	 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. 	
18 19	1-07.5(6).GR1 U.S. Fish and Wildlife Service and National Marine Fisheries Service	
20	0.3. FISH and Whalle Service and National Marine Fishenes Service	
21 22 23	1-07.5(6).INST1.GR1 Section 1-07.5(6) is supplemented with the following:	
24 25 26 27 28 29	 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: 	
30 31 32 33 34 35 36 37 38	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.	
39 40 41 42 43 44 45 46	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.	
47 48 49 50 51 52	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.	

4	
1 2 3 4 5	1-07.5(6).OPT1(E).GR1 (April 2, 2018) The Contractor shall not use creosote-treated wood below the Ordinary High Water Mark.
6 7 8 9 10 11 12 13	1-07.5(6).OPT1(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.
13 14 15 16 17 18	1-07.5(6).OPT1(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).OPT1(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	1-07.5(6).OPT1(I).FR1 (April 2, 2018) The Contractor shall direct temporary lights for night work away from *** \$\$1\$\$ ***.
30 31 32 33 34 35 36 37 38	1-07.5(6).OPT1(J).FR1 (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 control are exempt from these time restrictions. Refer to the following website, using the City of *** \$\$1\$\$ *** for sunrise and sunset times: <u>http://www.sunrisesunset.com/usa/washington.asp</u>
39 40 41 42 43 44 45 46 47 48 49 50	1-07.5(6).OPT1(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: <u>http://www.sunrisesunset.com/usa/washington.asp</u> 1-07.5(6).OPT1(L).FR1 (April 2, 2018)
00	

1	The Contractor must cease Work 2 hours before sunrise. Setting up and taking
2 3	down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** \$\$1\$\$ *** for sunrise times:
4	
5 6	http://www.sunrisesunset.com/usa/washington.asp
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
11	before sunset to 1 hour after sunset. Setting up and taking down traffic control
12	are exempt from these time restrictions. Refer to the following website, using the
13	City of *** \$\$1\$\$ *** for sunrise and sunset times:
14	
15	http://www.sunrisesunset.com/usa/washington.asp
16 17	
17 18	1-07.5(6).OPT1(N).FR1 (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 20	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
36	following website, using the City of *** \$\$2\$\$ *** for sunrise and sunset times:
37	
38	http://www.sunrisesunset.com/usa/washington.asp
39	
40	1-07.5(6).OPT1(Q).GR1
41 42	(September 7, 2021)
42 43	Galvanizing and zinc coatings shall not be used below the 100 year mean recurrence interval water surface.
43 44	
45	1-07.5(6).OPT1(R).FR1
46	(September 7, 2021)
47	Bird Protection and Monitoring
48	Description
49	This Work includes preparing a Project-specific Bird Projection Plan,
50	implementation of the Bird Protection Plan, updating the Bird Protection
51	Plan, surveying, monitoring, and reporting of bird activity, actions required

1 2 3	in the event nests and species are surveyed and encountered, and Contractor training.
4 5 6 7	Construction Requirements No onsite Work may begin on the Project until the Bird Protection Plan has been accepted by the Engineer.
8 9 10 11	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.
12 13 14 15	The Contractor shall take precautions to prevent birds from nesting on bridges or other structures that would be demolished, modified, or disturbed by Project construction.
16 17 18 19 20 21 22	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.
22 23 24 25 26 27 28 29 30	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.
31 32 33	The Contractor shall notify the Engineer if a raptor nest is discovered or suspected. If a raptor nest (including unoccupied ones outside the breeding season) is found, it shall not be removed.
34 35 36 37 38 39 40 41 42 43	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.
43 44 45 46 47 48 49	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.
50 51 52	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

1 2 3 4		The Plan shall be a Type 2 Working Drawing and apply to *** ** during the active nesting season described as March 15 to per 15.
5 6 7 8 9	impleme during da activities	tractor's Project-specific Bird Protection Plan shall be prepared and nted by a qualified biologist. The biologist shall be available to work ay or night to lead, direct, or carry out monitoring, inspection, and described in the Project-specific Bird Protection Plan. The Bird on Plan shall include the following information on the biologist:
10 11 12 13 14 15 16	1.	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.
17 18	2.	Resumé of each biologists' work experience including:
19 20 21 22		a. 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.
23 24		b. Duration of each project including start date and finish date.
25 26		c. Position held for each applicable project.
27 28 29		d. Location of each project to include 2 years in the Pacific Northwest.
30 31		e. References, including the name and contact information for each project.
32 33 34	The Proj	ect-specific Bird Protection Plan shall also include:
35 36 37	1.	Bird species identified by the Contracting Agency in the MBTA Assessment Report (Appendix *** \$\$2\$\$ ***).
38 39 40 41	2.	Precautions taken or to be taken to prevent birds from nesting on bridges or other structures that would be demolished, modified, or disturbed by project construction.
42 43 44 45	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.
46 47 48	4.	Containment methods to prevent removed nesting materials from contributing to air or water pollution.
49 50	5.	Disposal of nesting materials removed in accordance with Section 2-03.3(7)C.
51 52	6.	Communicating, notifying, and documenting:

1 2 3 4		a. Name and contact information of the Contractor's qualified biologist and one qualified emergency back-up biologist.
4 5 6		b. Name and contact information of the Engineer.
7 8 9 10		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.
11 12 13		d. Describe notification to follow in the event a raptor nest (even unoccupied ones outside the breeding season) is discovered.
14 15 16	7.	The list of Contractor employees that have received Bird Protection training.
17 18 19		week, the Contractor shall submit a Type 1 Working Drawing to the r, detailing their findings from the prior week's inspections.
20 21 22 23	Paymen Paymen proposa	t will be made for the following bid item when included in the
24 25 26 27	The	d Protection and Monitoring", Lump Sum. lump sum Contract price for "Bird Protection and Monitoring" shall full pay for all the Work as specified.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	the responsibility the associated bio 1-07.5(6).OPT3.FR1 (November 2, 20 Bird Protection a Description This Work implementati surveying, m nests and sp Constructio No onsite Wo	
47 48 49 50		tor shall maintain a copy of the Bird Protection Plan at the Work site as necessary to reflect the conditions as the Work progresses.

1	The Contractor shall take precautions to prevent birds from nesting on bridges,
2	structures, equipment, or other nesting habitat that would be modified or
3 4	disturbed by Project construction.
4 5	The Contractor shall conduct site monitoring and shall report the results of their
5 6	inspections. From March 15 to September 15, the Contractor shall conduct, at
7	minimum, three inspections during the work week; once on Monday,
8	Wednesday, and Friday, to identify nest starts. The Contractor shall indicate their
9	intended inspection schedule in their Bird Protection Plan.
10	
11	The Contractor shall remove nest starts as soon as they are discovered in
12	accordance with their Project-specific Bird Protection Plan. If an active nest (i.e.,
13 14	one that has eggs or chicks) is found, the Contractor must immediately stop all associated Work and contact the Engineer before implementing the relevant
15	Project-specific Bird Protection Plan measures. Active nest removal shall not
16	proceed prior to notifying to and receiving approval from the Engineer.
17	
18	The Contractor shall notify the Engineer if a bird nest is discovered or suspected.
19	The Contractor shall also notify the Engineer if a breeding raptor (or nest or nest
20	start) is suspected or discovered. If a raptor nest (including unoccupied ones
21 22	outside the breeding season) is found, it shall not be removed.
22	From September 16 to March 14, the Contractor may discontinue weekly
24	inspections and reports, but shall remove old nests in accordance with the
25	Project-specific Bird Protection Plan. In the rare instance that an active nest is
26	discovered during this time, the Migratory Bird Treaty Act (MBTA) requirements
27	apply and the Contractor must adhere to the Project-specific Bird Protection
28	Plan and applicable Contract provisions. However, the Contractor shall not be
29	responsible for the removal of active nests during this time period.
30 31	The Contractor shall train all project staff. The Contractor shall provide a list of
32	training for all Project staff as part of their Bird Protection Plan. The Contractor
33	training shall include an overview of the MBTA and the Bald and Golden Eagle
34	Protection Act, how to identify nesting activity, and what to do if a nest is
35	discovered.
36	
37	Submittals
38 39	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
40	Plan shall be a Type 2 Working Drawing and apply to *** \$\$1\$\$ *** during the
41	active nesting season described as March 15 to September 15.
42	
43	The Contractor's Project-specific Bird Protection Plan shall be prepared and
44	implemented by a qualified biologist. The biologist shall be available to work
45	during day or night to lead, direct, or carry out monitoring, inspection, and
46 47	activities described in the Project-specific Bird Protection Plan. The Bird
47 48	Protection Plan shall include the following information on the biologist:
48	1. Evidence of the qualification for the designated Biologist and a
50	backup Biologist. The evidence of qualification will include at a
51	minimum a bachelor's degree in biology, zoology, natural resource

1 2 3		management, environmental science, or a related degree with a science emphasis.
4 5	2.	Resumé of each biologists' work experience including:
6 7 8 9		a. 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.
9 10 11		b. Duration of each project including start date and finish date.
12		c. Position held for each applicable project.
13 14 15 16		d. Location of each project to include 2 years in the Pacific Northwest.
17 18 19		e. References, including the name and contact information for each project.
20 21	The Pro	ect-specific Bird Protection Plan shall also include:
22 23 24	1.	Bird species identified by the Contracting Agency in the MBTA Assessment Report (Appendix *** \$\$2\$\$ ***).
25 26 27	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.
28 29 30 31	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.
32 33 34	4.	Containment methods to prevent removed nesting materials from contributing to air or water pollution.
35 36 37	5.	Disposal of nesting materials removed in accordance with Section 2-03.3(7)C.
38 39 40	6.	Communicating, notifying, and documenting:
40 41 42 43		a. Name and contact information of the Contractor's qualified biologist and one qualified emergency back-up biologist.
43 44 45		b. Name and contact information of the Engineer.
46 47 48 49		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.
50 51 52		d. Describe notification to follow in the event a raptor nest (even unoccupied ones outside the breeding season) is discovered.

1	
2	7. The list of Contractor employees that have received Bird Protection
3	training.
4	
5	Once a week, the Contractor shall submit a Type 1 Working Drawing to the
6	Engineer, detailing their findings from the prior week's inspections.
7	
8	Payment
9	Payment will be made for the following bid item when included in the proposal:
10	
11	"Bird Protection and Monitoring", Lump Sum.
12	The lump sum Contract price for "Bird Protection and Monitoring" shall be
13	full pay for all the Work as specified.
14	
15	1-07.6.GR1
16	Permits and Licenses
17 10	
18 10	1-07.6.INST1.GR1
19 20	Section 1-07.6 is supplemented with the following:
20 21	1-07.6.OPT1.FR1
22	(January 2, 2018)
23	The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of
24	the permit(s) is attached as an appendix for informational purposes. Copies of these
25	permits, including a copy of the Transfer of Coverage form, when applicable, are required
26	to be onsite at all times.
27	
28	Contact with the permitting agencies, concerning the below-listed permit(s), shall be
29	made through the Engineer with the exception of when the Construction Stormwater
30	General Permit coverage is transferred to the Contractor, direct communication with the
31	Department of Ecology is allowed. The Contractor shall be responsible for obtaining
32	Ecology's approval for any Work requiring additional approvals (e.g. Request for
33	Chemical Treatment Form). The Contractor shall obtain additional permits as necessary.
34	All costs to obtain and comply with additional permits shall be included in the applicable
35	Bid items for the Work involved.
36	***
37	*** \$\$1\$\$ ***
38 39	1-07.6.OPT3.GB1
39 40	United States Coast Guard
	United States Coast Guard
41 42	1-07.6.OPT3(A).FB1
42 43	(September 3, 2019)
44	The Contracting Agency has obtained a United States Coast Guard Bridge Permit ***
45	\$\$1\$\$ *** for this project.
46	
47	The Contractor shall furnish, install, maintain, and remove all temporary navigation lights,
48	signs, signals, and any other warning devices required by the Coast Guard and as
49	required for public safety on all falsework, cofferdams, or other temporary structure in the
50	waterway.
51	•

1 2		The Contractor shall comply with all Coast Guard requirements inclusive of the following Bridge Permit conditions:		
3 4	1.	The construction of falsework, cofferdams or other obstructions, if required, shall		
5 6		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		
7		conducted that the free navigation of the waterway is not unreasonably		
8		interfered with and the present navigable depths are not impaired. Timely notice		
9		of any and all events that may affect navigation shall be given to the District		
10		Commander during construction of the bridge. The channel or channels through		
11		the structure shall be promptly cleared of all obstructions placed therein or		
12		caused by the construction of the bridge to the satisfaction of the District		
13 14		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		
15		90 calendar days after the bridge has been opened to traffic.		
16		so calendar days alter the bridge has been opened to trainc.		
17	2.	*** \$\$2\$\$ ***		
18	_ .	$\psi \psi = \psi \psi$		
19	The Co	ntractor shall notify the Coast Guard in writing, with a copy to the Engineer, of the		
20		art date at least seven calendar days before beginning any site work and shall at		
21		e designate the Contractor's authorized representative, and work phone number,		
22	for coo	rdination on matters that relate to Coast Guard approvals and requirements.		
23				
24		ontractor's applications for required Coast Guard construction approvals for this		
25		shall include, but not be limited to, cofferdams, falsework, temporary navigation		
26	• •	, work bridges, and other obstructions. These applications shall be submitted to		
27		ast Guard by the Contractor, with a copy to the Engineer, a minimum of 30 calendar		
28	•	advance of the scheduled work. A schedule of when the work is to be performed		
29		nen the obstructions are to be permanently removed shall be a part of the		
30 31	Contra	ctor's application.		
32	The Co	ntractor shall provide the Coast Guard and the Engineer with prompt verbal notice,		
33		d by written notice, of any subsequent changes to this proposed schedule.		
34	lonowo			
35	A copy	of all Coast Guard approvals shall be provided to the Engineer upon receipt but		
36		r than prior to beginning work on the items of work involved.		
37				
38	By the	20th of each month, the Contractor shall furnish the Engineer a schedule of the		
39	work ex	xpected to be performed in the next two months. The Engineer will transmit this		
40		ation through the Bridge and Structures Office to the Coast Guard so that interested		
41	users c	f the waterway can be notified.		
42				
43	The Co	ast Guard contact is:		
44				
45 46		idge Administrator		
46 47		irteenth Coast Guard District		
47 48		5 Second Avenue Suite 3510 attle, WA 98174-1067		
40 49		3-pf-d13bridges@uscg.mil		
49 50		lephone: (206) 220-7282		
50 51	10			

1 2 3 4	navigat	s in connection with furnishing, installing, maintaining, and removing temporary ion lights, signs, signals, or other warning devices shall be included in the contract or the items of work involved.
5 6 7 8		s incurred in obtaining the required Coast Guard approvals and in complying with irements specified herein shall be included in the contract prices for the items of volved.
9 10 11		s in connection with delays in the construction caused by the Contractor's failure n the necessary Coast Guard approvals shall be at the Contractor's expense.
12 13 14		3(B).GB1 nber 3, 2019) ntractor shall comply with all United States Coast Guard requirements.
15 16 17 18 19 20	Plan at part of	ntractor shall submit a Type 3 Working Drawing consisting of a Navigation Work least 60-calendar days prior to beginning activities and operations affecting any the waterway in the vicinity of the bridge work. The Navigation Work Plan shall at a minimum, the following:
20 21 22 23	1.	Lead Contractor contact for the project, with associated email and phone number.
23 24 25	2.	Scheduled on-site start work date and finish work date.
26 27	3.	Days and times of operation over the nominal work week.
28 29 30	4.	Dates and times of stages of work, as applicable for operations involving sequential or staged activities.
31 32 33 34	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.
35 36 37 38 39 40 41 42	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 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.
43 44 45	7.	Point of contact phone number available for 24-hour-seven-days-a-week contact from local mariners through the duration of the project.
46 47 48 49 50	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.

1 9. Precautions regarding the in-water vessels, equipment, and work operation 2 hazards, if any, affecting local mariners such as operating speed and wake, 3 clearance distance, etc. 4 5 10. Systems and equipment causing a reduction in the available vertical clearance 6 beneath the bridge, if any, such as containment and platform systems and 7 supports and the equipment necessary to install, maintain, and remove such 8 systems, and the identification of any falling debris hazard to waterway traffic. 9 10 11. Description of advisory signage and lighting to be implemented by the 11 Contractor to advise local mariners of the operations, reduced clearances, and 12 presence of work operation hazards, as applicable. The description shall 13 include the advisory message, and placement and orientation of the signage 14 and flashing amber lighting (4-seconds/15 per minute). 15 16 The Engineer will submit the Navigation Work Plan to the US Coast Guard contact 17 identified below for concurrent review. Approval from the US Coast Guard and the 18 Engineer is required prior to the US Coast Guard issuing a Local Notice to Mariners 19 advising of the operations, and allowing the operations to commence. 20 21 The Contractor shall contact the US Coast Guard for requirements related to the mooring 22 of barges, placement of log booms, and all other equipment that could be a hazard to 23 waterway users. 24 25 Provisions shall be made for the removal, on 2 hours notice, of all equipment that would 26 block or partially block, the navigable portion of the waterway. 27 28 The US Coast Guard contact is: 29 30 **Bridge Administrator** 31 Thirteenth Coast Guard District 32 915 Second Avenue Suite 3510 33 Seattle, WA 98174-1067 34 D13-pf-d13bridges@uscg.mil 35 Telephone: (206) 220-7282 36 37 All costs incurred in contacting the US Coast Guard and in complying with all the 38 requirements specified herein shall be included in the contract prices for the items of work 39 involved. 40 41 All costs in connection with delays in the construction caused by the Contractor's failure 42 to contact the US Coast Guard shall be at the Contractor's expense. 43 1-07.7.GR1 44 Load Limits 45 46 47 1-07.7.INST1.GR1 48 Section 1-07.7 is supplemented with the following: 49 50 1-07.7.0PT3.FR1 51 (March 13, 1995)

1 2 3 4 5	The State has made arrangements with *** \$\$1\$\$ *** for the Contractor's use of the *** \$\$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 restrictions.
6 7 8	If the Contractor selects different haul routes than those designated, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.
9	1-07.7.OPT4.FR1
10	(March 13, 1995)
11	The Contractor shall also comply with the further restrictions imposed by the owner of the
12	roads as follows:
13	
14	*** \$\$1\$\$ ***
15	
16	1-07.7.OPT5.GR1
17	(March 13, 1995)
18	Whenever the Contractor obtains materials from a source other than that provided by the
19	Contracting Agency, or provides a source for materials not designated to come from a
20	source provided by the State and the location of the source necessitates hauling on other
21 22	than State Highways, the Contractor shall, at the Contractor's expense, make all
22	arrangements for the use of the haul routes.
23	1-07.7.OPT6.GR1
25	(March 13, 1995)
26	If the sources of materials provided by the Contractor necessitates hauling over roads
27	other than State Highways, the Contractor shall, at the Contractor's expense, make all
28	arrangements for the use of the haul routes.
29	•
30	1-07.9.GR1
31	Wages
32	
33	1-07.9(1).GR1
34	General
35	
36	1-07.9(1).INST1.GR1
37	Section 1-07.9(1) is supplemented with the following:
38 39	1-07.9(1).OPT1.GR1
40	(January 10, 2024)
41	The Federal wage rates incorporated in this contract have been established by the
42	Secretary of Labor under United States Department of Labor General Decision No.
43	WA20240001.
44	
45	The State rates incorporated in this contract are applicable to all construction
46	activities associated with this contract.
47	
48	1-07.9(1).OPT2.FR1
49	(January 10, 2024)
50	The Federal wage rates for Highway Construction incorporated in this contract have
51	been established by the Secretary of Labor under United States Department of Labor

1 2 3		General Decision No. WA20240001. These rates are applicable to highway construction.
4 5 6 7 8		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.
9 10 11		The State rates incorporated in this contract are applicable to all construction activities associated with this contract.
12 13 14 15 16 17 18	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.
19 20 21		The State rates incorporated in this contract are applicable to all construction activities associated with this contract.
22 23 24 25 26 27 28	1-07.9(1).OPT5.FR1 (January 10, 2024) 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. WA20240001. These rates are applicable to highway construction.
29 30 31 32		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.
33 34		The State rates incorporated in this contract are applicable to all construction activities associated with this contract.
35 36 37 38 39 40 41 42	1-07.9(1).OPT6.FR1 (January 10, 2024) 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. WA20240001. These rates are applicable to highway construction.
42 43 44 45 46		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.
40 47 48 49 50 51		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

1 2		ate rates incorporated in this contract are applicable to all construction s associated with this contract.	
3 4 5	1-07.9(3).GR1 Apprentices		
6 7 8 9	1-07.9(3).INST1. Section 1-07	GR1 ′.9(3) is supplemented with the following:	
9 10 11 12 13 14 15 16	1-07.9(3).OPT1.GR1 (October 3, 2022 September 3, 2024) Apprentice Utilization This Contract includes an Apprentice Utilization Requirement. No less than 15 Fifteen percent or more of project Labor Hours shall be performed by Apprentices. Apprentice Utilization will be determined using the L&I online Prevailing Wage Intent & Affidavit (PWIA) system.		
17 18 19 20	Definiti For the	ons purposes of this specification the following definitions apply:	
20 21 22 23	1.	<u>Apprentice</u> is a person enrolled in a State-approved Apprenticeship Training Program.	
24 25 26 27	2.	<u>Apprentice Utilization Requirement</u> is the Apprentice labor hours expressed as a percentage of the project Labor Hours <u>based on certified payrolls or</u> the affidavit of wages paid, whichever is least. The percentage is not rounded up.	
28 29 30 31	<u>3.</u>	Apprentice Utilization Requirement is the minimum percentage of apprentice labor hours required by the Contract.	
32 33 34 35	3 <u>4</u> .	<u>Good Faith Efforts (GFE)</u> 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.	
36 37 38 39 40 41 42 43 44 45	4 <u>5</u> .	Labor Hours are the total hours performed by all workers receiving an hourly wage who are subject to prevailing wage requirements for Work performed on the Contract as defined by RCW 39.04.310. Labor Hours are determined based on the scope of work performed by the individuals, rather than the title of their occupations in accordance with WAC 296-127.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.	
46 47 48 49 50	5 <u>6</u> .	<u>State-approved Apprenticeship Training Program</u> is an apprenticeship training program approved by the Washington State Apprenticeship Council.	

Electronic Reporting

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28 29 The Contractor shall use the <u>State L&I online Prevailing Wage Intent & Affidavit</u> (PWIA) System to submit the "Apprentice Utilization Plan" and <u>"Good Faith Effort"</u> <u>GFE</u> 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 <u>use the PWIA system to</u> 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:

https://secure.lni.wa.gov/arts-public/#/program-searchSpecialty Compliance And Services Division, Apprenticeship Section, P.O. Box 44530, Olympia, WA 98504-4530 or by phone at (360) 902-5320.

Compliance

30 In the event that the Contractor is unable to achieve the Apprentice Utilization 31 Requirement, the Contractor shall submit to use the State L&I online PWIA system 32 to submit GFE documentation for review and approval. The GFE documentation shall 33 be submitted after Substantial Completion but no later than 30 days after Physical 34 Completion. If GFE documentation was previously submitted as part of the 35 Apprentice Utilization Plan, it shall be updated and resubmitted. The GFE 36 documentation for Apprentice Utilization based on certified payrolls shall be 37 submitted after Substantial Completion but no later than 30 days after Physical 38 Completion. After all affidavits of wages paid have been submitted, if the Apprentice 39 Utilization based on the affidavits of wages paid is less than that of the Apprentice 40 Utilization based on certified payrolls, a GFE shall be submitted based on the lower 41 Apprentice Utilization.

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

Good Faith Efforts

- 48 The GFE shall describe in detail why the Contractor is not or was not able to attain 49 the Apprentice Utilization Requirement. The GFE documentation shall address one 50 or more of the following areas include:
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from a State-approved Apprenticeship Training Program(s). To be considered ongoing, the correspondence shall be not less than once a quarter, beginning at the start of Work and continuing every three months thereafter. The response from the solicited State-Approved Apprentices shall be included in the correspondence, Correspondence on solicitation of Apprentices from a State-approved Apprentices by Training Program(c), and there is a lack of availability of Apprentices hip Training Program(c), and the response from the solicited State-Approved Apprentices. And one or more of the following: And one or more of the following: And one or more of the following: Previde-@pocumentation that shows Contract requirements for TERO, Special Training or Disadvantage Business Enterprise requirements affect the ability to obtain Apprentices, letters, memos or other correspondence from Contract. Revide-@pocumentation 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 significant duration, they may be counted towards a GFE credit for up to eney ear after their graduated. If an Apprentice 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 for the diving employment on a project of significant duration, they may be counted towards a GFE credit for up	1		Documentation of ongoing correspondence for solicitation of Apprentices
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49 Section 1-07.11 is supplemented with the following:			21
			supplemented with the following.

1 2 3 4	(Oc <u>Re</u>	OPT1.GR1 ctober 3, 2022) quirement for Affirmative Action to Ensure Equal Employ der 11246)	ment Opportunity (Executive
5 6 7 8 9	1.	The Contractor's attention is called to the Equal Opportu Federal Equal Employment Opportunity Construction forth herein.	
10 11 12 13 14	2.	The goals and timetables for minority and female part Federal Contract Compliance Programs, expressed i Contractor's aggregate work force in each construction construction work in the covered area, are as follows:	n percentage terms for the
15 16		Women - Statewide	
17 18		Timetable	Goal
19 20		Until further notice <u>Minorities - by Standard Metropolitan Statistical Are</u>	6.9% ea <u>(SMSA)</u>
21 22 23		Spokane, WA: SMSA Counties:	
23 24 25		Spokane, WA WA Spokane.	2.8
26 27		Non-SMSA Counties WA Adams; WA Asotin; WA Columbia; V	3.0 WA Ferry: WA Garfield: WA
28 29		Lincoln, WA Pend Oreille; WA Stevens; W	
30 31		Richland, WA SMSA Counties:	
32 33		Richland Kennewick, WA WA Benton; WA Franklin.	5.4
34 35		Non-SMSA Counties WA Walla Walla.	3.6
36 37		Yakima, WA:	
38 39		SMSA Counties: Yakima, WA	9.7
40 41 42 43		WA Yakima. Non-SMSA Counties WA Chelan; WA Douglas; WA Grant; WA I	7.2 Kittitas; WA Okanogan.

1 2		Seattle, WA: SMSA Counties:	
3		Seattle Everett, WA	7.2
4		WA King; WA Snohomish.	0.0
4 5 6 7		Tacoma, WA WA Pierce.	6.2
7		Non-SMSA Counties	6.1
8		WA Clallam; WA Grays Harbor; WA Island; WA 、	
9		WA Lewis; WA Mason; WA Pacific; WA San J	uan; WA Skagit; WA
10 11		Thurston; WA Whatcom.	
12		Portland, OR:	
13		SMSA Counties:	
14		Portland, OR-WA	4.5
15		WA Clark.	
16 17		Non-SMSA Counties WA Cowlitz; WA Klickitat; WA Skamania;	3.8 WA Wahkiakum
18		WA COWILZ, WA KICKIAL, WA Skamania,	
19		These goals are applicable to each nonexempt Contractor's tota	al on-site construction
20		workforce, regardless of whether or not part of that workforce i	s performing work on
21		a Federal, or federally assisted project, contract, or subcontra	
22 23		Compliance with these goals and time tables is enforced by	the Office of Federal
23 24		Contract compliance Programs.	
25		The Contractor's compliance with the Executive Order and the	egulations in 41 CFR
26		Part 60-4 shall be based on its implementation of the Equal	
27		specific affirmative action obligations required by the specific	
28 29		CFR 60-4.3(a), and its efforts to meet the goals. The hours o	
30		employment and training must be substantially uniform throug contract, in each construction craft and in each trade, and the 0	•
31		a good faith effort to employ minorities and women evenly or	
32		The transfer of minority or female employees or trainees	from Contractor to
33		Contractor or from project to project for the sole purpose of me	
34 35		goal shall be a violation of the contract, the Executive Order a 41 CFR Part 60-4. Compliance with the goals will be measured	
36		work hours performed.	neu ayanısı ine iolar
37		work hours portormou.	
38	3.	The Contractor shall provide written notification to the Office	
39		Compliance Programs (OFCCP) within 10 working days of awa	•
40 41		subcontract in excess of \$10,000 or more that are Federally f	
41		construction work under the contract resulting from this solicita shall list the name, address and telephone number of the sub	
43		identification number of the subcontractor; estimated do	
44		subcontract; estimated starting and completion dates of the	
45		geographical area in which the contract is to be performed. The	e notification shall be
46		sent to:	
47 48		U.S. Department of Labor	
49		Office of Federal Contract Compliance Programs Pacific F	legion
50		Attn: Regional Director	J
51		San Francisco Federal Building	
52		90 – 7 th Street, Suite 18-300	

1 2 3		San Francisco, CA 94103(415) 625-7800 Phone (415) 625-7799 Fax		
4 5	4.	As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as designated herein.		
6 7 8 9		ndard Federal Equal Employment Opportunity Construction Contract Specifications ecutive Order 11246)		
10 11	1.	As used in these specifications:		
12 13 14		 Covered Area means the geographical area described in the solicitation from which this contract resulted; 		
15 16 17		 Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority; 		
18 19 20 21		 Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941; 		
22 23		d. Minority includes:		
24 25 26		 Black, a person having origins in any of the Black Racial Groups of Africa. 		
27 28 29 30		(2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.		
31 32 33 34 25		(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.		
35 36 37 38 39		(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.		
40 41 42 43 44 45	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.		
46 47 48 49 50 51 52	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 emplovees. 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.

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- 8 4. The Contractor shall implement the specific affirmative action standards provided in 9 paragraphs 7a through 7p of this Special Provision. The goals set forth in the 10 solicitation from which this contract resulted are expressed as percentages of the 11 total hours of employment and training of minority and female utilization the 12 Contractor should reasonably be able to achieve in each construction trade in which 13 it has employees in the covered area. Covered construction contractors performing 14 construction work in geographical areas where they do not have a Federal or 15 federally assisted construction contract shall apply the minority and female goals 16 established for the geographical area where the work is being performed. The 17 Contractor is expected to make substantially uniform progress in meeting its goals in 18 each craft during the period specified.
- 20 5. Neither the provisions of any collective bargaining agreement, nor the failure by a 21 union with whom the Contractor has a collective bargaining agreement, to refer either 22 minorities or women shall excuse the Contractor's obligations under these 23 specifications, Executive Order 11246, or the regulations promulgated pursuant 24 thereto. 25
- 26 6. In order for the nonworking training hours of apprentices and trainees to be counted 27 in meeting the goals, such apprentices and trainees must be employed by the 28 Contractor during the training period, and the Contractor must have made a 29 commitment to employ the apprentices and trainees at the completion of their 30 training, subject to the availability of employment opportunities. Trainees must be 31 trained pursuant to training programs approved by the U.S. Department of Labor.
- 33 7. The Contractor shall take specific affirmative actions to ensure equal employment 34 opportunity. The evaluation of the Contractor's compliance with these specifications 35 shall be based upon its effort to achieve maximum results from its action. The 36 Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - Ensure and maintain a working environment free of harassment, a. 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.
 - Establish and maintain a current list of minority and female recruitment b. sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions

1 2 3		have employment opportunities available, and maintain a record of the organizations' responses.
4 5 6 7 8 9 10 11 12	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.
12 13 14 15 16 17 18	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.
19 20 21 22 23 24 25	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.
26 27 28 29 30 31 32 33 34 35	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 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.
36 37 38 39 40 41 42 43 44	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.
45 46 47 48 49 50 51	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.

1 2 3 4 5 6 7 8 9		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.
10 11 12 13 14		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.
15 16 17		k.	Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
18 19 20 21 22		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.
22 23 24 25 26 27 28		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.
29 30 31		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.
32 33 34 35 36 37		0.	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.
38 39 40 41		p.	Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
42 43 44 45 46 47 48 49 50 51 52	8.	fulfilling of of a con similar g as fulfillin Provision effort to a and won reflected good fait	tors are encouraged to participate in voluntary associations which assist in one or more of their affirmative action obligations (7a through 7p). The efforts intractor association, joint contractor-union, contractor-community, or other roup of which the Contractor is a member and participant, may be asserted ing any one or more of the obligations under 7a through 7p of this Special in provided that the Contractor actively participates in the group, makes every assure that the group has a positive impact on the employment of minorities nen in the industry, ensure that the concrete benefits of the program are I in the Contractor's minority and female work-force participation, makes a th effort to meet its individual goals and timetables, and can provide access nentation 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).
- 10. 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 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).

- 1 2 16. Additional assistance for Federal Construction Contractors on contracts 3 administered by Washington State Department of Transportation or by Local 4 Agencies may be found at: 5 6 Washington State Dept. of Transportation 7 Office of Equity and Civil Rights 8 PO Box 47314 9 310 Maple Park Ave. SE 10 Olympia WA 98504-7314 11 12 Ph: 360-705-7090 13 Fax: 360-705-6801 http://www.wsdot.wa.gov/equalopportunity/default.htm 14 15 16 1-07.11.0PT2.GR1 17 (October 3, 2022) 18 Disadvantaged Business Enterprise Participation 19 The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and 20 USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. As 21 such, the requirements of this Contract are to make affirmative efforts to solicit DBEs, 22 provide information on who submitted a Bid or quote and to report DBE participation 23 monthly as described elsewhere in these Contract Provisions. No preference will be 24 included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall 25 be required as a Condition of Award and Bids/Proposals may not be rejected or
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DBE Abbreviations and Definitions

considered non-responsive on that basis.

- **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.
- 35Certified Business Description Specific descriptions of work the DBE is36certified to perform, as identified in the Certified Firm Directory, under the Vendor37Information page.
- 39 Certified Firm Directory - A database of all Minority, Women, and 40 Disadvantaged Business Enterprises. The on-line Directory is available to 41 Contractors for their use in identifying and soliciting interest from DBE firms. The 42 database is located under the Firm Certification section of the Diversity 43 Management and Compliance System web page at: 44 https://omwbe.diversitycompliance.com.
- 46 Commercially Useful Function (CUF)
- 47 49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a 48 commercially useful function when it is responsible for execution of the work of 49 the contract and is carrying out its responsibilities by actually performing, 50 managing, and supervising the work involved. To perform a commercially useful 51 function, the DBE must also be responsible, with respect to materials and 52 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.
- 28 **Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store, 29 warehouse, or other establishment in which the materials or supplies required 30 for the performance of a Contract are bought, kept in stock, and regularly sold 31 to the public in the usual course of business. To be a Regular Dealer, the DBE 32 firm must be an established regular business that engages in as its principal 33 business and in its own name the purchase and sale of the products in question. 34 A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum 35 products need not own, operate or maintain a place of business if it both owns 36 and operates distribution equipment for the products. Any supplementing of 37 regular dealers' own distribution equipment shall be by long-term formal lease 38 agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' 39 representatives, or other persons who arrange or expedite transactions shall not 40 be regarded as Regular Dealers within the meaning of this definition.

DBE Goals

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

Affirmative Efforts to Solicit DBE Participation

- 46 The Contractor shall not discriminate on the grounds of race, color, sex, national 47 origin, age, or disability in the selection and retention of subcontractors, including 48 procurement of materials and leases of equipment. DBE firms shall have an equal 49 opportunity to compete for subcontracts in which the Contractor enters into pursuant 50 to this Contract.
- 51 52 Contractors are encouraged to:

1 2 Advertise opportunities for subcontractors or suppliers in a timely and 1. 3 reasonably designed manner to provide notice of the opportunity to DBEs 4 capable of performing the Work. All advertisements should include a 5 Contract Provision encouraging participation by DBE firms. This may be 6 accomplished through general advertisements (e.g. newspapers, journals, 7 etc.) or by soliciting Bids/Proposals directly from DBEs. 8 9 2. Establish delivery schedules that encourage participation by DBEs and 10 other small businesses. 11 12 3. Participate with a DBE as a joint venture. 13 14 DBE Eligibility/Selection of DBEs for Reporting Purposes Only 15 Contractor may take credit for DBEs utilized on this Contract only if the firm is certified 16 for the Work being performed, and the firm performs a commercially useful function 17 (CUF). 18 19 Absent a mandatory goal, all DBE participation that is attained on this project will be 20 considered as "race neutral" participation and shall be reported as such. 21 22 **Crediting DBE Participation** 23 All DBE subcontractors shall be certified before the subcontract on which they are 24 participating is executed. 25 26 Be advised that although a firm is listed in the directory, there are cases where the 27 listed firm is in a temporary suspension status. The Contractor shall review the 28 OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not 29 enter into new contracts that count towards participation. 30 31 DBE participation is only credited upon payment to the DBE. 32 33 The following are some definitions of what may be counted as DBE participation. 34 35 **DBE Prime Contractor** 36 Only take credit for that portion of the total dollar value of the Contract equal to 37 the distinct, clearly defined portion of the Work that the DBE Prime Contractor 38 performs with its own forces and is certified to perform. 39 40 **DBE Subcontractor** 41 Only take credit for that portion of the total dollar value of the subcontract equal 42 to the distinct, clearly defined portion of the Work that the DBE performs with its 43 own forces. The value of work performed by the DBE includes the cost of 44 supplies and materials purchased by the DBE and equipment leased by the 45 DBE, for its work on the contract. Supplies, materials or equipment obtained by 46 a DBE that are not utilized or incorporated in the contract work by the DBE will 47 not be eligible for DBE credit. 48 49 The supplies, materials, and equipment purchased or leased from the 50 Contractor or its affiliate, including any Contractor's resources available to DBE 51 subcontractors at no cost, shall not be credited. 52

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.

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.

45 Trucking

46 DBE trucking firm participation may only be credited as DBE participation for the 47 value of the hauling services, not for the materials being hauled unless the 48 trucking firm is also certified as a supplier. In situations where the DBE's work 49 is priced per ton, the value of the hauling service must be calculated separately 50 from the value of the materials in order to determine DBE credit for hauling.

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1 2 3 4 5 6	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 operations.
7	employs.
8 9 10 11	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
12 13 14 15	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.
16 17 18 19	DBE credit for a truck broker is limited to the fee/commission that the DBE receives for arranging transportation services.
20 21 22	Truck registration and lease agreements shall be readily available at the project site for the Engineer review.
23	DBE Manufacturer and DBE Regular Dealer
24 25	One hundred percent (100%) of the cost of the manufactured product obtained from a DBE Manufacturer can count as DBE participation.
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27 28	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
29	Regular Dealer is determined to be that of a pass-through, then no DBE credit
30	will be given for its services. If the role of the DBE Regular Dealer is determined
31	to be that of a Broker, then DBE credit shall be limited to the fee or commission
32	it receives for its services. Regular Dealer status and the amount of credit is
33 34	determined on a Contract-by-Contract basis.
35	Regular Dealer DBE firms must be approved before being used on a project.
36	The WSDOT Approved Regular Dealer list published on WSDOT's Office of
37	Equal Opportunity (OEO) web site must include the specific project for which
38 39	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
40	specific project.
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42	Purchase of materials or supplies from a DBE which is neither a manufacturer
43	nor a regular dealer, (i.e. Broker) only the fees or commissions charged for
44 45	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
46	site, can count as DBE participation provided the fees are not excessive as
47	compared with fees customarily allowed for similar services. Documentation will
48	be required to support the fee/commission charged by the DBE. The cost of the
49 50	materials and supplies themselves cannot be counted toward as DBE participation.
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$ \begin{array}{r} 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 \\ 35 \\ 36 \\ 37 \\ 38 \\ 39 \\ 40 \\ 41 \\ 42 \\ 43 \\ 44 \\ 45 \\ 46 \\ 47 \\ 48 \\ 49 \\ 50 \\ 51 \\ 51 \end{array} $	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 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
52	the entire trucking operation for which it is responsible on the

1 2 3 4	Contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
4 5 6 7 8 9	 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.
10 11 12 13 14	 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.
15 16 17 18	 Leased trucks shall display the name and identification number of the DBE.
19 20 21 22 23 24 25	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.
26 27 28 29 30 31	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.
32 33 34 35 36 37 38	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.
39 40 41 42 43	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.
44 45 46 47 48	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.
49 50 51 52	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.

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2	Refer to Section 1-08.1 for additional reporting requirements associated with this
3	Contract.
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5	Decertification
6	When a DBE is "decertified" from the DBE program during the course of the
7	Contract, the participation of that DBE shall continue to count as DBE
8	participation as long as the subcontract with the DBE was executed prior to the
9	decertification notice. The Contractor is obligated to substitute when a DBE does
10	not have an executed subcontract agreement at the time of decertification.
11	not have an excedied subcontract agreement at the time of determination.
12	Consequences of Non-Compliance
13	Each contract with a Contractor (and each subcontract the Contractor signs with
14	a subcontractor) must include the following assurance clause:
14	a subcontractor) must include the following assurance clause.
15 16	The Contractor subrasiniant, or subcontractor shall not discriminate on the basis
17	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
18	Contractor shall carry out applicable requirements of 49 CFR Part 26 in the
19	award and administration of DOT-assisted contracts. Failure by the Contractor
20	to carry out these requirements is a material breach of this contract, which may
21	result in the termination of this contract or such other remedy as the recipient
22	deems appropriate, which may include, but is not limited to:
23	(4)) (4) the helding manufally groups are set of the set of th
24	Withholding monthly progress payments;
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26	(2) Assessing sanctions;
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28	(3) Liquidated damages; and/or
29	(4) Discussificities the Original form for the hiddling of the second states it is
30	(4) Disqualifying the Contractor from future bidding as non-responsible.
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32	Payment
33	Compensation for all costs involved with complying with the conditions of this
34	Specification and any other associated DBE requirements is included in
35	payment for the associated Contract items of Work, except otherwise provided
36	in the Specifications.
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38	1-07.11.OPT3.FR1
39	(October 3, 2022<u>September 3, 2024</u>)
40	Disadvantaged Business Enterprise Participation
41	General
42	The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and
43	USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract.
44	Demonstrating compliance with these Specifications is a Condition of Award (COA)
45	of this Contract. Failure to comply with the requirements of this Specification may
46	result in your Bid being found to be nonresponsive irregular in accordance with
47	Section 1-02.13, resulting in rejection or other sanctions as provided by the Contract.
48	
49	DBE Abbreviations and Definitions
50	Broker - A business firm that provides a bona fide service, such as professional,
51	technical, consultant or managerial services and assistance in the procurement
52	of essential personnel, facilities, equipment, materials, or supplies required for

1 2	the performance of the Contract; or, persons/companies who arrange or expedite transactions.
3	Cartified Rusiness Description The approved business description that
4 5	Certified Business Description - <u>The approved business description that</u> <u>supplements the North American Industry Classification System (NAICS) code</u>
6	listed in OMWBE's directory of certified firms. Specific descriptions of work the
7	DBE is certified to perform, as identified in the Certified Firm Directory, under
8	the Vendor Information page.
9 10	Certified Firm Business Directory - A database of all Minority, Women, and
11	Disadvantaged Business Enterprises currently certified by Washington State.
12	The on-line Directory is available to Bidders for their use in identifying and
13	soliciting interest from DBE firms. The database is located under the Firm
14	Certification section of the Diversity Management and Compliance System web
15	page at: https://omwbe.diversitycompliance.com.
16	
17	Commercially Useful Function (CUF) - <u>A firm performs a commercially useful</u>
18	function when it is responsible for execution of the work of the contract and is
19	carrying out its responsibilities by performing, managing, and supervising the
20	work involved as defined in 49 CFR 26.55(c)(1). To perform a commercially
21 22	useful function, the firm must also be responsible, with respect to materials and
23	supplies used on the contract, for ordering, negotiating price, paying for, determining quality and quantity, and installing (where applicable) for the
23	material itself.
25	
26	The DBE firm does not perform a CUF if its role is limited to that of an extra
27	participant in a transaction, contract, or Project through which the funds are
28	passed to obtain the appearance of DBE participation.49 CFR 26.55(c)(1)
29	defines commercially useful function as: "A DBE performs a commercially useful
30	function when it is responsible for execution of the work of the contract and is
31	carrying out its responsibilities by actually performing, managing, and
32	supervising the work involved. To perform a commercially useful function, the
33 34	DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the
35	material, and installing (where applicable) and paying for the material itself. To
36	determine whether a DBE is performing a commercially useful function, you
37	must evaluate the amount of work subcontracted, industry practices, whether
38	the amount the firm is to be paid under the contract is commensurate with the
39	work it is actually performing and the DBE credit claimed for its performance of
40	the work, and other relevant factors."
41	
42	Consultant, DBE – An individual, partnership, firm, or corporation who meet the
43	definition of a DBE which has been retained under a contract to provide technical
44	or professional services.
45	DDE Committee et . The deller encount and econe of work the Didden indicates
46 47	DBE Commitment - The dollar amount and scope of work the Bidder indicates
47	on each line of their DBE Utilization Certification (WSDOT Form 272-056) for each DBE firm. These Commitments will be incorporated into the Contract and
49	shall be considered Contract requirements.
50	shall be considered contractroquitemento.
51	DBE Condition of Award (COA) Goal - An assigned numerical amount
52	specified as a percentage of the Contract. At Bid, this is the minimum amount

1 2	that the Bidder must commit to by submission of the DBE Utilization Certification form and, if necessary, by GFE Documentation.
3	
4 5	Disadvantaged Business Enterprise (DBE) - A business that is owned and operated independently from other businesses and is certified by the
6	Washington State Office of Minority and Women's Business Enterprises, as
7	meeting the criteria outlined in 49 CFR 26 regarding DBE certification.firm
8	certified by the Washington State Office of Minority and Women's Business
9	Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE
10	certification.
11 12	Force Account Work - Work measured and paid in accordance with Section 1-
12	09.6.
14	09.0.
14	Good Faith Efforts (GFE) - Efforts to achieve the DBE COA Goal or other
16	requirements of this part Provision which, by their scope, intensity, and
17	appropriateness to the objective, can reasonably be expected to fulfill the
18	program requirement.
19	program rodanoman
20	Subcontractor, DBE - An individual, partnership, firm, corporation, or joint
21	venture who meet the definition of a DBE and who is sublet part of the Contract.
22	· · · ·
23	Supplier, DBE - A Manufacturer, Regular Dealer, Distributor, or Transaction
24	Facilitator who provides supplies or materials for the Contract. The role a
25	Supplier performs is determined on a contract-by contact basis.
26	
27	Manufacturer, DBE - A DBE firm that operates or maintains a factory or
28	establishment that produces on the premises the materials, supplies,
29	articles, or equipment required under the Contract. A DBE Manufacturer
30	shall produce finished goods or products from raw or unfinished material or
31	purchase and substantially alters goods and materials to make them
32	suitable for construction use before reselling them.
33	
34	Regular Dealer, DBE - A DBE firm that owns, operates, or maintains a
35	store, warehouse, or other establishment in which the materials or supplies
36 37	required for the performance of a Contract are bought, kept in stock, and
38	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
39	in as its principal business and in its own name the purchase and sale of
40	the products in question. A Regular Dealer in such items as steel, cement,
41	gravel, stone, and petroleum products need not own, operate or maintain a
42	place of business if it both owns and operates distribution equipment for the
43	products. Any supplementing of regular dealers' own distribution equipment
44	shall be by long-term formal lease agreements and not on an ad-hoc basis.
45	Brokers, packagers, manufacturers' representatives, or other persons who
46	arrange or expedite transactions shall not be regarded as Regular Dealers
47	within the meaning of this definition.
48	
49	Distributor, DBE - An established DBE firm that engages in the regular sale
50	or lease of the items specified by the contract. A DBE Distributor assumes
51	responsibility for the items it purchases once they leave the point of origin,
52	making it liable for any loss or damage not covered by the carrier's

1	insurance. The Distributor must demonstrate ownership of the items in
2	question and assure all risk for loss or damage during transportation,
3	evidenced by the terms of the purchase order or bill of lading from a third
4	party, indicating Free on Board (FOB) at the point of origin or similar terms
5	that transfer responsibility of the items in question to the DBE distributors.
6	
7	Transaction Facilitator, DBE - A DBE firm (packagers, brokers,
8	manufacturer's representatives, etc.) who provides a bona fide service
9	arranging, facilitating, or expediting transactions but does not qualify as a
10	Manufacturer, a Regular Dealer, or a Distributor.
11	Manufacturer, a Regular Dealer, or a Distributor.
12	Manufacturer (DBE) - A DBE firm that operates or maintains a factory or
13	establishment that produces on the premises the materials, supplies, articles, or
14	equipment required under the Contract. A DBE Manufacturer shall produce
15	finished goods or products from raw or unfinished material or purchase and
16	substantially alters goods and materials to make them suitable for construction
17	use before reselling them.
18	
19	Reasonable Fee (DBE) - For purposes of Brokers or service providers a
20	reasonable fee shall not exceed 5% of the total cost of the goods or services
21	brokered.
22	
23	Regular Dealer (DBE) - A DBE firm that owns, operates, or maintains a store,
24	warehouse, or other establishment in which the materials or supplies required
25	for the performance of a Contract are bought, kept in stock, and regularly sold
26	to the public in the usual course of business. To be a Regular Dealer, the DBE
27	firm must be an established regular business that engages in as its principal
28	business and in its own name the purchase and sale of the products in question.
29	A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum
30	products need not own, operate or maintain a place of business if it both owns
31	and operates distribution equipment for the products. Any supplementing of
32	regular dealers' own distribution equipment shall be by long-term formal lease
33	agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers'
34	representatives, or other persons who arrange or expedite transactions shall not
35	be regarded as Regular Dealers within the meaning of this definition.
36	
37	DBE Commitment - The scope of work and dollar amount the Bidder indicates
38	they will be subcontracting to be applied towards the DBE Condition of Award
39	Goal as shown on the DBE Utilization Certification Form for each DBE
40	subcontractor. This DBE Commitment will be incorporated into the Contract and
40	shall be considered a Contract requirement. The Contractor shall utilize the COA
42	
	DBEs to perform the work and supply the materials for which they are
43	committed. Any changes to the DBE Commitment require the Engineer's prior
44	written approval.
45	
46	DBE Condition of Award (COA) Goal - An assigned numerical amount
47	specified as a percentage of the Contract. Initially, this is the minimum amount
48	that the Bidder must commit to by submission of the Utilization Certification Form
49	and/or by Good Faith Effort (GFE).
50	

1 2 3	DBE COA Goal The Contracting Agency has established a DBE COA Goal for this Contract in the amount of: *** \$\$1\$\$ ***, which applies to the final Contract Amount.
4	amount of. • • • • • • • • • • • • • • • • • • •
5	If the Contractor cannot meet the DBE COA Goal, GFE Documentation is required.
7 8	Demonstrating compliance with the DBE COA Goal is a Condition of Award of this Contract.
9 10	Crediting DBE Participation
11 12 13	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.
14 15 16	DBE participation is only credited upon payment to the DBE.
17	The following are some definitions of what may be counted as DBE participation.
19	DBE Prime Contractor
20	Only take credit for that portion of the total dollar value of the Contract equal to
21	the distinct, clearly defined portion of the Work that the DBE Prime Contractor
22	performs with its own forces and is certified to perform.
23	
24	DBE Subcontractor
25	Only take credit for that portion of the total dollar value of the subcontract that is
26	equal to the distinct, clearly defined portion of the Work that the DBE performs
27	with its own forces and is certified to perform. The value of work performed by
28	the DBE includes the cost of supplies and materials purchased by the DBE and
29	equipment leased by the DBE, for its work on the contract. Supplies, materials
30	or equipment obtained by a DBE that are not utilized or incorporated in the
31	contract work by the DBE will not be eligible for DBE credit.
32	
33	The supplies, materials, and equipment purchased or leased from the
34	Contractor or its affiliate, including any Contractor's resources available to DBE
35	subcontractors at no cost, shall not be credited.
36 37	DPE credit will not be given in instances where the equipment lesse includes
38	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
39	performance of its work under the contract with its own forces. Situations where
40	equipment is leased and used by the DBE, but payment is deducted from the
41	Contractor's payment to the DBE is not allowed.
42	
43	When the subcontractor is part of a DBE Commitment, the following apply:
44	
45	1. If a DBE subcontracts a portion of the Work of its contract to another firm,
46	the value of the subcontracted Work may be counted toward the DBE
47	COA Goal only if the lower-tier subcontractor is also a DBE.
48	
49	2. Work subcontracted to a lower-tier subcontractor that is a DBE may be
50	counted toward the DBE COA Goal only if the lower-tier subcontractor
51	self performs a minimum of 30 percent of the Work subcontracted to
52	them.

1	
2 3 4	 Work subcontracted to a non-DBE does not count towards the DBE COA Goal.
5 6 7 8 9	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.
10	DBE Service Provider
11 12 13 14	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
15 16 17	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.
18	Force Account Work
19 20 21 22 23 24	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.
25 26 27	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.
28	Temporary Traffic Control
29 30 31 32 33	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).
34	If the DBE firm provides "Traffic Control Services", the DBE firm must provide a
35 36 37	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.
38 39 40 41 42 43 44 45	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
46 47 48 49 50 51 52	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.

1 2	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
3	the transportation services the lessee DBE provides on the Contract.
4 5	The trucking Work subcontracted to any non-DBE trucking firm will not receive
6	credit for Work done on the project.
7	
8	The DBE may lease trucks from a truck leasing company (recognized truck
9	rental center) but can only receive credit towards DBE participation if the DBE
10	uses its own employees as drivers.
11	
12	DBE Manufacturer and DBE Regular Dealer
13	One hundred percent (100%) of the cost of the manufactured product obtained
14	from a DBE manufacturer may count towards the DBE COA Goal.
15	
16	Sixty percent (60%) of the cost of materials or supplies purchased from a DBE
17	Regular Dealer may be credited toward the DBE Goal. If the role of the DBE
18 19	Regular Dealer is determined to be that of a Broker, then DBE credit shall be
20	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.
20	and the amount of credit is determined on a contract-by-contract basis.
22	DBE firms proposed to be used as a Regular Dealer must be approved before
23	being listed as a COA/used on a project. The WSDOT Approved Regular Dealer
24	list published on WSDOT's Office of Equal Opportunity (OEO) web site must
25	include the specific project for which approval is being requested. For purposes
26	of the DBE COA Goal participation, the Regular Dealer must submit the Regular
27	Dealer Status Request form a minimum of five calendar days prior to bid
28	opening.
29	
30	Purchase of materials or supplies from a DBE which is neither a manufacturer
31	nor a regular dealer, (i.e. Broker) only the fees or commissions charged for
32	assistance in the procurement of the materials and supplies, or fees or
33	transportation charges for the delivery of materials or supplies required on the
34	job site, may toward the DBE COA Goal provided the fees are not excessive as
35	compared with fees customarily allowed for similar services. Documentation will
36 37	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.
38	Hatehals and supplies themselves cannot be counted toward the DDE Goal.
39	Note: Requests to be listed as a Regular Dealer will only be processed if the
40	requesting firm is a material supplier certified by the Office of Minority
41	and Women's Business Enterprises in a NAICS code that falls within
42	the 42XXXX NAICS Wholesale code section.
43	
44	Procedures Prior to Award
45	Approval of Regular Dealers and Distributors
46	DBE firms proposed to be used as either a Regular Dealer or a Distributor must
47	be approved before being listed as a COA/used on a project. The Approved
48	Regular Dealer list published on WSDOT's Office of Equity and Civil Rights
49	(OECR) web site must include the specific project for which approval is being
50	requested. For purposes of the DBE COA Goal participation, the Regular
51	Dealer/Distributor must submit the DBE Regular Dealer/Distributor Affirmation

1	Form (USDOT OMB Control 508v3) a minimum of five calendar days prior to bid
2	opening. The DBE Regular Dealer/Distributor Affirmation Form is located at:
3	
4	https://www.transportation.gov/mission/civil-rights/dbe-regular-dealer-
5	distributor-affirmation
6	
7	Requests to be listed as a Regular Dealer/Distributor will only be processed if
8	the requesting firm is a material supplier certified by the Office of Minority and
9	Women's Business Enterprises in a NAICS code that falls within the 42XXXX
10	NAICS Wholesale code section.
11	TATES Wholesale code section.
12	Disadvantaged Business Enterprise Utilization
13	To be eligible for award of the Contract, the Bidder shall properly complete and
14	submit a Disadvantaged Business Enterprise (DBE) Utilization Certification with
15	the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of
16	Proposal. The Bidder's DBE Utilization Certification must clearly demonstrate
17	how the Bidder intends to meet the DBE COA Goal. A DBE Utilization
18	Certification (WSDOT Form 272-056) is included in the Proposal package for
19	this purpose as well as instructions on how to properly fill out the form.
20	
21	The Bidder is advised that the items listed below when listed in the Utilization
22	Certification must have their amounts reduced to the percentages shown and
23	those reduced amounts will be the amount applied towards meeting the DBE
24	COA Goal.
25	
26	1. Force account at 50%
27	—
	 2.∗ Regular dealer at 60%
28	 <u>2.</u> ∗ Regular dealer at 60%
28 29	
28 29 30	 <u>2.</u> Regular dealer at 60% <u>3.</u> Distributor at 40% of the cost of the materials or supplies
28 29 30 31	3. Distributor at 40% of the cost of the materials or supplies
28 29 30 31 32	
28 29 30 31 32 33	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u>
28 29 30 31 32 33 34	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> In the event of arithmetic errors in completing the DBE Utilization Certification,
28 29 30 31 32 33 34 35	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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
28 29 30 31 32 33 34 35 36	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> In the event of arithmetic errors in completing the DBE Utilization Certification,
28 29 30 31 32 33 34 35 36 37	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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.
28 29 30 31 32 33 34 35 36 37 38	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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
28 29 30 31 32 33 34 35 36 37 38 39	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE
28 29 30 31 32 33 34 35 36 37 38 39 40	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the
28 29 30 31 32 33 34 35 36 37 38 39 40 41	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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: <u>The Contracting Agency shall consider as non-responsive and shall reject any</u> Bid Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. Disadvantaged Business Enterprise Written Confirmation Document(s)
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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: <u>The Contracting Agency shall consider as non-responsive and shall reject any</u> Bid Proposal<u>s</u> submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. Disadvantaged Business Enterprise Written Confirmation Document(s) The Bidder shall submit a Disadvantaged Business Enterprise (DBE) Written
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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: <u>The Contracting Agency shall consider as non-responsive and shall reject any</u> Bid Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. 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
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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: <u>The Contracting Agency shall consider as non-responsive and shall reject any</u> Bid Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. 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.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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: <u>The Contracting Agency shall consider as non-responsive and shall reject any</u> Bid Proposal<u>s</u> submitted that does not contain a DBE Utilization Certification Form that <u>accurately</u> demonstrates how the Bidder intends to meet the DBE COA Goal will be rejected. 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 being disallowed,
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. 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-will cause the Bid to be considered irregular in accordance with
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	 <u>3. Distributor at 40% of the cost of the materials or supplies</u> <u>4. Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. 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 will cause the Bid to be considered irregular in accordance with Section 1-02.13 and will be rejected with the Bid. Failure to do so will result in the associated participation being disallowed, which may will cause the Bid to be considered irregular in accordance with Section 1-02.13 and will be rejected.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	 <u>Distributor at 40% of the cost of the materials or supplies</u> <u>Transaction Facilitator not more than 5% of the goods or services</u> 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 Proposals submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal will be considered irregular in accordance with Section 1-02.13 and will be rejected. 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-will cause the Bid to be considered irregular in accordance with

1 2 3 4	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.
5 6 7 8	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.
9 10 11 12 13 14	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 <u>be allowed.</u> receive credit.
15 16 17 18 19	<u>DBE Bid Item Breakdown</u> 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.
20 21 22 23 24 25 26 27	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.
27 28 29 30	Achieving <u>GFE to achieve</u> the DBE COA Goal may be accomplished in one of two ways:
31 32 33 34 35 36	 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, and the DBE Bid Item Breakdown, and the DBE Trucking Credit Form, if applicable.
37 38 39 40 41 42 43 44 45	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 EVENTDocumentation only in the event a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder must supply GFE dDocumentation in addition to the DBE Utilization Certification, supporting DBE Written Confirmation Document(s), and the DBE Bid Item Breakdown form. and the DBE Trucking Credit Form, if applicable.
46 47 48 49 50 51	In the case where a Bidder is awarded the contract based on demonstrating adequate GFE_Documentation, 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.

 The Contracting Agency will review the GFE 4Documentation and will determine if the Bidder made an adequate good faith effort. Geod Faith Effort (GFE) Documentation GFE is evaluated when: Determining award of a Contract that has COA goal, Determining award of a Contract that has COA goal, Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments. U 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 guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of guidance and does not intended to be a mandatory checklingt and is a 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 solicitation. The Bidder nust exclusive 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 ceal-will be achieved. This includes, where appropriate breaking out contract Work items into aconomically fassible units to facilitat DBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces. Selecting portions, and requirements of the Contract in a timely manner to assist them in responding to a solicitation. Selecting interested DBEs with adequate information about the Plans, Specifications, and requirements of the Work available to DBE subcontractors and suppliers, so as to facilitate DBE participation, even when the Bidder mig	1 2	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.
5 if the Bidder made an adequate good faith effort. 6 Good Faith Effort (GFE) Documentation 7 Good Faith Effort (GFE) Documentation 8 GFE is evaluated when: 9 1. Determining award of a Contract that has COA goal, 11 2. When a COA DBE is terminated and substitution is required, and 13 3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments. 16 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 madatory checklist, nor is it intended to be exolusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases. 24 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. 29 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 heraking out contract Work items into economically fassible units to facilitate DBE participation, ev	3	
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10 1. Determining award of a Contract that has COA goal, 11 2. When a COA DBE is terminated and substitution is required, and 13 3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments. 16 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. 24 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 cartainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations. 31 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 fascible units to facilitate DBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces. 38 0. Providing interested DBEs with adequate information about the Plane, Specifications, and requirements of the Contract in a timely manner to assist them in reexponding to a solicitation.		
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12 2. When a COA DBE is terminated and substitution is required, and 13 3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments. 16 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. 24 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 the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations. 31 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 OBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces. 38 3. Providing interested DBEs with adequate information about the Plane, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation. 43 a. Negotiating in good faith with interested DBEs. It is the Bidder's res		T. Determining award of a contract that has congoal,
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15 Contractor has satisfied its DBE commitments. 16 40 CFR. Part 26, Appendix A is intended as general guidance and does not, in 18 itself, demonstrate adequate good faith efforts. The following is a list of types of 20 participation. It is not intended to be a mandatory checklist, nor is it intended to 21 be exclusive or exhaustive. Other factors or types of efforts may be relevant in 22 appropriate cases. 23 1. Soliciting through all reasonable and available means (e.g. 24 1. Soliciting through all reasonable and available means (e.g. 25 attendance at pre-bid meetings, advertising and/or written notices) 26 the interest of all certified DBEs who have the capability to perform 27 the Work of the Contract. The Bidder must solicit this interest within 28 sufficient time to allow the DBEs to respond to the solicitation. The 29 Bidder must determine with certainty if the DBEs are interested by 31 taking appropriate steps to follow up initial solicitations. 32 . Selecting portions of the Work to be performed by DBEs in order to 33 includes, where appropriate, breaking out contract Work items into 34 cocononically feasible units to facilitate DBE participati		
16 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. 24 1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetinge, 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 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 's general' guiding interested and the Bidder's contract in a timely manner to assist them in responding to a solicitation. 37 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. 43 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 pressible DBE subcontractors and suppliers, so as to facilitate DBE participation.		
17 49 CFR Part 26, Appendix A is intended as general guidance and does not, in 18 itself, demonstrate adequate good faith efforts. The following is a list of types of 19 actions, which would be considered as part of the Bidder's GFE to achieve DBE 20 participation. It is not intended to be a mandatory checklist, nor is it intended to 21 be exclusive or exhaustive. Other factors or types of efforts may be relevant in 22 appropriate cases. 23 1. Soliciting through all reasonable and available means (e.g. 24 1. Soliciting through all reasonable and available means (e.g. 25 attendance at pre-bid meetinge, advertising and/or written notices) 26 the interest of all certified DBEs who have the capability to perform 27 the Work of the Contract. The Bidder must solicit this interest within 28 sufficient time to allow the DBEs to respond to the solicitation. The 29 Bidder must determine with certainty if the DBEs are interested by 30 taking appropriate steps to follow up initial solicitations. 31 2. Selecting portions of the Work to be performed by DBEs in order to 33 increase the likelihood that the DBE coA Ceal will be achieved. This 34 includes, where appropriate, breaking out contract Wor		Contractor has satisfied its DBE commitments.
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1 2 2	additional agreements could not be reached for DBEs to perform the Work.
3 4 5 6 7 8 9 10 11 12 13 14	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
15 16	difference is excessive or unreasonable.
17 18 19 20 21 22 23 24	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.
25 26 27	 Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
28 29	 Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
30 31 32 33 34 35	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.
36 37 38 39 40 41	 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)
42 43 44	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.
45 46 47 48	 The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
49 50 51 52	 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.

1	 Only original GFE documentation submitted as a supplement to the
2	Bid shall be considered. The Bidder shall not introduce new
3	documentation at the reconsideration hearing.
4	
5	 The Bidder shall have the opportunity to meet in person with the
6	official for the purpose of setting forth the Bidder's position as to why
7	the GFE documentation demonstrates a sufficient effort.
	the of L documentation demonstrates a sumplem enon.
8	The mean side of the effected at a first of the Didde would be a south a
9	The reconsideration official shall provide the Bidder with a written
10	decision on reconsideration within five working days of the hearing
11	explaining the basis for their finding.
12	
13	DBE Bid Item Breakdown
14	The Bidder shall submit a DBE Bid Item Breakdown Form (WSDOT Form 272-054)
15	as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.
16	
17	Procedures Between Award and Execution
18	DBE Trucking Credit Form
19	The Bidder shall submit a DBE Trucking Credit Form (WSDOT Form 272-058),
20	as specified in the Special Provisions for Section <u>1-03.3.</u> 1-02.9, Delivery of
21	Proposal.
22	
23	The DBE Trucking Credit Form is only required for all DBE Firms listed on the
24	DBE Utilization Certification performing as a subcontractor for "Trucking" or
25	"Hauling" and are performing a part of a bid item. For example, if the item of
26	Work is Structure Excavation including Haul, and another firm is doing the
27	excavation and the DBE Trucking firm is doing the haul, the form is required.
28	For a DBE subcontractor that is responsible for an entire item of work that may
20	•
	require some use of trucks, the form is not required.
30	
31	Procedures between Award and Execution
32	After Award and prior to Execution, the Contractor shall provide the additional
33	information described below. Failure to comply shall result in the forfeiture of the
34	Bidder's Proposal bond or deposit.
35	
36	1. A list of all firms who submitted a bid or quote in attempt to participate in
37	this project whether they were successful or not. Include the business
38	name and mailing address.
39	hanno and maining dadrood.
40	Note: The firme identified by the Contractor may be contracted by the
	Note: The firms identified by the Contractor may be contacted by the
41	Contracting Agency to solicit general information as follows: age of the
42	firm and average of its gross annual receipts over the past three-years.
43	
44	Procedures after Execution
45	Commercially Useful Function (CUF)
46	The Contractor may only take credit for the payments made for Work performed
47	by a DBE that is determined to be performing a CUF. Payment must be
48	commensurate with the work actually performed by the DBE. This applies to all
49	DBEs performing Work on a project, whether or not the DBEs are COA, if the
49 50	Contractor wants to receive credit for their participation. The Engineer will
50 51	
	conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE
52	performs a CUF when it is carrying out its responsibilities of its contract by

1 2 3 4 5 6 7 8 9 10 11	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-will not be credited as countable participation.
12 13 14 15	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.
16 17 18 19 20	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.
20 21 22 23	The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:
23 24 25 26 27 28 29	•1. 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.
29 30 31 32 33 34	*2. 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.
35 36 37 38 39 40	*3. 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.
40 41 42 43	•4. Leased trucks shall display the name and identification number of the DBE.
43 44 45 46 47 48 49 50 51 51 52	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 Pprimary 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 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

1	and accepted by the Engineer no later than ten calendar days of utilizing
2	applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log
2 3	may result in trucks not being credited as DBE participation.
4	may result in trucks not being credited as DDE participation.
4	
5 6	Each DBE trucking firm shall complete a <u>Dd</u> aily <u>DBE/FSBE</u> Truck Unit Listing
6	Log (WSDOT Form 350-077) for each day that the DBE performs trucking
7	services for DBE credit. The Daily Truck Unit Listing Log forms shall be
8	submitted by Friday of the week after the Work was performed by email to the
9	following email address for the region administering the Contract:
10	
11	Eastern Region - ERRegionOEO@wsdot.wa.gov
12	
	North Central Region - NCRegionOEO@wsdot.wa.gov
13	Northwest Region - NWRegionOEO@wsdot.wa.gov
14	Olympic Region - ORegionOEO@wsdot.wa.gov
15	South Central Region - SCRegionOEO@wsdot.wa.gov
16	Southwest Region - SWRegionOEO@wsdot.wa.gov
17	Washington State Ferries - FerriesOEO@wsdot.wa.gov
18	
19	Joint Checking
20	A joint check is a check between a subcontractor and the Contractor to the
21	supplier of materials/supplies. The check is issued by the Contractor as payer
	•••••••••••••••••••••••••••••••••••••••
22	to the subcontractor and the material supplier jointly for items to be incorporated
23	into the project. The DBE must release the check to the supplier, while the
24	Contractor acts solely as the guarantor.
25	
26	A joint check agreement must be approved by the Engineer and requested by
27	the DBE involved using the DBE Joint Check Request Form (WSDOT Form
28	#272-053) prior to its use. The form must accompany the DBE Joint Check
29	Agreement between the parties involved, including the conditions of the
30	arrangement and expected use of the joint checks.
31	arangement and expected use of the joint checks.
	The commence of the second size of the second states are sufficient to the second states of the states of the second states of the seco
32	The approval to use joint checks and the use will be closely monitored by the
33	Engineer. To receive DBE credit for performing a CUF with respect to obtaining
34	materials and supplies, a DBE must "be responsible for negotiating price,
35	determining quality and quantity, ordering the material, installing and paying for
36	the material itself." The Contractor shall submit DBE Joint Check Request Form
37	to the Engineer and be in receipt of written approval prior to using a joint check.
38	5 1 11 1 5 5
39	Material costs paid by the Contractor directly to the material supplier are not
40	allowed. If proper procedures are not followed or the Engineer determines that
40	
	the arrangement results in lack of independence for the DBE involved, no DBE
42	credit will be given for the DBE's participation as it relates to the material cost.
43	
44	Prompt Payment
45	Prompt payment to all subcontractors shall be in accordance with Section 1-
46	08.1. Prompt payment requirements apply to progress payments as well as
47	return of retainage.
48	
49	Subcontracts
50	Prior to a DBE performing Work on the Contract, an executed subcontract
51	between the DBE and the Contractor shall be submitted to the Engineer. The
	Detween the DDE and the Contractor onall be submitted to the Englider. The

1	executed subcontracts shall be submitted by email to the following email address for the region administering the Contract:
3	
4	Eastern Region – <u>ERRegionOEO@wsdot.wa.gov</u>
5	North Central Region – NCRegionOEO@wsdot.wa.gov
6	Northwest Region – NWRegionOEO@wsdot.wa.gov
7	Olympic Region – <u>ORegionOEO@wsdot.wa.gov</u>
8	South Central Region – <u>SCRegionOEO@wsdot.wa.gov</u>
9	Southwest Region – <u>SWRegionOEO@wsdot.wa.gov</u>
10	Washington State Ferries – FerriesOEO@wsdot.wa.gov
11	
12	Reporting
13	The Contractor and all subcontractors of any tier, <i>i</i> suppliers, <i>i</i> service providers,
14	and professional services that utilize DBEs to perform work on the project, shall
15	maintain appropriate records that will enable the Engineer to verify DBE
16	participation throughout the life of the project.
17	participation throughout the me of the project.
18	Refer to Section 1-08.1 for additional reporting requirements associated with this
19	Contract.
20	Contract.
20	Crediting DBE Participation
22	General
23	Subcontractors proposed as COA must be certified prior to the due date for bids
23	on the Contract. All non-COA DBE subcontractors shall be certified before the
25	subcontract on which they are participating is executed.
26	subcontract off which they are participating is executed.
20	DBE participation is only credited upon payment to the DBE.
28	DDL participation is only credited upon payment to the DDL.
20	DBE Prime Contractor and Subcontractor Participation
30	Only take credit for the Work that the DBE contractor performs with its own
31	forces and is certified to perform.
32	torces and is certified to perform.
JZ	
	If the Prime Contractor subcontractor or lower tier subcontractor DRE
33	If the Prime Contractor, subcontractor, or lower tier subcontractor DBE subcontracts a portion of the Work of its contract to another firm, the value of
33 34	subcontracts a portion of the Work of its contract to another firm, the value of
33 34 35	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments only if
33 34 35 36	subcontracts a portion of the Work of its contract to another firm, the value of
33 34 35 36 37	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments only if the lower-tier subcontractor is also a DBE.
33 34 35 36 37 38	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments only if the lower-tier subcontractor is also a DBE. Work subcontracted to a lower-tier subcontractor that is a DBE may be counted
33 34 35 36 37 38 39	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments 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 Commitments only if the lower-tier subcontractor self performs
33 34 35 36 37 38 39 40	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments only if the lower-tier subcontractor is also a DBE. Work subcontracted to a lower-tier subcontractor that is a DBE may be counted
33 34 35 36 37 38 39 40 41	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments 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 Commitments only if the lower-tier subcontractor self performs a minimum of 30 percent of the Work subcontracted to them.
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33 34 35 36 37 38 39 40 41 42 43	subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments 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 Commitments only if the lower-tier subcontractor self performs a minimum of 30 percent of the Work subcontracted to them.
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33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	 subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE Commitments 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 Commitments only if the lower-tier subcontractor self performs a minimum of 30 percent of the Work subcontracted to them. Work subcontracted by a DBE contractor to a non-DBE does not count towards the DBE COA Goal. DBE Consultants A DBE firm providing a bona fide service, such as professional, technical, or managerial services, specifically required for the performance of the contract will be credited as DBE participation

1	Certification form, for the purposes of meeting DBE COA Goal, only 50% of the
2	Proposal amount shall be credited toward the Bidder's Commitment to meet the
3	DBE COA Goal.
4	
4 5 6 7	One hundred percent of the actual amounts paid to the DBE for the force
6	account Work shall be credited towards the DBE COA Goal or DBE participation.
7	
8	Temporary Traffic Control Participation
9	If the DBE firm only provides "Flagging", the DBE firm must provide a traffic
10	control supervisor (TCS) and flagger(s), which are under the direct control of the
11	DBE. The DBE firm shall also provide all flagging equipment for its employees
12	(e.g., paddles, hard hats, and vests).
13	
14	If the DBE firm provides "Traffic Control Services", the DBE firm must provide a
15	TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be
16	in total control of all items in implementing the traffic control for the project.
17	
18	Trucking Participation
19	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
20	
21	trucking firm is also certified as a supplier of those materials. In situations where
22	the DBE's work is priced per ton, the value of the hauling service must be
23	calculated separately from the value of the materials in order to determine DBE
24	credit for hauling
25	
26	The DBE trucking firm must own and operate at least one licensed, insured and
27	operational truck on the contract. The truck must be of the type that is necessary
28	to perform the hauling duties required under the contract. The DBE receives
29	credit for the value of the transportation services it provides on the Contract
30	using trucks it owns or leases, licenses, insures, and operates with drivers it
31	employs.
32	
33	The DBE may lease additional trucks from another DBE firm. The DBE who
34	leases additional trucks from another DBE firm receives credit for the value of
35	the transportation services the lessee DBE provides on the Contract.
36	
37	The trucking Work subcontracted to any non-DBE trucking firm will not receive
38	credit for Work done on the project.
39	
40	The DBE may lease trucks from a truck leasing company (recognized truck
41	rental center) but can only receive credit towards DBE participation if the DBE
42	uses its own employees as drivers.
43	
44	DBE Supplier
45	The credit of a DBE Supplier is decided on a contract-by-contract basis based
46	
	on what the role the proposed DBE Supplier will be performing. OECR will make
47	determinations on whether a Supplier qualifies as a Regular Dealer, Distributor,
48	or Transaction Facilitator based on their role for the Contract.
49	
50	Manufacturer - One hundred percent (100%) of the cost of the
51	manufactured product obtained from a DBE manufacturer may count
52	towards the DBE COA Goal.

1	
2	Regular Dealer - Sixty percent (60%) of the cost of materials or supplies
3	purchased from a DBE Regular Dealer may be credited toward the DBE
4	Goal.
5	Distributor – Forty percent (40%) of the cost of materials or supplies
6	purchased from a DBE Distributor may be credited toward the DBE Goal.
7	
8	Transaction Facilitator - only the fees or commissions charged for
9	assistance in the procurement of the materials and supplies, or fees or
10	
	transportation charges for the delivery of materials or supplies required on
11	the job site, may toward the DBE COA Goal provided the fees are not
12	excessive as compared with fees customarily allowed for similar services.
13	The reasonable fee shall not exceed 5 percent of the total cost of the goods
14	or services. Documentation will be required to support the fee/commission
15	charged by the DBE. The cost of the materials and supplies themselves
16	
	cannot be counted toward the DBE Goal.
17	
18	Changes in COA Work Committed to DBE
19	The Contractor shall utilize the COA DBEs to perform the work and supply the
20	materials for which each is committed unless prior written approval by the Engineer
21	has been received by the Contractor. The Contractor shall not be entitled to any
22	payment for work or material completed by the Contractor or subcontractors that was
23	committed to be completed by the COA DBEs in the DBE Utilization Certification
24	form.
25	
26	Changes
27	In the event a change results in a reduction to Work committed to a COA DBE,
28	the Contractor shall substitute other remaining Work to that COA DBE, if
29	possible, to avoid a change to the total dollar amount to be applied towards the
30	goal committed to that COA DBE. If there is a reduction to the total dollar amount
31	to be applied towards the goal for a COA DBE Commitment, regardless of the
32	reason, it shall be viewed as DBE termination, and subject to the termination
33	procedures below. A notification to the DBE shall occur as soon as possible but
34	no later than two weeks after the Contractor is aware of the upcoming change.
35	Owner Initiated Changes
36	In instances where the Engineer makes changes that result in changes to Work
	5 5 5
37	that was committed to a COA DBE, the Contractor may be directed to substitute
38	for the Work.
39	
40	Contractor Initiated Changes
41	The Contractor cannot change the scope or reduce the amount of work
42	committed to a COA DBE without good cause. Reducing DBE Commitment is
43	viewed as partial DBE termination, and therefore subject to the termination
44	procedures below.
45	
46	Original Quantity Underruns
47	In the event that Work committed to a DBE firm as part of the COA underruns
48	the original planned quantities the Contractor may be required to substitute other
49	remaining Work to another DBE.
	Tomaining work to another DDL.
50	

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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. 9 DBE Termination 10 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 Contracting Agency. 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. 11 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 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 is approved, the Contractor is required to substitute to COA DBE. The approval of termination. The plan to replace the Cond DBE that was terminated (or provide GFE alpocumentation -GFE). A plan to replace the COA DBE. 23 If the request for termination. The plan to replace the Commitment shall provide the same detail as that required in the DBE tubicontract. 24 If the request for termination. The plan to replace the Cond DBE that was terminate of proval of termination. The plan to replace the Co		
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10 Termination of a COA DBE (or an approved substitute DBE) is only allowed in 11 whole or in part for good cause and with prior written approval of the Engineer 12 Contracting Agency. If the Contractor terminates a COA DBE without the prior 13 written approval of the Contractor terminates a COA DBE without the prior 14 entitled to payment for work or material committed to, but not 15 performed/supplied by the COA DBE. In addition, sanctions may apply as 16 described elsewhere in this specification. 17 Prior to requesting approval to terminate a COA DBE, the Contractor shall not be 10 terminate DBE Work and the reasons for doing so. The DBE shall have five (5) 11 days to respond to the Contractor's notice. The DBE's response shall either 22 support the termination or advise the Engineer and the Contractor of the reasons 11 objects to the termination is approved, the Contractor is required to substitute 25 If the request for termination. The plan to replace the COA DBE commitment Shall provide GEE documentation-of-GEE). A plan to replace the 26 ADBE Commitment amount shall be submitted to the Engineer within 2 days 26 If the request for termination. The plan to replace the Commitment shall provide 27 was terminated. DBE to perform the Work of its		
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 40 *2. The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards. 42 43 *3. The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements. 45 46 *4. The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness. 48 49 *5. The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law. 	•	[∗] <u>1.</u> The DDE fails of feluses to execute a written contract.
41 way consistent with normal industry standards. 42 *3. 43 *3. 44 *3. 44 nondiscriminatory bond requirements. 45 46 *4. 47 The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness. 48 49 *5. 50 Suspension and debarment proceedings pursuant to federal law or applicable State law.		
 42 43 43 44 45 46 47 48 49 49 45. The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law. 	•	
 43 43 44 44 45 45 46 47 47 48 49 49 50 50 51 The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law. 		way consistent with normal industry standards.
44 nondiscriminatory bond requirements. 45 -4. 46 -4. 47 unworthiness. 48 -5. 49 -5. 50 suspension and debarment proceedings pursuant to federal law or applicable State law.	•	
 45 46 47 48 49 50 50 51 48 	43	<u>*3.</u> The DBE fails or refuses to meet the Contractor's reasonable
 45 46 47 48 49 50 50 51 48 49 51 48 49 51 48 49 51 48 49 49 49 51 48 49 40 40 41 41 42 43 44 44 45 46 47 47 48 48 49 49 40 40 40 41 41 42 43 44 44 45 46 47 47 47 48 49 49 49 40 40 40 40 40 40 40 41 41 41 42 43 44 44 44 45 46 47 47 47 48 49 <	44	nondiscriminatory bond requirements.
46•4.The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.47unworthiness.48•5.The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.	45	
 47 unworthiness. 48 49 <u>•5.</u> 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 becomes bankrupt, insolvent, or exhibits credit
 48 49 50 51 <		
49•5.The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.		
50suspension and debarment proceedings pursuant to federal law or51applicable State law.		*5 The DBE is ineligible to work on public works projects because of
51 applicable State law.	•	
		· · · · ·
92		applicable State law.
	52	

1 2 3	6. The DBE is ineligible to receive DBE credit for the type of work involved.
4 5 6	•7. The DBE voluntarily withdraws from the project and provides written notice of its withdrawal.
7 8 9	*8. The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
10 11 12	•9. The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the Contract.
13 14	Good cause does not exist if:
15 16 17	<u>1.</u> The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.
18 19 20 21	*2. The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
21 22 23 24 25 26 27	*3. 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).
28 29 30 31 32 33	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.
34 35 36 37 38	Good Faith Effort (GFE) Documentation GFE Documentation is required and will be evaluated whenever the Contractor is unable to fulfill the program requirement. This evaluation may need to be repeated when:
39 40 41	1. Determining award of a Contract that has COA goal,
42 43	2. When a COA DBE is terminated and substitution is required, and
44 45 46	3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.
47 48 49 50	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 Documentation to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be a mandatory checklist, nor
51 52	is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

	1		
	2	1.	Soliciting through all reasonable and available means (e.g.
	3		attendance at pre-bid meetings, advertising and/or written notices)
	4		the interest of all certified DBEs who have the capability to perform
	5		the Work of the Contract. The Bidder must solicit this interest within
	6		sufficient time to allow the DBEs to respond to the solicitation. The
	7		Bidder must determine with certainty if the DBEs are interested by
	8		taking appropriate steps to follow up initial solicitations.
	9		
	10	2	Selecting portions of the Work to be performed by DBEs in order to
		<u>∠.</u>	
	11		increase the likelihood that the DBE COA Goal will be achieved. This
	12		includes, where appropriate, breaking out contract Work items into
	13		economically feasible units to facilitate DBE participation, even when
	14		the Bidder might otherwise prefer to perform these Work items with its
	15		own forces.
	16		
		~	
	17	3.	Providing interested DBEs with adequate information about the
	18		Plans, Specifications, and requirements of the Contract in a timely
	19		manner to assist them in responding to a solicitation.
	20		
	21		a. Negotiating in good faith with interested DBEs. It is the Bidder's
	22		
			responsibility to make a portion of the Work available to DBE
	23		subcontractors and suppliers and to select those portions of the
	24		Work or material needs consistent with the available DBE
	25		subcontractors and suppliers, so as to facilitate DBE participation.
	26		Evidence of such negotiation includes the names, addresses, and
	27		telephone numbers of DBEs that were considered; a description
	28		of the information provided regarding the Plans and Specifications
	29		for the Work selected for subcontracting; and evidence as to why
	30		additional agreements could not be reached for DBEs to perform
	31		the Work.
	32		
	33		b. A Bidder using good business judgment would consider a number
	34		of factors in negotiating with subcontractors, including DBE
	35		subcontractors, and would take a firm's price and capabilities as
	36		well as the DBE COA Goal into consideration. However, the fact
	37		that there may be some additional costs involved in finding and
	38		using DBEs is not in itself sufficient reason for a Bidder's failure to
	39		meet the DBE COA Goal, as long as such costs are reasonable.
	40		Also, the ability or desire of a Bidder to perform the Work of a
	41		Contract with its own organization does not relieve the Bidder of
	42		the responsibility to make Good Faith Efforts. Bidders are not,
	43		however, required to accept higher quotes from DBEs if the price
	44		difference is excessive or unreasonable.
	45		
	46	4	Not rejecting DBEs as being ungualified without sound reasons
	47	<u></u>	based on a thorough investigation of their capabilities. The Bidder's
	48		standing within its industry, membership in specific groups,
	49		organizations, or associations and political or social affiliations (for
	50		example union vs. non-union employee status) are not legitimate
	51		causes for the rejection or non-solicitation of bids in the Bidder's
	52		efforts to meet the DBE COA Goal.
1	~_		

	1	
	2 <u>5.</u>	Making efforts to assist interested DBEs in obtaining bonding, lines of
	3	credit, or insurance as required by the recipient or Bidder.
	4	Melving effects to essist interested DDEs in obtaining processory
	5 <u>6.</u>	Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
	7	
		Effectively using the convices of available minority/women community
	9 <u>1.</u>	Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and
	0	Federal minority/women business assistance offices; and other
	1	organizations as allowed on a case-by-case basis to provide
	2	assistance in the recruitment and placement of DBEs.
	3	assistance in the recruitment and placement of DDES.
	4 <u>8</u> .	GFE Documentation must include copies of each DBE and non-DBE
	5	subcontractor quotes submitted to the Bidder when a non-DBE
	6	subcontractor is selected over a DBE for Work on the Contract. (ref.
	7	updated DBE regulations - 26.53(b)(2)(vi) & App. A)
	8	
		strative Reconsideration of GFE Documentation
		r has the right to request reconsideration if the GFE Documentation
		ed with their Bid was determined to be inadequate or without merit. If,
		he life of the Contract, the Contractor submits an additional GFE
		entation and the Contracting Agency's GFE Documentation review
		nes a GFE Documentation is inadequate or has no merit, the Contractor
		e right to request reconsideration of the Contracting Agency's
	determir	
2	.8 1.	The Bidder must request reconsideration within 48 hours of
2	.9	notification of GFE Documentation being inadequate or without merit,
3	60	or the Bidder forfeits the right to reconsideration.
3	51	
3	2 <u>2</u>	The reconsideration decision on the adequacy or merit of the Bidder's
3	3	GFE Documentation shall be made by an official who did not take
3	34	part in the original determination.
3	5	
	6 <u>3</u>	Only original GFE Documentation submitted as a supplement to the
	37	Bid will be considered. The Bidder shall not introduce new
	8	documentation at the reconsideration hearing.
	9	
	-0 <u>4</u>	The Bidder shall have the opportunity to meet in person with the
	1	official for the purpose of setting forth the Bidder's position as to why
	-2	the GFE Documentation demonstrates a sufficient effort.
	.3	
	4 <u>5</u>	The reconsideration official shall provide the Bidder with a written
	.5	decision on reconsideration within five working days of the hearing
	-6	explaining the basis for their finding.
	7	
	-	ces of Non-Compliance
		of Contract
		ntract with a Contractor (and each subcontract the Contractor signs with
		ntractor) must include the following assurance clause:
5	52	

1 2 3 4 5 6 7 8	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:				
9	(1) Withholding monthly progress payments;				
10 11	(2) Assessing sanctions;				
12 13	(3) Liquidated damages; and/or				
14 15	(4) Disqualifying the Contractor from future bidding as non-responsible.				
16 17	Notice				
17 18 19 20 21 22	If the Contractor or any subcontractor, <u>of any tier, Consultant, Regular Dealer</u> , or <u>supplier</u> , service provider <u>s</u> , <u>or professional services</u> is deemed to be in non- compliance, the Contractor will be informed in writing, <u>by certified mail</u> 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				
23 24	state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.				
25					
26 27	Sanctions If it is determined that the Contractor's failure to meet all or part of the DBE COA				
28	Commitment is due to the Contractor's inadequate good faith efforts throughout the				
29	life of the Contract, including failure to submit timely, required Good Faith Efforts				
30	information and documentation, the Contractor may be required to pay DBE penalty				
31	equal to the amount of the unmet Commitment, in addition to the sanctions outlined				
32 33	in Section 1-07.11(5).				
34	Payment				
35	Compensation for all costs involved with complying with the conditions of this				
36	Specification and any other associated DBE requirements is included in payment for				
37	the associated Contract items of Work, except otherwise provided in the				
38	Specifications.				
39 40	1-07.11.OPT4.FR1				
41	(November 2, 2022)				
42	Special Training Provisions				
43	General Requirements				
44	The Contractor's equal employment opportunity, affirmative action program shall				
45	include the requirements set forth below. The Contractor shall provide on-the-job				
46	training aimed at developing trainees to journey-level status in the trades involved.				
47 48	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				
40 49	accomplish training as part of the work of a subcontractor, however, the Prime				
50	Contractor shall retain the responsibility for complying with these Special Provisions				
51	(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 nonminority 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
 - 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.
- 46
 47 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.

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2	For the purpose of this specification, acceptable training programs are those
3	employing trainees/apprentices registered with the following:
4	
5	1. Washington State Department of Labor & Industries — State
6	Apprenticeship Training Council (SATC) approved apprenticeship
7	agreement:
8	agroomont.
9	a. Pursuant to RCW 49.04.060, an apprenticeship agreement shall
10	
11	be;
	i en individual uwitten enveenent hetusen en enelever
12	i. an individual written agreement between an employer
13	and apprentice
14	ii. a written agreement between (an employer or an
15	association of employers) and an organization of
16	employees describing conditions of employment for
17	apprentices
18	iii. a written statement describing conditions of employment
19	for apprentices in a plant where there is no bona fide
20	employee organization.
21	
22	All such agreements shall conform to the basic standards and other
23	provisions of RCW Chapter 49.04.
24	
25	2. Apprentices must be registered with U.S. Department of Labor —
26	Apprenticeship Training, Employer, and Labor Services (ATELS) approved
27	program.
28	program.
29	Or
30	61
31	3. Non-ATELS/SATC programs that have been submitted to the Contracting
32	Agency for approval by the FHWA for the specific project.
33	Agency for approval by the PriveA for the specific project.
	Obligation to Broyida Information
34	Obligation to Provide Information
35	Upon starting a new trainee, the Contractor shall furnish the trainee a copy of the
36	approved program the Contractor will follow in providing the training. Upon
37	completion of the training, the Contractor shall provide the Contracting Agency with
38	a certification showing the type and length of training satisfactorily completed by each
39	trainee.
40	
41	Training Program Approval
42	The Training Program shall meet the following requirements:
43	
44	1. The Training Program (DOT Form 272-049) must be submitted to the
45	Engineer for approval prior to commencing contract work and shall be
46	resubmitted when modifications to the program occur.
47	
48	2. The minimum length and type of training for each classification will be as
49	established in the training program as approved by the Contracting Agency.
50	

1 2 3	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 5 6 7 8	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.
9 10 11 12	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).
13 14 15 16	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.
17 18 19 20 21 22 23	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.
24 25 26 27 28 29 30 31	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.
32 33 34 35 36 37 38	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:
30 39 40 41 42 43 44 45 46 47		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.
47 48 49 50 51 52	but can	ance vent that the Contractor is unable to accomplish the required training hours demonstrate a good faith effort to meet the requirements as specified, then tracting Agency will adjust the training goals accordingly.

1 Noncompliance and Sanctions

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2 When a contractor violates EEO provisions of the contract, the Contracting Agency 3 may impose damages in accordance with WSDOT's Equal Opportunity Compliance 4 Program and the FHWA 1273. These damages consist of additional administrative 5 costs including, but not limited to, the inspection, supervision, engineering, 6 compliance, and legal staff time and expenses necessary for investigating, reporting, 7 and correcting violations, as well as loss of federal funding, if any. Damages 8 attributable to a contractor's violations of the EEO provisions may be deducted from 9 progress payments due the Contractor. Before any money is withheld, the Contractor 10 will be provided with a notice of the basis of the violations, the amount to be withheld 11 and provided an opportunity to respond. The monetary value of the sanction will be 12 calculated on a case-by-case basis and based on the damages incurred by the 13 Contracting Agency. 14

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.

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:

47	CRAFT	HOURS
48	Laborer	4,000
49	Ironworker	6,000
50	Carpenter	5,200-8,000
51	Construction Electrician	8,000
52	Operating Engineer	6,000-8,000

1		Cement Mason Teamster	5,400				
2 3		Teamster	2,100				
4 5	5.	The method to be used for shall be stated.	or recording and reporting the training	ng completed			
6 7 8 9 10 11 12 13 14 15 16	be incre be made other so Reimbu be made	ntractor may request that th eased subject to approval by e even though the Contracto ources, provided such othe irsement to the Contractor fo		oursement will im funds from imbursement. usly may only			
17 18	2.	provides the instruction to	the trainee.				
19		F					
20	3.	pays the trainee's wages	during the off- site training period.				
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	payroll previous due this Contrac a trained of the invoice to appro the Eng A traine least 20	Reimbursement will be made upon receipt of a certified invoice that shows the repayroll number, the name of trainee, total hours trained under the propreviously paid hours under the contract, hours due this estimate, and dollar ar due this estimate. The certified invoice shall show a statement indicatin Contractor's effort to enroll minorities and women when a new enrollment occ a trainee is participating in a SATC/ATELS approved apprenticeship program, a of the certificate showing apprenticeship registration must accompany the invoice on which the individual appears. Reimbursement for training occurring to approval of the training program will be allowed if the Contractor verbally not the Engineer of this occurrence at the time the apprentice/trainee commences A trainee/apprentice, regardless of craft, must have worked on the contract least 20 hours to be eligible for reimbursement.					
37							
38 39 40 41	of appro	ntractor will be reimbursed oved training provided unde	under the item "Training" per hour the Contract.	for each hour			
42 43	1-07.11.OPT6.FF						
43 44 45 46 47 48 49 50 51	Women's E Genera The par are an i not crea	Veteran-Owned Busine Business Enterprises (A Il Statement ticipation of minority, small, important strategic objectiv	veteran-owned, and women busines e for the State of Washington. Cor opportunities for all businesses, inclu	ss enterprises tractors shall			

1 SVBE and MWBE Abbreviations and Definitions

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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).

- 8 **Commercially Useful Function (CUF)** A firm performs a commercially useful 9 function when it is responsible for execution of the work of the contract and is carrying 10 out its responsibilities by performing, managing, and supervising the work involved. 11 To perform a commercially useful function, the firm must also be responsible, with 12 respect to materials and supplies used on the contract, for ordering, negotiating price, 13 paying for, determining quality and quantity, and installing (where applicable) for the 14 material itself.
- 16 The SVBE or MWBE firm does not perform a CUF if its role is limited to that of an 17 extra participant in a transaction, contract, or Project through which the funds are 18 passed to obtain the appearance of SVBE or MWBE participation. 19
- 20 **Good Faith Efforts** Efforts to achieve either the SVBE Condition of Award (COA) 21 goals at the time of Bid or the SVBE Commitments in the SVB Plan at the completion 22 of the project. The efforts will demonstrate, by their scope, intensity, and 23 appropriateness to the objective, that the bidder can reasonably be expected to fulfill 24 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.
- 43 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

1 2 3	through the Washington State Department of Enterprise Services and listed as a "small, mini or micro business" in its certification.
4 5	Small businesses can be located by searching the directories at:
6 7	https://pr-webs-vendor.des.wa.gov/
8 9	Information on how to search the WEBS directories is located at:
10	https://www.des.wa.gov/services/contracting-purchasing/doing-business-
11 12	state/webs-registration-search-tips
12	SVBE COA Goals – At the time of bid, this is the minimum dollar amount of
14	participation that the Bidder must commit to by submission of the SVB Plan and/or
15 16	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
17	be met: one for Small Business Enterprises and one for Veteran-Owned Businesses.
18	The Contracting Agency has established the following two enforces allo COA Cooley
19 20	The Contracting Agency has established the following two enforceable COA Goals:
21	Small Business Enterprise (SBE) Goal *** \$\$1\$\$ ***
22 23	Veteran-Owned Business (VOB) Goal *** \$\$2\$\$ ***
23	SVBE Commitment – The dollar amount and scope of work the Bidder indicates on
25	each line of their Small and Veteran-Owned Business Plan (SVB Plan) (WSDOT
26 27	Form 226-018) for each SBE or VOB firm. These Commitments will be incorporated into the Contract and shall be considered Contract requirements.
28	
29	Subcontractor (SVBE or MWBE) – An individual, partnership, firm, corporation, or
30 31	joint venture who meet the definition of a Minority, Small Business, Women or Veteran-Owned Business and who is sublet part of the Contract.
32	
33	Supplier (SVBE or MWBE) – A firm that owns, operates, or maintains a store,
34 35	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
36	in the usual course of business. To be a Supplier, the SVBE or MWBE firm must be
37 38	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,
39	cement, gravel, stone, and petroleum products need not own, operate, or maintain a
40	place of business if it both owns and operates distribution equipment for the products.
41 42	Any supplementing of suppliers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers,
43	manufacturers' representatives, or other persons who arrange or expedite
44	transactions shall not be regarded as Suppliers within the meaning of this definition.
45 46	Veteran-Owned Business (VOB) - A veteran-owned business meeting the
47	requirements of RCW 43.60A.010 and listed at: https://pr-webs-vendor.des.wa.gov/.
48 49	Information on how to search the WEBS directories is located at:
49 50	
51	https://www.des.wa.gov/services/contracting-purchasing/doing-business-
52	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 total commitment between VOB and SBE to attain the SBE and VOB COA Goals.

SVB Plan

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Small and Veterans-Owned Business Plan. (SVB Plan). The SVB Plan shall be submitted on WSDOT Form 226-018. The Bidder's SVB Plan shall be submitted as specified in Section 1-02.9. The SVB Plan must clearly demonstrate how the Bidder intends to meet both the SBE and VOB COA Goals. An SVB Plan (WSDOT Form 226-018) and instructions on how to properly fill out the form are included in the Proposal package.

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 50% of the force account bid item amount.

39In the event of arithmetic errors in completing the SVB Plan, the amount listed40to be applied towards the SBE or VOB Goals for each SVBE firm shall govern41and the SVBE total amount shall be adjusted accordingly.

To be eligible for inclusion in the SVB Plan, SBE or VOB firms committed must be certified as described herein prior to the due date for bids on the Contract.

46 Written Confirmation

47 Prior to the award of the Contract and as specified in Section 1-02.9, the
48 Contractor shall submit Subcontractor Written Confirmation Form (WSDOT
49 Form 226-017) documentation from each SVBE firm listed on the SVB Plan
50 confirming their participation on the Contract for each amount listed in the SVB
51 Plan.
52

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1 2 3 4	Selection of Successful Bidder/Good Faith Efforts (GFE) The Contracting Agency will consider as non-responsive and will reject any Bid Proposal submitted that does not contain a properly completed SVB Plan that shows compliance with the SBE and VOB COA goals.
5 6 7	Compliance with the SVBE COA Goals requirements may be accomplished in one of two ways:
8 9 10 11 12 13	 By meeting the SVBE COA Goals Submission of the SVB Plan, showing the Bidder has obtained enough SBE or VOB participation to meet or exceed each of the SVBE COA Goals
13 14 15 16	2. By documentation that the Bidder made adequate GFE to meet the SVBE COA Goals
17 18 19 20	The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient SVBE participation have been unsuccessful. The Bidder must supply GFE documentation in addition to the SVB Plan.
21 22 23	GFE documentation shall be submitted as specified in Section 1-02.9.
24 25 26 27	Document Submittal Requirements The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate GFE.
28 29 30 31 32 33	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.
34 35 36 37 38	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:
39 40 41 42 43 44 45 46	 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.
47 48 49 50 51	2. 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

1 2 3		when the Bidder might otherwise prefer to perform these Work items with its own forces.
4 5 6 7	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.
7 8 9 10 11 12 13 14 15 16 17 18		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.
19 20 21 22 23 24 25 26 27 28 29 30 31		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 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.
32 33 34 35 36 37 38 39	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.
40 41 42	5.	Making efforts to assist interested SVBE firms in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
43 44 45	6.	Making efforts to assist interested SVBE firms in obtaining necessary equipment, supplies, materials, or related assistance or services.
46 47 48 49	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.
50 51	8.	Documentation of GFE must include copies of each SVBE and non- SVBE subcontractor quotes submitted to the Bidder when a non-

1 2	SVBE subcontractor is selected over a SVBE for Work on the Contract.
3	
4 5 6	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:
7	1 The Didden report require the AQ have a functification of heir r
8 9	 The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
10	
11	The reconsideration decision on the adequacy of the Bidder's GFE
12	documentation shall be made by an official who did not take part in
13	the original determination.
14	
15	3. Only original GFE documentation submitted as a supplement to the
16	Bid shall be considered. The Bidder shall not introduce new
17	documentation at the reconsideration hearing.
18	4 The Didden shall have the sum of with the most in more with the
19	4. The Bidder shall have the opportunity to meet in person with the
20	official for the purpose of setting forth the Bidder's position as to why
21	the GFE documentation demonstrates a sufficient effort.
22	E The reconcideration official shall provide the Didder with a written
23	5. The reconsideration official shall provide the Bidder with a written
24	decision on reconsideration within five working days of the hearing
25 26	explaining the basis for their finding and at least 48 hours prior to award.
26 27	awaru.
28	Procedures After Execution
20 29	MWBE Plan
30	The Contractor shall submit a MWBE Participation Plan as a Type 2 Working
31	Drawing within 21 days after execution. The plan shall include the information
32	identified in the guidelines at:
33	
34	https://wsdot.wa.gov/sites/default/files/2021-
35	10/OEOWSDOTParticpationPlanDraftingGuidelines.pdf
36	- to o Lotte Both and parent landrataning our dominion par
37	The Contractor shall submit an updated MWBE Participation Plan annually on
38	the date the original Participation Plan was submitted. The Contractor shall
39	provide a 30-calendar day review period for WSDOT review and comment on all
40	MWBE Participation Plan submittals.
41	
42	Commercially Useful Function (CUF)
43	For SVBE and MWBE subcontractor and lower tier subcontractors, a valid
44	subcontract must fully describe the Scope of Work committed to be performed
45	by the firm. The subcontract shall incorporate requirements of the Contract.
46	Subcontracts of all tiers, including lease agreements, shall be made available
47	upon request.
48	
49	The Contractor may only take credit for the payments made for work performed
50	by a SVBE or MWBE that is determined to be performing a CUF. Payment must
51	be commensurate with the work performed by the SVBE or MWBE. A SVBE or
52	MWBE that does not perform all of its responsibilities on a contract has not

1 2 3	performed a CUF and their work cannot be counted toward SVBE or MWBE Goals.
4 5 6 7	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.
8 9 10 11 12	For a SVBE or MWBE traffic control company to be considered to be performing a CUF, the firm must be in control of its work inclusive of supervision. The firm shall employ a Traffic Control Supervisor who is directly involved in the supervision of the traffic control employees and services.
12 13 14 15 16	Crediting Participation Participation will be evaluated to determine if the Contractor has met both the SVBE Commitments and MWBE Goals at completion of the project.
17 18 19	All non-COA SVBE firms and MWBE firms shall be certified before the subcontract on which they are participating is executed.
20 21 22 23 24	When a SVBE or MWBE firm loses its certification, the participation of that SVBE 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 the SVBE or MWBE firm lost its certification.
25 26 27 28 29 30 31 32	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.
33 34 35 36	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.
37 38 39 40 41 42 43	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.
44 45 46 47 48	SVBE Commitment Payments to each SBE or VOB firm shall demonstrate that the Commitments amounts have been met as shown on the SVB Plan.
48 49 50 51	Participation is credited to the SVBE Commitments upon payment to the SBE or VOB.

1	MWBE		
2			id to a MWBE will be credited to every MWBE Goal for which
3	they are	eelig	jible. Participation may be credited for more than one category.
4 5	Darticin	ation	n is credited to the MWBE Goals upon payment to the eligible
6	MWBE.		The credited to the WWDE Goals upon payment to the eligible
7			
8	Prime (Cont	tractor Credit for Participation (SVBE or MWBE)
9			redit for that portion of the Work performed that the SVBE or
10			ne Contractor did not sublet to other firms.
11			
12	Subcor	ntrad	ctor Credit for Participation
13	When t	he P	rime contractor, subcontractor or lower tier subcontractor are
14	part of a	a SV	B or MWBE Plan, the following apply:
15			
16	1.		Prime Contractor, subcontractor, or lower tier subcontractor
17			contracts a portion of the Work of its contract to another firm,
18			value of the subcontracted Work may be counted toward the
19		SBE	E or VOB Commitments based on the following conditions:
20			
21		а.	If a SBE Prime Contractor, subcontractor, or lower tier
22			subcontractor subcontracts to a SBE the value can count
23 24			toward the SBE Commitment.
24 25		b.	If a SBE Prime Contractor, subcontractor or lower tier
26		υ.	subcontractor subcontractor, subcontractor or lower tier subcontractor subcontracts to a non-SBE, the value cannot
27			count toward the SBE Commitment.
28			count toward the OBE Communent.
29		C.	If a VOB Prime Contractor, subcontractor, or lower tier
30			subcontractor subcontracts with a VOB the value can count
31			toward the VOB Commitment.
32			
33		d.	If a VOB Prime Contractor, subcontractor, or lower tier
34			subcontractor subcontracts with a non-VOB the value cannot
35			count toward the VOB Commitment.
36			
37		e.	Work subcontracted to a non-SVBE does not count towards
38			the SVBE Commitments.
39	0		Diversion of the state state of the second in the second state state
40	2.		Prime Contractor, subcontractor, or lower tier subcontractor
41 42			contracts a portion of the Work of its contract to another firm, value of the subcontracted Work may be counted toward the
42			/BE Goals based on the following conditions:
44		1010	DE Obais based on the following conditions.
45		а	Work subcontracted to a non-MWBE cannot be counted
46			toward the MWBE goals.
47			5
48		b.	Work subcontracted to another MWBE can be counted toward
49			every MWBE goal for which the firm holds a certification.
50			

1 2 3 4	 c. Work subcontracted by a MWBE firm who also is a SVBE, will be credited toward the SVBE Commitment as described in section 1.
5 6	d. Work subcontracted to a non-MWBE cannot be counted toward the MWBE goals.
7 8 9	Broker Credit for Participation When a SVBE or MWBE participates as a broker (i.e., arranging a
10	transaction or service but does not provide a work product or
11	enhancement), only the dollar value of the reasonable fee may count toward
12	the SVBE Commitments or MWBE Goals. For purposes of SVBE or MWBE
13	Brokers, a reasonable fee shall not exceed 5 percent of the total cost of the
14	goods or services brokered.
15	goodo of controlo biokorod.
16	Manufacturer and Supplier Credit for Participation
17	If materials or supplies are obtained from a SVBE or MWBE Manufacturer,
18	one hundred percent (100%) of the cost of materials or supplies can count
19	toward the SVBE Commitments or MWBE Goals.
20	
21	One hundred percent (100%) of the cost of materials or supplies purchased
22	from a SVBE or MWBE Supplier may be credited toward meeting the SVBE
23	Commitments or MWBE Goals. If the role of the SVBE or MWBE Supplier
24	is determined to be that of a pass-through, then no credit will be given for
25	its services. If the role of the SVBE or MWBE Supplier is determined to be
26	that of a Broker, then credit shall be limited to the fee or commission it
27	receives for its services, subject to the provision listed in "Broker Credit for
28	Participation."
29	
30	Force Account Work
31	One hundred percent (100%) of the actual amounts paid to a SVBE or
32	MWBE shall count toward the SVBE Commitments or MWBE Goals.
33	
34	Service Provider Credit for Participation
35	When a SVBE or MWBE participates as a service provider or consultant
36	and provides a bona fide service such as professional, technical,
37	consultant, or managerial services, 100% of the total cost counts toward the
38	SVBE Commitments or MWBE Goals if the firm performs a CUF.
39	
40	Trucking Credit for Participation
41	SVBE or MWBE trucking firm participation may only be credited as
42	participation for the value of the hauling services, not for the materials being
43	hauled unless the trucking firm is also certified as a supplier. In situations
44	where the firm's work is priced per ton, the value of the hauling service must
45	be calculated separately from the value of the materials in order to
46	determine credit for hauling.
47	
48	The SVBE or MWBE trucking firm must own and operate at least one
49	licensed, insured, and operational truck on the contract. The truck must be
50	of the type that is necessary to perform the hauling duties required under
51	the contract. The firm receives credit for the value of the transportation

1 2 3	services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.
4 5 6 7	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.
8 9 10 11 12 13	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.
14 15 16 17	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."
18 19 20 21 22 23 24	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.
25 26 27	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.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	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.
43 44 45 46 47 48 49 50 51	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.

1 2 3 4 5 6 7 8 9	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.				
10 11 12 13 14	The Cor (COA) fi (COA) fi	or Termination Intractor must have good cause to terminate a SVBE Commitment rm. Good cause includes situations where the SVBE Commitment rm is unable or unwilling to perform the work of its subcontract. Inuse may exist if:			
15 16 17 18	1.	The SVBE Commitment (COA) firm fails or refuses to execute a written contract.			
19 20 21 22	2.	The SVBE Commitment (COA) firm fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards.			
23 24 25	3.	The SVBE Commitment (COA) firm fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.			
26 4. 27	4.	The SVBE Commitment (COA) firm becomes bankrupt, insolvent, or exhibits credit unworthiness.			
28 29 30 31 32	5.	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.			
33 34 35	6.	The SVBE Commitment (COA) firm is ineligible to receive SVBE COA credit for the type of work involved.			
36 37	7.	The SVBE Commitment (COA) firm voluntarily withdraws from the project and provides written notice of its withdrawal.			
40 41 42 43 44 45	8.	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.			
46 47	Good ca	use does not exist if:			
48 49 50 51	1.	The Contractor seeks to terminate a SVBE Commitment (COA) firm so that the Contractor can self-perform the work.			

1 2 3 4	 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.
5 6 7 8 9 10 11	 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).
12 13 14 15 16 17 18	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.
19 20 21 22 23 24 25	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.
26 27 28 29 30 31	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 directly impacted the Commitment. The Contractor shall provide such documentation if requested by the Engineer.
32 33 34 35 36	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.
37 38 39 40 41	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.
42 43 44 45 46 47	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.
48 49 50 51 52	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.

1		
2	1.	The Contractor must request reconsideration within five (5) working
3		days of notification of GFE documentation being deemed inadequate.
4		
5 6 7	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.
8		
9	3.	Only original GFE documentation submitted shall be considered. The
10 11		Contractor shall not introduce new documentation at the reconsideration hearing.
12		
13	4.	The Contractor shall have the opportunity to meet in person with the
14 15		official for the purpose of setting forth the Contractor's position as to why the GFE documentation demonstrates a sufficient effort.
16	_	
17	5.	The reconsideration official shall provide the Contractor with a written
18		decision on reconsideration within five (5) working days of the
19		hearing, explaining the basis for their finding.
20		
21		es for Failure to Meet SVBE Requirements
22		ompletion of a project, a Prime Contractor Performance Report will
23		nt whether the Contractor met the Commitments in their SVB Plan or
24		ailure to meet the Commitments in the SVB Plan or provide an
25	accepta	ble GFE may lead to the following:
26	4	
27	1.	Suspension of a Contractor's prequalification; and/or
28 29	ი	Withholding from the Contractor of an amount up to the value of the
29 30	2.	Withholding from the Contractor of an amount up to the value of the un-met SBE or VOB Commitments
30 31		diffier SDE of VOD Communents
32	Failure f	to utilize the SVBE Commitment (COA) firms listed in the SVB Plan for
33		k for which they were listed, unless termination was approved in in
34		by the Contracting Agency, will be reflected on the Prime Contractor
35	-	ance Report.
36		
37	Paymer	nt
38	-	sation for all costs involved with complying with the conditions of this
39	•	Provision and any other associated SVBE or MWBE requirements are
40		I in payment for the associated Contract items of Work, except otherwise
41		d in the Specifications.
42	I	I
43	1-07.11.OPT7.FR1	
44	(October 3, 202	22)
45	•	, Business Enterprise Participation
46		nall Business Enterprise (FSBE) Program is an element of the
47		Business Enterprise (DBE) in accordance with the requirements of 49
48		Failure to comply with the requirements of this Specification may result
49		rovided by the Contract.
50		

1 **FSBE** Abbreviations and Definitions 2 **Broker** – A business firm that provides a bona fide service, such as professional, 3 technical, consultant or managerial services and assistance in the procurement 4 of essential personnel, facilities, equipment, materials, or supplies required for 5 the performance of the Contract; or, persons/companies who arrange or 6 expedite transactions. 7 8 Certified Business Description – Specific descriptions of work the FSBE is 9 certified to perform, as identified in the Certified Firm Directory, under the Vendor 10 Information page. 11 12 Certified Firm Directory - A database of all Minority, Women, and 13 Disadvantaged Business Enterprises, including those identified as a FSBE, 14 currently certified by Washington State. The on-line Directory is available to 15 Bidders for their use in identifying and soliciting interest from FSBE firms. The 16 database is located under the Firm Certification section of the Diversity 17 Management and Compliance System web page at: 18 https://omwbe.diversitycompliance.com. 19 20 Firms certified by OMWBE as SBE, DBE can be used to fulfill the FSBE 21 mandatory goal on a project. 22 23 Commercially Useful Function (CUF) - 49 CFR 26.55(c)(1) defines 24 commercially useful function as: "A DBE performs a commercially useful function 25 when it is responsible for execution of the work of the contract and is carrying 26 out its responsibilities by actually performing, managing, and supervising the 27 work involved. To perform a commercially useful function, the DBE must also be 28 responsible, with respect to materials and supplies used on the contract, for 29 negotiating price, determining quality and quantity, ordering the material, and 30 installing (where applicable) and paying for the material itself. To determine 31 whether a DBE is performing a commercially useful function, you must evaluate 32 the amount of work subcontracted, industry practices, whether the amount the 33 firm is to be paid under the contract is commensurate with the work it is actually 34 performing and the DBE credit claimed for its performance of the work, and other 35 relevant factors." 36 37 **FSBE** – A firm certified by OMWBE as meeting Federal requirements of a small 38 business enterprise. All firms on the OMWBE Certified Firm Directory with the 39 designation of SBE or DBE are FSBEs. 40 41 **Good Faith Efforts** – Efforts to achieve the FSBE Goal or other requirements 42 of this part which, by their scope, intensity, and appropriateness to the objective, 43 can reasonably be expected to fulfill the program requirement. 44 45 Manufacturer (FSBE) – A FSBE firm that operates or maintains a factory or 46 establishment that produces on the premises the materials, supplies, articles, or 47 equipment required under the Contract. A FSBE Manufacturer shall produce 48 finished goods or products from raw or unfinished material or purchase and 49 substantially alters goods and materials to make them suitable for construction 50 use before reselling them. 51

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.

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.

- 45 The supplies, materials, and equipment purchased or leased from the 46 Contractor or its affiliate, including any Contractor's resources available to FSBE 47 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

1 2	equipment is leased and used by the FSBE, but payment is deducted from the Contractor's payment to the FSBE is not allowed.
3 4 5	When the subcontractor is a FSBE, the following apply:
5 6 7 8 9	 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.
10 11 12	2. Work subcontracted to a non-FSBE does not count towards the FSBE Goal nor FSBE participation.
	ESPE Subcontract and Lower Tion Subcontract Documents
13	FSBE Subcontract and Lower Tier Subcontract Documents
14 15	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
16	FSBE.
17	
18	FSBE Service Provider
19	The value of fees or commissions charged by a FSBE firm behaving in a manner
20	of a Broker, or another service provider for providing a bona fide service, such
21	as professional, technical, consultant, managerial services, or for providing
22	bonds or insurance specifically required for the performance of the contract will
23	only be credited as FSBE participation, if the fee/commission is determined by
24	the Contracting Agency to be reasonable and the firm has performed a CUF.
25	
26	Temporary Traffic Control
27	If the FSBE firm is being utilized in the capacity of only "Flagging", the FSBE firm
28	must provide a Traffic Control Supervisor (TCS) and flagger, which are under
29	the direct control of the FSBE. The FSBE firm shall also provide all flagging
30	equipment (e.g. paddles, hard hats, and vests).
31	
32	If the FSBE firm is being utilized in the capacity of "Traffic Control Services", the
33	FSBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones,
34	barrels, signs, etc.) and be in total control of all items in implementing the traffic
35	control for the project.
36	
37	Trucking
38	FSBE trucking firm participation may only be credited as FSBE participation for
39	the value of the hauling services, not for the materials being hauled unless the
40	trucking firm is also certified as a supplier of those materials. In situations where
41	the FSBE's work is priced per ton, the value of the hauling service must be
42	calculated separately from the value of the materials in order to determine FSBE
43	credit for hauling
44	The FORE two line firms much sum and smooth at least and line and incomed
45	The FSBE trucking firm must own and operate at least one licensed, insured
46	and operational truck on the contract. The truck must be of the type that is
47	necessary to perform the hauling duties required under the contract. The FSBE
48	receives credit for the value of the transportation services it provides on the
49	Contract using trucks it owns or leases, licenses, insures, and operates with
50	drivers it employs.
51	

1 The FSBE may lease additional trucks from another FSBE firm. The FSBE who 2 leases additional trucks from another FSBE firm receives credit for the value of 3 the transportation services the lessee FSBE provides on the Contract. 4 5 The trucking Work subcontracted to any non-FSBE trucking firm will not receive 6 credit for Work done on the project. 7 8 The FSBE may lease trucks from a truck leasing company (recognized truck 9 rental center), but can only receive credit towards FSBE participation if the FSBE 10 uses its own employees as drivers. 11 12 FSBE Manufacturer and FSBE Regular Dealer 13 One hundred percent (100%) of the cost of the manufactured product obtained 14 from a FSBE manufacturer can count as FSBE participation. If the manufacturer 15 is a FSBE, participation may count towards the FSBE Goal. 16 17 Sixty percent (60%) of the cost of materials or supplies purchased from a FSBE 18 Regular Dealer may be credited as FSBE Participation. If the role of the FSBE 19 Regular Dealer is determined to be that of a Broker, then FSBE credit shall be 20 limited to the fee or commission it receives for its services. Regular Dealer 21 status and the amount of credit is determined on a Contract-by-Contract basis. 22 If the regular dealer is a FSBE, participation may count towards the FSBE Goal. 23 24 FSBE firms proposed to be used as a Regular Dealer must be approved before 25 being used on a project. The WSDOT Approved Regular Dealer list published 26 on WSDOT's Office of Equal Opportunity (OEO) web site must include the 27 specific project for which approval is being requested. For purposes of FSBE 28 Goal participation, the Regular Dealer must submit the Regular Dealer Status 29 Request form and receive approval prior to providing any equipment or materials 30 or the signing of a purchase order, invoice, or subcontract. 31 Purchase of materials or supplies from a FSBE which is neither a manufacturer 32 33 nor a regular dealer, (i.e. Broker) only the fees or commissions charged for 34 assistance in the procurement of the materials and supplies, or fees or 35 transportation charges for the delivery of materials or supplies required on a job 36 site, can count as FSBE participation provided the fees are not excessive as 37 compared with fees customarily allowed for similar services. Documentation will 38 be required to support the fee/commission charged by the FSBE. The cost of 39 the materials and supplies themselves cannot be counted toward as FSBE 40 participation. 41 42 **Good Faith Effort Documentation** 43 GFE is evaluated prior to Physical Completion when determining whether the 44 Contractor has satisfied its FSBE Goal. 45 46 The Contracting Agency will measure GFE using the guidance in 49 CFR Part 26, 47 Appendix A. The following is a list of the types of actions which may be considered 48 as part of the Contractor's GFE to achieve FSBE participation. It is not intended to 49 be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other 50 factors or types of efforts may be relevant in appropriate cases. 51

1 2 3 4 5 6 7	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.
8 9 10 11 12 13 14	2.	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.
15 16 17 18	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.
19 20 21 22 23 24 25 26 27 28 29		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.
23 30 31 32 33 34 35 36 37 38 39 40 41 42		b. 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 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.
43 44 45 46 47 48 49	4.	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. non- union employee status) are not legitimate causes for the rejection or non- solicitation of bids in the Contractor's efforts to meet the FSBE Goal.
50 51 52	5.	Made efforts to assist interested FSBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.

1 2 3	 Made efforts to assist interested FSBEs in supplies, materials, or related assistance o 	J
4 5 6 7 8 9	7. Effectively used the services of available organizations; minority/women contracto Federal minority/women business as organizations as allowed on a case-by-cas the recruitment and placement of FSBEs.	rs' groups; local, State, and sistance offices; and other
10 11 12 13	 Documentation of GFE must include copie subcontractor quotes submitted to the subcontractor is selected over a FSBE for the 	e Bidder when a non-FSBE
	edures after Execution	
15	Commercially Useful Function (CUF)	
16	The Contractor may only take credit for the payr	nents made for Work performed
17	by a FSBE that is determined to be perform	
18	ommensurate with the work actually performed	• •
19	SBEs performing Work on a project, if the Co	
20	or their participation. The Engineer will cond	Juct CUF reviews to ascertain
21	vhether FSBEs are performing a CUF. A FSI	3E performs a CUF when it is
22	arrying out its responsibilities of its contract by	actually performing, managing,
23	and supervising the Work involved. The FS	
24	negotiating price; determining quality and q	
25	nstalling (where applicable); and paying for the	
26	ot perform "all" of these functions on a furnisl	
27	performed a CUF and the cost of materials ca	
28	Goal. Leasing of equipment from a leasing of	
29	easing/purchasing equipment from the Con	
30	agreements shall be provided prior to the Sub	č č ,
31	ise of the Contractor's equipment by a FSBE m	hay not be credited as countable
32	participation.	
33	The FCPF does not perform a CLIF if its rel	a is limited to that of an avtra
34 35	The FSBE does not perform a CUF if its role	
36	participant in a transaction, contract, or project passed in order to obtain the appearance of FS	
37	assed in order to obtain the appearance of 1.5	
38	n order for a FSBE traffic control company to b	e considered to be performing a
39	CUF, the FSBE must be in control of its work inc	
40	shall employ a Traffic Control Supervisor w	•
41	nanagement and supervision of the traffic conti	
42		
43	he following are some of the factors that the I	Engineer will use in determining
44	vhether a FSBE trucking company is performin	• •
45	5 1 5 1	5
46	The FSBE shall be responsible for the	management and supervision
47	of the entire trucking operation for whi	e .
48	contract. The owner demonstrates bus	
49	shows up on site and is determined to	be actively running the
50	business.	
51		

1 2 3 4 5	 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.
6 7 8 9 10 11	 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.
12 13 14	 Leased trucks shall display the name and identification number of the FSBE.
15	Truck Unit Listing Log
16	In addition to the subcontracting requirements of Section 1-08.1, each FSBE
17 18	trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077) and
19	all Rental/Lease agreements (if applicable). The supplemental information shall
20	be submitted in an electronic format to the Engineer prior to any trucking
21	services being performed for FSBE credit. Incomplete or incorrect supplemental
22	information will be returned for correction. The corrected Primary Truck Unit
23	Listing Log and any Updated Primary Truck Unit Listing Logs shall be submitted
24 25	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
26	may result in trucks not being credited as FSBE participation.
27	
28	Each FSBE trucking firm shall complete a Daily Truck Unit Listing Log for each
29	day that the FSBE performs trucking services for FSBE credit. The Daily Truck
30	Unit Listing Log forms shall be submitted by Friday of the week after the Work
31	was performed by email to the following email address for the region
32 33	administering the Contract:
34	Eastern Region - ERRegionOEO@wsdot.wa.gov
35	North Central Region - NCRegionOEO@wsdot.wa.gov
36	Northwest Region - NWRegionOEO@wsdot.wa.gov
37	Olympic Region - ORegionOEO@wsdot.wa.gov
38	South Central Region - SCRegionOEO@wsdot.wa.gov
39	Southwest Region - SWRegionOEO@wsdot.wa.gov
40 41	Washington State Ferries - FerriesOEO@wsdot.wa.gov
42	Joint Checking
43	A joint check is a check between a subcontractor and the Contractor to the
44	supplier of materials/supplies. The check is issued by the Contractor as payer
45	to the subcontractor and the material supplier jointly for items to be incorporated
46	into the project. The FSBE must release the check to the supplier, while the
47 48	Contractor acts solely as the guarantor.
40	A joint check agreement must be approved by the Engineer and requested by
50	the FSBE involved using the DBE Joint Check Request Form (WSDOT Form
51	#272-053) prior to its use. The form must accompany the FSBE Joint Check

1 Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks. 3 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. 10 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. 11 Prompt Payment 13 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. 16 Prompt Payment 17 Prompt payment to all subcontractors shall be in accordance with Section 1-0.8.1. Prompt payment requirements apply to progress payments as well as return of retainage. 21 Subcontracts 23 Prior to a FSBE and the Contractor shall be submitted to the Engineer. The executed subcontract between the FSBE and the Contract. 24 subcontracts shall be submitted to the Engineer. The executed subcontract shall be submitted or the following email a address		
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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

10 Compensation for all costs involved with complying with the conditions of this 11 Specification and any other associated FSBE requirements is included in payment 12 for the associated Contract items of Work, except otherwise provided in the 13 Specifications.

1-07.11(2).GR1

Contractual Requirements

- 18 1-07.11(2).INST1.GR1
 - Section 1-07.11(2) is supplemented with the following:

21 1-07.11(2).OPT1.2025.GR1

- (January 24, 2024)
 - 11. The Contractor shall comply with the following nondiscrimination provisions, and the Contractor shall ensure the nondiscrimination provisions are included in all subcontracts:
 - a. <u>Nondiscrimination Requirement.</u> During the term of this Contract, the Contractor, including all subcontractors, shall not discriminate on the bases enumerated at RCW 49.60.530(3). In addition, the Contractor, including all subcontractors, shall give written notice of this nondiscrimination requirement to any labor organizations with which the Contractor, or subcontractor, has a collective bargaining or other agreement.
 - b. <u>Obligation to Cooperate.</u> The Contractor, including all subcontractors, shall cooperate and comply with any Washington state agency investigation regarding any allegation that the Contractor, including any subcontractor, has engaged in discrimination prohibited by this Contract pursuant to RCW 49.60.530(3).
- c. <u>Default.</u> Notwithstanding any provision to the contrary, the Contracting Agency may suspend the Contract in accordance with Section 1-08.6, upon notice of a failure to participate and cooperate with any state agency investigation into alleged discrimination prohibited by this Contract, pursuant to RCW 49.60.530(3). Any such suspension will remain in place until the Contracting Agency receives notification that Contractor, including any subcontractor, is cooperating with the investigating state agency. In the event the Contractor, or subcontractor, is determined to have engaged in discrimination identified at RCW 49.60.530(3), the Contracting Agency may terminate this Contract in whole or in part in accordance with Section 1-08.10(1), and in addition to the sanctions listed in Section 1-07.11(5), the Contractor, subcontractor, or both, may be referred for debarment as provided in RCW 39.26.200. The Contractor or subcontractor may be given

1 2 3	a reasonable time in which to cure this noncompliance, including implementing conditions consistent with any court-ordered injunctive relief or settlement agreement.
4	or settlement agreement.
5 6 7	d. <u>Remedies for Breach.</u> Notwithstanding any provision to the contrary, in the event of Contract termination or suspension for engaging in discrimination, the Contractor, subcontractor, or both, shall be liable for contract damages
8	as authorized by law including, but not limited to, any cost difference
9	between the original contract and the replacement or cover contract and all
10	administrative costs directly related to the replacement contract, which
11 12	damages are distinct from any penalties imposed under Chapter 49.60, RCW. The Contracting Agency shall have the right to deduct from any
13	monies due to Contractor or subcontractor, or that thereafter become due,
14	an amount for damages Contractor or subcontractor will owe Contracting
15	Agency for default under this Provision.
16	Agency for deladit ander this r rovision.
17	1-07.12.GR1
18	Federal Agency Inspection
19	
20	1-07.12.INST1.GR1
21	Section 1-07.12 is supplemented with the following:
22	
23	1-07.12.OPT1.GR1
24	(October 3, 2023)
25	Required Federal Aid Provisions
26	The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273)
27	Revised October 23, 2023 and the amendments thereto supersede any conflicting
28	provisions of the Standard Specifications and are made a part of this Contract; provided,
29	however, that if any of the provisions of FHWA 1273, as amended, are less restrictive
30	than Washington State Law, then the Washington State Law shall prevail.
31	
32	The provisions of FHWA 1273, as amended, included in this Contract require that the
33	Contractor insert the FHWA 1273 and amendments thereto in each subcontract, together
34	with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall
35 36	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.
37	The Contractor shall also ensure that this section, REQUIRED FEDERAL AID
38	PROVISIONS, is inserted in each subcontract for subcontractors and lower tier
39	subcontractors. For this purpose, upon request to the Engineer, the Contractor will be
40	provided with extra copies of the FHWA 1273, the amendments thereto, the applicable
41	wage rates, and this Special Provision.
42	
43	1-07.12.OPT2.FR1
44	(October 3, 2022)
45	Indian Preference and Tribal Ordinances
46	This project is located on the *** \$\$1\$\$ ***. It is the Contractor's responsibility to contact
47	the person and/or office listed in this special provision to determine whether any tribal
48	laws or taxes apply. If the tribal laws and taxes do apply, the Contractor shall comply with
49	them in accordance with Section 1-07.1. For informational purposes only, the Work on
50	this project that falls within Tribal Lands is shown on the Summary of Quantities in
51	Group(s) *** \$\$2\$\$ ***.
52	

1 Tribal Employment Rights Ordinances (TEROs) may utilize a variety of tools to encourage 2 Indian employment. These tools may include, but are not limited to, TERO fees, Indian 3 hiring preference, Indian-owned business subcontracting preference and/or an Indian 4 training requirement. Other requirements may be a Tribal business license, a required 5 compliance plan and/or employee registration requirements. Every tribe is different and 6 each may be willing to work cooperatively with the Contractor to develop a strategy that 7 works for both parties. For specific details, the Contractor should contact *** \$\$3\$\$ ***.

- 9 The state recognizes the sovereign authority of the tribe and supports the tribe's efforts 10 to enforce its rightful and legal ordinances and expects the Contractor to comply and 11 cooperate with the tribe. The costs related to such compliance shall be borne solely by 12 the Contractor, who is advised to contact the tribal representative listed above, prior to 13 submitting a bid, to assess the impact of compliance on the project. 14
- 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:

19 Work on or near Indian reservations --- It shall not be a violation of the equal 20 opportunity clause for a construction or non-construction Contractor to extend a 21 publicly announced preference in employment to Indians living on or near an Indian 22 reservation in connection with employment opportunities on or near an Indian 23 reservation. The use of the word *near* would include all that area where a person 24 seeking employment could reasonably be expected to commute to and from in the 25 course of a work day. Contractors or subcontractors extending such a preference 26 shall not, however, discriminate among Indians on the basis of religion, sex, or tribal 27 affiliation, and the use of such a preference shall not excuse a Contractor from 28 complying with the other requirements as contained in the August 25, 1981 29 Department of Labor, Office of Federal Contract Compliance Programs, Government 30 Contractors Affirmative Actions Requirements.

32 1-07.15.GR1

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33 **Temporary Water Pollution Prevention**

35 1-07.15(1).GR1

Spill Prevention, Control, and Countermeasures Plan

- 37 38 1-07.15(1).INST1.GR1
 - Section 1-07.15(1) is supplemented with the following:
- 40 41 1-07.15(1).OPT1.GR1
- 42 (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.
- 48
- 49 1-07.16.GR1

50 **Protection and Restoration of Property**

51

1 2 3	1-07.16(1).GR1 <i>Private/Public Property</i>
4 5	1-07.16(1)C.GR1 Private Property
6 7 8	1-07.16(1)C.INST1.GR1 Section 1-07.16(1)C is supplemented with the following:
9 10 11 12 13 14 15 16 17 18	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.
19 20 21 22 23 24 25	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.
26 27	1-07.16(2).GR1 Vegetation Protection and Restoration
28 29 30	1-07.16(2).INST1.GR1 Section 1-07.16(2) is supplemented with the following:
31 32 33 34 35 36 37 38 39	 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. Vegetation and soil protection zones for shrubs shall extend out from the stems at ground level to twice the radius of the shrub.
40 41	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.
42 43 44 45	1-07.16(4).GR1 Archaeological and Historical Objects
46 47 48	1-07.16(4).INST1.GR1 Section 1-07.16(4) is supplemented with the following:
49 50 51 52	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

1	from damage or destruction, the Contracting Agency, at its discretion and expense,
2	may monitor the Contractor's operations, conduct various site testing and perform
3	recovery and removal of such objects when necessary.
4	The Contractor many he negatived to conduct its encyclicus in a measure that will
5	The Contractor may be required to conduct its operations in a manner that will
6	accommodate such activities, including the reserving of portions of the work area for
7	site testing, exploratory operations and recovery and removal of such objects as
8	directed by the Engineer. If such activities are performed by consultants retained by
9	the Contracting Agency, the Contractor shall provide them adequate access to the
10 11	project site.
12	Added work personant to uncover ferrer dewater or otherwise protect or assist in
12	Added work necessary to uncover, fence, dewater, or otherwise protect or assist in
13 14	such testing, exploratory operations and salvaging of the objects as ordered by the
14	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
16	
17	work, any adjustment in time will be determined by the Engineer pursuant to Section 1-08.8.
18	1-00.0.
19	To provide a common basis for all bidders, the Contracting Agency has entered an
20	amount for the item "Archaeological and Historical Salvage" in the Proposal to
21	become a part of the total bid by the Contractor.
22	
23	1-07.17.GR1
24	Utilities and Similar Facilities
25	
26	1-07.17.INST1.GR1
27	Section 1-07.17 is supplemented with the following:
28	
29	1-07.17.OPT1.FR1
30	(April 2, 2007)
31	Locations and dimensions shown in the Plans for existing facilities are in accordance with
32	available information obtained without uncovering, measuring, or other verification.
33	
34	The following addresses and telephone numbers of utility companies known or suspected
35	of having facilities within the project limits are supplied for the Contractor's convenience:
36	
37	*** \$\$1\$\$ ***
38	
39	1-07.17.OPT2.FR1
40	(October 3, 2022)
41	Locations and dimensions shown in the Plans for existing facilities are in accordance with
42	available information obtained without uncovering, measuring, or other verification.
43	Dublic and private utilities, or their Contractors, will furnish all work personant to adjust
44	Public and private utilities, or their Contractors, will furnish all work necessary to adjust,
45 46	relocate, replace, or construct their facilities unless otherwise provided for in the Plans or
40 47	these Special Provisions. Such adjustment, relocation, replacement, or construction will
47 48	be done during the prosecution of the work for this project. It is anticipated that utility adjustment, relocation, replacement, or construction within the project limits will be
40 49	completed as follows:
49 50	
51	*** \$\$1\$\$ ***
52	ψψιψψ
52	

1 2 3 4	The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer, all affected subcontractors, and all utility owners and their Contractors prior to beginning onsite work.
5 6 7 8	The following addresses and telephone numbers of utility companies or their Contractors that will be adjusting, relocating, replacing or constructing utilities within the project limits are supplied for the Contractor's use:
9	*** \$\$2\$\$ ***
10 11 12	*** \$\$3\$\$ ***
13	1-07.18.GR1
14	Public Liability and Property Damage Insurance
15	
16	1-07.18(5).GR1
17 18	Required Insurance Policies
19	1-07.18(5).INST1.GR1
20	The first sentence of Item No. 1 of Section 1-07.18(5) is revised to read:
21	
22	1-07.18(5).OPT2.2025.GR1
23	(November 20, 2023)
24	1. Owners and Contractors Protective (OCP) Insurance providing bodily injury and
25	property damage liability coverage, with limits of \$3,000,000 per occurrence and
26 27	per project in the aggregate for each policy period, which shall be written solely on Insurance Services Office (ISO) form CG0009 1204, together with
28	Washington State Department of Transportation amendatory endorsement CG
29	2908 0999, specifying the Contracting Agency, the State, the Governor, the
30	Commission, the Secretary, the Department, and all officers and employees of
31	the State as named insured.
32	
33	1-07.18(5).OPT1.FR1
34	(November 20,2023)
35	1. Owners and Contractors Protective (OCP) Insurance providing bodily injury and
36	property damage liability coverage, with limits of *** \$\$1\$\$ *** per occurrence
37	and per project in the aggregate for each policy period, which will be written
38 39	solely on Insurance Services Office (ISO) form CG0009 1204, together with Washington State Department of Transportation amendatory endorsement CG
40	2908 0999, specifying the Contracting Agency, the State, the Governor, the
41	Commission, the Secretary, the Department and all officers and employees of
42	the State as named insured.
43	
44	1-07.18(5).OPT2.GR1
45	(September 7, 2021)
46	Item number 1 of Section 1-07.18(5) is deleted.
47	
48	1-07.18(5).INST2.GR1 The first contened of Item No. 2 of Section 1.07.18(5) is revised to read:
49 50	The first sentence of Item No. 2 of Section 1-07.18(5) is revised to read:
50 51	1-07.18(5).OPT3.GR1
52	(September 7, 2021)
	(september), <u></u>)/

1 2 3 4	2.	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.
5	1-07.18(5).C	
6 7	(Se 2.	ptember 7, 2021) Commercial General Liability (CGL) Insurance written under ISO Form CG0001
8	۷.	with minimum limits of *** \$\$1\$\$ *** per occurrence and in the aggregate for
9		each 1-year policy period.
10 11	1-07.18(5).IN	UST3 CP1
12		1-07.18(5) is supplemented with the following:
13		· · · · · · · · · · · · · · · · · · ·
14	1-07.18(5).C	
15 16		ctober 3, 2022) ilder's Risk Insurance
17		Ider's Risk Insurance providing Broad Perils (All Risk) coverage upon any work at
18		site, to the full insurable value thereof. This insurance shall include the
19 20		ntractor, its subcontractors of every tier, and the State of Washington as named ured on the policy. Coverage shall be included for all materials and supplies to be
20 21		proproted into the work at the jobsite, while in transit to the jobsite, or while stored
22		ay from the jobsite.
23		
24 25	1-07.18(5).C	vtober 3, 2022)
26	· ·	e Contractor shall obtain Contractor's Pollution Liability Insurance (CPL) with
27		imum "per project" limits of *** \$\$1\$\$ *** per occurrence and in the aggregate for
28 29		ms, including investigation, defense, or settlement costs and expenses for bodily ry and property damage (including natural resources damages and loss of use of
29 30		gible property that has not been physically injured) arising out of:
31		
32		a. Pollution conditions caused or made worse by the Contractor's
33 34		performance of the Work, including clean-up costs for a newly caused condition or a historical condition that is made worse; and;
35		
36		b. The vicarious liability of subcontractors of any tier.
37 38	The	e Contractor shall be Named Insured and the Contracting Agency, the State, the
39		vernor, the Commission, the Secretary, the Department, all officers and
40	em	ployees of the State, and their respective members, directors, officers,
41 42		ployees, agents, and consultants (collectively the "Additional Insureds") shall be
42 43		uded as Additional Insureds, or, as appropriate, a Named Insured, under this icy and coverage.
44		
45	1-07.23.GR1	
46 47	Public Con	ivenience and Safety
48	1-07.23(1).G	iR1
49	• • •	uction Under Traffic
50	4 07 00/4)	
51 52	1-07.23(1).IN Section	NST1.GR1 1-07.23(1) is supplemented with the following:
02	0001011	

1 2 3 4 5 6	1-07.23(1).OPT1.FB1 (March 13, 1995) During the hours that cleaning and painting operations are actually in progress, traffic may be restricted as follows:
7	*** \$\$1\$\$ ***
8 9 10 11 12 13	Whenever the Contractor's operations require lane reductions restricting the flow of traffic on multiple lanes in the same direction, the Contractor shall furnish, maintain, and operate a sequential arrow sign, for each lane closure, as specified in the Special Provision SEQUENTIAL ARROW SIGN .
14 15 16	If the Engineer determines that such lane restrictions are causing traffic congestion, the Contractor shall open all lanes to traffic until the congestion is eliminated.
17 18 19	For movable span structures, the Contractor's operations shall be arranged to permit the opening of the moveable span whenever required by marine traffic.
20	Bridge sidewalks shall be kept clear and open to maintain safe pedestrian traffic.
21	
22 23	1-07.23(1).OPT4.GR1 (December 6, 2004)
23 24	The portion of Section 1-07.16(1) that prohibits the merging of construction vehicles
25	with public traffic from an access gained through adjacent properties is rescinded,
26	provided the Contractor's submittal is approved as required below.
27	
28	Access for Construction
29	The Contractor may enter and leave the traveled way, auxiliary lanes or
30	shoulders at approved locations other than established legal movements. To
31	obtain approval of such an access location, the Contractor shall submit a request
32	to the Engineer. The Contractor's request shall be submitted to the Engineer at
33	least 30 calendar days prior to the time the use of the access will be required.
34 25	This submittal shall include a vicinity map indicating the interstate stationing at
35 36	the centerline of the access, distances from the end of ramp tapers of existing interchanges and a traffic control plan conforming with the requirements
36 37	specified in Section 1-10.2(2). The access shall meet the following
38	requirements:
39	roquiomono.
40	 Access to and from the worksite adjacent to a multi-lane facility will
41	only be allowed to and from a closed lane.
42	,
43	 The merging point of construction vehicles and public traffic shall
44 45	provide a Decision Sight Distance for the traveling public of 1,640 ft in urban areas and 1,360 ft in rural areas.
46	
47	 In urban areas the access shall not be located within 3,280 ft of the
48	end of a ramp taper, or the centerline of a road approach. In rural
49	areas the access shall not be located within 2,720 ft of the end of a
50	ramp taper or the centerline of a road approach.
51	

1	 Median crossings within 1.5 miles of the access point shall not be
2 3	used in conjunction with the access.
4 5 6	 No new median crossings shall be created for use in conjunction within 1.5 miles of the access point.
7 8 9 10	 Short-duration shoulder stops in the construction zone, utilizing light vehicles properly equipped with warning flashers, will be allowed without a lane closure.
11 12 13 14	 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.
15 16 17 18	 The continuity of the existing drainage system shall be maintained through the access site.
19 20 21	 Air borne particulates created as a result of using the access shall be effectively controlled.
22 23 24	 The access location shall not adversely affect wetlands or other sensitive areas.
24 25 26 27 28 29 30 31 32 33	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.
34	
35 36 37	1-07.23(1).OPT5.FR1 (February 6, 2023) Lane, ramp, shoulder, and roadway closures are subject to the following restrictions:
38 39	*** \$\$1\$\$ ***
40 41	If the Engineer determines the permitted closure hours adversely affect traffic, the
42 43 44 45 46 47	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.
48	Lane, ramp, shoulder, and roadway closures are not allowed on any of the following:
49 50 51	1. A holiday,

1 2 3 4	 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.
5 6	3. After *** \$\$2\$\$ *** on the day prior to a holiday or holiday weekend, and
7 8	4. Before *** \$\$3\$\$ *** on the day after the holiday or holiday weekend.
9 10	5. The two-hour period prior to and the two-hour period after the following special events:
11 12 13	*** \$\$4\$\$ ***
14 15	It shall be the Contractor's responsibility to obtain the dates and times of all events.
16	
17	Traffic Delays
18	When Automated Flagger Assistance Devices (AFADs) or flaggers are used to
19	control traffic, traffic shall not be stopped for more than *** \$\$5\$\$ *** minutes at any
20 21	time. All traffic congestion shall be allowed to clear before traffic is delayed again.
21	If the delay becomes greater than *** \$\$6\$\$ *** minutes, the Contractor shall
23	immediately begin to take action to cease the operations that are causing the delays.
24	If the *** \$\$7\$\$ *** minute delay limit has been exceeded, as determined by the
25	Engineer, the Contractor shall provide to the Engineer, a written proposal to revise
26	his work operations to meet the *** \$\$8\$\$ *** minute limit. This proposal shall be
20	accepted by the Engineer prior to resuming any work requiring traffic control.
28	
20	There shall be no delay to medical, fire, or other emergency vehicles. The Contractor
30	shall alert all flaggers and personnel of this requirement.
31	shall alert all haggers and personnel of this requirement.
32	General Restrictions
33	Construction vehicles using a closed traffic lane shall travel only in the normal
34	direction of traffic flow unless expressly allowed in an accepted traffic control plan.
35	Construction vehicles shall be equipped with flashing or rotating amber lights.
36	Construction vehicles shall be equipped with hashing of rotating amber lights.
37	No two consecutive on-ramps, off-ramps, or intersections shall be closed at the same
38	time and only one ramp at an interchange shall be closed, unless specifically shown
39	in the Plans.
40	
41	Roads or ramps that are designated as part of a detour shall not be closed or
42	restricted during the implementation of that detour, unless specifically shown in the
43	Plans.
44	
45	Controlled Access
46	No special access or egress shall be allowed by the Contractor other than normal
47	legal movements or as shown in the Plans.
48	
49	Contractor's vehicles of 10,000 GVW or greater shall not exit or enter a lane open to
50	public traffic except as follows:
51	· ·

1 2	Egress and ingress shall only occur during the hours of allowable lane closures, and:
3 4 5	1. For exiting an open lane of traffic, by decelerating in a lane that is closed during the allowable hours for lane closures.
6 7 8 9	 For entering an open lane of traffic, by accelerating in a closed lane during the allowable hours for lane closures.
9 10 11 12 13	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.
14	Advance Notification
15	The Contractor shall notify the Engineer in writing of any traffic impacts related to
16 16 17	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.
18	· - · · · F (· · · · ·) · · · · · · · · · · · · ·
19	The Contractor shall notify the Engineer in writing ten working days in advance of
20	any traffic impacts related to full roadway closure, ramp closure, or both.
21	
22	The Contractor shall notify the Engineer in writing of any changes to the stated traffic
23	impacts a minimum of 48 hours prior to the traffic impacts.
24	
25	1-07.23(1).OPT6.GR1
20	1-07.23(1).OF 10.GK1
26 26	(April 14, 2014)
26 27	
26 27 28	(April 14, 2014)
26 27 28 29	(April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following
26 27 28 29 30	(April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear
26 27 28 29 30 31	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear width of less than 16 feet for a duration that exceeds 4 calendar days without
26 27 28 29 30 31 32	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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
26 27 28 29 30 31 32 33	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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
26 27 28 29 30 31 32 33 34	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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
26 27 28 29 30 31 32 33 34 35	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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
26 27 28 29 30 31 32 33 34 35 36	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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:
26 27 28 29 30 31 32 33 34 35 36 37	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 1. Schedule showing the planned beginning date and end date of the
26 27 28 29 30 31 32 33 34 35 36 37 38	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 1. Schedule showing the planned beginning date and end date of the width reduction.
26 27 28 29 30 31 32 33 34 35 36 37 38 39	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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.
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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.
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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.
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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.
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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. The Engineer will reply, in writing, to the request within 7 calendar days. The
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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. 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
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	 (April 14, 2014) Physical reductions of the width of thru travelling lanes are subject to the following restrictions: The Contractor shall not reduce the travelled way to a single lane with a clear 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: 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. The Engineer will reply, in writing, to the request within 7 calendar days. The

1 2 3 4 5 6	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
7 8 9 10	sizes are shown in the Plans. The Contractor shall notify *** \$\$2\$\$ ***, in writing, a minimum of *** \$\$3\$\$ *** working days prior to each closure. The Contractor shall furnish copies of these
11 12 13 14 15	notifications to the Engineer. 1-07.23(1).OPT8.FR1 (October 3, 2022) Maintenance and Protection of Ferry Traffic
16 17 18 19	*** \$\$1\$\$ *** is a single-slip terminal. The slip must remain fully operational during all phases of construction. The Contractor shall not interfere with terminal or vessel operations of the slips such
20 21 22 23	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.
24 25 26 27 28 29	The Contractor shall promptly and diligently remove any equipment, workers, or materials from the traveled way and shall promptly and diligently move any vessels, 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.
30 31 32 33	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.
34 35 36 37 38	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.
39 40 41 42 43	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.
44 45 46	Temporary steel plates shall not be used on the vehicle or pedestrian traveled way in any location for more than three calendar days.
47 48 49 50	Payment All costs associated with maintenance and protection of traffic shall be incidental to and included in all other items of work.

1 2 3	1-07.23(1).OPT9.GR1 (October 3, 2022) Maintenance and Protection of Ferry Traffic
4 5 6 7 8 9 10 11 12 13 14	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.
15 16	in any location for more than three calendar days.
17 18 19 20	Payment All costs associated with maintenance and protection of traffic shall be incidental to and included in other items of work.
20	1-07.23(1).OPT10.GR1
22	(October 3, 2022 <u>September 3, 2024</u>)
23	If July 4 occurs on a Tuesday, the prior Monday and Friday are is considered to be
24	part of a holiday weekend. If July 4 occurs on a Thursday, the following Friday and
25	Monday are is considered to be part of a holiday weekend.
26	
27	1-07.24.GR1
28 29	Rights of Way
29 30	1-07.24.INST1.GR1
31	Section 1-07.24 is supplemented with the following:
32	occion 1-07.24 is supplemented with the following.
33	1-07.24.OPT1.FR1
34	(March 13, 1995)
35	The Contracting Agency has not completed the acquisition of title to the following
36	described property:
37	
38	*** \$\$1\$\$ ***
39	
40	The Contractor shall not perform any work within these limits until ordered to do so by the
41	Engineer. The Contracting Agency has estimated that the above described property will
42	be available *** \$\$2\$\$ ***.
43	
44	1-07.24.OPT2.GR1
45	(October 3, 2022)
46	Sundry Site Plan
47	The Sundry Site Plan is included in the Plans for the benefit of the Contractor. It is meant
48	to give a graphical representation of the properties in the vicinity of the project site.
49	
50	The Sundry Site Plan gives information necessary for locating Right-of-Way (R/W) lines,
51	construction permit boundaries and permanent or construction easements.
52	

1 2 3	Areas identified within R/W are made available to the Contractor for use as indicated in the Plans and Special Provisions.
3 4	1-07.28.GR1
4 5 6	Railroads
7	1-07.28.INST1.GR1
8	Section 1-07.28 is supplemented with the following:
9	ecolion i or zo io supplemented with the following.
10	1-07.28.OPT1.FR1
11	(October 3, 2022)
12	Additional Requirements for Working with the Railroad
13	The term Railroad Company shall be understood to mean each of the following railroad
14	companies:
15	
16	*** \$\$1\$\$ ***
17	
18	The Contractor shall keep the right of way and ditches of the Railroad Company open and
19	clean from any deposits or debris resulting from its operations. The Contractor shall be
20	responsible for the cost to clean and restore ballast of the Railroad Company which is
21	disturbed or becomes fouled with dirt or materials when such deposits or damage result
22	from the Contractor's operations, except as provided elsewhere.
23	The Ocustor step shall be an existential the Deliver of Ocusion and a second set on sections
24	The Contractor shall cooperate with the Railroad Company and so conduct operations
25 26	that the necessary reconstruction of its facilities and the removal of existing facilities can be accomplished without interruption of service.
20 27	be accomplished without interruption of service.
28	1-07.28.OPT2.FR1
29	(October 3, 2022)
30	The Contracting Agency has or will enter into an agreement with the Railroad Company
31	as specified in these provisions as contained in Appendix *** \$\$1\$\$ ***.
32	
33	1-07.28.OPT3.FR1
34	(October 3, 2022)
35	Construction Work by Railroad Company
36	The work by the Railroad Company as described below will be performed by the Railroad
37	Company with its own forces at no cost to the Contractor:
38	
39	*** \$\$1\$\$ ***
40	
41	1-07.28(1).GR1
42	General
43 44	1-07.28(1).INST1.GR1
44	Section 1-07.28(1) is supplemented with the following:
46	Occilon 1-07.20(1) is supplemented with the following.
47	1-07.28(1).OPT1.FR1
48	(October 3, 2022)
49	Contractor's Right of Entry Agreement
50	The Contractor shall obtain a Right of Entry Agreement from the railroad. For all
51	matters regarding the Contractor's Right of Entry Agreement, the Contractor shall
52	contact:

1	***
2	*** \$\$1\$\$ ***
3 4 5 6 7 8 9	The Contracting Agency has furnished a SAMPLE Contractor's Right of Entry Agreement in Appendix *** \$\$2\$\$ ***. The SAMPLE Contractor's Right of Entry Agreement is an example which represents the Contracting Agency's assessment of the likely terms and conditions prior to Advertisement for Bids. The final terms and conditions will be determined by the Railroad Company after Contract Execution.
10 11 12 13	The Contractor is at sole risk for the amount of time it takes to obtain the Right of Entry Agreement from the Railroad Company. Delays in obtaining the right of entry agreement shall not be eligible for a time extension or an equitable adjustment.
14	1-07.28(2).GR1
15	Submittals and Working Drawings
16	Submittals and Working Drawings
17	1-07.28(2).INST1.GR1
18	Section 1-07.28(2) is supplemented with the following:
19	
20	1-07.28(2).OPT1.FR1
21	(October 3, 2022)
22	The Engineer will require up to *** \$\$1\$\$ *** calendar days from the date a Working
23	Drawing is received until it is returned to the Contractor. If a submittal is returned
24	unapproved and then resubmitted, then an additional review time for each
25	subsequent resubmittal of up to *** \$\$2\$\$ *** calendar days will be required.
26	
27	1-07.28(6).GR1
28	Railroad Protective Services
29	
30	1-07.28(6).INST1.GR1
31	Section 1-07.28(6) is supplemented with the following:
32	
33	1-07.28(6).OPT1.FR1
34	(October 3, 2022)
35	The Contractor shall notify the Railroad Company a minimum of *** \$\$1\$\$ *** in
36	advance of whenever the Contractor is about to perform Work within Railroad
37	Company property or within 25 feet of the centerline of tracks to enable the Railroad
38	Company to provide flagging or other protective services.
39	
40	The Railroad Company's contact to schedule flagging or other protective services is:
41	*** ^^^^
42	*** \$\$2\$\$ ***
43	1 07 28(8) CP1
44	1-07.28(8).GR1
45 46	Measurement and Payment
46	1 07 20(0) INCT1 CD1
47 19	1-07.28(8).INST1.GR1
48	Section 1-07.28(8) is revised to read:
49 50	1 07 28(8) ODT1 CD1
50 51	1-07.28(8).OPT1.GR1 (October 3, 2022)
51	

1 2 3	The Cor unless:	ntracting Agency will make payments to the Railroad for protective services
4 5 6 7	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.
8 9 10 11	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.
12 13 14 15 16 17	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).
18 19 20	4.	The Contractor causes an emergency, as specified under Railroad Operations.
21 22 23	5.	Protective services are required as a result of a request to the Railroad Company for the Contractor's convenience.
24 25	6.	The Contract provides for a bid item in the Contract.
26 27 28 29	Contract	to comply with this Section, unless otherwise stated, are incidental to the t and are the responsibility of the Contractor. The Contractor shall include all costs in the unit Bid prices of the Contract.

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1 2	1-08.GR1 Prosecution and Progress		
3			
4 5	1-08.1.GR1 Subcontracting		
6 7 8	1-08.1.INST1.GR1 Section 1-08.1 is supplemented with the following:		
9 10 11 12 13 14 15 16 17 18	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 .		
19 20 21	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:		
22 23 24 25 26	 Request to Sublet Work (WSDOT Form 421-012), and Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (WSDOT Form 420-004). 		
27 28 29 30 31	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:		
32 33 34 35 36 37 38 39	Eastern Region – <u>ERegionOEO@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>		
40 41 42 43 44 45 46 47	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.		
47 48 49 50 51	1-08.1.OPT3.GR1 <i>(March 13, 1995)</i> <i>Qualifications of Building Contractor</i> If the Contractor is not prequalified for building construction or cannot demonstrate		

51 If the Contractor is not prequalified for building construction or cannot demonstrate 52 satisfactory experience in constructing the general type of building included in the project,

1 2	it will be mandatory that the building work be subcontracted to a firm which can meet one or both of these criteria.
3 4	1-08.1(7).GR1
5	Payments to Subcontractors and Lower-Tier Subcontractors
6 7 8 9	1-08.1(7)A.GR1 Payment Reporting
10 11	1-08.1(7)A.INST1.GR1 The first paragraph of Section 1-08.1(7)A is revised to read:
12	
13	1-08.1(7)A.OPT1.2025.GR1
14	(July 2, 2024)
15	The Contractor shall report the actual amounts paid to all firms that were used
16 17	as subcontractors of any tier, materials suppliers, manufacturers, regular dealers, or service providers on the Contract, including all Disadvantaged,
18	Minority, Small, Veteran, or Women's Business Enterprise firms. The following
19	do not need reported: (1) retail sales or services that are paid for at the time of
20	purchase; (2) payments to materials suppliers or manufacturers that are in
21	normal course of business. The Contractor shall report this information by
22	entering it into the Contracting Agency's Diversity Management and Compliance
23	System at: https://wsdot.diversitycompliance.com. Payments shall be reported
24	no later than the 20 th of the month for all payments made to firms during the
25 26	previous calendar month. For example, the Contractor shall enter all payments made to firms during the month of March into DMCS by April 20 th . Payments
27	shall be reported between execution of the Contract and the Contract
28	Completion Date. When no Work occurred or no payments were made for a firm,
29	the reported payment shall be zero.
30	
31	1-08.1(7)C.GR1
32 33	Subcontractor Retainage
33	1-08.1(7)C.INST1.GR1
35	The first sentence in the last paragraph of Section 1-08.1(7)C is revised to read:
36	
37	1-08.1(7)C.OPT1.2025.GR1
38	(February 13, 2024)
39	If the Contractor fails to comply with the requirements of this Section and the
40 41	first-tier subcontractor's retainage or retainage bond is wrongfully withheld, the Contractor will be subject to the actions described in Section 1-08.1(10).
41	
43	1-08.1(9).GR1
44	Required Subcontract Clauses
45	
46	1-08.1(9)B.GR1
47	Clauses Required in Subcontracts of All Tiers
48	
49	1-08.1(9)B.INST1.GR1 The accord paragraph of Section 1.09.1(0)P is supplemented with the following:
50 51	The second paragraph of Section 1-08.1(9)B is supplemented with the following:

1 2 3 4 5	1-08.1(9)B.OPT1.2025.GR1 (January 24, 2024) 16. 1-07.11 Requirements for Nondiscrimination Item 11 from Section 1- 07.11(2).
6 7 8	1-08.3.GR1 Progress Schedule
9 10 11	1-08.3(2).INST3.GR1 Section 1-08.3(2) is supplemented with the following:
12 13	1-08.3(2). NEW. GR1 <i>General Requirements</i>
14 15 16 17	1-08.3(2)B.GR1 Type B Progress Schedules
17 18 19 20	1-08.3(2)B.INST1.GR1 Section 1-08.3(2)B is supplemented with the following:
21 22 23 24	1-08.3(2)B.OPT1.FR1 (November 20, 2023) In addition to information required in Items 1 through 13, the Progress Schedule shall include the following milestones and/or activities:
25 26 27	*** \$\$1\$\$ ***
27 28 29 30	1-08.3(3).GR1 Schedule Updates
31 32 33	1-08.3(3).INST1.GR1 Section 1-08.3(3) is revised to read:
34 35 36 37 38	1-08.3(3).OPT1.GR1 (June 6, 2022) The Contractor shall submit an electronic copy of a Type C Schedule Update to the Engineer by the first business day of each month, starting the month after the Progress Schedule is accepted, or some other mutually agreed upon submittal time.
39 40 41	In addition to the other requirements of this Section, Schedule Updates shall reflect at least the following information:
42 43 44	 The actual duration and sequence of as-constructed work activities, including changed work.
45 46 47	2. Approved time extensions.
48 49 50	 Any construction delays or other conditions that affect the progress of the work.

1 2	4.	Any modifications to the as-planned sequence or duration of remaining activities, supplemented with a written narrative describing each change
2 3 4		and the reason for the change.
5 6 7	5.	The physical completion of all remaining work in the remaining contract time.
8 9 10	6.	Progress on partially completed activities shall be indicated using percent complete.
10 11 12 13		numbers on Schedule Updates shall be the same as the Progress Schedule, exception of deleted or added activities.
13 14 15 16 17 18	by assu on acti	lved requests for time extensions shall be reflected in the Schedule Update ming no time extension will be granted, and by showing the effects to follow- vities necessary to physically complete the project within the currently zed time for completion.
19	1-08.4.GR1	F M/o Ic
20 21	Prosecution of	IWORK
22	1-08.4.INST1.GF	
23 24	The first sentenc	e of Section 1-08.4 is revised to read:
24 25	1-08.4.OPT1.FR	1
26	(August 3, 2	
27		ctor shall commence onsite work on or before *** \$\$1\$\$ *** and shall notify
28 29	•	r in writing a minimum of 10 calendar days in advance of the date on which or intends to begin work.
30 31	1-08.4.OPT2.GR	1
32	(August 7, 2	
33		stor shall begin work no earlier than the begin work date stated in the written
34 35		ded by the Engineer. The Engineer will provide a minimum of 10 calendar notice for the date identified as the first working day.
36 37	1-08.4.OPT3.FR	1
38	(August 7, 2	
39 40		tor shall begin work no earlier than *** \$\$1\$\$ ***.
41	1-08.5.GR1	
42	Time for Comp	bletion
43 44		31
44 45	1-08.5.INST1.GF	aph of Section 1-08.5 is revised to read:
46		
47	1-08.5.OPT1.FR	
48	(August 7, 2	
49 50		ne shall begin on the date stated in the written notice provided to the
50 51	than *** \$\$2	In no case shall the beginning of contract time be prior to ***\$\$1\$\$*** or later \$\$ ***
52	αιατι ψψΖ	** .

1	1-08.5.OPT2.FR1
2	(August 7, 2006)
3	Contract time shall begin on the first working day. The first working day shall be *** \$\$1\$\$
4	***.
5	
6	1-08.5.INST2.GR1
7	Section 1-08.5 is supplemented with the following:
8	
9	1-08.5.OPT7.FR1
10	(March 13, 1995)
11	This project shall be physically completed within *** \$\$1\$\$ *** working days.
12	
13	1-08.5.OPT8.FR1
14	(March 13, 1995)
15	This project shall be physically completed in its entirety within *** \$\$1\$\$ *** working days
16	and the temporary traffic signal portion of the project shall be physically completed within
17	the first *** \$\$2\$\$ *** working days.
18	the mist $\psi \varphi Z \psi \psi$ working days.
19	1-08.5.OPT9.FR1
20	(December 4, 2006)
20	This project shall be physically completed within *** \$\$1\$\$ *** working days.
22	This project shall be physically completed within $\phi\phi + \phi\phi$ working days.
23	Contract time shall begin on the first working day the Contractor starts onsite work or ***
23	\$\$2\$\$ ***, whichever occurs first.
24 25	φορφφ , whichever occurs list.
26	1-08.5.OPT10.FR1
20	
	(March 13, 1995)
28	This project shall be physically completed within *** \$\$1\$\$ *** working days. Contract
29	time shall commence on the first working day:
30	1 Following 60 colonder days after contract executions or
31	1. Following 60 calendar days after contract execution; or,
32	2. That the Engineer and the Contractor error to start work often engineeral of
33	2. That the Engineer and the Contractor agree to start work after approval of
34	construction materials is obtained, whichever occurs first.
35	
36	The Contractor is allowed a maximum of 60 calendar days after execution of the contract
37	to obtain approvals for construction materials
38	
39	1-08.5.0PT11.FR1
40	(July 2, 2024)
41	Incentive for Early Completion
42	It is essential that the Contracting Agency has full and unrestricted use of the facilities at
43	the earliest possible time. As an incentive to the Contractor, the Contracting Agency will
44	pay the Contractor *** \$\$1\$\$ *** for each working day remaining in the contract after the
45	established *** \$\$2\$\$ *** Completion Date, but not to exceed an amount equal to ***
46	\$\$3\$\$ ***.
47	
48	The days eligible for the incentive will be calculated by subtracting the working days
49	elapsed through the date of *** \$\$4\$\$ *** completion from the total working days
50	established in the Special Provision TIME FOR COMPLETION.
51	

General Special Provisions Division 1-08 September 3, 2024 1 1-08.6.GR1

2 Suspension of Work

- 3 4 1-08.6.INST1.GR1
- 5 Section 1-08.6 is supplemented with the following:
- 6 7 1-08.6

1-08.6.OPT1.FR1

8 (January 3, 2017)

9 Contract time may be suspended for the HMA mix design evaluation report or for 10 procurement of critical materials (Procurement Suspension). In order to receive a 11 Procurement Suspension, the Contractor shall within 21 calendar days after execution by 12 the Contracting Agency, submit all HMA mix designs not already on the QPL according to 13 Section 5-04.2(1) or place purchase orders for all materials deemed critical by the 14 Contracting Agency for Physical Completion of the Contract. The Contractor shall provide 15 a copy of the completed WSDOT Form 350-042 indicating the date the mix design was 16 submitted, or copies of purchase orders for the critical materials. Such purchase orders 17 shall disclose the purchase order date and estimated delivery dates for such critical 18 material.

19 20 The Contracto

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\$\$ ***
- 28 29 30

31

32

33 34

35

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.
- 38 39 1-08.6.OPT2.FR1
- 40 (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 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.

48

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 1 days, then contract time will be suspended upon physical completion of all critical work 2 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.

10 1-08.9.GR1

11 Liquidated Damages

12

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13 1-08.9.INST1.GR1

14 Section 1-08.9 is supplemented with the following:

- 15
- 16 1-08.9.OPT1.NEW.FR1
- 17 (September 8, 2020)
- 18 Liquidated damages in the amount of *** \$\$1\$\$ *** per working day will be assessed for 19 failure to physically complete the Contract within the physical completion time specified.
- 20
- 21 1-08.9.OPT2.NEW.FR1
- 22 (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.

- 31 1-08.9.OPT3.NEW.FR1
- 32 (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.

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Accordingly, the Contractor agrees:

- 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	1-10.GR1 Temporary Traffic Control
5 4 5 6	1-10.1.GR1 General
7 8 9	1-10.1.INST1.GR1 Section 1-10.1 is supplemented with the following:
10 11 12 13 14	1-10.1.OPT1.FR1 (April 1, 2013) The Contracting Agency will provide the following labor, equipment and/or materials resources to the Contractor for use on the project.
14 15 16	*** \$\$1\$\$ ***
17 18 19 20	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.
20 21 22 23 24 25	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:
25 26 27	*** \$\$1\$\$ ***
28 29	There shall be no entitlement for any impacts for any reason as a result of WSP personnel.
30 31 32 33 34	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.
35 36 37 38 39 40 41	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.
42 43 44 45 46 47	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.
47 48 49 50 51	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.

1 2	1-10.1(1).GR1 <i>Materials</i>	
3 4 5	1-10.1(1).INST1. Section 1-10	GR1 0.1(1) is supplemented with the following:
6 7 8 9		GR1 Traffic Control Materials is supplemented with the following:
10 11 12 13	Automa	ry 10, 2022) ated Flagger Assistance Devices
14 15 16		ted Flagger Assistance Devices (AFADs) shall meet the requirements of the Red/Yellow Lens Automated Flagger Assistance Devices.
17 18 19 20 21 22 23	Tempor or the bl by Plas	OPT <mark>2</mark> 4.GR1 er 3, 2022) ary portable transverse rumble strips must be either the black RoadQuake 2 lack RoadQuake 2F Folding Temporary Portable Rumble Strip manufactured tic Safety Systems, Inc., all black Traffix Alert High Speed Rumble Strip ctured by Traffix Devices or an approved equal.
23 24 25	Devices	submitted for approval shall meet the following criteria:
26 27	1.	Length will be a minimum of 11 feet long.
28	2.	Width will be a minimum of 10 inches.
29 30	3.	Provides a bevel on leading edge.
31 32	4.	Weighs a minimum of 100 lbs.
33 34	5.	No greater than ¾-inch profile height.
35 36 37 38	6.	Flexible along the length of the strip to facilitate conformity to the road surface.
39 40 41	7.	Withstands temperatures 0 to 180 degrees Fahrenheit without degradation in deployment, use or safety.
42 43 44 45	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.
46	9.	Deemed safe by the manufacturer for use by motorcycles.
47 48 49 50 51		<u>.GR1</u> Arrow Signs 5.4 is supplemented with the following:

1	<u>1-10.1(1)(9-35.4).OPT1.GR1</u>
2	(September 3, 2024)
3	GPS and Remote Communications Requirements
4	Sequential Arrow Signs (Arrow Boards) on this project shall also have the following
5 6 7	communication abilities:
6	
	1. Arrow Boards capable of transmitting Work Zone Data Exchange (WZDx)
8	Specification compliant data feeds from the arrow board or the Arrow
9	Boards central server.
10	
11	2. Arrow Boards shall transmit its GPS coordinates (latitude and longitude)
12	with an accuracy of 30-foot diameter of its actual location.
13	
14	3. Arrow Boards shall transmit its GPS coordinates and display mode of
15	operation data to a compatible publicly accessible navigation app service.
16	
17	 Arrow Boards shall transmit status and location as follows:
18	
19	a. Mode change within 2 minutes.
20	
21	b. Location (if moved more than 500 feet) within 2 minutes.
22	
23	c. Health checks every 60 minutes.
24	
25	d. Current display mode posted on Board (e.g., left or right chevron,
26	arrow direction, four corner flash, etc.).
27	
28	e. Transport vs Display mode.
29	
30	1-10. <u>1</u> 3(<u>1</u> 3)(9-35.8).GR1
31	Vacant
32	Section 9-35.8 is revised to read:
33	
34	1-10.3 <u>1(1</u> 3)(9-35.8).OPT1.GR1
35	(April 1, 2019)
36	Radar Speed Display Sign
37	Radar Speed Display Signs (RSDS) shall consist of a fully self-contained see-
38	through trailer with power supply and an LED speed indicator display with a one-
39	direction radar. Above or below the display shall be the message "YOUR SPEED" or
40	"YOUR SPEED IS" in letters of 5 to 8 inches in height. The lowest portion of the
41	display shall be high enough to be visible over concrete barriers or safety drums and
42	a 36"x48" speed limit sign as shown on the approved traffic control plan shall be
43	mounted above the speed display.
44	
45	The radar speed measurement shall provide a minimum detection distance of 1000
46	ft. and have an accuracy of +/ - 1 mile per hour. The radar shall be mounted so
47	detection will function when located behind concrete barrier or drums.
48	
49	The numeric speed display range shall be 0 to 99 MPH with numerals of 18 inches
50	in height minimum, amber in color with a black background with automatic dimming
51	for nighttime operations.
52	

1 2 3 4 5 6	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 25 MPH over the posted speed shall not be displayed and speeds under 25 MPH shall not be displayed.
7 8 9	The unit shall have traffic data collection capabilities. Traffic data shall be collected and transmitted to the Engineer upon request.
10 11 12	1-10.1(2).GR1 Description
13 14 15	1-10.2.GR1 Traffic Control Management
16 17 18	1-10.2.INST1.GR1 Section 1-10.2 is supplemented with the following:
19 20 21 22 23 24 25	 1-10.2.OPT1.GR1 (November 2, 2022) Work Zone Safety Contingency Enhancements to improve the effectiveness of the accepted traffic control plans to increase the safety of the work zones shall be discussed on a weekly basis between the Contractor and the Contracting Agency. Enhancements shall be mutually agreed upon by the Contractor and Engineer prior to performing any Work to implement the enhancement.
26 27 28 29 30	Enhancements do not include the use of Uniformed Police Officers or WSP, address changes to the allowed work hour restrictions, or changes to the staging plans in the Contract (if applicable). If allowed by the Engineer, these items will be addressed in accordance with Section 1-04.4.
31 32 33 34	The Contractor shall be solely responsible for submitting any traffic control plan revision to implement the enhancement in accordance with Section 1-10.2(2).
34 35 36 37	1-10.2(1).GR1 <i>General</i>
38 39 40	1-10.2(1).INST1.GR1 Section 1-10.2(1) is supplemented with the following:
41 42 43 44	1-10.2(1).OPT1.GR1 (October 3, 2022) The Traffic Control Supervisor shall be certified by one of the following:
45 46 47 48 49 50	The Northwest Laborers-Employers Training Trust 27055 Ohio Ave. Kingston, WA 98346 (360) 297-3035 https://www.nwlett.edu
51 52	Evergreen Safety Council 12545 135 th Ave. NE

1	Kirkland, WA 98034-8709
2 3	1-800-521-0778
3 4	https://www.esc.org
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 17	https://www.integritysafety.com
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	
20 29	1-10.2(1).OPT2.GR1 (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	1-10.3.GR1
37	Traffic Control Labor, Procedures and Devices
38	
39 40	1-10.3.INST1.GR1
40 41	Section 1-10.3 is supplemented with the following:
42	1-10.3.OPT1.FR1
43	(May 20, 2020)
44	Contractor Provided Uniformed Police Officers
45	The Contractor shall provide, direct, and monitor Uniformed Police Officers having
46	jurisdiction to control traffic in accordance with the Plans. A uniformed police officer (UPO)
47	is a sworn police officer from a local law enforcement agency or a Washington State Patrol
48	officer. The UPO shall provide traffic control as shown in an accepted traffic control plan.
49	
50	The following contact information for potential service providers is supplied for the
51	Contractor's convenience:
52	

1	*** \$\$1\$\$ ***
1 2	φφ I φφ
2 3	1-10.3(3).GR1
4	Traffic Control Devices
5	
6 7	1-10.3(3).INST1.GR1 Section 1-10.3(3) is supplemented with the following:
8	Section 1-10.5(3) is supplemented with the following.
9	1-10.3(3).OPT1.GR1
10	(January 10, 2022)
11	Automated Flagger Assistance Devices
12 13	General Where shown on an accepted traffic control plan, the Contractor shall provide
13 14	Where shown on an accepted traffic control plan, the Contractor shall provide, operate and maintain AFADs.
15	operate and maintain Al AD3.
16	An AFAD is a self-contained, portable traffic control system that enables a
17	flagger to avoid standing on the roadway while still controlling road users
18	alternating through a single open lane.
19 20	AFAD Operation
20	Each AFAD shall be controlled only by a flagger who has been trained on the
22	operation of the AFADs by a manufacturer or supplier representative in addition
23	to the requirements in accordance with Section 1-10.3(1)A. The flagger shall be
24	positioned to visually see both the AFAD and approaching traffic. When this is
25	not feasible, digital alternatives are allowable. The flagger is prohibited from
26 27	leaving the AFAD unattended at any time while the AFAD is in operation and controlling traffic.
28	
29	If AFAD repairs are required, the Contractor shall control traffic with flaggers and
30	stop/slow paddles and the AFAD shall be repaired or replaced within 48 hours.
31	AFAD Logation and Use
32 33	AFAD Location and Use An AFAD shall only be used in situations where there is only one lane of
34	approaching traffic in the direction to be controlled. AFADs shall not be used
35	within 1500 feet of existing or temporary traffic signals. When used at night, the
36	AFAD location shall be illuminated in accordance with Section 1-10.3(1)A.
37	
38 39	The AFAD may be positioned up to the edge of the open travel lane without any
39 40	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
41	transverse channelization devices in advance when not within a closed lane or
42	shoulder.
43	
44	The "STOP HERE ON RED" R10-6 (24"x36", B/W) or R10-6a (24"x36", B/W)
45 46	sign may be attached to the AFAD below the Red/Yellow lens. The AFAD may
40 47	have a supplemental amber LED changeable message sign with minimum 10- inch characters attached to provide road users additional information, provided
48	it does not block any signal display or signage.
49	
50	The Engineer may order adjustments to the location as needed based on traffic
51	and field conditions. The Contractor shall avoid placing the AFAD within or
52	immediately following horizontal and/or vertical curves when feasible.

1								
2	Setup and Takedown							
3	During the setup and take down operation of the work area, the AFAD display							
4	shall be set to a yellow flash mode when the signal heads are deployed into							
5	normal operating position.							
6 7								
7	Except during setup prior to use and removal after use, the AFAD shall be							
8 9	removed from the work zone clear zone when not in use unless protected by							
	barrier or guardrail.							
10								
11	1-10.3(3).OPT2.GR1							
12	(January 2, 2018)							
13	Radar Speed Display Sign							
14	Where shown on an approved traffic control plan or where ordered by the Engineer,							
15	the Contractor shall provide, operate, and maintain radar speed display signs							
16	(RSDS). A RSDS shall be placed with a minimum of 4 ft. of lateral clearance to edge							
17	of a travelled lane and be delineated by channelization devices. The Contractor shall							
18	remove the RSDS from the clear zone when not in use unless protected by barrier							
19	or guardrail.							
20								
21	1-10.3(3).OPT3.FR1							
22	(April 15, 2024)							
23	Smart Work Zone System							
24	Where shown on an approved traffic control plan, the Contractor shall provide,							
25	operate, maintain, and remove a Smart Work Zone System. A Smart Work Zone							
26	System (SWZS) uses portable roadside sensor information to display real-time							
27	dynamic work zone traffic information and instructions to motorists on a series of							
28	Portable Changeable Message Signs (PCMSs) approaching a work zone.							
29								
30	The SWZS shall be capable of communicating three types of work zone traffic							
31	information:							
32								
33	1. Queue detection warning for slowed or queued traffic ahead.							
34								
35	2. Dynamic lane merge guidance to use all open lanes up to the lane closure							
36	tapers and zipper merge instructions during times of congestion.							
37							
38	3. Work zone travel delay for current work zone delays in minutes.							
39								
40	In locations with multiple SWZS setups each setup shall be capable of operating							
41	independently. One SWZS Technician may operate all systems concurrently.							
42								
43	Vendor							
44	The Contractor shall select an independent vendor listed below to provide the SWZS							
45	as shown on an approved SWZS Plan:							
46								
47	Highway Specialties LLC							
48	Phone: (360) 437-1900							
49 50	Website: https://www.highwayspecialties.com							
50	Hill and Smith Inc.							
51 52	Hill and Smith Inc.							
52	Phone: (302) 328-3220							

1	Website: https://www.hillandsmith.com/portfolio_category/its-smart-work-zone/
2	
3	ICONE by ICONE Products
4	Phone: (315) 626-6800
5	Website: http://iconeproducts.com/
6	
7	Road-Tech Safety Services, Inc.
8	Phone: (888) 762-3832
9	Website: https://www.road-tech.com/
10	
11	SolarTech
12	Phone: (610) 391-8600
13	Website: http://solartechnology.com/
14	Traballer International Contraction of Contraction
15	Street Smart
16	Phone: (888) 653-6800
17	Website: https://www.streetsmartrental.com/smart-work-zones/
18	
19	Supariar Traffic Sarvicas
	Superior Traffic Services
20	Phone: (888) 928-5999
21	https://www.superiortrafficservices.com/
22	
23	
24	Phone: (888) 488-7446
25	Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones
26	
27	WANCO
28	Phone: (800) 972-0755
29	Website: https://www.wanco.com
30	
31	Devices and Communications
32	The Contractor and/or Vendor shall provide all devices necessary to operate the
33	system in accordance with the accepted traffic control plans and these specifications.
34	
35	The traffic sensors shown in the traffic control plans in advance of lane closure tapers
36	are used to operate the SWZS by detecting vehicle speed approaching the lane
37	closures, where queuing is expected. Typically, these traffic sensors use Doppler
38	radar technology.
39	
40	Separate side-fire traffic sensor(s), Wavetronix SmartSensor HD or similar accepted
41	by the Engineer, shall be post-mounted or trailer-mounted to obtain traffic
42	volume/speed data where shown in the traffic control plans. If not shown, then the
43	side-fire traffic sensor shall be placed after the final lane closure taper but before
44	lanes are reopened or any open on-ramps to measure the following:
45	and are reopened of any open of ramps to measure the following.
46	1. Traffic volume, in vehicles per hour per open lane
40	
48	2. Speed – time graph used to determine the median & 85th percentile speed
40 49	
	in each open lane
50 51	The Contractor shall use and releasts as peaceasty side firs traffic senser(s) at
51 52	The Contractor shall use and relocate as necessary side-fire traffic sensor(s) at
52	locations compatible with lane closures. As an alternative, multiple side-fire traffic

1 2	sensors can be used throughout the project limits provide the traffic volume/speed data remains accurate.						
3							
4 5	A vendor website or other wireless remote system is required for monitoring SWZS functions and remote management of PCMS messages.						
6							
7	Technici						
8	The Vendor shall provide a technician skilled in the operation of all system equipme						
9			The technician may be an employee of the Vendor or someone trained				
10			d by the Vendor to operate the system. The technician shall be				
11			of the Contractor and Traffic Control Supervisor but shall collaborate				
12			e as appropriate. The technician shall be on site while the SWZS is in				
13	use and a	se and able to respond to system issues in person.					
14							
15 16	Duties of	the T	echnician include, but are not limited to, the following:				
17	1.	Prog	ram the automated, real-time operation of the SWZS with traffic sensor				
18			er speed thresholds and PCMS messages shown on the approved				
19			S Plan.				
20		0002	o rian.				
21	2.	Servi	ce, debug, troubleshoot, and maintain all SWZS components.				
22							
23	3.	Main	tain SWZS equipment maintenance logs.				
24							
25	4.	Colle	ct and process system data and provide data as described below:				
26							
27		а. 3	System Data – System data shall include:				
28		-	_ . . .				
29		I	. Data in table format of traffic volume (vehicles per hour per each				
30		open lane), 50th-percentile traffic speed of all open lanes, and					
31		85th-percentile traffic speed of all open lanes for 15-minute					
32		intervals organized by Day and Hour of day for each SWZS implementation measured by the side-fire traffic sensor.					
33 34			Implementation measured by the side-life traffic sensor.				
34 35		;	i. Day and Hour of day each traffic sensor was triggered, and the				
36		I	 Day and Hour of day each traffic sensor was triggered, and the message displayed on each PCMS while the SWZS is in use. 				
37							
38		b. /	Agency Access to System Data – Provide password protected				
39			access to the Engineer and identified Agency personnel to the				
40			System Data via a dedicated website or other wireless remote				
41			system.				
42			,				
43		c. I	Provide System Data to Agency – At the completion of the Project,				
44			provide System Data logs in an electronic format approved by the				
45		-	Engineer				
46							
47	5.	Imme	ediately respond to all system failures in accordance with the Smart				
48		Work Zone System Failure Protocol section of these Specifications.					
49							
50	Operatio						
51	Operate	the S	WZS according to the following:				
52							

1 2 3 4	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:				
5	*** \$\$1\$\$ ***				
6 7 8 9 10	Installation, Relocation, Removal, and Storage The Contractor shall store, install, relocate, and remove all the SWZS components as follows:				
10 11 12 13	1. Install all components with the SWZS Technician's concurrence at least 30 minutes prior to commencing the first lane closure				
14 15 16	2. Relocate components as necessary with the SWZS Technician's concurrence				
17 18 19	 Assist the Technician as needed when the Smart Work Zone System Failure Protocol occurs 				
20 21 22 23	 Remove all components within the Work Zone Clear Zone within 60 minutes when no longer required unless components are placed behind guardrail or barrier. 				
24 25 26	Initial SWZS Turn-On Meeting The Contractor shall arrange a meeting at least one week before the initial system turn-on.				
27 28 29 30	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.				
31 32 33	During this meeting, the following topics should be discussed at a minimum:				
34 35 36	 Provide and review the approved traffic control plans, including lane closure plans and the associated SWZS plan that will be used. 				
37 38	2. Review roles and responsibilities for implementation of the SWZS.				
39 40	3. Provide contact information for critical personnel.				
41 42 43	 Provide a schedule of the anticipated operation times, dates and durations for the initial operation. 				
44 45 46	 Review Measurement and Payment for duties related to SWZS installation, operation, and removal. 				
40	SWZS Operation Coordination and Collaboration				
48	The Contractor shall notify the Engineer at least 72 hours in advance of using				
49 50 51	the SWZS including providing a schedule of the anticipated operation times, dates and durations for each subsequent operation.				

1 2	The Contractor's Traffic Control Management shall coordinate and collaborate as needed for the successful implementation of the SWZS and associated lane						
3		closures. Any delays and associated costs due to implementing the SWZS shall					
4		be at the Contractor's expense.					
5							
6	Smart Work Zone System Failure Protocol						
7	In the event of a failure, perform the following protocol:						
8							
9	1.	SWZS Technician - Upon discovery of the malfunction, perform the					
10		following:					
11		· · · · · · · · · · · · · · · · · · ·					
12		a. Immediately notify Contractor Traffic Control Management.					
13							
14		b. Begin troubleshooting the SWZS to address the malfunction.					
15							
16		c. If the malfunction is not resolved within 15 minutes, notify Contractor					
17		Traffic Control Management. The SWZS shall be taken out of service					
18		and repaired within 12 hours of the malfunction.					
19							
20	2.	Contractor Traffic Management – After receiving the initial notification of					
21		the malfunction, perform the following:					
22		are mananeden, perform the following.					
23		a. Notify the Traffic Control Supervisor.					
24							
25		b. Prepare crews to immediately implement the Emergency PCMS					
26		Implementation if the malfunction is not resolved within 15 minutes.					
27							
28		c. Notify the Engineer of the malfunction and failure protocol status.					
29							
30		d. Collaborate with SWZS Technician to provide replacement parts					
31		needed to make repairs to the SWZS within 12 hours of the system or					
32		a system component malfunction.					
33							
34	3.	Emergency PCMS Implementation - If the SWZS Technician has not					
35	•	resolved the issue within 15 minutes, perform following failure protocol:					
36							
37		a. Install two PCMSs as described below until the SWZS is repaired,					
38		functioning properly, and back in service or until all lane closures					
39		have been reopened. The PCMSs may be from the SWZS if needed.					
40							
41		i. PCMS #1: Maintain positioned 0.5 ± mile in advance of traffic					
42		queue, relocated as necessary, except when no traffic queue is					
43		present. PCMS #1 may be truck-mounted.					
44		procent. I onie # may be track meaned.					
		Phase 1 Phase 2					
		SLOW OR NEXT					
		STOPPED #					
		TRAFFIC MILES					
		Where "#" is the approximate queue length					
		rounded up to the nearest mile					

rounded up to the nearest mile

1 2 3 4 5 6 7 8	 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".
9	1-10.3(3).OPT4.FR1
10	(April 15, 2024)
11	Queue Warning System
12	Where shown on an accepted traffic control plan, the Contractor shall provide,
13	operate, maintain, and remove a Queue Warning System. A Queue Warning System
14	(QWS) uses portable roadside sensor information to display real-time traffic queue
15	information to motorists on Portable Changeable Message Signs (PCMS)
16	approaching a work zone. QWS is a simplified smart work zone system intended for
17	work zone queues up to 2 miles, measured from the first lane closure taper, but may
18	be modified for queuing up to 3 miles by extending spacing between the two PCMSs
19	from $1\pm$ mile to $1.5\pm$ mile spacing and adjusting the PCMS messages. Traffic sensor
20	placement remains unchanged.
21	The OMO shall be conclude of communication two two of works are traffic
22	The QWS shall be capable of communicating two types of work zone traffic information:
23 24	
24 25	1. Queue detection warning for slowed or queued traffic ahead.
26	
27	2. Dynamic lane merge guidance to use all open lanes up to the lane closure
28	tapers and to take turns at merges during times of congestion.
29	
30	In locations with multiple QWS setups each setup shall be capable of operating
31	independently. One QWS Technician may operate all systems concurrently.
32	
33	Vendors
34 25	The Contractor shall select an independent vendor listed below to provide a QWS as
35 36	shown on an accepted traffic control plan:
30 37	Highway Specialties LLC
38	Phone: (360) 437-1900
39	Website: https://www.highwayspecialties.com
40	
41	Hill and Smith Inc.
42	Phone: (302) 328-3220
43	Website: https://www.hillandsmith.com/portfolio_category/its-smart-work-zone/
44	
45	ICONE by ICONE Products
46	Phone: (315) 626-6800
47	Website: <u>http://iconeproducts.com/</u>
48 40	Pood Took Safaty Sanvisoo Inc
49 50	Road-Tech Safety Services, Inc. Phone: (888) 762-3832
50 51	Website: https://www.road-tech.com/
52	hobolo. https://www.iodu.com.com/

1	SolarTech
2	Phone: (610) 391-8600
3	Website: http://solartechnology.com/
4	
5	Street Smart
6	
	Phone: (888) 653-6800
7	Website: https://www.streetsmartrental.com/smart-work-zones/
8	
9	Superior Traffic Services
10	Phone: (888) 928-5999
11	Website: https://www.superiortrafficservices.com
12	
13	Ver-Mac
14	Phone: (888) 488-7446
15	Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones
16	
17	WANCO
18	Phone: (800) 972-0755
19	Website: https://www.wanco.com
20	Website. <u>https://www.waneo.com</u>
	Devices and Communications
21	Devices and Communications
22	The Contractor and/or Vendor shall provide all devices necessary to operate the
23	system in accordance with the accepted traffic control plans and these specifications.
24	
25	The traffic sensors shown in the traffic control plans in advance of lane closure tapers
26	are used to operate the SWZS by detecting vehicle speed approaching the lane
27	closures, where queuing is expected. Typically, these traffic sensors use Doppler
28	radar technology.
29	
30	A vendor website or other wireless remote system is required for monitoring QWS
31	functions and remote management of PCMS messages.
32	
33	Technician
34	The Vendor shall provide a technician skilled in the operation of all system equipment
35	and software. The technician may be an employee of the Vendor or someone trained
36	and authorized by the Vendor to operate the system. The technician may be
37	Contractor or subcontractor personnel, including the Traffic Control Supervisor. The
38	technician is not required be on site while the QWS is in use but must be able to
	•
39	respond to any system issues remotely.
40	
41	Duties of the Technician or trained traffic control personnel include, but are not limited
42	to, the following:
43	
44	1. Program the automated, real-time operation of the QWS with traffic sensor
45	trigger speed thresholds and PCMS messages shown on the accepted
46	traffic control plan or in these Specifications.
47	
48	2. Service, debug, troubleshoot, and maintain all QWS components.
49	
50	3. Maintain QWS equipment maintenance logs.
51	

1 2	 Immediately respond to all system failures in accordance with the Queue Warning System Failure Protocol section of these Specifications. 						
3							
4	Operation						
5	Operate the QWS according to the following:						
6							
7	Scheduled Use						
8	Use the QWS on the following roadway(s), locations, and work operations:						
9							
10	*** \$\$1\$\$ ***						
11	** ***						
12	Installation, Relocation, Removal, and Storage						
13	The Contractor or subcontractor shall store, install, relocate, and remove all the						
14	QWS components as follows:						
15							
16	1 Install all OWS components with the OWS Technician's consurrance						
	1. Install all QWS components with the QWS Technician's concurrence						
17	prior to commencing the first lane closure.						
18							
19	Relocate components as necessary with the QWS Technician's						
20	concurrence.						
21							
22	Assist the Technician as needed when the Queue Warning System						
23	Failure Protocol occurs.						
24							
25	Remove all components within the Work Zone Clear Zone when no						
26	longer required unless components are placed behind guardrail or						
27	barrier.						
28							
29	QWS Operation Coordination and Collaboration						
30	The Contractor shall notify the Engineer at least 72 hours in advance of using						
31	the QWS including providing a schedule of the anticipated operation times,						
32	dates and durations for each subsequent operation.						
33							
34	The Contractor's Traffic Control Management shall coordinate and collaborate						
35	as needed for the successful implementation of the QWS and associated lane						
36	closures. Any delays and associated costs due to implementing the QWS shall						
37	be at the Contractor's expense.						
38	pe at the Contractor's expense.						
30 39	Queue Warning System Failure Protocol						
40	In the event of a failure that is not resolved within 15 minutes, reprogram QWS						
41	PCMSs to display the following message for the remainder of the Scheduled Use						
42	duration:						
43							
	PCMS 1 PCMS 2						
	Phase 1 Phase 2 Phase 1 Phase 2						
	WATCH NEXT (Lane) 1						

FV		FUNC	2
Phase 1	Phase 2	Phase 1	<u>Phase 2</u>
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

PCMS 1 placed 2± miles from first lane closure taper

PCMS 2 placed 1± mile from first lane closure taper

(Lane Closure Description)	message is	similar to L	EFT LANE	CLOSED or LEF	-T 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
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

10 11 1-10.3(3).OPT5.GR1

7

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24 25

26

27 28

29

32

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38

- 12 (October 3, 2022)
- 13 Temporary Portable Transverse Rumble Strips
- Where shown on a traffic control plan, the Contractor shall provide, install, and
 maintain temporary portable transverse rumble strips.
- Temporary portable transverse rumble strips may be used on two-way, two-lane
 roadways in conditions requiring traffic to stop.
- 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.
 - The Contractor shall remove the temporary portable transverse rumble strips in their entirety when they are no longer needed.
 - All damage caused by removing temporary portable transverse rumble strips shall be repaired by the Contractor at no additional cost to the Contracting Agency.

30 31 1-10.3(3)A.GR1

Construction Signs

33 34 1-10.3(3)A.INST1.GR1

The third paragraph of Section 1-10.3(3)A is revised to read:

- 36 37 1-10.3(3)A.OPT1.2025.GR1
 - (February 13, 2024)

39All signs that conflict with the current traffic configuration or the current sign40configuration shall either be removed or completely covered in accordance with41Section 8-21.3(3). If coverings are in place for 7 calendar days or less, in lieu of42Section 8-21.3(3), the signs may be covered in accordance with the following43requirements:

1	
2	1. Sheeting shall be either ¼-inch plywood or ½-inch thick ABS plastic.
3	
4	No damage shall occur to the face of the sign being covered.
5	
6	 The sheeting shall be non-reflective and black in color with U-
7	brackets attached to hook the sign covering over the top of the
8	conflicting signs.
9	
10	 A 2 by 2-inch wooden handle or a PVC conduit of 2-inch nominal
11	diameter handle shall be attached to install and remove the sign
12	covering.
13	
14	5. The handle shall be secured to the signpost with a plastic "zip" tie
15	until the sign covering is removed.
16	
17	Existing speed limit signs shall be uncovered when temporary reduced speed
18	limit signs are not in place.
19	
20	1-10.3(3)B.GR1
21	Sequential Arrow Signs (Arrow Boards)
22	1 10 2/2) P INST1 CP1
23	<u>1-10.3(3)B.INST1.GR1</u>
24 25	Section 1-10.3(3)B is supplemented with the following:
25 26	<u>1-10.3(3)B.OPT1.GR1</u>
20 27	(September 3, 2024)
28	Initial Arrow Board Turn-On Meeting
20 29	The Contractor shall arrange a meeting at least one week before the initial Arrow
30	Board turn-on.
31	board tarm on.
32	The meeting shall include the Contractor, Traffic Control Manager, Traffic Control
33	Supervisor, Alternative Traffic Control Supervisor (if applicable), and WSDOT
34	Project Engineering Office staff.
35	
36	During this meeting, the Contractor shall perform the following:
37	
38	1. A complete and thorough demonstration to show that communication
39	elements listed in Section 9-35.4 are operating properly.
40	
41	Arrow Board Failure
42	If Arrow Board repairs are required, the Contractor shall control traffic with Arrow
43	Board without GPS and remote communication abilities, and the Arrow Board
44	needing repairs shall be repaired or replaced within 48 hours.
45	
46	Arrow Boards shall be deactivated immediately when the unit is not in use in
47	accordance with the accepted traffic control plan.
48	
49	Any data service costs for communications will be included in the unit cost per
50	hour for Sequential Arrow Sign.

1			
2	1-10.3(3)B(9-35.4).GR1		
3	Sequential Arrow Signs		
4	Section 9-35.4 is supplemented with the following:		
5			
6	1-10.3(3)B(9-35.4).OPT1.2025.GR1		
7	(October 3, 2022)		
8	GPS and Remote Communications Requirements		
9	Sequential Arrow Signs (Arrow Boards) on this project shall also have the		
10	following communication abilities:		
11			
12	 Provide electronic Work Zone Data Exchange (WZDx) Specification 		
13	compliant data feeds to Contracting Agency from the arrow board or		
14	the Arrow Boards central server.		
15			
16	Arrow Boards used on this project shall have the ability to transmit its		
17	GPS coordinates (latitude and longitude) with an accuracy of 30-foot		
18	diameter of its actual location.		
19			
20	Arrow Boards shall transmit its GPS coordinates and mode of		
21	operation data to a compatible publicly accessible mapping app		
22	service.		
23			
24	Arrow Boards shall transmit status and location as follows:		
25			
26	 a. Mode change within 2 minutes. 		
27			
28	 b. Location (if moved more than 500 feet) within 2 minutes. 		
29			
30	c. Health checks every 30 minutes.		
31			
32	d. Current "indication" posted on Board (e.g., left or right chevron,		
33	arrow direction, four corner flash, etc.).		
34			
35	If Arrow Board repairs are required, the Contractor shall control traffic with Arrow		
36	Board without GPS and remote communication abilities, and the Arrow Board		
37	needing repairs shall be repaired or replaced within 48 hours.		
38			
39	Arrow Boards shall be deactivated immediately when the unit is not in use in		
40	accordance with the accepted traffic control plan.		
41			
42	Any data service costs for communications will be included in the unit cost per		
43	hour for Sequential Arrow Sign.		
44 45	1 10 4 CB1		
45 46	1-10.4.GR1		
46	Measurement		
47			
48	1-10.4(2).GR1		
49	Item Bids With Lump Sum for Incidentals		
50			
51	1-10.4(2).INST1.GR1		
52	Section 1-10.4(2) is supplemented with the following:		

1 2 3 4 5 6	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.
7 8 9 10	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.
11 12 13 14 15 16	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.
17 18 19 20 21 22 23 24 25 26	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.
27 28 29 30 31	1-10.4(2).OPT6.GR1 (May 20, 2020) "Contractor Provided Uniformed Police Officer" will be measured by the hour.
32 33 34 35 36 37 38 39 40	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.
41 42 43 44 45 46 47	 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.
48 49 50 51	1-10.4(3).GR1 Reinstating Unit Items With Lump Sum Traffic Control

1 2 3	Section 1-10.4(3) is supplemented with the following:		
4 5 6 7 8 9	 1-10.4(3).OPT1.FR1 (November 2, 2022) 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. 		
10	"Work Zone Safety Contingency", by force account.		
11	<u>*** \$\$1\$\$ ***</u>		
13 14 15 16	1-10.5.GR1 Payment		
17 18 19	1-10.5(2).GR1 Item Bids with Lump Sum for Incidentals		
20 21 22	1-10.5(2).INST1.GR1 Section 1-10.5(2) is supplemented with the following:		
23 24 25 26 27 28 29 30	 1-10.5(2).OPT1.GR1 (November 20, 2023) "Automated Flagger Assistance Device", per hour. The unit Contract price, when applied to the number of hours measured for this item in accordance with Section 1-10.4(2), shall be full pay to provide, maintain and remove the AFAD as described including transporting, installing and resetting the devices. 		
31 32 33	All costs for controlling AFADs shall be included in the unit Contract price per hour for "Flaggers".		
34 35 36 37 38 39 40 41	 1-10.5(2).OPT2.GR1 (January 2, 2018) "Radar Speed Display Sign", 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 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. 		
41 42 43 44 45 46 47 48 49 50 51	1-10.5(2).OPT3.GR1 (September 7, 2021) "Operation of Smart Work Zone 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, SWZS Vendor, and SWZS Technician for mobilizing and demobilizing the smart work zone system components; the hardware, software, 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		

1 2 3		to implement and decommission the SWZS will be made under the applicable items shown in the Proposal.
3 4 5 6 7 8 9 10 11 12 13 14 15 16	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.
17 18 19 20	1-10.5(2).OPT5.GR1 (May 20, 2020) "Contractor Provided Uniformed Police Officer", per hour.
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36		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.
37 38 39 40		All costs as authorized by the Engineer will be paid for by force account as specified in Section 1-09.6.
40 41 42 43 44		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.
44 45 46		The Engineer may choose to use existing bid items for the implementation of the agreed upon enhancement.

1	DIVISION2.GR2	Earthwork	
2 3 4	2-01.GR2	Clearing, G	rubbing, and Roadside Cleanup
5 6	2-01.1.GR2	Descr	iption
7 8 9	2-01.1.INST1	(Section 2-01.1 is supplemented with the following) lust use once preceding any of the following:
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	Const	ruction Requirements
18 19	2-01.3(1).GR	2 C	learing
20 21 22	2-01.3(1).I	NST1.GR2	(Item number 1 of Section 2-01.3(1) is revised to read) Must use once preceding any of the following:
23 24 25 26 27	2-01.3	(1).OPT1.GR2	2 (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #88.
28 29	2-01.3(4).GR	2 R	oadside Cleanup
30 31 32	2-01.3(4).I	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.FR2	 (Roadside Cleanup) (January 5, 1998) Use if additional work is required under the item "Roadside Cleanup". (fill-ins)
38 39	2-01.5.GR2	Paymo	ent
40 41 42 43 44	2-01.5.INST1	à	The first and second paragraphs of Section 2-01.5 re revised to read) lust use once preceding any of the following:
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	f Structures and Obstructions
52 53	2-02.1.GR2	Descr	iption

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 7 8 9 10 11 12 13 14	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	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.
20 21 22 23 24 25 26 27 28	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.
29 30 31 32 33 34	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 .
35 36	2-02.2.GR2 M	laterials
37 38 39 40	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	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 .
48 49	2-02.3.GR2 C	onstruction Requirements
50 51	2-02.3.INST1.GR2	(Section 2-02.3 is supplemented with the following) Must use once preceding any of the following:
52 53	2-02.3.OPT1.FR2	(Removal of Obstructions)

1 2 3 4 5		(September 7, 2021) Use <i>except</i> when the combined cost of all obstruction removal is \$5,000 or less and payment is to be included in other payment items.
5 6 7 8 9		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.
10 11 12		Removal of obstructions that are not readily measurable, such as foundations, may be included in this item regardless of the removal cost.
13 14 15 16 17		List all items and approximate quantities to be removed under "Removal of Structure and Obstruction". (1 fill-in)
18 19 20	2-02.3.OPT2.FR2	(Removing Miscellaneous Traffic Items) (March 13, 1995) Must include with 2-02.1.OPT1.GR2 .
21 22 23 24 25 26 27 28 29 30 24	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)
31 32 33 34 35	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 .
36 37 38 39	2-02.3.OPT5.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must include with 1-07.5(4)C.OPT2.FR1 .
40 41 42 43 44 45 46 47 48 49 50 50	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)
51 52 53	2-02.3.OPT7.GR2	(Well Decommissioning) (February 25, 2021)

1 2 3 4 5		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 .
6 7		emoval of Bridges, Box Culverts, and other Drainage tructures
8 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 9 20 21 22 32 4 26 27 28 9 30 31 23 34 56 37 38 90 41 23 44 56 47 48 950	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).OPT3.FR1 if the bridge being removed has steel members with lead paint. (2 fill-ins)
	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 <i>1-07.1(2).0PT3.FR1</i> if the bridge being removed has steel members with lead paint. (1 fill-in)
	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 <i>1-07.1(2).OPT3.FR1</i> if the bridge being partially removed has steel members with lead paint. (2 fill-ins)
	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.
50 51 52 53	2-02.3(2).OPT10.GE	32 (Use of Explosives) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10	2-02.3(2).OPT10(E	3).FB2	(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).OPT3.FR1 if the bridge involved has steel members with lead paint. (1 fill-in)
11 12 13 14 15 16 17 18 19 20	2-02.3(2).C	PT11.GB2	(Jan Use whe to co 2-02 Inclu	uirements for Closing Bridge Prior to Removal) uary 2, 2018) in projects requiring removal of existing bridges in it is necessary to close the bridge to traffic in order omplete removal as soon as possible. Include with .3(2).OPT1.FB2 , and 2-02.3(2).OPT10(B).FB2 . Ide with 1-07.1(2).OPT3.FR1 if the bridge involved steel members with lead paint.
21 22 23 24 25 26 27 28 29	2-02.3(2).C	PT12.GR2	(Jun Use box Inclu 02.3 02.5	noving Portions of Existing Box Culvert) e 26, 2000) in projects requiring removal of portions of existing culverts prior to extending or widening the structure. ide with 2-02.1.OPT3.GR2, 6-02.2.OPT2.GB6, 6- (24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, and 6- .OPT5.GB6, and either 2-02.5.OPT12.GR2 or 2- .OPT15.GR2.
30	2-02.3(3).GR2	Ren	noval o	of Pavement, Sidewalks, Curbs, and Gutters
31 32	2 02 2(2) INCT	1 (())		
33	2-02.3(3).INST			2-02.3(3) is supplemented with the following) e once preceding any of the following:
33 34 35 36 37 38 39 40 41	2-02.3(3).INST	Ň	lust us (Sep Inclu the I be p Mus 02.5	e once preceding any of the following: tember 8, 1997) ide in projects when removal of pavement is outside imits of roadway excavation, and the removal is to aid by the square yard.
33 34 35 36 37 38 39 40		Ň	lust us (Sep Inclu the I be p Mus 02.5 (2 fil	e once preceding any of the following: tember 8, 1997) de in projects when removal of pavement is outside imits of roadway excavation, and the removal is to aid by the square yard. t also use 2-02.4.OPT2.GR2 and 2- .OPT13.FR2.
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 	2-02.3(3).C	N PT1.FR2 Measure 2 (See	Aust us (Sep Inclu the I be p Mus 02.5 (2 fil ement ction 2-	e once preceding any of the following: tember 8, 1997) de in projects when removal of pavement is outside imits of roadway excavation, and the removal is to aid by the square yard. t also use 2-02.4.OPT2.GR2 and 2- .OPT13.FR2.
 33 34 35 36 37 38 39 40 41 42 43 44 45 	2-02.3(3).C 2-02.4.GR2	Measure Measure 2 (Sec Mus 6R2 (I N	Aust us (Sep Inclu the I be p Mus 02.5 (2 fil ction 2- tuse of Remov Decem Aust inc	e once preceding any of the following: tember 8, 1997) ide in projects when removal of pavement is outside imits of roadway excavation, and the removal is to aid by the square yard. t also use 2-02.4.OPT2.GR2 and 2- .OPT13.FR2 . I-ins) 02.4 is supplemented with the following)

1 2		(September 8, 1997) Must include with 2-02.3(3).OPT1.FR2. .
3 4 5 6 7 8 9	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 .
10 11 12 13 14 15 16 17	2-02.4.0PT4.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 .
18	2-02.5.GR2 Pay	yment
19 20 21 22	2-02.5.INST1.GR2	(Section 2-02.5 is revised by the following) Must use once preceding any of the following:
23 24 25 26 27	2-02.5.OPT1.FR2	(Removal of structures and obstructions included in other work) (August 1, 2017) (1 fill-in)
28 29 30	2-02.5.INST2.GR2	(Section 2-02.5 is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35 36	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 .
37 38 39 40 41 42	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>
43 44 45	2-02.5.OPT8.GR2	(Removing Miscellaneous Traffic Items) (September 30, 1996) <i>Must include with 2-02.1.OPT1.GR2.</i>
46 47 48 49 50 51	2-02.5.0PT11.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 .
51 52 53	2-02.5.OPT12.GR2	(Removing Portion of Conc. Box Culvert) (June 26, 2000)

1 2 3 4 5 6 7			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.	e 5-
8 9 10	2-02.5.OPT	[13.FR2	(Pavement Removal) (September 30, 1996) Must include with 2-02.3(3).OPT1.FR2 . (1 fill-in)	
11 12 13 14 15 16 17 18 19	2-02.5.OPT	[15.GR2	(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.	e 5-
19 20 21 22 23 24	2-02.5.OPT	[16.FR2	(Sidewalk Removal) (November 3, 1999) Must include with 2-02.4.OPT3.GR2 (1 fill-in)	
24 25 26 27 28 29	2-02.5.OPT	[17.FR2	(Removal of portions of Curb) (September 8, 1997) Must include with 2-02.4.OPT4.GR2. (1 fill-in)	
29 30 31	2-03.GR2	Roadway	Excavation and Embankment	
32 33	2-03.1.GR2	Desc	ription	
34 35 36	2-03.1.INST1.		(Section 2-03.1 is supplemented with the following) Must use once preceding any of the following:	
37 38 39 40 41 42	2-03.1.OPT	[1.GR2	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.2.OPT1.FR2 , 2-03.3.OPT1.GR2 , 2 03.4.OPT5.GR2 , and 2-03.5.OPT4.GR2 .	2-
43	2-03.2.GR2	Vaca	nt	
44 45 46 47 48	2-03.2.INST1.	t	(Section 2-03.2, including title, is deleted and replaced with the following:) Must use once preceding any of the following:	Э
48 49		1.GR2	(Geofoam Lightweight Fill)	

1 2 3	2-03.3.GR2	Construc	tion Requirements
5 4 5 6	2-03.3.INST1.GR2	(ion 2-03.3 is supplemented with the following) use once preceding any of the following:
7 8 9 10 11 12	2-03.3.OPT1.GF	(ປາ ປະ ປະ	eofoam Lightweight Fill) uly 2, 2024) se in projects utilizing geofoam lightweight fill. se with 2-03.1.OPT1.GR2 , 2-03.2.OPT1.FR2 , 2- 5.4.OPT5.GR2, and 2-03.5.OPT4.GR2 .
12 13 14	2-03.3(2).GR2	Rock	Cuts
15 16 17	2-03.3(2).INST1		ection 2-03.3(2) is supplemented with the following) ust use once preceding any of the following:
18 19 20 21 22 23	2-03.3(2).OF	PT1.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 <i>2-</i> <i>03.4.OPT4.GR2 and 2-03.5.OPT3.GR2</i> .
24	2-03.3(7).GR2	Disp	osal of Surplus Material
25 26 27	2-03.3(7).INST1		ection 2-03.3(7) is supplemented with the following) ust use once preceding any of the following:
28 29 30 31 32 33 34	2-03.3(7).OF	PT1.FR2	(Contracting Agency furnished waste site) (March 13, 1995) Use in projects with Contracting Agency provided waste sites. (1 fill-in)
35 36 37 38 39	2-03.3(7).OF	PT2.FR2	(Waste material by embankment widening) (March 13, 1995) Use in projects where the Contracting Agency specifies embankments to be widened. (2 fill-ins)
40 41 42 43 44 45	2-03.3(7).OF	PT3.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.
46 47 48 49 50	2-03.3(7).OF	PT4.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 .
51 52 53	2-03.3(14).GR2	Emb	ankment Construction

1 2	2-03.3(14)C.GR2	Compacting Earth Embankments
2 3 4 5 6	2-03.3(14)C.INS	ST1.GR2 (Section 2-03.3(14)C is supplemented with the following) Must use once preceding any of the following:
7 8 9	2-03.3(14)C	OPT1.GR2 (March 13, 1995) Use in projects when no payment for embankment compaction (Method A) is included.
10 11	2-03.3(14)I.GB2	Embankments At Bridge And Trestle Ends.
12 13 14 15 16	2-03.3(14)I.INS	T1.GB2 (Section 2-03.3(14)I is supplemented with the following) Must use once preceding any of the following:
17 18 19 20 21	2-03.3(14) .	OPT1.FB2 (March 13, 1995) Use in projects when the bridge approach embankments must be constructed before the end piers. (2 fill-ins)
22 23	2-03.4.GR2 M	easurement
24 25 26 27	2-03.4.INST1.GR2	(Section 2-03.4 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32 33 34	2-03.4.OPT1.GR2	(Embankment In Place) (March 13, 1995) Must also include 2-03.5.OPT1.GR2 . 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.
35 36 37 38 39	2-03.4.OPT2.GR2	(Measurement of roadway excavation and embankment) (March 13, 1995<mark>September 3, 2024</mark>) Must include with 1-05.4.OPT2.GR1 , Contractor surveying - roadway. May be used without Contractor surveying.
40 41 42 43	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.
44 45 46 47 48 49	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 .
50 51 52 53	2-03.4.OPT5.GR2	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill.

1 2 3		Use with 2-03.1.OPT1.GR2 , 2-03.2.OPT1.FR2 , 2- 03.3.OPT1.GR2 , and 2-03.5.OPT4.GR2 .
4 5	2-03.5.GR2 P	ayment
6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23	2-03.5.INST1.GR2	(Section 2-03.5 is supplemented with the following) Must use once preceding any of the following:
	2-03.5.OPT1.GR2	(Embankment In Place) (September 30, 1996) Must include with 2-03.4.OPT1.GR2 .
	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).0PT1.GR2 and 2-03.4.0PT4.GR2.
24 25 26 27 28 29 30	2-03.5.OPT4.GR2	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.1.OPT1.GR2 , 2-03.2.OPT1.FR2 , 2- 03.3.OPT1.GR2 , and 2-03.4.OPT5.GR2 .
30 31 32	2-06.GR2 Subgra	ade Preparation
33 34	2-06.3.GR2 C	onstruction Requirements
35 36	2-06.3(1).GR2	Subgrade For Surfacing
37 38	2-06.3(1).INST1.GF	R2 (Section 2-06.3(1) is supplemented with the following) Must use once preceding any of the following:
39 40 41 42 43 44 45 46 47 48 49 50 51 52	2-06.3(1).OPT1	.GR2 (Subgrade trimmer required) (March 13, 1995) 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.
	2-06.3(1).OPT2	GR2 (Subgrade trimmer not required) (March 13, 1995) Use in grading-only projects where a treated base is planned for construction on a future project.

1 2 3 4 5 6 7			Inclu ensu trimr	project should include a bid item for "Gravel Borrow Iding Haul" or "Borrow Excavation Including Haul" to Ire that sufficient fine material is available for ming. The position of the future treated base is to wn on the plans.
0 7 8	2-09.GR2	Structure E	xcavatio	on
9 10	2-09.3.GR2	Consti	ruction	Requirements
10 11 12	2-09.3(1).GR	2 Ge	eneral R	Requirements
13 14	2-09.3(1)0	GR2	Remov	al Of Unstable Base Material
15 16 17 18	2-09.3	(1)C.INST1.GF	with	ction 2-09.3(1)C is supplemented the following) at use once preceding any of the following:
19 20 21 22 23 24 25 26 27	2-0	9.3(1)C.OPT1	.FB2	 (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.
28				
29 30 21	2-09.3(3).GR		onstruct ass A	tion Requirements, Structure Excavation,
30 31 32 33	2-09.3(3).GR 2-09.3(3)E	CI	ass A	tion Using Open Pits – Extra
30 31 32 33 34 35 36 37	2-09.3(3)E	CI 3.GR2	ass A Excava Excava R2 (See with	tion Using Open Pits – Extra
30 31 32 33 34 35 36	2-09.3(3)E 2-09.3	CI 3.GR2	ass A Excava Excava R2 (Seo with Mus	tion Using Open Pits – Extra tion ction 2-09.3(3)B is supplemented the following)

1 2 3 4				location(s) where extra excavation and open pit excavation is allowed. (1 fill-in)
5 6	2-09.3(3)	D.GR2	Shoring	And Cofferdams
6 7 8 9 10	2-09.3	3(3)D.INST1	follo	ction 2-09.3(3)D is supplemented with the wing) t use once preceding any of the following:
10 11 12 13 14 15	2-	09.3(3)D.OF	PT1.GB2	(Protecting existing pavement) (March 13, 1995) Use in projects when bridges are over or adjacent to existing highways.
16 17 18 19 20	2-	09.3(3)D.OF	PT2.GB2	(Protecting RR tracks) (August 2, 2010) Use in projects when bridges are over or adjacent to existing railroad tracks.
21 22 23 24 25	2-	09.3(3)D.OF	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)
26 27	2-09.4.GR2	Меа	surement	
28 29 30 31 32	2-09.4.INST	1.GR2	supplemen	ection Lower Limits of Section 2-09.4 is ited with the following) ince preceding any of the following:
33 34 35 36 37	2-09.4.OF	PT1.GB2	(Addition at end p Use in	y 4, 2010) nal structure excavation under girders iers) projects where excavation is required outside of structure excavation limits for end pier footings.
38 39 40	2-12.GR2	Construc	tion Geosy	ynthetic
40 41 42	2-12.1.GR2	Des	cription	
42 43 44 45	2-12.1.INST	1.GR2		12.1 is supplemented with the following) once preceding any of the following:
46 47 48 49 50 51 52 53	2-12.1.OF	PT1.GR2	(Novem Use in Slope de Center I Use deta	thetic Reinforced Slope ber 17, 1997) projects requiring geosynthetic reinforced slopes. esign should be performed by the Olympia Service Materials Laboratory or a geotechnical consultant. ails from DETAILS.CEL Library; D225, D229, D230, 30A or D230B.

1	2-12.2.GR2	Materi	als
2 3 4 5 6	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:
7 8 9 10 11 12	2-12.2(9	-03.14).OPT	1.FR2 (Borrow for Geosynthetic Reinforced Slopes) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)
13 14 15 16	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:
17 18 19 20 21	2-12.2(9	-07.7).OPT1	.GR2 (Welded Wire Reinforcement) (February 6, 2023) Use in projects where welded wire faced geosynthetic reinforced slopes are specified.
22 23 24 25 26	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:
20 27 28 29 30 31 32 33 34 35 36 37 38 39 40	2-12.2(9	-33.2(2)).OF	 PT1.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)
40 41 42 43 44 45 46	2-12.2(9	-33.2(2)).OF	PT2.GR2 (Geosynthetic Properties for Turf Reinforcement Mat) (April 5, 2004) Use in projects where geosynthetic reinforced slopes with a turf reinforcement mat facing are specified.
47 48 49 50	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:
51 52 53	2-12.2(9	-33.4(1)).OF	PT1.GR2 (Geosynthetic Reinforced Slope) Primary Reinforcement (April 5, 2004)

1 2	Use in projects requiring geosynthetic reinforced slopes.
2 3 4 5 6 7	2-12.2(9-33.4(1)).OPT2.GR2(Geosynthetic Reinforced Slope) Secondary Reinforcement (April 5, 2004)
7 8 9	Use in projects where geosynthetic reinforced slopes with secondary reinforcement are specified.
10 11 12	2-12.2(9-33.4(1)).OPT3.GR2(Geosynthetic Reinforced Slope) Turf Reinforcement Mat (November 17, 1997)
13 14 15	Use in projects where geosynthetic reinforced slopes with turf reinforcement mat facing are specified.
16 17 18	2-12.2(9-33.4(3)).GR2 (Acceptance Samples) (Section 9-33.4(3) is supplemented with the following) Must use once preceding any of the following:
19 20 21 22 23	2-12.2(9-33.4(3)).OPT1.GR2(Geosynthetic Reinforced) Slope Primary Reinforcement (November 17, 1997) Use in projects requiring geosynthetic reinforced
24 25	slopes.
26 27 28 29	2-12.2(9-33.4(3)).OPT2.GR2 (Geosynthetic Reinforced Slope) Secondary Reinforcement (April 5, 2004)
29 30 31 32	Use in projects where geosynthetic reinforced slopes with secondary reinforcement are specified.
33 34 35 36 37	2-12.2(9-33.4(3)).OPT3.GR2 (Geosynthetic Reinforced Slope Turf) Reinforcement Mat (November 17, 1997) Use in projects where geosynthetic reinforced slopes with turf reinforcement mat facing are specified.
38 39 40 41 42	2-12.2(9-33.4(4)).GR2 (Acceptance by Certificate of Compliance) (Section 9-33.4(4) is supplemented with the following) Must use once preceding any of the following:
43 44 45 46	2-12.2(9-33.4(4)).OPT1.GR2(Reinforced Slope) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes.
47 48 49	2-12.3.GR2 Construction Requirements
50 51 52	2-12.3.INST1.GR2 (Supplemental Instructions) (Section 2-12.3 is supplemented with the following) Must use once preceding any of the following:

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50 51 52 53	2-12.5.INST1.GR2	(Supplemental Instructions) (Section 2-12.5 is supplemented with the following) Must use once preceding any of the following:
47 48 49	2-12.5.GR2	Payment
42 43 44 45 46	2-12.4.OPT1.FF	R2 (Geosynthetic Reinforced Slope) (January 5, 1998) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)
38 39 40 41	2-12.4.INST1.GR2	(Supplemental Instructions) (Section 2-12.4 is supplemented with the following) Must use once preceding any of the following:
36 37 28	2-12.4.GR2	Measurement
31 32 33 34 35	2-12.3.OPT5.GF	R2 (Installing Guardrail Posts in Geosynthetic) Reinforced Slopes (November 17, 1997) Use in projects requiring guardrail on geosynthetic reinforced slopes.
24 25 26 27 28 29 30	2-12.3.OPT4.GF	 (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.
16 17 18 19 20 21 22 23 24	2-12.3.OPT3.GF	R2 (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.
9 10 11 12 13 14 15	2-12.3.OPT2.FF	 (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)
1 2 3 4 5 6 7 8	2-12.3.OPT1.GF	R2 (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.
1		

2-12.5.OPT1.FR2

(Geosynthetic Reinforced Slope) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)

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1	2-03.GR2					
2	Roadway Excavati	on and Embankment				
3 4	2-03.1.GR2					
4 5	Description					
6	Description					
7	2-03.2.GR2					
8	Vacant					
9						
10	2-03.3.GR2					
11	Construction Requ	irements				
12						
13 14	2-03.3(2).GR2 <i>Rock Cuts</i>					
14	NOCK CUIS					
16	2-03.3(2).INST1.GR2					
17		is supplemented with the following:				
18						
19	2-03.3(2).OPT1.GR2					
20	(September					
21 22		Scaling and Removal and Disposal of Rock Slope Scaling Debris tor shall remove loose rock and soil from the existing rock slope locations				
22		Plans or as specified by the Engineer, and shall remove and dispose of				
24		e scaling debris generated by the work.				
25		5 5 5				
26	Equipm					
27		ope scaling shall be performed with scaling bars, portable hydraulic				
28		, air pillows, hand drills, splitters, and other mechanical or hand tools				
29		trated to be effective in performing the work to the satisfaction of the				
30 31	Enginee	f.				
32	Submit	tals				
33		ntractor shall submit a rock slope scaling plan as a Type 2 Working				
34		. The rock slope scaling plan shall include, but not be limited to, the				
35	following					
36						
37	1.	Documented work experience of all rock slope scaling supervisors				
38		and scalers scheduled to be working on the project. Rock slope				
39 40		scaling supervisors shall have at least 1,500 hours of documented				
40 41		experience as a rock slope scaler. Rock slope scalers shall have at least 1,000 hours of documented experience as a rock slope scaler.				
42						
43	2.	The proposed construction sequence and schedule.				
44						
45	3.	The type of tools and equipment to be used for rock scaling				
46		purposes.				
47		The month of a share the state of the state				
48 40	4.	The number of rock slope scaling crews to be employed on the				
49 50		project, with a rock slope scaling crew defined as one qualified scaling supervisor and two qualified scalers.				
50 51		שלאוויש שערבו אושטי מווע נשט קעמוווכע שלאוכוש.				
01						

1 2 3	5.	Operation plan for collection, removal and disposal of all rock slope scaling debris generated by the rock slope scaling work.
4 5 6 7	6.	Operation plan for protection of roadway surface, railroad facilities, structures, utilities, and other facilities adjacent to the rock slope scaling locations.
8 9 10 11 12	7.	If the Roadway is exposed to the collection of rock slope scaling debris, the submittal shall include the equipment and procedure to be used to clear the Roadway for public use between rock slope scaling operations.
13 14 15		ntractor shall not begin rock slope scaling operations until receiving the r's approval of the rock slope scaling plan.
16 17 18 19 20 21 22	As a firs woody v otherwis and 2-01	ope Scaling Construction Requirements st item of work, the Contractor shall clear the rock slope of trees and regetation within the work zone within 15 feet of the slope crest or as se specified by the Engineer. Clearing shall conform to Sections 2-01.1 1.3(1), and the requirement that the vegetation shall be close cut, leaving wad intact.
23 24 25 26 27 28	the deta shown in scaling p	ntractor shall conduct rock slope scaling operations in accordance with ils shown in the Plans, the traffic control restrictions and requirements in the Plans and specified in the Special Provisions, and the rock slope plan as approved by the Engineer. The size and work experience of the person scaling crew as defined above shall be maintained at all times.
29 30 31 32 33	proceed extent of	ope scaling shall begin at the top of the rock slope and work shall down slope, removing loose rock and soil as the work progresses. The f rock slope scaling shall be as shown in the Plans and as adjusted in by the Engineer.
34 35 36 37 38 39 40	The Con generate present benches	ope Scaling Debris Collection and Removal attractor shall collect, remove and dispose of all rock slope scaling debris ed by the work, including all rock debris within the limits of the project at the base of the slope at the beginning of the project. Ditches and shall be cleared of all rock slope scaling debris and returned to original al condition as specified by the Engineer
41 42 43		ntractor shall break up any rocks that are too large to transport into able sized pieces for haul.
44 45 46 47 48	accorda Plans ar	ope scaling debris collection and removal shall be conducted in nce with the traffic control restrictions and requirements shown in the nd specified in the Special Provisions, and the rock slope scaling plan oved by the Engineer.
49 50 51 52	provided debris, a	when the Plans or Special Provisions specify a Contracting Agency d site for disposal of all or specific portions of the rock slope scaling all rock slope scaling debris shall be disposed of at a site conforming to 2-03.3(7)C.

1 2	2-03.3(7).GR2				
3 4	Disposal Of Surplus Material				
5 6 7	2-03.3(7).INST1.GR2 Section 2-03.3(7) is supplemented with the following:				
8 9 10 11 12 13 14 15 16 17 18 19	2-03.3(7).OPT1.FR2 (March 13, 1995) Surplus materials may be disposed of within the Contracting Agency furnished site, as detailed in the Plans. For informational purposes the maximum capacity of this site is *** \$\$1\$\$ *** cubic yards, neat line measurement.				
	2-03.3(7).OPT2.FR2 (March 13, 1995) Surplus materials may be disposed of by widening embankments at the following locations, as may be designated by the Engineer : *** \$\$1\$\$ ***				
20 21 22 23	For informational purposes the maximum capacity of the embankment widening sites is *** \$\$2\$\$ *** cubic yards, neat line measurement				
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	2-03.3(7).OPT3.GR2 (March 13, 1995) The Contractor is not required to utilize the Contracting Agency provided site(s), and may make arrangements, at the Contractor's expense, for the disposal of waste materials, and shall protect the Contracting Agency from all damages arising from the Contractor's waste disposal operations.				
	2-03.3(7).OPT4.GR2 (March 13, 1995) It is anticipated that the waste site(s) provided by the Contracting Agency will not be of sufficient size or capacity to dispose of all excess materials. Therefore, it will be necessary for the Contractor to make arrangements, at the Contractor's expense, for the disposal of excess waste materials and shall protect the Contracting Agency from all damages that may arise from the waste disposal operations.				
39 40 41	2-03.3(14).GR2 Embankment Construction				
42 43 44	2-03.3(14)C.GR2 Compacting Earth Embankments				
45 46 47	2-03.3(14)C.INST1.GR2 Section 2-03.3(14)C is supplemented with the following:				
48 49 50 51 52	2-03.3(14)C.OPT1.GR2 (March 13, 1995) All embankments, except waste embankments, shall be compacted using Method A.				

1 2 3	2-03.3(14)I.GB2 Embankments at Bridge And Trestle Ends
4 5 6	2-03.3(14)I.INST1.GB2 Section 2-03.3(14)I is supplemented with the following:
7 8 9 10 11	2-03.3(14)I.OPT1.FB2 (March 13, 1995) The approach embankments at the ends of *** \$\$1\$\$ *** shall be constructed *** \$\$2\$\$ *** before undertaking the construction of the end piers.
12 13 14	2-03.4.GR2 Measurement
15 16 17	2-03.4.INST1.GR2 Section 2-03.4 is supplemented with the following:
18 19 20 21 22	2-03.4.OPT1.GR2 (March 13, 1995) The embankment widening for guardrail will be measured by the cubic yard, between the original roadway slope and the neat lines of the widened embankment.
22 23 24 25 26 27 28	 2-03.4.OPT2.GR2 (March 13, 1995<u>September 3, 2024</u>) Only one determination of the original ground elevation will be made on this project. Measurement for roadway excavation and embankment will be based on the original ground elevations recorded previous to the award of this contract.
29 30 31 32	If discrepancies are discovered in the ground elevations which will materially affect the quantities of earthwork, the original computations of earthwork quantities will be adjusted accordingly.
33 34 35	Earthwork quantities will be computed, either manually or by means of electronic data processing equipment, by use of the average end area method or by the finite element analysis method utilizing digital terrain modeling techniques.
36 37 38 39	Electronic Design Files will be available by request for the Bidder's inspection before the opening of Bids.
40 41 42	Copies of the ground cross-section notes will be available for the bidder's inspection, before the opening of bids, at the Engineer's office and at the Region office.
43 44 45	Upon award of the contract, copies of the original ground cross-sections will be furnished to the successful bidder on request to the Engineer.
46 47 48 49 50 51 52	 2-03.4.OPT3.GR2 (March 13, 1995) Only one determination of the original ground elevation will be made on this project. Measurement for roadway excavation and embankment will be based on the original ground elevations recorded previous to the award of this contract. Control stakes will be set during construction to provide the Contractor with all essential information for the construction of excavation and embankments.

1 2 3 4	If discrepancies are discovered in the ground elevations which will materially affect the quantities of earthwork, the original computations of earthwork quantities will be adjusted accordingly.
5 6 7 8 9	Earthwork quantities will be computed, either manually or by means of electronic data processing equipment, by use of the average end area method or by the finite element analysis method utilizing digital terrain modeling techniques.
9 10 11 12	Copies of the ground cross-section notes will be available for the bidder's inspection, before the opening of bids, at the Engineer's office and at the Region office.
13 14 15	Upon award of the contract, copies of the original ground cross-sections will be furnished to the successful bidder on request to the Engineer.
16 17 18	2-03.4.OPT4.GR2 (April 5, 2010) Rock slope scaling will be measured by the crew hour.
19 20 21 22	Rock slope scaling debris removal including haul will be measured by the cubic yard in the hauling conveyance at the point of removal from the work site.
23 24 25	2-03.5.GR2 Payment
25 26 27 28	2-03.5.INST1.GR2 Section 2-03.5 is supplemented with the following:
29 30 31 32	2-03.5.OPT1.GR2 (September 30, 1996) "Embankment in Place", per cubic yard.
32 33 34 35	The unit contract price per cubic yard shall be full pay to perform the work as specified, including terracing the existing slope.
36 37 38 39 40	 2-03.5.OPT2.FR2 (March 13, 1995) All costs in connection with the preparation of waste sites and waste deposits shall be included in the *** \$\$1\$\$ ***.
41 42 43 44 45	 2-03.5.OPT3.GR2 (April 5, 2010) "Rock Slope Scaling", per crew hour. The unit contract price per crew hour for "Rock Slope Scaling" shall be full pay for performing the work as specified.
46 47 48 49 50 51 52	"Rock Slope Scaling Debris Removal Incl. Haul", per cubic yard. The unit contract price per cubic yard for "Rock Slope Scaling Debris Removal Incl. Haul" shall be full pay for performing the work as specified, including collection, removal and disposal of all rock debris within the limits of the project present at the base of the slope at the beginning of the project.

- All costs in connection with felling of trees and woody vegetation from the site as specified, and collection, removal and disposal of all trees and woody vegetation cut and removed from the slope, shall be included in the lump sum contract price for "Clearing
- 4 and Grubbing".

1	DIVISION5.GR5	Surface Tre	atments and Pavements
2 3 4	5-01.GR5	Cement Cor	ncrete Pavement Rehabilitation
5 6	5-01.1.GR5	Descri	ption
7 8	5-01.1.INST1	(ection 5-01.1 is supplemented with the following) ust 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	Materia	als
18 19 20	5-01.2.INST1	(ection 5-01.2 is supplemented with the following) ust 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 5-01.1.0PT1.GR5 & 5-01.3(5).0PT1.GR5 .
26 27	5-01.3.GR5	Consti	ruction Requirements
28 29 30	5-01.3(5).GR	5 Pa	artial Depth Spall Repair
30 31 32 33	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.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 & 5-01.2.OPT1.GR5.
39 40 41	5-01.3(9).GR	5 Pc	ortland Cement Concrete Pavement Grinding
42 43	5-01.3(9).I	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.GR5	(April 1, 2013) Use in projects that require 10,000 or more square yards of cement concrete pavement grinding.
49	5-01.3(10).G	R5 Pa	avement Smoothness
50 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	5-01.3(10).OPT1.GR5	(February 6, 2023) 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	Bituminous S	urface Treatment
8 9	5-02.3.GR5	Construc	ction Requirements
10 11	5-02.3(3).GR	5 App	lication Of Asphalt Emulsion and Aggregate
12 13 14	5-02.3(3).11		ection 5-02.3(3) is supplemented with the following) ust use once preceding any of the following:
15 16 17 18 19 20 21 22	5-02.3(3).OPT1.FR5	(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)
22 23 24 25 26 27 28 29	5-02.3(3).OPT2.FR5	(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	Measure	ment
32 33 34	5-02.4.INST1.		tion 5-02.4 is supplemented with the following) use once preceding any of the following:
35 36 37 38 39 40 41	5-02.4.OPT	(N M Us of cc	ST existing road approaches) March 13, 1995) ust also use 5-02.5.OPT2.GR5 . se in BST projects when there are a substantial number existing road approaches to be paved and the extra ost of labor for paving approaches becomes a factor in etermining the bid price for BST.
42 43	5-02.5.GR5	Payment	
44 45 46	5-02.5.INST1.	`	tion 5-02.5 is supplemented with the following) use once preceding any of the following:
47 48 49 50 51 52	5-02.5.OPT	(F M U	ituminous Surface Treatment For Road Approach) ebruary 5, 2001) ust include with 5-02.4.OPT2.GR5 . se in BST projects when there are a substantial number existing road approaches to be paved and the extra

1 2 3			cost 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.OP	T3.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
12 13 14 15 16 17 18 19 20	5-02.5.OP	T4.GR5	(AC-15P Cost Price Adjustment Payment) (January 3, 2017) Include in all BST projects. Must include standard item #5280 .
21 22	5-04.GR5	Hot Mix Asp	ohalt
23	5-04.2.GR5	Materi	als
24 25 26 27	5-04.2(2).GR	5 M	ix Design – Obtaining Project Approval
28 29 30	5-04.2(2).1	NST1.GR5	(Section 5-04.2(2) is supplemented with the following) Must use once preceding any of the following:
30			
32 33 34 35 36	5-04.2	(2).OPT1.FR5	(HMA Test Requirements) (January 3, 2011) Include in all projects using HMA. Fill-in (number of ESAL's) is included in the pavement design report. (1 fill-in)
32 33 34 35 36 37 38 39 40 41		(2).OPT1.FR5 93.8(7)).GR5	(January 3, 2011) Include in all projects using HMA. Fill-in (number of ESAL's) is included in the pavement design report.
32 33 34 35 36 37 38 39 40 41 42 43 44	5-04.2(9-0	3.8(7)).GR5	 (January 3, 2011) Include in all projects using HMA. Fill-in (number of ESAL's) is included in the pavement design report. (1 fill-in) (HMA Tolerances, Specification Limits and Adjustments) (The second paragraph of item number 1 of Section 9- 03.8(7) is revised to read:)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	5-04.2(9-0 5-04.2)3.8(7)).GR5 (9-03.8(7)).OF	 (January 3, 2011) Include in all projects using HMA. Fill-in (number of ESAL's) is included in the pavement design report. (1 fill-in) (HMA Tolerances, Specification Limits and Adjustments) (The second paragraph of item number 1 of Section 9- 03.8(7) is revised to read:) Must use once preceding any of the following: PT1.GR5 (September 8, 2020)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	5-04.2(9-0 5-04.2 5-04.2(9-0)3.8(7)).GR5 (9-03.8(7)).OF 3.21(1)A).GR((January 3, 2011) Include in all projects using HMA. Fill-in (number of ESAL's) is included in the pavement design report. (1 fill-in) (HMA Tolerances, Specification Limits and Adjustments) (The second paragraph of item number 1 of Section 9- 03.8(7) is revised to read:) Must use once preceding any of the following: PT1.GR5 (September 8, 2020) Include in all projects using HMA. 5 (Reclaimed Asphalt Shingles) (Section 9-03.21(1)A, including title, is revised to read:)

1			
2 3	5-04.3.INST1.GR5		04.3 is supplemented with the following) once preceding any of the following:
4 5 6 7 8 9	5-04.3.OPT4.FR5	(Januar Use in source o	t Binder Revision) y 3, 2017) projects when the Contracting Agency provides a of aggregate for HMA. e with 5-04.5.0PT3.GR5.
10 11 12	5-04.3(1).GR5	Weather L	imitations
13 14 15	5-04.3(1).INST1.GR5	read)	st sentence of Section 5-04.3(1) is revised to e once preceding any of the following:
16 17 18 19 20 21	5-04.3(1).OPT1.F	Úse be c (1 fi	gust 3, 2009) in projects when it is anticipated that paving will conducted in the Fall. II-in) (Fill-in to be provided by Region Materials ineer)
22 23	5-04.3(3).GR5	Equipmen	t
24 25	5-04.3(3)C.GR5	Pavers	
26 27 28 29	5-04.3(3)C.INST1	follo	ction 5-04.3(3)C is supplemented with the wing) t use once preceding any of the following:
30 31 32 33 34 35	5-04.3(3)C.OF	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.
36 37	5-04.3(3)D.GR5	(Materia	al Transfer Device/Vehicle)
38 39 40 41 42 43 44 45 46 47 48 49	5-04.3(3)D.OF	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.
50 51 52	5-04.3(3)D.INST1		tion 5-04.3(3)A including title is revised to read) t use once preceding any of the following:
53	5-04.3(3)D.OF	PT2.GR5	(Material Transfer Vehicle)

1 2 3 4 5 6 7		(August 1, 2011) Use in projects containing Hot Mix Asphalt when only an MTV is to be used (no MTD). Use requires approval of the Region Construction Office.
6 7	5-04.3(9).GR5	IMA Mixture Acceptance
8 9 10	5-04.3(9).INST1.GR5	(Section 5-04.3(9) is supplemented with the following) Must use once preceding any of the following:
11 12 13 14 15 16 17	5-04.3(9).OPT1.FR	 5 Visual Evaluation (August 1, 2016) Use in projects where the area that visual evaluation of hot mix asphalt is to be used is not identified in the Standard Specifications (1 fill-in)
18 19	5-04.3(10).GR5	IMA Compaction Acceptance
20 21 22 23 24 25	5-04.3(10).INST1.GR5	(The column in Table 14 of Section 5-04.3(10), titled "Statistical Evaluation of HMA Compaction is Required for:", is supplemented with the following) Must use once preceding any of the following:
23 26 27 28 29 30	5-04.3(10).OPT1.G	R5 HMA Shoulder Compaction (April 3, 2017) Use in projects to add compaction control on the shoulders.
30 31 32	5-04.3(10)D.GR5	HMA Compaction – Visual Evaluation
32 33 34 35 36	5-04.3(10)D.INST2	GR5 (The last sentence of Section 5-04.3(10)D is revised to read) Must use once preceding any of the following:
37 38 39 40 41	5-04.3(10)D.OF	T1.GR5 (HMA Prelevel Compaction) (August 3, 2009) Use in projects to require a pneumatic tire roller for the compaction of all prelevel.
42 43	5-04.3(12).GR5	loints
44 45	5-04.3(12).INST1.GR5	(Section 5-04.3(12) is supplemented with the following) Must use once preceding any of the following:
46 47 48 49 50 51 52	5-04.3(12).OPT1.G	R5 (Feathering Hot Mix Asphalt) (January 5, 2004) Use in projects requiring the feathering of hot mix asphalt. May be used with the recommendation of the Region Construction Engineer.
52 53	5-04.3(13).GR5	Surface Smoothness

1		
2 3	5-04.3(13).INST1.GR5	
4		revised to read) Must use once preceding any of the following:
5		must use once preceding any of the following.
6	5-04.3(13).OPT1.FR	5 (Surface Smoothness)
7		(January 5, 2015)
8		Use in all projects that contain HMA paving at the
9		discretion of the Region Construction Manager.
10		Paving must be a minimum of one mile in length. For
11		accurate measurements, the HQ Materials Lab profiler
12		must be able to move through the sections to be
13		measured unimpeded at a minimum speed of 35 MPH.
14		Notification must be made to HQ Materials Lab
15		Pavements section in order to schedule the post
16		paving IRI determination. Fill-ins #1-6 are to be
17		provided by the HQ Materials Lab Pavements section.
18		Use with 5-04.5.0PT1.FR5. Do not use with 5-
19		04.3(13).OPT2.FR5 or 5-04.3(13).OPT3.GR5.
20		
21		(6 fill-ins) Contact
22		MLPavementProfileTest@wsdot.wa.gov to schedule
23		the IRI determination and to complete the fill-ins.
24		
25	5-04.3(13).INST2.GR5	(The second sentence of Section 5-04.3(13) is deleted
26		and replaced with the following)
27		Must use once preceding any of the following:
28		E (Smoothnaan raquiramenta)
29 30	5-04.3(13).OPT2.FR	
31		(March 13, 1995) Use at the discretion of the Region Construction
32		Manager in projects with roadways to be paved that
33		have a combination of posted speeds both greater
34		than and less than 45 MPH. Do not use with 5-
35		04.3(13).OPT1.FR5.
36		(1 fill-in is for sections of roadway with a posted speed
37		limit less than 45 mph)
38		
39	5-04.3(13).INST3.GR5	(The second sentence of Section 5-04.3(13) is revised to
40		read)
41		Must use once preceding any of the following:
42		
43	5-04.3(13).OPT3.GF	
44		(January 5, 2004)
45		Use at the discretion of the Region Construction
46		Manager in projects where all roadways to be paved
47		are posted less than 45 MPH. Do not use with 5-
48		04.3(13).OPT1.FR5.
49		
50	5-04.3(13).INST4.GR5	
51 52		Must use once preceding any of the following:
52 53		P5 (February 6 2023)
	5-04.5(15).0P14.GP	R5 (February 6, 2023)

1 2 3 4			Use in projects where Weigh-in-Motion (WIM) weight sensors are being installed in pavement where Section 5-04 applies. Must include a WIM Site Index Station in the Plans.
5 6 7	5-04.3(14).GR5	Plani	ng Bituminous Pavement
7 8 9 10	5-04.3(14).INS		ection 5-04.3(14) is supplemented with the following) ust use once preceding any of the following:
11 12 13 14 15	5-04.3(14).0	OPT1.FR5	(January 5, 2004) Use in projects when it is necessary to control the time the planed area will be open and exposed to traffic prior to paving. (1 fill-in)
16 17 18 19 20 21 22 23 24	5-04.3(14).0	OPT2.GR5	(Requires test section and smoothness requirements) (January 5, 2004) Use in projects with large quantities of planing. When using this GSP consider the need to control the amount of time the planed area is open to traffic by adding 5-04.3(14).OPT1.FR5 where appropriate.
24 25 26 27 28 29	5-04.3(14).0	OPT3.GR5	(Vertical Edge Planing) (March 13, 1995) Use in projects when planed lanes shall be paved prior to being open to traffic.
29 30 31 32 33 34 35 36 37 38 39 40 41	5-04.3(14).0	OPT4.GR5	(Beveled Edge Planing) (August 3, 2009) Use in projects when a beveled edge is required on a planed lane that will be opened to traffic prior to paving. The GSP is required for depths greater than 0.20 feet and may be used with the recommendation of the Region Construction Engineer for depths up to 0.20 feet. When using this GSP consider the need to control the amount of time the planed area is open to traffic by adding 5-04.3(14).OPT1.FR5 where appropriate.
42 43	5-04.5.GR5	Payment	
43 44 45 46	5-04.5.INST2.GR5	`	ion 5-04.5 is supplemented with the following) use once preceding any of the following:
47 48 49 50 51 52 53	5-04.5.OPT1.FI	(ປິຊ Mu Fill	urface Smoothness) anuary 5, 2015) ust include with 5-04.3(13).OPT1.FR5 . I-in is the appropriate Pay Adjustment Schedule as termined using the criteria below.

1 2 3 4			<u>Pay Adjustment Schedule 1</u> = Interstate highways, new pavement construction or multiple lift pavement overlays (at least one (1) leveling course + wearing course).
4 5 6 7			Note: Pre-leveling allowances are not to be counted as a leveling course paving lift with respect to this definition.
8 9 10 11 12 13			Pay Adjustment Schedule 2 = 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.
14 15 16			Note: Sufficient preleveling and/or pavement thickness variance allowances should be included to repair obvious existing deficiencies (humps, valleys, ruts etc.).
 17 18 19 20 21 22 23 24 25 26 27 28 29 			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)
30 31 32 33 34 35 36 37 38	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
39 40 41 42	5-04.5.O	PT3.GR5	(Asphalt Binder Revision) (August 3, 2009) Must include with 5-04.3.OPT4.FR5.
43 44	5-05.GR5	Cement	Concrete Pavement
45 46 47	5-05.1.GR5	Des	scription
48 49 50	5-05.1.INST1.GR5		(Section 5-05.1 is supplemented with the following) Must use once preceding any of the following:
50 51 52 53	5-05.1.O	PT1.GR5	(Use when cement concrete pavement has pigmented or textured cement concrete) (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 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 pigment/textured concrete.
5-05.2.OPT1.GR5	Use for "Brick Red" Pigment.
5-05.2.OPT2.FR5	Use for other pigments specified by LA.
5-05.3.OPT1.GR5	Use to add a test panel for pigments and textures.
5-05.3.OPT2.FR5	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.
5-05.5.OPT2.GR5	Payment for pigmented, only, concrete.
5-05.5.OPT3.GR5	Payment for textured, only, concrete.
5-05.5.OPT4.GR5	Payment for both pigmented and textured concrete.

11

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5-05.2.GR5

1 2

8 9

Materials

12		
13	5-05.2.INST1.GR5	(Section 5-05.2 is supplemented with the following)
14		Must use once preceding the following:
15		
16	5-05.2.OPT1.GR5	("Brick Red" pigmented cement concrete pavement)
17		(November 20, 2023)
18		Use in projects requiring brick red in roundabout truck
19		aprons, splitter islands, and mainline crossings. Concrete
20		color must contrast with pavement color.
21		
22	5-05.2.OPT2.FR5	(Other pigments for cement concrete pavement
23		(November 20, 2023)
24		Use in projects requiring color treatment in roundabout
25		truck aprons, splitter islands, and mainline crossings.
26		Concrete color must contrast with pavement color.
27		
28		Requires approval by the Region Landscape Architect or
29		the State Landscape Architect for regions without a
30		landscape architect.
31 32		(1 fill-ins)
32 33		Cat Drimony Diamont from Pagion Landoonno Architagt or
33 34		Get Primary Pigment from Region Landscape Architect or the HQ Roadside and Site Development Manager and
35		then list all the Manufactures and Pigment Color for that
36		Primary Pigment as fill-in information from list shown
37		below:
38	5-05.3.GR5 Co	onstruction Requirements
39		
40	5-05.3.INST1.GR5	(Section 5-05.3 is supplemented with the following)
41		Must use once preceding any of the following:
42		······································
43	5-05.3.OPT1.GR5	(Test Panel)

1 2 3 4 5 6 7 8	concrete pavement islands and mainline Requires approval I	by the Region Landscape Architect or ape Architect for regions without a
8 9 5-05.3.OPT2.FR5 10 11 12 13 14	(August 6, 2012) Use in projects ≀	requiring textured cement concrete on roundabouts, truck aprons, splitter
15 16 17 18 19		by the Region Landscape Architect or ape Architect for regions without a
20 21 22 23 24	or the HQ Roadside then list all the Manu Pattern as fill-in info	ttern from Region Landscape Architect e and Site Development Manager and ufactures and Patterns for that Primary rmation from list below:
25 26	Primary Pattern - A	Ashlar Stone :
	Manufacturer	Pattern

Manufacturer	Pattern
Bomanite	"Mountain Granite
	Ashlar A"
Brickform/Solomon	"Grand Ashlar, FM-
Colors	3675"
Butterfield Color	"Majestic Ashlar"
Euclid chemical	"Ashlar Slate"
Matcrete	"Grand Ashler Slate"
Renew Crete	"Ashler Slate"
Systems	

Primary Pattern - Brick

Manufacturer	Pattern
Bomanite	"Running Bond Belgian
	Block or Running Bond
	Used Brick"
Brickform/Solomon	"Running Bond Used
Colors	Brick"
Butterfield Color	"Pennsylvania Avenue
	Brick Running Bond"
Euclid Chemical	Running Bond Paver
Matcrete	"Old Brick Running
	Bond"

27 28 29

1 2		Primary Pattern - Ri	iver Rock
L		Manufacturer	Pattern
		Bomanite.	River Rock
		Increte Systems	Savanah Stone
		Matcrete	Large River Rock
3			
4	5-05.3.OPT3.FR5		oncrete with Colored Release Agent)
5 6 7		(September 3, 2024)	equiring textured cement concrete
7		pavement patterns	with colored release agents on
8			aprons, splitter islands and mainline
9		crossings.	· · · ·
10		Dequires enpreval	by the Decien Landscone Architect
11 12			by the Region Landscape Architect cape Architect for regions without
13		a landscape architec	
14		(1 fill-in)	
15	5-05.3(1).GR5 C	oncrete Mix Design f	or Paving
16 17	5-05.3(1).INST1.GR5	(Item number 1 of S	ection 5-05.3(1) is supplemented with
18	0 00.0(1).11011.010	the following:)	color o co.o(1) is supplemented with
19		ι,	ding any of the following:
20			
21 22	5-05.3(1).OPT1.GR	5 (Cement Concret (January 2, 2018	
23			, that include reconstruction of the
24			ent with a recommendation from the
25		State Pavements	Engineer.
26		(0, a) = 0	
27 28	5-05.3(1).INST2.GR5		supplemented with the following) ding any of the following:
29		Must use once prece	and any of the following.
30	5-05.3(1).OPT2.GR	5 (Aggregate size f	or textured cement concrete
31		pavement)	
32 33		(November 20, 20	U23) tured cement concrete pavement
33 34			eded in roundabouts, truck aprons,
35			and mainline crossings. Provides
36		00 0 1	ements for textured cement concrete
37		pavement patterr	IS.
38 39		Requires approva	al by the Region Landscape Architect
40			side and Site Development Manager
41			ut a Landscape Architect.
42 43	5-05.3(12).GR5 S	urface Smoothness	
44			
45 46	5-05.3(12).INST1.GR5		of Section 5-05.3(12) is replaced with
40 47		the following) Must use once prece	ding any of the following:
48			only of the following.
49	5-05.3(12).OPT1.GF	R5 (Surface Smooth	ness)

1 2 3 4 5		(January 7, 2019) Use in projects where concrete paving will occur in multiple short segments or in projects where paving will occur in multiple seasons.
6 7	5-05.3(12).INST2.0	GR5 (Section 5-05.3(12) is supplemented with the following) Must use once preceding any of the following:
8 9 10 11 12 13 14	5-05.3(12).OPT	2.GR5 (February 6, 2023) Use in projects where Weigh-in-Motion (WIM) weight sensors are being installed in pavement where Section 5-05 applies. Must include a WIM Site Index Station in the Plans.
15	5-05.3(17).GR5	Opening to Traffic
16 17 18 19	5-05.3(17).INST2.G	GR5 (Section 5-05.3(17) is revised to read) Must use once preceding any of the following:
20 21 22 23 24 25 26 27 28	5-05.3(17).OPT	1.GR5 (Maturity Testing for Concrete Pavement) (August 7, 2017) 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.
29 30	5-05.4.GR5 M	leasurement
31 32 33 34	5-05.4.INST1.GR5	(Section 5-05.4 is supplemented with the following) Must use once preceding any of the following:
35 36 37 38	5-05.4.OPT1.GR5	(August 6, 2012) (Textured and pigmented cement concrete pavement per square yard.)
39 40	5-05.5.GR5 Pa	ayment
40 41 42 43	5-05.5.INST1.GR5	(Section 5-05.5 is supplemented with the following) Must use once preceding any of the following:
43 44 45 46	5-05.5.OPT2.GR5	(August 6, 2012) Pigmented cement concrete pavement per square yard.
40 47 48 49 50	5-05.5.OPT3.GR5	(August 6, 2012) Textured cement concrete pavement per square yard. Use with
50 51 52 53	5-05.5.OPT4.GR5	(August 6, 2012) Textured and pigmented cement concrete pavement per square yard.

1 2 3 4 5 6 7	5-05.5.OF	PT5.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.
8 9 10 11	5-SA1.FR5		

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1 2 2	5-04.GR5 Hot Mix Asphalt
3 4	5-04.2.GR5
5	Materials
6 7	5-04.2(2).GR5
8	Mix Design – Obtaining Project Approval
9	
10 11 12	5-04.2(2).INST1.GR5 Section 5-04.2(2) is supplemented with the following:
13	5-04.2(2).OPT1.FR5
14	(January 3, 2011)
15	ESAL's The number of ESAL's for the design and eccenteres of the UNA shell be ***
16 17 18	The number of ESAL's for the design and acceptance of the HMA shall be *** \$\$1\$\$ *** million.
19	5-04.2(9-03.21(1)A).GR5
20	Reclaimed Asphalt Shingles
21	Section 9-03.21(1)A, including title, is revised to read:
22 23	5-04.2(9-03.21(1)A).OPT1.2025.GR5
24	(April 27, 2022)
25	Recycled Asphalt Shingles
26	Recycled asphalt shingles shall be manufactured waste shingles and shall be non-
27	asbestos containing material (ACM) as defined in 40 CFR 61 Subpart M and tested
28	in accordance with 40 CFR part 763, subpart E, appendix E, Section 1, Polarized
29	Light Microscopy (PLM) Test Method EPA/600/R-93/116 by a certified testing
30	laboratory. The PLM Test Method to determine ACM content will be the standard PLM
31	Test Method to determine ACM less than 1.0%. Additionally, the PLM 1000 Point
32	Count Test Method to determine asbestos less than 0.1% is required. At a minimum,
33	the laboratory testing for asbestos content will be certified by one or more the
34	following: National Voluntary Laboratory Accreditation Program (NVLAP), American
35	Industrial Hygiene Association IH Laboratory Accreditation, or Washington State Department of Ecology for analysis of asbestos in bulk material. The Contractor shall
36 37	keep all ACM and asbestos test results on file and provide copies to the Engineer
38	when submitting a HMA mix design for approval in accordance with Section 5-04.
39	The Contractor shall provide the testing and certification for toxicity characteristics in
40	accordance with Section 9-03.21(1) prior to delivery and placement of the recycled
41	asphalt shingles and use of the RAS in HMA. The Contractor shall also provide a
42	Safety Data Sheet (SDS) of the RAS specifically detailing all ingredients of the
43	manufactured waste shingles. The ingredients list needs to include the amount of
44	asbestos as well as all types of fibrous materials.
45	
46	5-04.2(9-03.8(7)).GR5
47	HMA Tolerances, Specification Limits and Adjustments
48 49	The second paragraph of item number 1 of Section 9-03.8(7) is revised to read:
50	5-04.2(9-03.8(7)).OPT1.GR5
51	(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 ± 4% from the JMF, the No. 200 tolerance is ± 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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8 5-04.3.GR5

9 **Construction Requirements**

- 10 11 5-04.3.INST1.GR5
- 12 Section 5-04.3 is supplemented with the following:
- 13 14 5-04.3.0PT4.FR5
- 15 (January 3, 2017)

The expected percentage of new asphalt binder in the HMA is *** \$\$1\$\$ ***. Should the 16 17 actual percentage of new asphalt binder required by the job mix formula for HMA 18 produced with Agency-provided aggregate vary by more than plus or minus 0.3-percent 19 an adjustment in payment will be made. The adjustment in payment (plus or minus) will 20 be based on the invoice cost to the Contractor. When RAP and/or RAS are used in the 21 production of HMA the adjustment will be reduced by the percentage of RAP and/or RAS 22 asphalt binder. No adjustment will be made when the Contractor elects not to use a 23 Contracting Agency provided source.

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5-04.3(1).GR5

Weather Limitations

27 28 5-04.3(1).INST1.GR5

The first sentence of Section 5-04.3(1) is revised to read:

- 31 5-04.3(1).OPT1.FR5
 - (August 3, 2009)

HMA for wearing course shall not be placed on any travelled way from *** \$\$1\$\$ *** and through March 31st of the following year without written approval from the Engineer.

36 37 5-04.3(3).GR5

Equipment

- 39 40 5-04.3(3).INST1.GR5
 - Section 5-04.3(3) is supplemented with the following:
- 42
- 43 5-04.3(3).OPT1.GR5 44
 - (March 13, 1995)
- 45 Reference lines will be required for both outer edges of the traveled way for each 46 mainline roadway for vertical control in accordance with Section 5-04.3(3). 47
- 48 5-04.3(3)C.GR5
- 49 Pavers
- 50
- 51 5-04.3(3)C.INST1.GR5
- 52 Section 5-04.3(3)C is supplemented with the following:

1	
2	5-04.3(3)C.OPT1.GR5
3	(April 4, 2016)
4	Reference lines will be required for both outer edges of the traveled way for
5	each mainline roadway for vertical control in accordance with Section 5-
6 7	04.3(3)C.
7 8	5-04.3(3)D.GR5
9	Material Transfer Device or Material Transfer Vehicle
10	
11	5-04.3(3)D.INST1.GR5
12	Section 5-04.3(3)D including title is revised to read:
13	
14	5-04.3(3)D.OPT1.GR5
15	(April 4, 2016)
16	Section 5-04.3(3)D is deleted in its entirety.
17 18	5-04.3(3)D.OPT2.GR5
19	(August 1, 2011)
20	Material Transfer Vehicle
21	Direct transfer of HMA from the hauling equipment to the paving machine will
22	not be allowed in the top 0.30-feet of the pavement section of hot mix asphalt
23	(HMA) used in traffic lanes with a depth of 0.08-feet or greater. A material
24	transfer vehicle (MTV) shall be used to deliver the HMA from the hauling
25	equipment to the paving machine. HMA placed in irregularly shaped and minor
26	areas such as road approaches, tapers, and turn lanes are excluded from this
27	requirement.
28 29	The MTV shall mix the HMA after delivery by the hauling equipment and prior to
29 30	lay down by the paving machine. Mixing of the HMA shall be sufficient to obtain
31	a uniform temperature throughout the mixture.
32	
33	5-04.3(9).GR5
34	HMA Mixture Acceptance
35	
36	5-04.3(9).INST1.GR5
37	Section 5-04.3(9) is supplemented with the following:
38 39	5-04.3(9).OPT1.FR5
40	(August 1, 2016)
41	Visual Evaluation
42	The following HMA will be accepted by visual evaluation:
43	
44	*** \$\$1\$\$ ***
45	
46	5-04.3(10).GR5
47	HMA Compaction Acceptance
48	
49 50	5-04.3(10).INST1.GR5 The column in Table 14 of Section 5-04.3(10), titled "Statistical Evaluation of HMA
50 51	Compaction is Required for", is supplemented with the following:
52	

1 2 3 4 5	 5-04.3(10).OPT1.GR5 (April 3, 2017) Any HMA for which the specified course thickness is greater than 0.10 feet and the HMA is placed in the shoulder.
6 7 8	5-04.3(10)D.GR5 HMA Compaction – Visual Evaluation
9 10	5-04.3(10)D.INST2.GR5 The last sentence in Section 5-04.3(10)D is revised to read:
11 12 13 14 15 16	5-04.3(10)D.OPT1.GR5 (April 4, 2016) HMA that is used for preleveling shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.
17 18 19	5-04.3(12).GR5 <i>Joints</i>
20 21 22	5-04.3(12).INST1.GR5 Section 5-04.3(12) is supplemented with the following:
23 24 25 26 27	5-04.3(12).OPT1.GR5 (January 5, 2004) The HMA overlay shall be feathered to produce a smooth riding connection to the existing pavement.
28 29 30 31	HMA utilized in the construction of the feathered connections shall be modified by eliminating the coarse aggregate from the mix at the Contractor's plant or the commercial source or by raking the joint on the roadway, to the satisfaction of the Engineer.
32 33 34	5-04.3(13).GR5 Surface Smoothness
35 36 37	5-04.3(13).INST1.GR5 The first four paragraphs of Section 5-04.3(13) are revised to read:
 38 39 40 41 42 43 44 45 46 47 48 	5-04.3(13).OPT1.FR5 (January 5, 2015) Pavement surface smoothness for this project will include International Roughness Index (IRI) testing that will be completed by the Contracting Agency. The Contracting Agency will perform the IRI testing on each through lane, climbing lane, and passing lane, greater than one mile in length and these lanes will be subject to incentive/disincentive adjustments. IRI testing for a lane will be reported every 0.01 mile by averaging the IRI data for the left and right wheelpath within the section.
49 50 51 52	tested and are paved with HMA will be included in the IRI testing. Bridge structures, approach slabs and 0.02 miles on either side of the bridge structures and approach slabs will be eligible for price adjustment incentives and excluded from disincentive adjustments.

1 2 Ramps, shoulders and tapers will not be included in IRI testing for pavement 3 smoothness and will not be subject to incentive adjustments. They will be subject to 4 parallel and transverse 10-foot surface requirements, corrective work and 5 disincentive adjustments. 6 7 Upon completion of the paving operation the Contractor shall notify the Engineer that 8 the roadway is ready for IRI testing. Notification shall not take place until the following 9 conditions are met for all lanes to be tested on the project: 10 11 1. All lanes are open to traffic, unrestricted and in their final configuration. 12 13 2. All permanent pavement markings are in place or temporary pavement 14 markings to the satisfaction of the Engineer. 15 16 If requested by the Engineer the Contractor shall sweep the roadway immediately 17 prior to testing. If the sweeping is needed as a result of the Contractor's operation it 18 shall be the responsibility and expense of the Contractor. Should the Contracting 19 Agency not be able to complete the testing as a result of the Contractor's Work the 20 testing will be rescheduled and any additional costs to the Contracting Agency will 21 be deducted from monies due or that may become due the Contractor. 22 23 It is the intent that the testing will be completed and the results provided to the 24 Contractor within 30 calendar days of the Contractor's notification that the roadway 25 is ready for testing. If weather or other conditions exist which are determined by the 26 Engineer to be unsuitable for IRI testing of the pavement then the testing will be 27 deferred until favorable conditions are available and the 30 calendar days extended. 28 29 Provided that all other Work required for Substantial Completion has been 30 completed; the day following the Contractor's notification that the roadway is ready 31 for IRI testing through the day the IRI data is provided to the Contractor will be 32 nonworking days in accordance with Section 1-08.5. 33 34 Corrective work for pavement smoothness may be taken by the Contractor prior to 35 IRI testing. After completion of the IRI testing the Contractor shall measure the 36 smoothness of each 0.01 mile section with an IRI greater than 125 with a 10-foot 37 straightedge within 14 calendar days or as approved by the Engineer. The 38 Contractor shall identify all locations that require corrective work and provide the 39 straight edge measurements at each location that exceeds the allowable limit to the 40 Engineer. If all measurements in a 0.01 section comply with the smoothness 41 requirements the Contractor shall provide the maximum measurement to the 42 Engineer and a statement that corrective work is not required. Unless approved by 43 the Engineer, corrective work shall be taken by the Contractor for pavement identified 44 by the Contractor or Engineer that does not meet the following requirements: 45 46 1. The completed surface of all courses shall be of uniform texture, smooth, 47 uniform as to crown and grade, and free from defects of all kinds. 48 49 2. The completed surface of the wearing course shall not vary more than $\frac{1}{2}$ 50 inch from the lower edge of a 10-foot straightedge placed on the surface 51 parallel to the centerline. 52

1 2 3	 The completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.
3 4 5 6 7	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:
7 8 9 10	 Diamond grinding; repairs shall not reduce pavement thickness by more than ¼ inch.
10 11 12	2. Removal and replacement of the HMA wearing course.
12 13 14	3. By other method approved by the Engineer.
15 16 17 18 19 20 21 22	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-
23 24 25 26	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.
27 28 29 30 31	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.
32	SR Begin End IRI IRI
	Running Avg NB/EB SB/WB

			Running Avg	Running Avg
			NB/EB	SB/WB
	Milepost	Milepost	(Inch/mile)	(Inch/mile)
\$\$2\$\$	\$\$3\$\$	\$\$4\$\$	\$\$5\$\$	\$\$6\$\$

33 *** 34

35 5-04.3(13).INST2.GR5

36 The second sentence of Section 5-04.3(13) is deleted and replaced with the following:

37

38 5-04.3(13).OPT2.FR5

39 (March 13, 1995)

1 2 3 4	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:
5 6	1. *** \$\$1\$\$ ***
7 8 9 10	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.
11 12 13	5-04.3(13).INST3.GR5 The second sentence of Section 5-04.3(13) is revised to read:
14	5-04.3(13).OPT3.GR5
15	(January 5, 2004)
16	The completed surface of the wearing course shall not vary more than 1/4 inch from
17	the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.
18	
19	5-04.3(13).INST4.GR5
20	Section 5-04.3(13) is supplemented with the following:
21	
22 23	5-04.3(13).OPT4.GR5 (February 6, 2023)
23 24	This Contract includes Weigh-in-Motion (WIM) sensors and additional surface
2 4 25	smoothness requirements within the WIM evaluation area.
26	shioumess requirements within the wind evaluation area.
27	The WIM evaluation area is 400 feet in length, beginning 275 feet before the WIM
28 29	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).
30	
31 32	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
33 34 35	placed on the surface parallel to the centerline of the roadway, when evaluated as described in ASTM E1318-09 (2017), Section 6.1.5.
36	Deviations within the WIM evaluation area that are in excess of these requirements
37	will not be accepted and shall be corrected by one of the following methods:
38	
39	1. Remove and replace the final roadway surface layer, or
40	
41	2. Remove material from high places by grinding with an accepted grinding
42	machine, or
43	
44	By other method accepted by the Engineer.
45	
46	Correct defects until there are no deviations anywhere within the WIM evaluation
47	area that are greater than allowable tolerances.
48	
49 50	5-04.3(14).GR5
50	Planing Bituminous Pavement
51	

1 2 3	5-04.3(14).INST1.GR5 Section 5-04.3(14) is supplemented with the following:
4 5 6 7 8 9	5-04.3(14).OPT1.FR5 (January 5, 2004) The Contractor shall perform the planing operations no more than *** \$\$1\$\$ *** calendar days ahead of the time the planed area is to be paved with HMA, unless otherwise allowed by the Engineer in writing.
10 11 12 13 14 15 16 17 18 19	5-04.3(14).OPT2.GR5 (January 5, 2004) At the start of the planing operation the Contractor shall plane a 500 foot test section to be evaluated by the Engineer for compliance with the surface tolerance requirements. The test section shall have a minimum width of 10 feet. If the planing is in accordance with the surface tolerance requirements, the Contractor may begin production planing. If the planing is not in conformance with the surface tolerance requirements, the Contractor shall make adjustments to the planing operation and then plane another test section.
20 21 22 23 24 25	If at any time during the planing operation the Engineer determines the required 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 produced or until successful completion of another test section. The forward speed during production planing shall not exceed the speed used for the test section.
26 27 28 29 30	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.
31 32	Pavement repair operations, when required, shall be accomplished prior to planing.
33 34 35 36 37 38 39 40 41	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.
42 43 44 45 46 47 48	 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,
49 50 51	or other approved method(s), to eliminate the vertical edge(s). The beveled edge(s) shall be constructed at a 4:1 slope.

1 2 3	5-04.3(16).GR5 <i>HMA Road Approaches</i>
4 5 6	5-04.3(16).INST1.GR5 Section 5-04.3(16) is revised to read:
7 8 9 10 11 12	5-04.3(16).OPT1.FR5 (August 3, 2009) HMA for wearing course shall not be placed on any travelled way from *** \$\$1\$\$ *** and through March 31st of the following year without written approval from the Engineer.
13 14 15	5-04.5.GR5 Payment
16 17 18	5-04.5.INST2.GR5 Section 5-04.5 is supplemented with the following:
19 20 21 22 23 24 25	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:
26 27 28 29 30 31 32	"HMA CI PG" "HMA for Approach CI PG" "HMA for Preleveling CI PG" "HMA for Pavement Repair CI PG" "Commercial HMA"
33 34 35	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.
36 37 38 39 40 41 42 43 44	The Contracting Agency will establish asphalt binder reference costs twice each month and post the information on the Agency website at: <u>https://wsdot.wa.gov/business- wsdot/contracts/about-public-works-contracts/payments-reporting/asphalt-binder- reference-cost</u> . 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.
45 46 47 48 49	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:
50 51	If the reference cost is greater than or equal to 105% of the base cost, then

1 2	Asphalt Cost Price Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).
3 4 5 6 7	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).
8 9 10 11 12	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.
13 14 15 16 17	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.
18 19 20	Q = total tons of all classes of HMA paid in the current month's progress payment.
20 21 22 23 24 25 26	"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.
26 27 28 29 30	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.

1 5-05.GR5 2 **Cement Concrete Pavement** 3 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 pigmented cement concrete pavement at the locations and depth as shown in the Plans. 13 14 15 5-05.2.GR5 Materials 16 17 18 5-05.2.INST1.GR5 19 Section 5-05.2 is supplemented with the following: 20 21 5-05.2.OPT1.FR5 22 (August 6, 2012) 23 Pigment color for cement concrete pavement shall be one chosen from the manufacturers 24 and colors listed below: 25 26 *** \$\$1\$\$ *** 27 28 The pigment shall be incorporated in accordance with the manufacturer's 29 recommendations. 30 5-05.2.OPT1.GR5 31 32 (November 20, 2023) 33 Pigment color for "brick red" cement concrete pavement shall match SAE AMS-STD-595 34 Color #32169. The pigment shall be incorporated in accordance with the manufacturer's 35 recommendations. 36 37 5-05.2.OPT2.FR5 38 (November 20, 2023) 39 Pigment color for cement concrete pavement shall match SAE-AMS-STD-595 Color # *** \$\$1\$\$ *** 40 41 42 The pigment shall be incorporated in accordance with the manufacturer's 43 recommendations. 44 45 5-05.3.GR5 **Construction Requirements** 46 47 48 5-05.3.INST1.GR5 49 Section 5-05.3 is supplemented with the following: 50

1	5-05.3.OPT1.GR5
2	(August 6, 2012)
2	Pigmented Cement Concrete
4	Curing shall be in accordance with Section 5-05.3(13) and be applied to the surface in
5	accordance with the manufacturer's recommendations. If liquid membrane-forming
6	concrete curing compound is used it shall meet the requirements of ASTM C 309 Type 1-
7	D.
8	
9	The Contractor shall provide a 2 foot by 2 foot sample panel, that has been cured a
10	minimum seven days, showing the color of cement concrete to the Engineer for
11	acceptance before placing any pigmented cement concrete pavement.
12	
13	5-05.3.OPT2.FR5
14	(August 6, 2012)
15	Textured Cement Concrete
16	Textured cement concrete pavement pattern shall be one chosen from the manufacturers
17	and patterns listed below:
18 10	*** \$\$1\$\$ ***
19 20	22122
20	A mat or stamp shall be used to imprint the pattern into the concrete surface.
22	
23	Curing shall be in accordance with Section 5-05.3(13) and be applied to the surface in
24	accordance with the manufacturer's recommendations. If liquid membrane-forming
25	concrete curing compound is used it shall meet the requirements of ASTM C 309 Type 1-
26	D.
27	
28	5-05.3.OPT3.FR5
29	<u>(September 3, 2024)</u>
30	Textured Cement Concrete with Colored Release Agent
31	Textured cement concrete pavement pattern shall be one chosen from the manufacturers
32 33	and patterns listed below:
34	*** \$\$1\$\$ ***
35	
36	<u>A dark gray release agent shall be used with the mat or stamp to imprint the pattern into</u>
37	the concrete surface in accordance with the manufacturer's recommendations.
38	
39	Curing shall be in accordance with Section 5-05.3(13)A and be applied to the surface in
40	accordance with the manufacturer's recommendations. The liquid membrane-forming
41	concrete curing compound shall meet the requirements of ASTM C 309 Type 1-D.
42	
43	5-05.3(1).GR5
44 45	Concrete Mix Design for Paving
45 46	5-05.3(1).INST1.GR5
40 47	Item number 1 of Section 5-05.3(1) is supplemented with the following:
48	
49	5-05.3(1).OPT1.GR5
50	(January 2, 2018)
51	Coarse aggregate derived from the recycling of Cement Concrete Pavement
52	removed from the project may be used as coarse aggregate or blended with coarse

1 aggregate for Cement Concrete Pavement. The Contractor shall remove all 2 bituminous material, joint sealant and backer material from the existing pavement 3 prior to removal for recycling. The recycled concrete aggregates shall meet the 4 requirements of Section 9-03.21(1)B. Cement Concrete Pavement experiencing 5 carbonate silica reaction, sulfate reaction, D cracking or any other conditions that 6 may affect concrete durability shall not be used. Cement Concrete Pavement mix 7 designs using recycled concrete aggregates will require the use of Low Alkali Cement 8 or 25 percent Class F fly ash by total weight of the cementitious materials or the 9 Contractor shall submit evidence that other ASR mitigating measures control 10 expansion in accordance with Section 9-03.1(1). 11 12 5-05.3(1).INST2.GR5 13 Section 5-05.3(1) is supplemented with the following: 14 15 5-05.3(1).OPT2.GR5 16 (November 20, 2023) 17 Aggregate for Textured Cement Concrete Pavement 18 Fine aggregate and coarse aggregate shall be a combined gradation in accordance 19 with Section 9-03.1(5) and have a nominal maximum aggregate size equal to $\frac{1}{2}$ -inch, 20 $\frac{3}{4}$ -inch, 1-inch, or $1-\frac{1}{2}$ -inch sieve. 21 22 The Contractor shall select the nominal maximum aggregate size that allows the 23 specified textured cement concrete pavement pattern to be imprinted into the 24 concrete surface to the depth specified for the textured pattern. If the textured cement 25 concrete pattern is unsatisfactory, the Contractor shall remove and replace the 26 concrete pavement at no expense to the Contracting Agency. 27 28 5-05.3(12).GR5 29 Surface Smoothness 30 31 5-05.3(12).INST1.GR5 32 The third paragraph of Section 5-05.3(12) is replaced with the following: 33 34 5-05.3(12).OPT1.GR5 35 (January 7, 2019) 36 Operate the inertial profiler in accordance with AASHTO R 57. Collect two 37 longitudinal traces, one in each wheel path. Collect profile data in a continuous pass 38 including areas excluded from pay adjustments for each section paved. The 39 Contractor shall determine when each section is to be tested except that the 40 minimum length to be tested shall be 528 feet unless accepted by the Engineer. 41 Where a completed section of concrete pavement abuts a segment to be completed 42 later in the project, the 50 feet adjacent to uncompleted section shall be included in 43 the testing and incentive/disincentive for the uncompleted segment. Provide seven 44 calendar days notice to the Engineer prior to testing. 45 46 5-05.3(12).INST2.GR5 47 Section 5-05.3(12) is supplemented with the following: 48 49 5-05.3(12).OPT2.GR5 50 (February 6, 2023) 51 This Contract includes Weigh-in-Motion (WIM) sensors and additional surface 52 smoothness requirements within the WIM evaluation area.

1	
2	The WIM evaluation area is 400 feet in length, beginning 275 feet before the WIM
3	Site Index Station. The width of the WIM evaluation area includes all lanes where
4	sensors are present and extends 0.75 feet beyond the edge of the lane(s).
5	
6	The completed surface shall be sufficiently smooth such that a 6-inch diameter
7	circular plate, 0.125 inches thick, cannot be passed beneath a 16-foot straightedge
8	placed on the surface parallel to the centerline of the roadway, when evaluated as
9	described in ASTM E1318-09 (2017), Section 6.1.5.
10	
11	Deviations within the WIM evaluation area that are in excess of these requirements
12	will not be accepted and shall be corrected by one of the following methods:
13	1 Demove and replace the final readings ourface layer ar
14 15	1. Remove and replace the final roadway surface layer, or
15 16	2. Remove material from high places by grinding with an accepted grinding
17	 Remove material from high places by grinding with an accepted grinding machine, or
18	machine, or
19	3. By other method accepted by the Engineer.
20	o. By other method docepted by the Engineer.
21	Correct defects until there are no deviations anywhere within the WIM evaluation
22	area that are greater than allowable tolerances.
23	
24	5-05.3(17).GR5
25	Opening to Traffic
26	
27	5-05.3(17).INST2.GR5
28	Section 5-05.3(17) is revised to read:
29	
30	5-05.3(17).OPT1.GR5
31	(August 7, 2017)
32	Maturity Testing for Concrete Pavement
33	The pavement shall not be opened to traffic until the Strength-Maturity Relationship
34 25	(SMR) demonstrates the pavement has a minimum compressive strength of 2,500
35 36	psi and approval of the Engineer. The pavement shall be cleaned prior to opening
30 37	to traffic.
38	The Contractor shall establish a Maturity Value on the approved concrete mix through
39	the use of a testing program following the WSDOT Maturity Method Test Procedure
40	for estimating concrete strength.
41	
42	The Contractor shall establish the SMR at least 14 calendar days prior to the
43	production pours. The Contractor shall notify the Engineer 7 days prior to performing
44	the SMR as to the time, date and location where the SMR will be performed. The
45	Contractor shall allow WSDOT the opportunity to place maturity loggers in the test
46	cylinders in order to calibrate the WSDOT maturity meter. A SMR shall be developed
47	for each mix used on the project. Referenced SMRs from previous projects will not
48	be allowed.
49	
50	The Contractor shall be responsible for the installation of the maturity logger/sensors
51	within the concrete pavement pour area. For panel replacements performed under
52	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.
- 8 The Contractor shall perform the Quality Control Procedure to Verify the Strength 9 Maturity Relationship on days 1 and 2 of concrete placement as indicated in the test
 10 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.
 - 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 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

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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 $0 \degree C$ (32 $\degree F$).

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 m ³ (4 yd ³). 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.
5	Perform compression strength tests in accordance with FOP for AASHTO T 22 to target 2,500 psi for opening to traffic. In targeting the opening to traffic requirement and to properly characterize and validate the maturity calibration curve at least three target cylinder breaks must be broken prior to 2,500 psi. Test three cylinders at each age and compute the average strength. The cylinders with loggers/sensors may be tested if additional cylinders are needed.
	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.
6	At each test age, record the individual and average values of maturity and strength for each batch on a permanent data sheet
7	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.

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.

1 2 3	5-05.4.GR5 Measurement
4 5 6	5-05.4.INST1.GR5 Section 5-05.4 is supplemented with the following:
7 8 9 10 11	 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.
12 13 14	5-05.5.GR5 Payment
15 16 17	5-05.5.INST1.GR5 Section 5-05.5 is supplemented with the following:
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 45 36 37 38 39 40 41 42	 5-05.5.OPT2.GR5 (August 6, 2012) "Pigmented Cement Concrete Pavement", per square yard The unit Contract price per square yard for Pigmented Cement Concrete Pavement shall be full pay for all costs incurred to perform the Work in this Specification.
	 5-05.5.OPT3.GR5 (August 6, 2012) "Textured Cement Concrete Pavement", per square yard The unit Contract price per square yard for Textured Cement Concrete Pavement shall be full pay for all costs incurred to perform the Work in this Specification.
	 5-05.5.OPT4.GR5 (August 6, 2012) "Textured and Pigmented Cement Concrete Pavement", per square yard The unit Contract price per square yard for Textured and Pigmented Cement Concrete Pavement shall be full pay for all costs incurred to perform the Work in this Specification.
	5-05.5.OPT5.GR5 (August 5, 2013) All costs in connection with conducting concrete pavement maturity testing and surface cleaning prior to opening to traffic shall be included in the unit Contract price per cubic yard for "Cement Conc. Pavement" and per square yard for "Replace Cement Concrete Panel", if either or both of the items are included in the Contract.
43 44	5-05.5(1).GR5 Pavement Thickness
45 46 47 48	5-05.5(1)B.GR5 Vacant
40 49 50 51	5-05.5(1)B.OPT1.GR5 (January 7, 2019) Vacant

1	DIVISION6.GR6	Structures	
2 3 4	6-01.GR6	General Re	quirements for Structures
4 5 6	6-01.5.GR6	Work /	Access and Temporary Structures
7 8	6-01.5.INST1	· · ·	ection 6-01.5 is re-titled and revised to read) ust use once preceding any of the following:
9 10 11 12 13 14 15 16 17 18 19 20 21	6-01.5.OP	Г1.FB6	(Work Access) (April 1, 2019) Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. The fill-in specifies the name of the environmentally sensitive area or waterway. Include with <i>6-01.5.OPT1(B).GB6</i> . Must use once preceding any of the following: (1 fill-in)
22 23 24 25 26 27 28 29 30 31 32	6-01.5.	OPT1(A).FB6	 (Waterway Clearance Requirements) (April 6, 2015) Use in projects requiring the Contractor to construct the work access structure to conform to navigation clearance requirements of the USCG. The first fill-in specifies the minimum horizontal clearance required for the channel span. The second fill-in specifies the minimum elevation required for the bottom of the work access structure superstructure. Include with 6-01.5.0PT1.FB6 and 6-01.5.0PT1(B).GB6. (2 fill-ins)
33 34 35 36 37 38 39 40 41	6-01.5.	OPT1(B).GB6	6 (Payment) (April 6, 2015) Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. Include with 6-01.5.OPT1.FB6 .
42 43 44 45 46 47 48 49 50 51 52 53	6-01.5.OP	Г2.FB6	(Temporary Bridge) (August 6, 2018) Use in projects requiring construction of a temporary bridge. The first fill-in specifies the minimum overall length of the temporary bridge, and can also be used to specify requirements for number of spans and lengths of specific spans, if necessary. The second fill-in specifies the minimum roadway width required between barriers or railings. The third fill-in specifies the minimum vertical clearance dimension to the roadway, body of water, or surface, specified in the fourth fill-in. If the length, width or

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	6-02.2.GR6	Ма	terials
11 12 13 14 15	6-02.2.INST	1.GR6	(Section 6-02.2 is supplemented with the following) Must use once preceding any of the following:
16 17 18 19 20 21 22	6-02.2.OI	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 .
23 24 25 26 27	6-02.2.OI	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 .
28 29 30 31 32 33 34 35 36 37	6-02.2.OI	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).
38 39 40 41 42 42	6-02.2.01	PT27.GB6	(Polyester Concrete) (April 6, 2015) Use in projects where polyester concrete is required. Include with 6-02.3.OPT9.GB6 .
43 44 45 46 47 48	6-02.2.OI	PT28.GB6	(Elastomeric Concrete) (April 6, 2015) Use in projects where elastomeric concrete is required. Include with 6-02.3.OPT10.GB6 .
49 50	6-02.2.OI	PT46.GB6	(Bridge Supported Utilities) Must use once preceding any of the following:
51 52	6-02.2	2.OPT46(A)).GB6 (June 26, 2000)

1 2 3 4		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.
5 6 7 8 9 10 11 12 13	6-02.2.OPT46(B).GB6	 (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.
14 15 16 17 18 19 20 21	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.
22 23 24 25 26 27 28 29 30	6-02.2.OPT46(D).GB6	 6 (Bridge Supported Utilities) (June 26, 2000) Use in projects with bridge supported utilities when the supports include pipe rolls or pipe saddles. Include with <i>6-02.5.0PT92.FB6</i> and other applicable bridge supported utility material and construction requirement GSP's.
31 32 33 34 35 36 37 38	6-02.2.OPT46(E).GB6	 (Bridge Supported Utilities) (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 <i>6-02.5.0PT92.FB6</i> and other applicable bridge supported utility material and construction requirement GSP's.
39 40 41 42 43 44 45 46 47 48 49 50 51 52	(L t c v v v v t t t	Bridge Drain Risers) April 30, 2001) Jse in projects requiring the raising of bridge drains prior o 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. nclude with 6-02.4.OPT26.GB6 and 6-02.5.OPT51.GB6 if he unit contract bid item "Modify Bridge Drain" is used to bay for the work.
52 53	6-02.2.OPT58.GB6 (Core Drilled Bridge Deck Drain)

1 2 3 4 5	Ŭ: In 02	September 8, 2020) se in projects with core drilled bridge deck drains. clude with 6-02.3(10)D.OPT12.GB6, and either 6- 2.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6- 2.5.OPT59.FB6.
6 7 8 9 10 11	(A Us	Geismic Retrofit Materials) April 6, 2015) se in projects with seismic retrofit construction. ust use once preceding any of the following:
12 13 14 15 16 17 18 19	6-02.2.OPT60(B).GB6	(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.
20 21 22 23 24 25 26 27 28 29	6-02.2.OPT60(C).GB6	(Structural Steel and Steel Fastening Hardware) (November 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.
29 30 31 32 33 34 35 36 37 38	6-02.2.OPT60(D).GB6	(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.
 39 40 41 42 43 44 45 46 47 48 49 	6-02.2.OPT60(F).GB6	(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.
50 51 52	6-02.2.OPT61.GB6	(PCPS Conc. SIP Panels) (September 8, 2020)

1 2 3 4			Use in projects with precast prestressed concrete stay- in-place panels. Include with 6-02.3(9)A.OPT6.GB6, 6- 02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6- 02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.
5 6 7	6-02.3.GR6	Constru	ction Requirements
7 8 9 10	6-02.3.INST1.GR6	(ction 6-02.3 is supplemented with the following) st use once preceding any of the following:
10 11 12 13 14 15 16 17	6-02.3.OPT1.G		Epoxy Crack Sealing) September 7, 2021) Jse in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with 6 - 02.2.OPT4.GB6, 6-02.4.OPT24.GB6 , and 6 - 02.5.OPT49.GB6.
18 19 20	6-02.3.OPT2.G	- (Bridge Supported Utilities) /lust use once preceding any of the following:
20 21 22 23 24 25 26 27	6-02.3.OPT	2(A).GB6	(Bridge Supported Utilities) (August 3, 2015) Use in projects with bridge supported utilities when the supports include concrete inserts. Include with 6 - 02.2.OPT46.GB6, 6-02.4.OPT1.FB6, and 6 - 02.5.OPT26.FB6 .
28 29 30 31 32 33 34 35 36 37	6-02.3.OPT	2(B).GB6	(Bridge Supported Utilities) (June 26, 2000) Use in projects with bridge supported utilities when the Contractor furnishes and installs the supports and the utility pipe or conduit pipe. Include with 6- 02.5.OPT92.FB6 and other applicable 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.
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	6-02.3.OPT	2(C).FB6	(Bridge Supported Utilities) (June 26, 2000) Use in projects with bridge supported utilities when the Utility Company furnishes, or furnishes and installs, some of the supports and pipe for the utilities. The first fill-in specifies the items to be furnished and installed by the Utility Company. The second and third fill-ins specify the items to be installed by the Contractor which are furnished by either the Utility Company or the Contractor. Include with 6-02.5.0PT92.FB6 and 6- 02.5.0PT93.GB6, and other applicable bridge supported utility material GSP's. Include with 6- 02.2.0PT46(A).GB6, 6-02.3.0PT2(A).GB6, 6- 02.4.0PT1.FB6, and 6-02.5.0PT26.FB6 when the supports include concrete inserts.

1 2		(3 fill-ins)
3 4		Seismic Retrofit) lust use once preceding one of the following:
5 6 7 8 9 10 11 12 13 14 15	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.
16 17 18 19 20 21 22 23 24 25 26	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.
27 28 29 30 31 32 33 34 35 36 37	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, 6-02.5.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.
38 39 40 41 42 43 44 45 46 47 48 49	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.
50 51 52	6-02.3.OPT8(F).FB6	(Field Measuring Waiver for Specific Existing Bridge Columns) (April 6, 2015)

1 2 3 4 5 6 7 8 9 10 11		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- 02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6- 03.3(30).OPT1.FB6. (1 fill-in)
12 13 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	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 <i>6-02.3.OPT8(B).GB6, 6- 02.4.OPT44.FB6 and 6-02.5.OPT72.GB6,</i> and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
35 36 37 38 39 40 41 42 43 44 45 46	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.
47 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 reinforcement. Include with 6 -

1 2 3		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 3 4 5 6 7 8 9 10 11 12 13 14	6-02.3.OPT8(L).GE	 (Longitudinal Seismic Restrainers) (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, 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.
15 16 17 18 19 20 21 22 23 24 25 26	6-02.3.OPT8(M).G	 B6 (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.
27 28 29 30 31	6-02.3.OPT9.GB6	(Polyester Concrete) (January 7, 2019) Use in projects where polyester concrete is required. Include with 6-02.2.OPT27.GB6 .
32 33 34 35	6-02.3.OPT10.GB6	(Elastomeric Concrete) (January 7, 2019) Use in projects where elastomeric concrete is required. Include with 6-02.2.OPT28.GB6 .
36 37	6-02.3(2).GR6	Proportioning Materials
38 39 40 41 42	6-02.3(2).INST1.GR6	(Section 6-02.3(2) 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	6-02.3(2).OPT1.GE	 (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 joint modification GSPs supplementing Sections 6- 02.2 and 6-02.3(13).

1	6-02.3(5).GR6	Accept	ance of Concrete
2 3 4	6-02.3(5)G.GR6		pling and Testing for Temperature, Consistency, Air Content
5 6	6-02.3(5)G.INS	[1.GR6 (The second paragraph of Section 6-02.3(5)G is
7			evised to read:
8		N	lust use preceding the following:
9			
10	6-02.3(5)G.(JP11.2026	5.GR6 (Sampling and testing frequency)
11			(November 20, 2023)
12 13			Use in All projects with concrete testing (This GSP changes the frequency of testing to match the Construction Manual)
14 15			the Construction Manual).
16 17	6-02.3(6).GR6	Placing	Concrete
18 19	6-02.3(6)B.GR6	Plac	ng Concrete in Foundation Seals
20	6-02.3(6)B.INST	[1 GR6 (S	Section 6-02.3(6)B is supplemented with the
21	0 0210(0)21110		ollowing)
22			lust use once preceding any of the following:
23			
24	6-02.3(6)B.C	OPT1.GB6	
25			(June 26, 2000)
26			Use in projects where there is the possibility of
27			seals being omitted during construction, in which
28 29			case the footing is to be lowered to bottom of seal.
29 30			Seal.
31	6-02.3(6)B.C		(Concrete Seals)
32	0.02.0(0)D.0	1 12.000	(June 26, 2000)
33			Use in projects where there is the possibility of
34			seals being omitted during construction, in which
35			case the footing is not to be lowered.
36			
37	6-02.3(9).GR6	Precast	Concrete Panels
38			
39	6-02.3(9)A.GR6	Shop	o Drawings
40			The list is alread in the third wave weak of
41	6-02.3(9)A.INST		The list included in the third paragraph of
42 43			ection 6-02.3(9)A is supplemented with the following) lust use once preceding any of the following:
43 44		IV	iust use once preceding any of the following.
44	6-02.3(9)A.C		(PCPS Conc. SIP Panels)
46	0-02.0(0)A.C	110.000	(September 8, 2020)
47			Use in projects with precast prestressed concrete
48			stay-in-place panels. Include with 6-
49			02.2.OPT61.GB6, 6-02.3(9)E.OPT6.GB6, 6-
50			02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and
51			6-02.3(9)I.OPT6.GB6.
52			
53	6-02.3(9)E.GR6	Finis	hing

1 2 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:
6 7 8 9 10 11 12 13	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.
14	6-02.3(9)F.GR6	Tolerar	nces
15 16 17 18 19	6-02.3(9)F.INST1.GF	follo	ction 6-02.3(9)F is supplemented with the owing) st use once preceding any of the following:
20 21 22 23 24 25 26 27	6-02.3(9)F.OPT1	.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, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.
28	6-02.3(9)G.GR6	Handli	ng and Storage
29 30 31 32 33	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:
34 35 36 37 38 39 40 41	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, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)I.OPT6.GB6.
42	6-02.3(9)I.GR6	Erectio	n
43 44 45 46 47	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:
47 48	6-02.3(9)I.OPT6	GB6	(PCPS Conc. SIP Panels)

1 2 3			02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)G.OPT6.GB6.
3 4 5	6-02.3(10).GR6	Bridge De	ecks and Bridge Approach Slabs
6 7	6-02.3(10)D.GR6	Concre	ete Placement, Finishing, and Texturing
8 9 10	6-02.3(10)D.INS	the	ction 6-02.3(10)D is supplemented with following) st use once preceding any of the following:
11 12	6-02.3(10)D		(Repairing Slab Left Exposed After
13 14 15 16 17 18 19 20			Removing Existing Curb or Sidewalk) (August 4, 2008) Use in projects when existing curbs or sidewalks are to be removed and the portion of the slab under the curb or sidewalk that is to remain exposed will be within two feet from the traffic lane.
21 22 23 24 25 26 27 28 29 30	6-02.3(10)D	OPT2.GB6	 (Repairing Slab Left Exposed After Removing Existing Curb or Railbase) (August 4, 2008) Use in projects when existing curbs or railbases are to be removed and the portion of the slab under the curb or railbase that is to remain exposed will be more than two feet from the traffic lane.
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	6-02.3(10)D	OPT3.GB6	(Bridge Drain Risers) (August 3, 2015) Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with 6 - 02.2.OPT48.GB6 . 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 the unit contract bid item "Modify Bridge Drain" is used to pay for the work. Must use once preceding any of the following:
47 48 49 50 51 52 53	6-02.3(1	0)D.OPT3(A).GB6 (Bridge Drain Risers) (August 4, 2008) Use in projects requiring the raising of bridge drains prior to membrane waterproofing and asphalt overlay work. Include with 6-02.2.OPT48.GB6 and 6- 02.3(10)D.OPT3.GB6. Include with 6-

1 2 3 4 5 6 7		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.G	 B6 (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.
19 20 21 22 23 24 25	6-02.3(10)D.OPT12.0	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.
26	6-02.3(10)F.GR6 Brid	dge Approach Slab Orientation and Anchors
27		
28 29 30		(Section 6-02.3(10)F is supplemented with the following) Must use once preceding any of the following:
29 30 31 32 33 34 35 36 37		the following) Must use once preceding any of the following:
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48		 the following) Must use once preceding any of the following: 36 (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.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	6-02.3(10)F.OPT2.GE 6-02.3(10)F.OPT3.FE	 the following) Must use once preceding any of the following: 36 (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. 36 (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 pavement seat.

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1	Must use once preceding any of the following:
2 3	6-02.3(13).OPT7.GB6 Expansion Joint Modification
4 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).
16 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).
28 29 30 31 32 33 34 35 36 37 38 39	6-02.3(13).OPT7(D).FB6 (Field Measuring Existing Expansion 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)
40 41 42 43 44 45 46 47 48 49 50 51 52 53	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 GSPs supplementing Sections 6-02.2 and 6- 02.3(13).

1		(1-fill-in)
2 3 4 5 6 7 8 9 10 11 12 13	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).
14 15 16 17 18 19 20 21 22 23 24 25 26	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).
27 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).
38 39 40 41 42 43 44 45 46 47 48	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).
49 50 51 52 53 54	6-02.3(13).OPT7(J).GB6	(Placing Expansion Joint Sealant) (September 8, 2020) Use in projects where rapid cure silicone sealant is used for modified bridge expansion joints with modified concrete overlay headers. To be used

1 2 3 4 5 6 7 8 9 10 11		only for bridges with low ADT, and only with the approval of the Bridge and Structures Office Bearing and Expansion Joint Specialist. 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) and the pertinent modified concrete overlay GSP's.
12	6-02.3(13)C.GR6 M	odular Expansion Joint System
13 14 15 16 17	6-02.3(13)C.INST1.GR	6 (Section 6-02.3(13)C is supplemented with the following) Must use once preceding any of the following:
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	6-02.3(13)C.OPT1.	(Acceptable Manufacturers) (September 8, 2020) Include in projects requiring a modular expansion joint system. The fill-in specifies the percentage of the amplified vertical load range to be used for the horizontal load range for the fatigue design. The fill-in value shall be 20-percent except for installations at locations subject to significant braking and acceleration forces or subject to particularly large movement ranges where the fill- in value shall be 50-percent. Coordination with the Bridge and Structures Office Bridge Bearing and Expansion Joint Specialist is required. Include with 6-02.4.OPT3.FB6 and 6- 03.3(30).FB6. (1-fill-in)
35	6-02.3(14).GR6 Finis	shing Concrete Surfaces
36 37	6-02.3(14)C.GR6 Pi	gmented Sealer for Concrete Surfaces
38 39 40 41	6-02.3(14)C.INST1.GR	6 (Section 6-02.3(14)C is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47 48	6-02.3(14)C.OPT1.	GB6 (Washington Gray Pigmented Sealer) (April 6, 2009) Use in projects requiring application of pigmented sealer to concrete surfaces, with Washington Gray being the sole color.
49 50 51 52 53	6-02.3(14)C.OPT2.	 GB6 (Mt. St. Helens Gray Pigmented Sealer) (April 6, 2009) Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. St. Helens Gray being the sole color.

1		
1 2 3 4 5 6 7	6-02.3(14)C.OPT3.GB6	(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.
8 9 10 11 12 13	6-02.3(14)C.OPT4.GB6	(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.
14 15 16 17 18 19 20 21	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)
22 23	6-02.3(17).GR6 Falsewoi	k and Formwork
24		
25 26	6-02.3(17)C.GR6 Falsev	vork and Formwork at Special Locations
27 28 29	the	ection 6-02.3(17)C is supplemented with following) st use once preceding any of the following:
30 31 32 33 34 35 36 37 38	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.
39 40	6-02.3(17)K.GR6 Concr	ete Forms on Steel Spans
41		
42 43 44	rev	ne first paragraph of Section 6-02.3(17)K is ised to read as follows) st use once preceding any of the following:
45 46 47 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 Bridge and Structures Office Steel Specialist. Include with 6-02.4.OPT1.FB6 , 6- 02.5.OPT26.FB6 , 6-03.3(28)B.OPT1.GB6 , 6-

1 2			03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, and 6-03.4.OPT1.FB6.
3 4 5	6-02.3(24).GR6	Reinforce	ment
5 6 7	6-02.3(24)C.GR6	Placing	and Fastening
8 9 10	6-02.3(24)C.INS	the	ction 6-02.3(24)C is supplemented with following) it use once preceding any of the following:
11 12 13 14 15 16 17 18 19 20 21 22	6-02.3(24)C	.OPT1.GB6	(Drilling 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.
23	6-02.3(25).GR6	Prestress	ed Concrete Girders
24 25	6-02.3(25)L.GR6	Handlir	ng and Storage
26 27	6-02.3(25)L2.GR6	Girder	Lateral Stability and Stress Analysis
28 29 30 31	6-02.3(25)L2.I №	Se	(The table in Item No. 4 in the first paragraph of stion 6-02.3(25)L2 is revised to read: st use preceding the following:
32 33 34 35 36	6-02.3(25)L	2.0PT1.202	5.GR6 (Stability and Stress Analysis Table) (November 20, 2023) Use in All projects with prestressed concrete girders.
37 38	6-02.3(26).GR6	Cast-in-P	ace Prestressed Concrete
39 40 41 42 43	6-02.3(26).INST1.G	revised read as	rd paragraph of Section 6-02.3(26) is to follows) se once preceding any of the following:
44 45 46 47 48 49 50	6-02.3(26).OPT	(Jar Use stru	st-in-Place Prestressed Concrete) nuary 4, 2010) in projects with segmental post-tensioned ctures. Check with the Region Construction ineer to see if testing equipment is available.
50 51	6-02.4.GR6 M	easurement	
52 53	6-02.4.INST1.GR6	(Section 6	-02.4 is supplemented with the following)

1	I	Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12 13 14	6-02.4.OPT1.FB6	(Summary of Quantities for Superstructure and Bridge Deck) (September 8, 2020) Use in bridge construction projects with lump sum items for superstructure or bridge deck. The first and third fill-in specify the appropriate bid item name ("Superstructure - " or "Bridge Deck"). The second fill-in itemizes the approximate quantities included. Include with 6-02.5.OPT26.FB6 when the "Bridge Deck" bid item is used. (3 fill-ins)
15 16 17 18 19 20 21 22 23 24	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)
25 26 27 28 29 30 31 32 33	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)
34 35 36 37 38 39 40	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 .
41 42 43 44 45 46 47 48	6-02.4.OPT26.GB6	(Modifying Bridge Drain) (June 26, 2000) Use in projects where modifying bridge drains is a stand- alone bid item. Include with <i>6-02.2.OPT48.GB6, 6- 02.3(10)D.OPT3.GB6,</i> and <i>6-02.5.OPT51.GB6</i> with modified concrete overlay projects. Include the above with <i>6-02.3(10)D.OPT4.GB6</i> with membrane waterproofing and ACP overlay projects.
49 50 51	6-02.4.OPT27.GB6	(Plugging Existing Bridge Drain) (June 26, 2000)

1 2 3		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 .
4 5 7 8 9 10	6-02.4.OPT32.G	 B6 (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.
10 11 12 13 14 15 16 17 18 19	6-02.4.OPT43.G	 B6 (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, 6-02.5.OPT71.GB6 and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
20 21 22 23 24 25 26 27 28	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)
28 29 30 31 32 33 34 35 36 37 38 39 40	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)
40 41 42	6-02.5.GR6	Payment
42 43 44 45 46	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:
47 48 49 50 51 52 53	6-02.5.OPT20.G	 B6 (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.

1 2 2	6-02.5.INST4.GR6	(Section 6-02.5 is supplemented with the following) Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10	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 6-02.4.OPT1.FB6 . (1 fill-in)
10 11 12 13 14 15 16 17	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).
18 19 20 21 22 23 24	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.
25 26 27 28 29 30 31 32 33	6-02.5.OPT51.GB6	(Modify Bridge Drain) (June 26, 2000) Use in projects where modifying bridge drains is a stand- alone 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.
34 35 36 37 38 39	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 <i>6-02.3(10)D.OPT5.GB6</i> and <i>6-02.4.OPT27.GB6</i> .
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	6-02.5.OPT53.FB6	(Modifying or Plugging Existing Bridge Drain) (June 26, 2000) 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)

1		
2 3 4 5 6 7	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 .
8 9 10 11 12 13 14 15	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)
16 17 18 19 20 21 22 23	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, 6-02.4.OPT43.GB6 and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.
24 25 26 27 28 29 20	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.
30 31 32 33 34 35 36 37 38 39	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.
40 41 42 43 44 45 46 47 48 40	6-02.5.OPT91.FB6	(Bridge and Structures Minor Items) (June 26, 2000) Use in projects with bridges and other structures when there are minor items that are incidental to a lump sum or a unit price bid item. The first fill-in specifies the minor items. The second fill-in specifies the appropriate pay item(s) for the minor items. (2 fill-ins)
49 50 51 52 53	6-02.5.OPT92.FB6	(Bridge Supported Utilities) (June 26, 2000) Use in projects requiring installation of bridge supported utilities. The first fill-in specifies the type of utility. The

1 3 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 21 3 14 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 16 7 8 9 10 11 23 12 23 23 23 23 23 23 23 23 23 23 23 23 23	6-02.5.OPT9	sp ma etc fill- 02 uti an 02 co uti 02 02 su (4 03.GB6 (B (Ju Us uti pe Inc an	cond fill-in specifies the bridge(s). The third fill-in ecifies the work performed by the Contractor (furnishing aterials, installing materials, coordination with utility, c.), excluding furnishing and installing inserts. The fourth in specifies the pay item. Include with 6 - .3.OPT2(B).GB6 , with appropriate bridge supported lity material GSP's, if all materials and work are supplied d performed by the Contractor. Include with 6 - .3.OPT2(C).GB6 and 6 - 02 . 5 . OPT93 . GB6 if a utility mpany is supplying and performing a portion of the lity materials and work. Include with 6 - .2.OPT46(A).GB6 , 6 - 02 . 3 . OPT2(A) . GB6 , 6 - .4.OPT1.FB6 , and 6 - 02 . 5 . OPT26 . FB6 when the poorts include concrete inserts. fill-ins) ridge Supported Utilities) une 26, 2000) se in projects requiring installation of bridge supported lities where a utility company is supplying and rforming a portion of the utility materials and work. clude with 6 - 02 . 3 . OPT2(C).GB6 and 6 - 02 . 5 . OPT92 . FB6 , d appropriate bridge supported utility material GSP's. clude with 6 - 02 . 2 . OPT46(A) . GB6 , 6 - 02 . 3 . OPT2(A) . GB6 ,
25		6-0	02.4.0PT1.FB6, and 6-02.5.0PT26.FB6 when the
26 27		su	pports include concrete inserts.
28 29	6-03.GR6 S	Steel Structure	es a la companya de l
30	6-03.3.GR6	Construc	tion Requirements
31 32	6-03.3(7).GR6	Shop	Plans
33			
34 35	6-03.3(7)A.G	iR6 Er	ection Methods
36	6-03.3(7)	A.INST1.GR6	(The list in the second paragraph of Section
37			6-03.3(7)A is supplemented with the following)
38 39			Must use once preceding any of the following:
40	6-03.	3(7)A.OPT1.GI	B6 (Erection by Girder Launching)
41			(April 6, 2015)
40			
42			Use in projects where girder launching may be
43			Use in projects where girder launching may be used as an erection method.
43 44	6-03		used as an erection method.
43 44 45	6-03.3	3(7)A.OPT2.GI	used as an erection method. B6 (Hand-held Drilling and Reaming)
43 44	6-03.3	3(7)A.OPT2.GI	used as an erection method.
43 44 45 46 47 48	6-03.5	3(7)A.OPT2.GI	used as an erection method. B6 (Hand-held Drilling and Reaming) (April 6, 2015) Use in projects where drilling and reaming operations with hand-held devices is permissible.
43 44 45 46 47 48 49	6-03.	3(7)A.OPT2.GI	used as an erection method. B6 (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 .
43 44 45 46 47 48 49 50	6-03.:	3(7)A.OPT2.GI	used as an erection method. B6 (Hand-held Drilling and Reaming) (April 6, 2015) Use in projects where drilling and reaming operations with hand-held devices is permissible.
43 44 45 46 47 48 49 50 51			used as an erection method. B6 (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)
43 44 45 46 47 48 49 50	6-03.3 6-03.3(25).GR6		used as an erection method. B6 (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 2	6-03.3(25).INST1.GR6	6 (Section 6-03.3(25) is supplemented with the following) Must use once preceding any of the following:
3 4 5 6 7 8 9 10 11 12	6-03.3(25).OPT2.G	 6B6 (Narrow Gap Improved-Electroslag Welding (NGI-ESW) Procedure) (April 6, 2015) Use in projects with steel plate girder bridges and box girder bridges primarily with Grades 50 and 50W steel. Accompanying details are required in the Plans for NGI-ESW test joint configurations for WPS qualification and charpy v-notch test specimens.
13 14	6-03.3(27).GR6	High Strength Bolt Holes
15 16	6-03.3(27)B.GR6	Reamed and Drilled Holes
17 18 19 20	6-03.3(27)B.INST1	.GR6 (The second sentence of the first paragraph of Section 6-03.3(27)B is revised to read) Must use once preceding any of the following:
20 21 22 23 24 25 25 26 27 28 29 30	6-03.3(27)B.OF	PT1.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)
31 32	6-03.3(28).GR6	Shop Assembly
33 34	6-03.3(28)A.GR6	Method of Shop Assembly
35 36 37 38	6-03.3(28)A.INST1	.GR6 (Section 6-03.3(28)A is supplemented with the following) Must use once preceding any of the following:
39 40 41 42 43 44 45 46 47 48	6-03.3(28)A.OF	PT1.GB6 (Progressive Transverse Shop Assembly) (August 5, 2013) 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.
49 50	6-03.3(28)B.GR6	Check of Shop Assembly
50 51 52 53	6-03.3(28)B.INST1	.GR6 (Section 6-03.3(28)B is supplemented with the following) Must use once preceding any of the following:

1		
2 3 4 5 6 7 8	6-03.3(28)B.OP	 T1.GB6 (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.
9 10	6-03.3(30).GR6 P	ainting
11 12	6-03.3(30).INST1.GR6	(Section 6-03.3(30) is supplemented with the following) Must use once preceding any of the following:
13 14 15 16 17 18 19 20 21 22	6-03.3(30).OPT1.FE	 (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.
23 24 25 26 27 28 29		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)
30 31 32 33 34 35 36 37 38 39 40	6-03.3(30).OPT6.FE	 (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)
41	6-03.3(38).GR6 P	lacing Superstructure
42 43 44	6-03.3(38).INST1.GR6	(Section 6-03.3(38) is supplemented with the following) Must use once preceding any of the following:
45 46 47 48 49 50 51 52	6-03.3(38).OPT1.GI	 (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

1 2			weathered 03.5.0PT7.		surface.	Include	with	6-
3 4 5	6-03.3(39).GR6	Swin	ging the Spa	an				
5 6 7	6-03.3(39).INST		ection 6-03.3 ust use once				owing)	
8 9 10 11 12 13 14	6-03.3(39).C)PT1.GB6	(June 26, 20 Use in proje 03.3(28)B.C	nber Field Me 200) ects with nev DPT1.GB6, FB6, and 6-(v steel brid 6-03.3(3	iges. Inclu 0).OPT1.F		ר 6- 6-
14 15 16	6-03.4.GR6	Measurer	ment					
17 18 19	6-03.4.INST1.GR6		ion 6-03.4 is use once pre					
20 21 22 23 24 25 26	6-03.4.OPT1.FE	(A Us 03 the	tructural Low ugust 6, 2007 a in projects .3(28)B.OPT .3(39).OPT1 . steel girder fill-ins)	7) s with new 1.GB6, 6-0 . GB6. Include	steel bridg 03.3(30).OI e with 6-03	PT1.FB6,	and	6-
27 28	6-03.5.GR6	Payment						
29 30 31 32 33	6-03.5.INST1.GR6	with t	second bid i he following) use once pre				olemen	ited
34 35 36 37 38 39	6-03.5.OPT1.GI	(A Us gir 03	ayment for Si ugust 6, 2007 se in projects der include .3(28)B.OPT .3(39).OPT1.	⁷) s with new s a pipe 1.GB6,	steel bridg railing. 6-03.3(30)	Include .OPT1.FB	with	teel 6- 6-
40 41 42	6-03.5.INST2.GR6	`	ion 6-03.5 is use once pre					
43 44 45 46 47 48 49 50 51 52 53	6-03.5.OPT7.FE	(Ju Us co wh me Ind	ayment for Coune 26, 2000) se in project embers whic nstruction, a nich require embers deve clude with 6-(fill-in)) ts with brid h remain ur ind which a protection f elop their w	ges havin painted a are above rom staini veathered	t the com concrete ng while	pletion surfa the st	n of ices teel

1	6-04.GR6	Timber Stru	ctures
2 3 4	6-04.3.GR6	Constr	uction Requirements
4 5 6	6-04.3(1).GR	6 St	oring and Handling Material
7 8 9	6-04.3(1).1	NST1.GR6	(Section 6-04.3(1) is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14	6-04.3(1).OPT1.GB6	(Fire Prevention) (March 6, 2000) Use in all timber bridge construction and timber deck replacement projects. Include with 6-04.5.OPT1.FB6 .
15 16 17 18 19	6-04.3(1).OPT2.GB6	(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 .
20 21	6-04.5.GR6	Payme	nt
22 23 24 25	6-04.5.INST1	· ·	ection 6-04.5 is supplemented with the following) ust use once preceding any of the following:
26 27 28 29 30 31	6-04.5.OP	T1.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)
32 33 34 35 36 37	6-04.5.OP	T2.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)
38 39	6-05.GR6	Piling	
40 41 42	6-05.2.GR6	Materia	als
43 44	6-05.2.INST1		ection 6-05.2 is supplemented with the following) ust use once preceding any of the following:
45 46 47 48 49 50 51	6-05.2.OP	T1.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.
51 52 53	6-05.3.GR6	Constr	uction Requirements
53 54	6-05.3.INST1	.GR6 (Se	ection 6-05.3 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 13 14	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 specifies the location(s) of micropile verification tests. The third fill in is the 1.00 FDL deflection limit for the verification load test. The fourth fill in is the 1.00 FDL deflection limit for the proof load test. Include with 6-05.2.OPT1.FB6, 6-05.4.OPT6.GB6, and 6- 05.5.OPT6.GB6. (Four fill-ins)
15 16	6-05.3(5).GR6	Manufacture of Steel Piles
17 18 19 20	6-05.3(5).INST1.GR6	(Section 6-05.3(5) is supplemented with the following) Must use once preceding any of the following:
20 21 22 23 24 25 26 27	6-05.3(5).OPT1.GE	36 (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
28	6-05.3(6).GR6	Splicing Steel Casings and Steel Piles
29 30 31 32 33	6-05.3(6).INST1.GR6	(Section 6-05.3(6) is supplemented with the following) Must use once preceding any of the following:
34	6-05.3(6).OPT1.GE	
35 36 37 38 39	0-03.3(0).OF 11.G	36 (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 <i>6-05.3(5).OPT1.GB6</i> .
36 37 38 39 40 41		(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
36 37 38 39 40		(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 . Test Piles

1		(4 f	ill-ins)
2 3 4	6-05.3(11).GR6	Driving P	iles
4 5 6 7	6-05.3(11)D.GR6		ving Minimum Tip Elevation and Bearing
8 9 10	6-05.3(11)D.INS	the	ection 6-05.3(11)D is supplemented with following) st use once preceding any of the following:
11 12 13 14 15 16 17	6-05.3(11)D.0	OPT2.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.
17 18 19 20 21 22 23 24 25 26 27 28 29 30	6-05.3(11)D.(OPT3.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)
30 31 32 33 34 35 36 37 38 39 40 41 42 43	6-05.3(11)D.(OPT4.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)
43 44 45 46 47 48 49 50 51 52 53	6-05.3(11)D.0	OPT9.FB6	(Overdriving) (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.

I

1			(2 fill-ins)
2 3 4	6-05.4.GR6	Ме	easurement
4 5 6 7	6-05.4.INS	ST1.GR6	(Section 6-05.4 is supplemented with the following) Must use once preceding any of the following:
8 9 10 11 12 13 14 15 16 17	6-05.4.	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)
18 19 20 21 22	6-05.4.	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.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	6-05.5.GR6	Ра	yment
	6-05.5.INS	ST1.GR6	(Section 6-05.5 is supplemented with the following) Must use once preceding any of the following:
	6-05.5.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)
	6-05.5.	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.
44 45 46	6-06.GR6	Bridge I	Railings
40 47 48	6-06.2.GR6	Ма	iterials
49 50	6-06.2.INS	ST1.GR6	(Section 6-06.2 is supplemented with the following) Must use once preceding any of the following:
51 52 53	6-06.2.	OPT1.GB6	(Bridge Railing Type Chain Link Fence) (November 20, 2023)

1 2 3 4 5		Use in projects with Bridge Railing Type Chain Link Fence. Include with 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".
6 7 9 10 11 12 13 14	6-06.2.OPT2.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 6-06.2.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".
15 16 17 18 19 20 21	6-06.2.OPT7.GB6	(Tamper Proof Nuts for steel Bridge Railing Type BP) (April 6, 2015) Use in projects where steel Bridge Railing Type BP is used.
22 22 23 24 25 26 27 28 29 30 31	6-06.2.OPT8.FB6	(Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence) (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)
32 33	6-06.3.GR6 Cons	truction Requirements
34 35	6-06.3(2).GR6	letal Railings
36 37 38	6-06.3(2).INST1.GR6	(Section 6-06.3(2) is supplemented with the following) Must use once preceding any of the following:
39 40 41 42 43 44 45 46 47 48	6-06.3(2).OPT1.GB	(Bridge Railing Type Chain Link Fence) (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 <i>6-</i> <i>06.2.OPT1.GB6</i> . Also include <i>6-06.5.OPT1.FB6</i> if the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck".
49 50 51 52 53	6-06.3(2).OPT2.GB	6 (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 <i>6-06.2.0PT1.GB6 and 6-</i>

1 2 3 4 5 6 7 8 9 10	6-06.3(2).OPT7.G	 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". 6B6 (Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence) (November 20, 2023) Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. Include with 6-06.2.OPT8.FB6.
11 12	6-06.5.GR6	Pay	ment
13 14 15	6-06.5.INST1.0	GR6	(Section 6-06.5 is supplemented with the following) Must use once preceding any of the following:
16 17 18 20 21 22 23 24	6-06.5.OPT	1.FB6	(Bridge Railing) (March 6, 2000) Use in projects with bridge railing where the work is included as part of a separate bid item such as "Superstructure", or "Roadway Deck". The first fill-in specifies the bridge railing type. The second fill-in specifies the bid item name. (2 fill-ins)
25 26	6-07.GR6	Painting	
27			
28	6-07.1.GR6	Des	cription
29 30 31	6-07.1.GR6 6-07.1.INST1.0		cription (Section 6-07.1 is supplemented with the following) Must use once preceding any of the following:
29 30		GR6	(Section 6-07.1 is supplemented with the following)

1 2 3 4 5		conta supp	de with 1-07.1(2).OPT3.FR1 if the existing bridge(s) ain lead paint. Project specific Special Provisions lementing Section 6-07.3(13) may be required to ify specific primer and top coat paint requirements. -ins)
6 7	6-07.3.GR6	Constructio	n Requirements
8 9 10	6-07.3(10).GR6	Paintin	g Existing Steel Structures
10 11 12 13 14	6-07.3(10).INST	follov	tion 6-07.3(10) is supplemented with the ving) use once preceding any of the following:
15 16 17 18 19 20 21 22	6-07.3(10).O	() r e "s 0	Utility Conduits) August 3, 2009) Include only when utility conduits are attached to the xisting bridge(s) being painted. Fill-in to read "shall or shall not". Include with DESWORK2.FB1, 6- 7.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6 . 1 fill-in)
23 24 25 26 27 28 29	6-07.3(10).OPT2.GB6		Light Fixtures) August 3, 2009) Include only when light fixtures are attached to existing ridge(s) being painted. Include with DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6- 7.3(10)I.OPT1.FB6.
30 31 32 33 34 35 36	6-07.3(10).O	() L 0 th	Cleaning Grid Deck) August 3, 2015) Ise with DESWORK2.FB1, 6-07.1.OPT1.FB6, 6- 7.3(10)I.OPT1.FB6, and 6-07.3(10)N.OPT1.GB6 if the bridge has a grid roadway deck or steel grid atwalks which require cleaning and painting.
37	6-07.3(10)A.GR	6 Cont	ainment
38 39 40 41 42	6-07.3(10)A.	ť	Section 6-07.3(10)A is supplemented with ne following) lust use once preceding any of the following:
42 43 44 45 46 47 48 49	6-07.3(10))A.OPT1.GB	6 (Protection of Existing Structure) (August 3, 2009) 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.
49 50 51	6-07.3(10))A.OPT2.FB(6 (Containment System) (September 7, 2021)

1 2 3 4 5 6 7 8			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. (2 fill-ins)
9 10	6-07.3(10)D.GR6	Surface	Preparation Prior to Overcoat Painting
11 12 13 14	6-07.3(10)D.INST1	the	ction 6-07.3(10)D is supplemented with following) it use once preceding any of the following:
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	6-07.3(10)D.O	PT1.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 DESWORK2.FB1, 1-07.6.OPT3(A).FB1, 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).OPT3.FR1 if the existing bridge(s) contain lead paint. 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)
33 34	6-07.3(10)E.GR6	Surface	Preparation – Full Paint Removal
34 35 36 37 38	6-07.3(10)E.INST1	the	ction 6-07.3(10)E is supplemented with following) once preceding any of the following:
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	6-07.3(10)E.O	PT1.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 DESWORK2.FB1, 1-07.6.OPT3(A).FB1, 6- 07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6 . 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(2).OPT3.FR1 if the existing bridge(s) contain lead paint. The first fill-in specifies the bridge(s) requiring full paint removal surface

1 2 3 4		b s		requiring	fill-in specifies the full paint removal
5 6 7	6-07.3(10)I.GR6	Paint Cole	or		
7 8 9 10 11	6-07.3(10)I.INST1.GI	followi			
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	6-07.3(10)I.OPT1	(, L b r s n C l l u c c (bridge members equirements by Standard 595 Colo to number. Use 07.6.OPT3(A).FB1 Include with 6-07. 07.3(10)E.OPT1.FB Surface preparation 07.1(2).OPT3.FR1 Stontain lead paint. 1 fill-in)	ith existing to co specifying r Number, with Di , and 6 .3(10)D.Oi B6 as a n requirem if the	PT1.FB6 and/or 6 - ppropriate for the ents. Include with 1 -
27 28	6-07.3(10)N.GR6	Field Coa	ting Application I	Methods	
29 30 31	6-07.3(10)N.INST1.0	the foll	on 6-07.3(10)N is s lowing) ise once preceding		
32 33 34 35 36 37 38 39	6-07.3(10)N.OPT	(, 6 0 1	6-07.3(10).OPT4.G 07.3(10)I.OPT1.FB)RK2.FB1 3 B6 3 6 if the	, 6-07.1.OPT1.FB6, and 6- bridge has a grid rid catwalks which
40 41	6-07.3(11).GR6 Pa	inting or I	Powder Coating o	of Galvani	zed Surfaces
42 43 44 45 46	6-07.3(11).INST1.GR6	following)	-07.3(11) is supple once preceding an		
40 47 48 49 50 51 52 53	6-07.3(11).OPT1.FB6	Àugus Use i surface specifi	es with either pain es the SAE AMS S lor name if no num	t or powde Standard 5	ting of galvanized er coating. The fill-in 595 color number, or

1 2 2	6-08.GR6	Bituminous	s Surfacing on Structure Decks
3 4 5	6-08.3.GR6	Const	ruction Requirements
5 6 7	6-08.3.INST1	· · · · · · · · · · · · · · · · · · ·	Section 6-08.3 is supplemented with the following) lust use once preceding the following:
8 9 10 11 12 13 14 15 16 17 18	6-08.3.OP	T1.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)
19 20	6-08.3(2).GR	6 C	ontractor Survey for Grade-Controlled Structure Decks
21 22 23 24	6-08.3(2).1	NST1.GR6	(Section 6-08.3(2) is supplemented with the following) Must use once preceding any of the following:
24 25 26 27 28 29 30 31 32 33 33 34 35	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)
36 37 38	6-08.3(5).GR		ull Depth Removal of Bituminous Pavement from ridge Decks
39 40 41 42	6-08.3(5).1	NST1.GR6	(Section 6-08.3(5) is supplemented with the following) Must use once preceding any of the following:
43 44 45 46 47 48 49 50 51 52 53	6-08.3	(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 exclude rotary milling/planing equipment. Bridges in this category are generally identified in the Bridge Condition Report (BCR) prepared for the project by the Bridge Asset Management unit of the Bridge and Structures Office and provided to the Region Design PE Offices as part of the site data at the beginning of

1 2 3 4 5		the project design phase. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions. (1 fill-in)
6 7 8 9 10 11 12 13 14 15 16 7 8	6-08.3(5).OPT	2.FB6 (Rotary milling/planing equipment restricted to upper layer of existing surfacing) (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 allow rotary milling/planing equipment for the upper layer 0.10-feet above the bridge deck. Existing surfacing thicknesses at these bridges shall be 0.20- feet minimum. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions. (1 fill-in)
19 20	6-10.GR6 Conc	ete Barrier
21 22	6-10.3.GR6	Construction Requirements
23 24	6-10.3(5).GR6	Temporary Barrier
25 26 27	6-10.3(5).INST1.0	R6 (The first paragraph of Section 6-10.3(5) is revised to read) Must use once preceding any of the following:
28 29 30 31 32 33 34 35	6-10.3(5).OPT	 1.GR6 (Type F Temporary Barrier) (February 3, 2020) Use in projects that have less than 1,000 linear feet of temporary barrier. The use of this GSP on projects with more than 1,000 linear feet of temporary barrier requires approval from HQ Construction.
36		Do not use with 6-10.3(5).OPT2.2025.GR6.
37 38 39 40	6-10.3(5).INST2.0	R6 (The first sentence of Section 6-10.3(5) is revised to read) Must use once preceding the following:
40 41 42 43 44 45 46	6-10.3(5).OPT	2.2025.GR6 (Temporary Barrier) (February 26, 2024) Use in all projects with temporary concrete barrier unless Type F precast barrier is required. Do not use with 6-10.3(5).OPT1.GR6 .
47 48	6-10.5.GR6	Payment
49 50 51	6-10.5.INST1.GR6	(Section 6-10.5 is supplemented with the following) Must use once preceding any of the following:
52 53 54	6-10.5.OPT1.GR6	(Temporary barrier delineators) (August 1, 2016)

1 2		Use in projects that require temporary barrier to be placed adjacent to a travelled lane.
3 4 5 6 7 8 9 10 11 12 13	6-10.5.OPT2.FB6	 (Bridge Concrete Barrier) (March 6, 2000) Use in projects with concrete barrier on bridges only where the barrier is included as part of a separate bid item such as "Superstructure", or "Roadway Deck". The first fill-in specifies the barrier type (traffic barrier, traffic-pedestrian barrier, pedestrian barrier, etc.). The second fill-in specifies the bid item name. (2 fill-ins)
14	6-11.GR6 Re	inforced Concrete Walls
15		
16	6-11.2.GR6	Materials
17 18 19	6-11.2.INST1.GR6	(Section 6-11.2 is supplemented with the following) Must use preceding the following:
20 21 22	6-11.2.0PT1.202	5.GR6 (Reinforced Concrete Retaining Walls) (November 20, 2023)
23 24		Use in projects with reinforced concrete retaining walls.
25	6-11.3.GR6	Construction Requirements
26		
27	6-11.3.INST1.GR6	(Section 6-11.3 is replaced in its entirety with the following:)
28		Must use preceding the following:
29 30	6-11-3 OPT1-202	5.GR6 (Reinforced Concrete Retaining Walls)
31	0 11.0.01 11.202	(November 20, 2023)
32		Use in projects with reinforced concrete retaining walls.
33		Management
34 35	6-11.4.GR6	Measurement
36	6-11.4.INST1.GR6-	(Section 6-11.4 is replaced with the following:)
37		Must use preceding the following:
38		
39	6-11.4.OPT1.202	5.GR6 (Reinforced Concrete Retaining Walls)
40 41		(November 20, 2023) Use in projects with reinforced concrete retaining walls.
41		Use in projects with reinforced concrete retaining walls.
43	6-11.5.GR6	Payment
44		•
45	6-11.5.INST1.GR6	(Section 6-11.5 is replaced with the following:)
46 47		Must use preceding the following:
47	6-11 5 OPT1 202	5.GR6 (Reinforced Concrete Retaining Walls)
49	0 11.0.01 11 .202	(November 20, 2023)
50		Use in projects with reinforced concrete retaining walls.
51		
52	6-12.GR6 No	ise Barrier Walls
53		

6-12.2.GR6 Ma	terials
6-12.2.INST1.GR6	(Section 6-12.2 is supplemented with the following) Must use once preceding any of the following:
6-12.2.OPT1.GB6	(Precast Concrete Noise Barrier Walls) (September 8, 2020) Use in projects with noise barrier walls of precast concrete panels. Include with 6-12.3(6).OPT1.FB6 and all other applicable noise barrier wall GSP's .
6-12.2.OPT2.FB6	(Masonry Noise Barrier Walls) (September 8, 2020) Use in projects with noise barrier walls of masonry block panels. The fill-in describes the surface texture and color requirements for the field, cap, accent, and other CMU blocks used for the masonry wall. Include with 6 - 12.3(7).OPT1.GB6 and all other applicable noise barrier wall GSP's . (1 fill-in)
6-12.3.GR6 Co	nstruction Requirements
6-12.3(1).GR6	Submittals
6-12.3(1).INST1.GR	6 (Section 6-12.3(1) is supplemented with the following) Must use once preceding any of the following:
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.
6-12.3(6).GR6	Precast Concrete Panel Fabrication and Erection
6-12.3(6).INST1.GR	6 (Section 6-12.3(6) is supplemented with the following) Must use once preceding any of the following:
6-12.3(6).OPT1.I	 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.

1			(2 fill-ins)
2 3 4	6-12.3(7).GR6	М	asonry Wall Construction
5 6	6-12.3(7).INS	ST1.GR6	(Section 6-12.3(7) is supplemented with the following) Must use once preceding any of the following:
7 8 9 10 11 12 13 14	6-12.3(7)	OPT1.GB6	 6 (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.
15 16	6-12.5.GR6	Payme	ent
17 18 19	6-12.5.INST1.G	· · ·	Section 6-12.5 is supplemented with the following) ust use once preceding any of the following:
20 21 22 23 24 25	6-12.5.OPT1	.GB6	 (Payment for Noise Barrier Wall Groundline Field Survey) (April 5, 2004) 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 <i>1</i>-
26 27			<i>05.4.OPT1.GR1, 6-12.3(1).OPT1.GB6, and all other applicable noise barrier wall GSP's.</i>
27 28 29	6-13.GR6 S	Structural E	
27 28 29 30 31	6-13.GR6 5 6-13.2.GR6	Structural E Materi	applicable noise barrier wall GSP's. Earth Walls
27 28 29 30 31 32 33 34		Materi R6 (S	applicable noise barrier wall GSP's. Earth Walls
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	6-13.2.GR6	Materi R6 (S M	applicable noise barrier wall GSP's. Earth Walls als Section 6-13.2 is supplemented with the following)
27 28 29 30 31 32 33 34 35 36 37 38 39 40	6-13.2.GR6 6-13.2.INST1.G	Materi R6 (S M	applicable noise barrier wall GSP's. Earth Walls als Section 6-13.2 is supplemented with the following) ust use once preceding any of the following: (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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 10 10 11 23 14 5 10 10 10 10 10 10 10 10 10 10 10 10 10	6-13.2.OPT3.GB	 Use in projects with structural earth walls only when the following conditions apply: Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives. 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(2).OPT1.FB6, 6-13.3.OPT2(A).GB6, 6-13.3(4).OPT1.GB6, 6-13.3(4).OPT1.GB6. (Concrete Block Faced Structural Earth Wall Materials) (January 2, 2018) Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with 6-13.3.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6.
21	6 43 2 0 0 0	
22 23	6-13.3.GR6	Construction Requirements
24 25 26	6-13.3.INST1.GR6	(Section 6-13.3 is supplemented with the following) Must use once preceding any of the following:
20 27 28 29 30 31 32	6-13.3.OPT1.GB	6 (Welded Wire Faced Structural Earth Wall) (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 .
33 34 35 36 37 38 39	6-13.3.OPT2.GB	6 (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.
40 41 42 43 44 45 46 47 48 49 50 51 52 53	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-

1 2 3		13.3(4).OPT1.GB6, 6-13.3(4).OPT1(A).GB6, and 6- 13.3(7).OPT1.GB6.
4 5 6 7 8 9 10	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.
10 11 12	6-13.3(2).GR6 Su	ubmittals
13 14 15 16	6-13.3(2).INST1.GR6	(Section 6-13.3(2) is supplemented with the following) Must use once preceding any of the following:
17 18 19 20 21 22 23 24 25 26 27 28	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 may be repeated as necessary for additional walls with differing geotechnical design parameters. (13 fill-ins)
29 30 31	6-13.3(4).GR6 Pr	recast Concrete Facing Panel and Concrete Block Fabrication
32 33 34 35	6-13.3(4).INST1.GR6	(Section 6-13.3(4) is supplemented with the following) Must use once preceding any of the following:
36 37 38 39 40 41 42 43	6-13.3(4).OPT1.GB6	(Specific Fabrication Requirements for Precast Concrete Panel Faced Structural Earth Walls) (April 3, 2017) 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.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6- 13.3(5).OPT1.GB6.
44 45 46 47 48 49 50 51 52 53	6-13.3(4).OPT1(/	 A).GB6 (Lock + Load Retaining Wall System Walls) (August 3, 2015) Use in projects with structural earth walls only when the following conditions apply: Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.

1 2 3 4 5 6 7 8		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(A).GB6, 6-13.3(2).OPT1.FB6, 6- 13.3(4).OPT1.GB6, and 6-13.3(7).OPT1.GB6.
9 10 11	6-13.3(5).GR6	Precast Concrete Facing Panel and Concrete Block Erection
12 13 14	6-13.3(5).INST1.GF	following)
14 15 16 17 18 19 20 21 22 23	6-13.3(5).OPT2	Must use once preceding any of the following: .GB6 (Specific Erection Requirements for Precast Concrete Block Faced Structural Earth Walls) (April 2, 2012) 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.OPT3.GB6, and 6-13.3(2).OPT1.FB6.
24 25	6-13.3(7).GR6	Backfill
26 27 28 29	6-13.3(7).INST1.GF	R6 (Section 6-13.3(7) is supplemented with the following) Must use once preceding any of the following:
30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46	6-13.3(7).OPT1	 .GB6 (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, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6- 13.3(4).OPT1(A).GB6
40 47 48	6-14.GR6 Geo	synthetic Retaining Walls
49 50	6-14.2.GR6 M	aterials
50 51 52 53	6-14.2(9-33.2(2)).GR6	 (Geosynthetic Properties For Retaining Walls and Reinforced Slopes (Section 9-33.2(2) is supplemented with the following)

1		Mu	st use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12	6-14.2(9	(B6 (Geosynthetic Properties For Temporary Geosynthetic Retaining Walls) August 7, 2006) Jse in projects with temporary geosynthetic retaining valls. 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 op of wall to the reinforcement layer. The fourth fill-in specifies the geosynthetic tensile strength. 4 fill-ins)
13 14 15	6-15.GR6	Soil Nail Wal	ls
15 16 17	6-15.2.GR6	Materia	ls
17 18 19 20	6-15.2.INS	(ction 6-15.2 is supplemented with the following) st use once preceding any of the following:
20 21 22 23 24 25	6-15.2.O	(Permanent Soil Nail Materials and Components) August 3, 2015) Jse in projects with soil nail retaining walls. Include with <i>6-</i> 15.3(8)A.OPT1.FB6.
25 26 27	6-15.3.GR6	Constru	iction Requirements
28 29	6-15.3(8).G	R6 Soi	I Nail Testing And Acceptance
30 31 32 33	6-15.3(8	ć	The second sentence in the fourth paragraph of Section 3-15.3(8) is revised to read) Aust use preceding the following:
34			
35 36 37	6-15.	.3(8).OPT1.2025 .	GR6 (Pressure Gauge) (February 13, 2024) Use in all projects with soil nail walls.
36 37 38	6-15. 6-15.3(8		(February 13, 2024)
36 37 38 39 40 41 42	6-15.3(8)A.GR6	(February 13, 2024) Use in all projects with soil nail walls.
36 37 38 39 40 41	6-15.3(8 6-15.)A.GR6	 (February 13, 2024) Use in all projects with soil nail walls. /erification Testing 6 (Section 6-15.3(8)A is supplemented with the following) Must use once preceding any of the following:

1 2 3	6-16.3.GR6	Con	struction Requirements
4	6-16.3(3).G	R6	Shaft Excavation
5 6 7 8	6-16.3(3)	.INST1.GR6	(The second sentence in the first paragraph of Section 6-16.3(3) is revised to read) Must use once preceding the following:
9 10 11 12	6-16.	3(3).OPT1.2 (025.GR6 (Shaft Excavation Diameter) (November 20, 2023) Use in all projects with soldier pile walls.
13 14	6-17.GR6	Permane	nt Ground Anchors
15 16	6-17.1.GR6	Des	cription
17 18 19 20	6-17.1.INST	1.GR6	(Section 6-17.1 is supplemented with the following) Must use once preceding any of the following:
21 22 23 24 25 26	6-17.1.O	PT1.GB6	(Rock Bolts and Rock Dowels) (January 7, 2013) Use in projects with rock bolts and/or rock dowels. Include with 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6- 17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6- 17.5.OPT1.GB6.
27 28	6-17.2.GR6	Mat	erials
29 30 31 32	6-17.2.INST	1.GR6	(Section 6-17.2 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38	6-17.2.0	PT1.GB6	(Permanent Ground Anchor Materials and Components) (November 2, 2022) Use in projects with walls using permanent ground anchors.
39 40 41 42 43 44	6-17.2.O	PT2.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.
45 46	6-17.3.GR6	Con	struction Requirements
47 48 49	6-17.3.INST	1.GR6	(Section 6-17.3 is supplemented with the following) Must use once preceding any of the following:
50 51 52 53	6-17.3.0	PT1.GB6	(Rock Bolt and Rock Dowel Construction Requirements) (September 8, 2020)

1 2 3 4 5		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.
6 7	6-17.3(8).GR6 T	esting And Stressing
8 9 10 11	6-17.3(8).INST1.2025.0	GR6 (The third sentence in the third paragraph of Section 6- 17.3(8) is revised to read) Must use preceding the following:
12 13 14 15	6-17.3(8).OPT1.202	2 5.GR6 (Pressure Gauge) (February 13, 2024) Use in all projects with permanent ground anchors.
16 17 18 19	6-17.3(8).INST1.GR6	(Section 6-17.3(8) is supplemented with the following) Must use once preceding any of the following:
20 21 22 23 24 25 26	6-17.3(8).OPT1.GB	 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.
27	6-17.3(8)A.GR6	Verification Testing
28 29 30 31 32	6-17.3(8)A.INST1.G	GR6 (Section 6-17.3(8)A is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38 39 40 41	6-17.3(8)A.OPT	1.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 with 6-17.3(8)B.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6.
42 43	6-17.3(8)B.GR6 P	Performance Testing
44 45 46 47	6-17.3(8)B.INST1.GR6	(The performance test schedule following the second paragraph of Section 6-17.3(8)B is revised to read) Must use once preceding any of the following:
48 49 50 51 52 53	6-17.3(8)B.OPT1.G	B6 (January 3, 2011) 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

1 2 3		Geotechnical Services Division. Include with 6- 17.3(8)A.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6.
4 5	6-17.3(8)C.GR6	Proof Testing
6 7 8 9	6-17.3(8)C.II	NST1.GR6 (The proof test schedule following the first paragraph of Section 6-17.3(8)C is revised to read) Must use once preceding any of the following:
9 10 11 12 13 14 15 16 17	6-17.3(8)C.C	OPT1.GB6 (January 3, 2011) 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 with 6 - 17.3(8) <i>A.OPT1.GB6 and 6-17.3(8)B.OPT1.GB6</i> .
18	6-17.4.GR6	Measurement
19 20 21 22	6-17.4.INST1.GR6	(Section 6-17.4 is supplemented with the following) Must use once preceding any of the following:
22 23 24 25 26 27 28 29	6-17.4.OPT1.GE	 (Rock Bolts and Rock Dowels) (January 4, 2010) 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, 6-17.3(8).OPT1.GB6, and 6-17.5.OPT1.GB6.
30	6-17.5.GR6	Payment
31 32 33 34	6-17.5.INST1.GR6	(Section 6-17.5 is supplemented with the following) Must use once preceding any of the following:
35 36 37 38 39 40	6-17.5.OPT1.GE	 (Rock Bolts and Rock Dowels) (January 4, 2010) 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, 6-17.3(8).OPT1.GB6, and 6-17.4.OPT1.GB6.
41 42 43 44 45 46	Ù	hotcrete Facing November 20, 2023) se in all projects with shotcrete. Section 6-18 was deleted in the 024 Standard Specifications. This GSP adds back in Section 6-18.
47	6-18.GR6 Sho	tcrete Facing
48 49 50	6-18.2.GR6	Materials
50 51 52 53	6-18.2.INST1.GR6	(Section 6-18.2 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7	6-18.2.0	OPT2.GB6	(Coloration for Shotcrete Facing Finishing Alternative C) (August 3, 2015) Use in projects with shotcrete facing where tinting of the finish coating of shotcrete is required. Must also use with 6-18.SA1.2025.GR6 .
8 9 10 11 12	6-18.2.0	DPT3.GB6	(Fiber Reinforcement for Shotcrete Facing) (August 3, 2015) Use in projects with shotcrete facing where fiber reinforcement in the shotcrete is specified. Must also use with 6-18.SA1.2025.GR6 .
13 14 15	6-19.GR6	Shafts	
16 16 17	6-19.2.GR6	Mater	ials
18 19 20	6-19).2(9-36.2(2)).G	R6 Synthetic Slurry (Section 9-36.2(2) is supplemented with the following) Must use once preceding any of the following:
21 22 23 24 25 26 27 28 29 30	6-19.2(9-36.2(2)).OPT1.GB6 (Fresh Water for Synthetic Slurry) (January 2, 2012) Use in projects with shafts constructed in water when the geotechnical report specifie the use of fresh water for synthetic slu feasible and when the Contracting Ag restricts the water for synthetic slurry to water only. Include with 6-19.4.OPT3.GB0 6-19.5.OPT2.GB6.		
31 32 33 34	6-19.2(9	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:
35 36 37 38 39	6-19	9.2(9-36.4).OPT	1.GR6 (Shaft Related Materials) (October 3, 2022) Use in projects that contain shaft construction and crosshole sonic log testing is required.
40 41 42	6-19.3.GR6	Cons	truction Requirements
42 43 44	6-19.3(3).0	GR6 S	shaft Excavation
45 46	6-19.3(3	3).INST1.GR6	(Section 6-19.3(3) is supplemented with the following) Must use once preceding any of the following:
47 48 49 50 51 52	6-19	9.3(3).OPT1.GB	6 (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

1 2 3			specified 19.3(5).OP		certainty. 5.	Include	with	6-
4 5	6-19.3(3)B.GR6	Tem	porary an	d Perm	anent Shaft	Casing		
6 7 8 9	6-19.3(3)B.INST1.		the followi	ng) ົ໌	B is suppleme		g:	
9 10 11 12 13 14 15 16 17	6-19.3(3)B.OP	T2.GB6	(Janu Use i the pi Shaft dictat	ary 2, 2 n projec roject re Task F	cts where the ecommends, s Force concur se of the rota	geotechnica and the ADS s, that site	al report SC/WSD conditio	OT ons
18 19	6-19.3(3)B4.GR6	Tem	porary Te	lescopi	ing Shaft Ca	sing		
20 21 22 23	6-19.3(3)B4.INST ²	i	s revised to	o read a				
24 25 26 27 28 29 30 31 32	6-19.3(3)B4.O	PT1.GE	At Er (Janu Use where for sh	nd Piers ary 2, 2 in proje the op nafts at ne over		lesign condi orary telescop piers is not a	itions e oing cas appropri	sing iate
33 34	6-19.3(3)I.GR6	Req	uired Use	of Slur	rry in Shaft E	xcavation		
35 36 37	6-19.3(3)I.INST1.0		•	• • •	l is supplement ceding any of			าg)
38 39 40 41 42 43 44 45 46 47	6-19.3(3)I.OPT	-1.GB6	Ìnflux (Augu Use condi repor perfoi benea slurry	Of Wat ust 3, 20 in pr tions, a t for th rming s ath the v	or Casing Sea er Into Excav 015) rojects whe as documente ne project, a shaft excava water table le ure the stabil	ration) re the great in the great illow the po tion in a co vel without th	eotechn eotechn ossibility cased h he need	iical ⁄of nole I for
48 49	6-19.3(4).GR6	Slurry	Installatio	n Requ	lirements			
50 51	6-19.3(4)A.GR6	Slur	ry Technic	cal Assi	istance			
52 53	6-19.3(4)A.INST1.	GR6 (Section 6-	19.3(4)/	A is suppleme	ented		

1 2 3			the following) It use once preceding any of the following:
4 5 6 7 8 9 10 11 12 13 14	6-19.3(4)A.OPT ²	1.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)
15 16	6-19.3(5).GR6	Assem	bly and Placement of Reinforcing Steel
17 18 19	6-19.3(5).INST1.GR		ction 6-19.3(5) is supplemented with the following) at use once preceding any of the following:
20 21 22 23 24 25 26 27	6-19.3(5).OPT1.	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.
28	6-19.3(6).GR6 C	ontracto	or Furnished Accessories for Nondestructive
29		A Testin	g
29 30 31		A Testin	g al Wire and Thermal Access Points (TAPs)
29 30 31 32 33 34 35	Q 6-19.3(6)E.GR6	A Testin Therma R6 (Sea the	-
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	Q 6-19.3(6)E.GR6 6-19.3(6)E.INST1.G	A Testin Therma R6 (Sea the Mus	al Wire and Thermal Access Points (TAPs) ction 6-19.3(6)E is supplemented with following)
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Q 6-19.3(6)E.GR6 6-19.3(6)E.INST1.G 6-19.3(6)E.OPT	A Testin Therma R6 (Sea the Mus	al Wire and Thermal Access Points (TAPs) ction 6-19.3(6)E is supplemented with following) st use once preceding any of the following: (Thermal Wire and Associated Couplers) (January 2, 2018) Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not include other shafts such as sign bridges, cantilever sign structures, signal standards, etc.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Q 6-19.3(6)E.GR6 6-19.3(6)E.INST1.G 6-19.3(6)E.OPT	A Testin Therma R6 (Sea the Mus 1.GB6	al Wire and Thermal Access Points (TAPs) ction 6-19.3(6)E is supplemented with following) st use once preceding any of the following: (Thermal Wire and Associated Couplers) (January 2, 2018) Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not include other shafts such as sign bridges, cantilever sign structures, signal standards, etc.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Q 6-19.3(6)E.GR6 6-19.3(6)E.INST1.G 6-19.3(6)E.OPT 6-19.3(7).GR6 P 6-19.3(7)D.GR6	A Testin Therma R6 (Sea the Mus 1.GB6 Iacing C Require R6 (Sea the	Al Wire and Thermal Access Points (TAPs) ction 6-19.3(6)E is supplemented with following) st use once preceding any of the following: (Thermal Wire and Associated Couplers) (January 2, 2018) Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not include other shafts such as sign bridges, cantilever sign structures, signal standards, etc. oncrete

1 2 3	Pump) (January 2, 2012) Use in projects where the construction site is at a			
3 4 5 6			remote location where it may be difficult to make arrangements to have a concrete pump at the site.	
7 8	6-19.3(7)F.G	R6	Shaft Construction Joint	
9 10 11	6–19.3(7)	F.INST1.C	GR6 (The second paragraph of Section 6-19.3(7)F is revised to read) Must use once preceding any of the following:	
12 13 14 15 16	6-19.	3 (7)F.OPT	-1.2025.GR6 (Crosshole sonic log testing) (February 13, 2024) Use in bridge projects with shaft foundations.	
17 18	6-19.4.GR6	Meas	surement	
19 20 21	6-19.4.INST2.G		(Section 6-19.4 is supplemented with the following) Must use once preceding any of the following:	
22 23 24 25 26 27 28 29 30	6-19.4.OPT3	3.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.	
31 32	6-19.5.GR6	Payn	nent	
33 34 35	6-19.5.INST1.G	-	(Section 6-19.5 is supplemented with the following) Must use once preceding any of the following:	
33 36 37 38 39 40 41 42 43 44	6-19.5.OPT2	2.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 6-19.4.OPT3.GB6.	
44 45 46	6-20.GR6	Buried Str	ructures	
40 47 48	6-20.1.GR6	Desc	ription	
49 50	6-20.1(1).GR6	I	Definitions	
50 51 52 53	6-20.1(1).INS	ST1.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:	

1 2 3 4 5 6 7	6-20.1(1).OPT1.GB6		(January 10, 2022) 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.
8 9	6-20.2.GR6	Materials	
9 10 11 12	6-20.2.INST1.GF	- (ion 6-20.2 is supplemented with the following) use once preceding any of the following:
13 14 15 16 17 18	6-20.2.OPT1.	Ùs de 20	anuary 10, 2022) se in all projects requiring the use of a Contractor- signed buried structure. Must be included with 6- 0.1(1).OPT1.GB6, 6-20.3.OPT1.GB6 , and 6- 0.5.OPT1.GB6.
19	6-20.3.GR6	Construc	tion Requirements
20 21 22 23	6-20.3.INST1.GF	`	ion 6-20.3 is supplemented with the following) use once preceding any of the following:
24 25 26 27 28	6-20.3.OPT1.	Ùs de 20	anuary 10, 2022) se in all projects requiring the use of a Contractor- signed buried structure. Must be included with 6 - 0.1(1).OPT1.GB6, 6-20.2.OPT1.GB6 , and 6 - 0.5.OPT1.GB6.
29 30	6-20.3(1).GR6	Desi	gn
31 32	6-20.3(1)D.G I	R6 G 6	eotechnical Considerations
33 34 35	6-20.3(1) [).INST1.GR6-	<u>(Section 6-20.3(1) is supplemented with the following:</u> Must use once preceding any of the following:
36 37	6-20.3	(1)D.OPT1.20)25.GR6 (November 20, 2023)
38 39	6-20.5.GR6	Payment	Use in all projects with buried structures.
40 41 42 43	6-20.5.INST1.GF		ion 6-20.5 is supplemented with the following) use once preceding any of the following:
43 44 45 46 47 48 49	6-20.5.OPT1.	Ùs de 20	anuary 10, 2022) se in all projects requiring the use of a Contractor- signed buried structure. Must be included with 6- 0.1(1).OPT1.GB6, 6-20.2.OPT1.GB6 , and 6- 0.3.OPT1.GB6.
	<u>6-SA1.FR6</u>		oncrete Overlay
51 52 53		(September) Use in projec	5, 2024) cts with polyester concrete bridge deck overlays.

6-21.SA1.2025.GR6 Modified Concrete Overlay -Microsilica or Fly Ash

(February 13, 2024) Use in all projects with modified concrete overlay with microsilica or fly ash. This GSP adds back in the missing Sections 6-21.2.

I

1	6-02.GR6					
1 2	Concrete Structures					
2	Concrete Structures					
4	6-02.2.GR6					
5	Materials					
6	Materials					
7	6-02.2.INST1.GR6					
8	Section 6-02.2 is supplemented	with the following.				
9		mar ale following.				
10	6-02.2.OPT2.GB6					
11	(September 8, 2020)					
12		For Surfaces And For Steel Reinford	cing Bar Dowels			
13		infaces shall be Type II, as specified in Se				
14		inforcing bar dowels shall be either Ty				
15		. The grade and class of epoxy bondin				
16	recommended by the resin		g agent chair be ac			
17						
18	6-02.2.OPT26.GB6					
19	(April 6, 2015)					
20	Rapid Cure Silicone Se	alant				
21		shall be Dow Corning 902 RCS Joint Sea	alant.			
22	·	5				
23	The Contractor shall delive	r the joint sealant to the job site in the sea	alant manufacturer's			
24	original sealed container. E	ach container shall be marked with the se	alant manufacturer's			
25	name and lot or batch number. Each lot or batch shall be accompanied by the					
26	manufacturer's Safety Data Sheet (SDS), and Manufacturer's Certificate of Compliance,					
27	identifying the lot or batch number, and certifying that the materials conform to the					
28	properties stated on the product data sheet.					
29						
30		The backer rod shall be closed cell expanded polyethylene foam as recommended by the				
31		diameter of the backer rod shall be as re	-			
32	sealant manufacturer for th	e expansion joint opening at the time of ir	nstallation.			
33						
34	6-02.2.OPT27.GB6					
35	(April 6, 2015)					
36	Polyester Concrete					
37	Polyester Resin Bind					
38	The resin shall be an u	insaturated isophthalic polyester-styrene	co-polymer.			
39	Dui an tao a dalla a tha initi	a terre the second second second sector of a line of a line of a				
40	Prior to adding the initi	ator, the resin shall conform to the followi	ng requirements:			
41 42	Viceocity	75 to 200 one				
42 43	Viscosity:	75 to 200 cps $(20 \text{ rpm at } 775 \text{ D})(T \text{ No. 1 apindle})$	ASTM D 2196			
43 44		(20 rpm at 77F, RVT No. 1 spindle)				
44 45	Specific Gravity:	1.05 to 1.10 at 77F	ASTM D 1475			
46	opecilie Oravity.	1.03 to 1.10 at 771				
47	Styrene Content	45% to 50% by weight	ASTM D2369			
48		of polyester styrene resin				
49						
50	The hardened resin sh	all conform to the following requirements				
51						
5.						

1 2 3	Elongation:	35% minimum w/ thickness 0.25" ± 0.04"	ASTM D 638				
5 4 5 6	Tensile Strength:	2,500 psi minimum w/ thickness 0.25" ± 0.04"	ASTM D 638				
7 8	Conditioning	18 hours/77F/50% + 5 hours/158F	ASTM D 618				
9 10	Silane Coupler:	1.0% minimum (by weight of polyester-	styrene resin)				
10 11 12 13 14 15 16	The silane coupler shall be an organosilane ester, gammamethacryloxypro- pyltrimethoxysilane. The promoter/hardeners shall be compatible with suitable methyl ethyl ketone peroxide (MEKP) and cumene hydroperoxide (CHP) initiators. MEKP and CHP initiators shall be used as recommended by the manufacturer.						
17 18	Polyester resin binder Manufacturer's Certific	r will be accepted based on submittal cate of Compliance.	to the Engineer of a				
19 20 21 22 23 24	In addition to the visco	ht Methacrylate (HMWM) Resin osity and density properties, and the pror 09.2, the HMWM resin for polyester con- ents:					
25 26	Flash Point:	180F minimum	ASTM D 3278				
27 28	Tack-Free Time:	400 minutes maximum	California Test 551				
29 30 31		r, the HMWM resin shall have a maximu ed in conformance with ASTM D 2369.	um volatile content of				
32 33 34		IWM resin will be accepted based on submittal to the Engineer of a Manufacturer's rtificate of Compliance.					
35 36 37 38	Aggregate The aggregate shall b washed and kiln dried.	be from a WSDOT approved pit site and	d shall be thoroughly				
39 40 41		he aggregate shall conform to Section 9-03.1(5)B for either 1/2-inch or 3/8-inch aximum nominal aggregate size.					
42 43 44		The combined aggregate shall have a maximum of 45 percent crushed particles. Fine aggregate shall conform to Section 9-03.13.					
45 46 47 48 49	aggregate shall not exe with the polyester res	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.					
50 51 52	Sand for Abrasive Finish The sand for abrasive finish shall conform to Section 6-09.2, and the aggregate moisture content requirements specified above.						

1						
2	6-02.2.OPT28.GB6					
3	(April 6, 2015)					
4	Elastomeric Concrete					
5	Elastomeric concrete shall be one of the following three products:					
6 7	BASF/Watson Bowman Acme Wabo Crete II					
8 9	D. S. Brown Delcrete					
10						
11	R. J. Watson Poly-Tron					
12	_					
13	The elastomeric concrete aggregate shall be as specified, gradated, and packaged by					
14	the elastomeric concrete manufacturer.					
15	The universal all here as a constructed by the electron of a construct on the transfer to one					
16	The primer shall be as recommended by the elastomeric concrete manufacturer.					
17 18	The Contractor shall deliver the electomeric concrete components to the ich site in the					
10 19	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					
20	marked with the sealant manufacturer's name and lot or batch number. Each lot or batch					
20	shall be accompanied by the manufacturer's Safety Data Sheet (SDS), and					
22	Manufacturer's Certificate of Compliance, identifying the elastomeric concrete					
23	manufacturer and the lot or batch number, and certifying that the materials conform to the					
24	properties stated in the product data sheet.					
25						
26	6-02.2.OPT33.GB6					
27	(August 3, 2015)					
28	Fabric Pad Bearing					
29	Unless other materials are specified in the Plans, fabric pad bearing assembly					
30	components shall conform to the following requirements for those components shown					
31	and specified in the Plans:					
32						
33	Steel Plates and Bars					
34	Steel plates and bars (keeper bars, sole plates, backing plates, and masonry plates)					
35	shall conform to ASTM A 36 and the dimensions shall conform to the details shown					
36	in the Plans. The backing plate and masonry plate surfaces in contact with the pre-					
37	formed fabric pad, and the surface within the recess of the backing plate, shall have					
38	an average surface roughness of 250 microinches or less. The surface of the sole					
39	plate in contact with the stainless steel sheet shall have an average surface					
40	roughness of 125 microinches or less. All other steel plate and bar surfaces in					
41	contact with other fabric pad bearing components shall have an average surface					
42	roughness of 500 microinches or less.					
43	Dro formed Echric Ded					
44 45	Pre-formed Fabric Pad Bro formed fabric pads shall be composed of multiple layers of duck, imprograted					
45 46	Pre-formed fabric pads shall be composed of multiple layers of duck, impregnated					
40 47	and bound with high quality oil resistant synthetic rubber, compressed into resilient pads. The pre-formed fabric pads shall conform to the latest edition of MIL C 882					
48	and the following requirements. The number of plies shall be as required to produce					
40 49	the specified thickness, after compression and vulcanization.					
4 5 50						
51	The pre-formed fabric pad shall have a shore A hardness of 90 ± 5 in accordance with					
52	ASTM D 2240.					

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1	Delutetrofleureethylene (DTEE) Sheet					
2 3	Polytetraflouroethylene (PTFE) Sheet					
3 4	PTFE shall be 100 percent virgin (unfilled) PTFE, fiberglass fiber filled PTFE, or					
	dimpled PTFE conforming to Section 18.8.2 of the AASHTO LRFD Bridge					
5	Construction Specifications, current edition and latest interims, and the following					
5 6 7	requirements:					
8	1. PTFE sheet shall be composed of 100 percent virgin (unfilled)					
9	polytetrafluoroethylene resin, except where filled PTFE is specified in the					
10	Plans.					
11	Tians.					
12	2. Filled PTFE, when specified in the Plans, shall be composed of PTFE resin					
13	uniformly blended with 15 percent maximum fiberglass fiber.					
14	aniornity biorided with to percent maximum ibergidee liber.					
15	3. The substrate shall limit the flow (elongation) of the confined PTFE to not					
16	more than 0.009 inch under a pressure of 2,000 psi for 15 minutes at 78F					
17	for a two inch by three inch test sample.					
18						
19	4. Unfilled PTFE shall have a hardness of 50 to 65 Durometer D, at 78F, in					
20	accordance with ASTM D 2240.					
21						
22	Stainless Steel Sheet					
23	Stainless steel sheet shall be no less than 14 gage meeting ASTM A 240 Type 304L					
24	specifications. Stainless steel in contact with the PTFE shall be polished to a					
25	Number 8 mirror finish.					
26						
27	Welded Shear Connectors					
28	Welded shear connectors shall conform to Section 9-06.15.					
29						
30	Bolts, Nuts and Washers					
31	Bolts, nuts and washers shall conform to Section 9-06.5(3), and shall be galvanized					
32	after fabrication in accordance with AASHTO M 232.					
33						
34	Anchor Bolts, Nuts and Washers					
35	Anchor bolts, nuts and washers shall conform to Section 9-06.5(4). The top 1'-0",					
36	minimum, of the exposed end of the anchor bolts, and the associated nuts and					
37	washers, shall be galvanized after fabrication in accordance with AASHTO M 232.					
38	Concrete Incorte					
39 40	Concrete Inserts					
40 41	Concrete inserts shall be as specified in the Plans.					
41	Silicone Grease and Epoxy Gel					
43	Silicone grease shall conform to SAE AS 8660.					
43	Sincone grease shall contonn to OAE AO 0000.					
45	Epoxy gel shall be Type I, Grade 3, Class A, B, or C, conforming to Section 9-26.1.					
46						
47	Submittals of Test Reports, Certifications, and Samples					
48	The Contractor shall submit Type 2 Working Drawings consisting of the following test					
49	reports, certifications, and samples:					
50	, ,,, -					
51	1. Manufacturer's Certificate of Compliance for the PTFE, pre-formed fabric					
52	pad duck, silicone grease, and epoxy gel.					

- 2. Certified mill test reports for all steel and stainless steel in the bearing assemblies.
- Certified test reports confirming that the pre-formed fabric pads meet the 3. specified requirements of proof load.
- 4. Samples of the pre-formed fabric pads, size six inches by six inches by one inch, and PTFE sheet, size six inches by six inches by 1/8 inch, from the production material.

12 6-02.2.OPT39.BSP.GB6

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Cylindrical Bearing

15 Unless other materials are specified in the Plans, cylindrical bearing assembly 16 components shall conform to the following requirements for those components shown 17 and specified in the Plans: 18

Steel Plates and Bars

20 Steel plates and bars (base plates, bearing plates, guide bars, masonry plates, and 21 sole plates) shall conform to ASTM A 36, and the dimensions shall comply with the 22 details as shown in the Plans. The surface of the steel plates and bars in contact 23 with stainless steel shall have an average surface roughness of 125 microinches or 24 less. The surface within the recess of steel plates and bars retaining PTFE shall 25 have an average surface roughness of 250 microinches or less. All other steel plate 26 and bar surfaces in contact with other cylindrical bearing assembly components shall 27 have an average surface roughness of 500 microinches or less. 28

Polytetrafluoroethylene (PTFE)

PTFE shall be 100 percent virgin PTFE, woven PTFE fabric, or dimpled PTFE 30 31 conforming to Section 18.8.2 of the AASHTO LRFD Bridge Construction 32 Specifications, current edition and latest interims.

Stainless Steel

- 35 Stainless steel sheet shall conform to ASTM A 240 Type 304L. Stainless steel in 36 contact with PTFE shall be polished to a Number 8 mirror finish.
- 37 38 Stainless steel countersunk screws shall be hexagon socket type conforming to ANSI 39 B 18.3 and shall conform to ASTM F 593 Type 304L.

Silicone Grease and Epoxy Gel

- 41 42 Silicone grease shall conform to US Navy QPL AS8660-2.
- 44 Epoxy gel shall be Type I, Grade 3, Class A, B, or C, conforming to Section 9-26.1.

46 **Bolts, Nuts and Washers**

47 Bolts, nuts and washers shall conform to Section 9-06.5(3) and shall be galvanized 48 after fabrication in accordance with AASHTO M 232.

50 Anchor Bolt Assembly

51 Anchor bolts shall conform to ASTM F 1554 Grade 105, including supplemental 52 requirements S2, S3, and S5. Nuts shall conform to ASTM A 563 Grade DH.

1 2 3 4 5	Washers shall conform to ASTM F 436. Bars shall conform to ASTM A 36. Pipe shall conform to ASTM A 53 Grade B Type E or S, black. The upper portion of the anchor bolts, and associated nuts and washers, to six inches minimum below the concrete surface, shall be galvanized after fabrication in accordance with AASHTO M 232.				
6 7 8 9	Resin Filler Resin filler shall conform to Section 6-02.2 as supplemented in these Special Provisions.				
10 11 12 13	The Co	tals of Acceptance Test Reports an ntractor shall submit the following pr ites, to the Engineer for review, testin	oduction samples, and test reports and		
14 15 16	1.	Manufacturer's certificate of comp silicone grease, in accordance with	bliance for the PTFE, resin filler, and Section 1-06.3.		
17 18	2.	A six inch by six inch by 1/8 inch production material.	sample of PTFE taken from the lot of		
19 20 21	3.	Certified mill test reports for al incorporated in the bearings.	steel and stainless steel materials		
22 23 24 25 26	The Contractor shall not ship the bearings from the fabricator's facility until receiving the Engineer's written approval of all production samples, and test reports and certificates.				
27	6-02.2.OPT4.GB	6			
28	(Novembe				
29	Epoxy Crack Sealing Materials				
30 31		ng paste shall be a thixotropic compo	und.		
32 33 34 35	restoring th delamination	ne structural integrity of a struct	ive, two-component material capable of sure by structurally bonding cracks, tions shall be hydrophilic with variable having a width of 6 mils and greater.		
36 37 38 39 40	manufacture		e hardener in accordance with the a non-shrink solid material. The material		
40 41 42	Epoxy inject	ion resin shall have the following phy	sical properties:		
43 44	Solids (Content, by weight (minimum)	98 percent		
45 46	Viscosit	ty (maximum) at 77F (Brookfield)	700 cps		
47 48	Compre	essive Yield Strength (minimum)	12,000 psi		
49	Minimu	m Flexural Strength (ASTM D 790)	10,000 psi		
50 51 52	Bond S	trength (minimum)	500 psi		

- 1 The Contractor shall submit a Type 2 Working Drawing consisting of sample of the 2 material of the epoxy sealing paste and epoxy injection resin together with sufficient 3 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.

8 6-02.2.OPT40.BSP.GB6

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Disc Bearing

11 Unless other materials are specified in the Plans, disc bearing assembly components 12 shall conform to the following requirements for those components shown and specified in 13 the Plans:

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Steel Plates and Bars

16 Steel plates and bars (sliding plates, bearing plates, guide bars, masonry plates, and 17 sole plates) shall conform to ASTM A 36, and the dimensions shall comply with the 18 details as shown in the Plans. The surface of the steel plates and bars in contact 19 with stainless steel shall have an average surface roughness of 125 microinches or 20 less. The surface of steel plates in contact with the polyether urethane disc, and the 21 surface within the recess of steel plates and bars retaining PTFE, shall have an 22 average surface roughness of 250 microinches or less. All other steel plate and bar 23 surfaces in contact with other disc bearing assembly components shall have an 24 average surface roughness of 500 microinches or less. 25

Polyether Urethane

Polyether urethane shall conform to Section 18.3.2.8 and Table 18.3.2.8-1 of the AASHTO LRFD Bridge Construction Specifications, current edition and latest interims.

Polytetrafluoroethylene (PTFE)

PTFE shall be 100 percent virgin PTFE, woven PTFE fabric, or dimpled PTFE
 conforming to Section 18.8.2 of the AASHTO LRFD Bridge Construction
 Specifications, current edition and latest interims.

Stainless Steel

- Stainless steel sheet shall conform to ASTM A 240 Type 304L. Stainless steel in contact with PTFE shall be polished to a Number 8 mirror finish.
- Stainless steel countersunk screws shall be hexagon socket type conforming to ANSI B 18.3 and shall conform to ASTM F 593 Type 304L.

43 Silicone Grease and Epoxy Gel

- Silicone grease shall conform to US Navy QPL AS8660-2.
- 46 Epoxy gel shall be Type I, Grade 3, Class A, B, or C, conforming to Section 9-26.1. 47

48 Bolts, Nuts and Washers

- 49 Bolts, nuts and washers shall conform to Section 9-06.5(3) and shall be galvanized 50 after fabrication in accordance with AASHTO M 232.
- 51

Anchor Bolt Assembly

Anchor bolts shall conform to ASTM F 1554 Grade 105, including supplemental requirements S2, S3, and S5. Nuts shall conform to ASTM A 563 Grade DH. Washers shall conform to ASTM F 436. Bars shall conform to ASTM A 36. Pipe shall conform to ASTM A 53 Grade B Type E or S, black. The upper portion of the anchor bolts, and associated nuts and washers, to six inches minimum below the concrete surface, shall be galvanized after fabrication in accordance with AASHTO M 232

Resin Filler

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36 37 Resin filler shall conform to Section 6-02.2 as supplemented in these Special Provisions.

Submittals of Acceptance Test Reports and Certificates

The Contractor shall submit the following production samples, and test reports and certificates, to the Engineer for review, testing, and approval:

- 1. Manufacturer's certificate of compliance for the polyether urethane, PTFE, resin filler, and silicone grease, in accordance with Section 1-06.3.
- 2. A six inch by six inch by 1/8 inch sample of PTFE taken from the lot of production material.
- 3. Certified mill test reports for all steel and stainless steel materials incorporated in the bearings.

The Contractor shall not ship the bearings from the fabricator's facility until receiving the Engineer's written approval of all production samples, and test reports and certificates.

30 6-02.2.OPT41.BSP.GB6

31 (*****)

Spherical Bearing

33 Unless other materials are specified in the Plans, spherical bearing assembly 34 components shall conform to the following requirements for those components shown 35 and specified in the Plans:

Steel Plates and Bars

38 Steel plates and bars (base plates, bearing plates, guide bars, keeper bars and 39 plates, masonry plates, and sole plates) shall conform to ASTM A 36, and the 40 dimensions shall comply with the details as shown in the Plans. The surface of the 41 steel plates and bars in contact with stainless steel shall have an average surface 42 roughness of 125 microinches or less. The surface within the recess of steel plates 43 and bars retaining PTFE shall have an average surface roughness of 250 44 microinches or less. All other steel plate and bar surfaces in contact with other 45 spherical bearing assembly components shall have an average surface roughness of 500 microinches or less. 46 47

48 **Polytetrafluoroethylene (PTFE)**

49 PTFE shall be 100 percent virgin PTFE, woven PTFE fabric, or dimpled PTFE
 50 conforming to Section 18.8.2 of the AASHTO LRFD Bridge Construction
 51 Specifications, current edition and latest interims.

52

1 2 3	Stainless Steel Stainless steel sheet shall conform to ASTM A 240 Type 304L. Stainless steel in contact with PTFE shall be polished to a Number 8 mirror finish.
4 5 6 7	Stainless steel countersunk screws shall be hexagon socket type conforming to ANSI B 18.3 and shall conform to ASTM F 593 Type 304L.
8 9 10	Silicone Grease and Epoxy Gel Silicone grease shall conform to US Navy QPL AS8660-2.
10 11 12	Epoxy gel shall be Type I, Grade 3, Class A, B, or C, conforming to Section 9-26.1.
13 14 15	Bolts, Nuts and Washers Bolts, nuts and washers shall conform to Section 9-06.5(3) and shall be galvanized after fabrication in accordance with AASHTO M 232.
16 17 18 19 20 21 22 23	Anchor Bolt Assembly Anchor bolts shall conform to ASTM F 1554 Grade 105, including supplemental requirements S2, S3, and S5. Nuts shall conform to ASTM A 563 Grade DH. Washers shall conform to ASTM F 436. Bars shall conform to ASTM A 36. Pipe shall conform to ASTM A 53 Grade B Type E or S, black. The upper portion of the anchor bolts, and associated nuts and washers, to six inches minimum below the concrete surface, shall be galvanized after fabrication in accordance with AASHTO M 232
24 25 26 27 28	Resin Filler Resin filler shall conform to Section 6-02.2 as supplemented in these Special Provisions.
20 29 30 31 32	Submittals of Acceptance Test Reports and Certificates The Contractor shall submit the following production samples, and test reports and certificates, to the Engineer for review, testing, and approval:
33 34	1. Manufacturer's certificate of compliance for the PTFE, resin filler, and silicone grease, in accordance with Section 1-06.3.
35 36 37	2. A six inch by six inch by 1/8 inch sample of PTFE taken from the lot of production material.
38 39 40	 Certified mill test reports for all steel and stainless steel materials incorporated in the bearings.
41 42 43 44 45 46 47 48 49	The Contractor shall not ship the bearings from the fabricator's facility until receiving the Engineer's written approval of all production samples, and test reports and certificates.
	6-02.2.OPT46(A).GB6 (June 26, 2000) Inserts shall be of the type and model specified in the Plans. Inserts shall be galvanized in accordance with AASHTO M 111.
50 51 52	6-02.2.OPT46(B).GB6 (September 3, 2019)

1 Hanger rods, and associated nuts and washers, shall conform to Section 9-06.5(1), and 2 shall be galvanized in accordance with ASTM F2329. 3 4 Steel bars and plates shall conform to ASTM A 36 and shall be galvanized in accordance 5 with AASHTO M 111. 6 7 6-02.2.OPT46(C).GB6 8 (September 3, 2019) 9 Horizontal strut bolts or threaded rods, and associated nuts and washers, shall conform 10 to Section 9-06.5(1), and shall be galvanized in accordance with ASTM F2329. 11 12 Pre-formed fabric pads shall be composed of multiple layers of duck, impregnated and 13 bound with high quality oil resistant synthetic rubber, compressed into resilient pads. The 14 pre-formed fabric pads shall conform to latest edition of MIL C 882 and the following 15 requirements. The number of plies shall be as required to produce the specified 16 thickness, after compression and vulcanizing. 17 18 Pre-formed fabric pads shall have a shore A hardness of 90+5 in accordance with ASTM 19 D 2240. 20 21 Pre-formed fabric pads for bridge utility supports will be accepted based on the 22 Manufacturer's Certificate of Compliance that the material furnished conforms to these 23 specifications. 24 25 6-02.2.OPT46(D).GB6 26 (June 26, 2000) 27 Pipe rolls or pipe saddles shall be of the type and model specified in the Plans. 28 29 6-02.2.OPT46(E).GB6 30 (September 3, 2019) 31 Anchor straps shall conform to ASTM A 36 and shall be galvanized after fabrication in 32 accordance with AASHTO M 111. 33 34 Anchor bolts, and associated nuts and washers, shall conform to Section 9-06.5(4), and 35 shall be galvanized in accordance with ASTM F2329. 36 37 6-02.2.OPT46.GB6 38 **Bridge Supported Utilities** 39 40 6-02.2.OPT48.GB6 41 (April 30, 2001) 42 Bridge Drain Risers 43 Spacer bars and riser bars for the drain riser assembly shall conform to ASTM A 36. 44 45 6-02.2.OPT56.BSP.GB6 46 (*****) 47 Resin Filler 48 Resin filler shall be a two component, resin and catalyst, liquid thermoset material. 49 50 The properties of the resin and catalyst shall be: 51 52 1. The components shall be supplied in separate containers.

1					
2	2.	The viscosity of the resin-catalyst mixture shall be $35,000 \pm 5,000$ cP at 75F			
3 4		immediately after mixing.			
5	3.	The flash point shall be 100F minimum.			
6 7 8 9 10 11	4.	After mixing, the resin-catalyst mixture shall be pourable for a minimum of eight minutes at 60F and shall harden in fifteen minutes maximum. Heating of the mixture after placing to a maximum temperature of 250F is permissible to obtain a full cure.			
12 13	The pro	perties of the cured resin shall be:			
13 14 15	1.	The fully cured compressive strength shall be 12,000 psi minimum.			
16 17 18	2.	The maximum allowable shrinkage shall be 2 percent. To control shrinkage, an inert filler may be used in the resin provided that the viscosity requirements are met.			
19 20	3.	The hardness shall be between 40 and 55 in accordance with ASTM D 2583.			
21 22	A resin r	material known to meet the specified requirements herein is used in the wire rope			
23		for resin socketing.			
24	maastry	tor ream according.			
25 26 27	The Contractor shall submit a Manufacturer's Certificate of Compliance in accordance with Section 1-06.3 to the Engineer for approval prior to using the resin filler.				
28	6-02.2.OPT58.GB6				
20 29		mber 8, 2020)			
29 30	• •	rilled Bridge Deck Drain			
30 31		leck drain pipe sleeve shall be any smooth wall, non-perforated, PVC pipe of the			
32	•	r and minimum wall thickness specified in the Plans.			
33	ulamete				
34	Epoxy b	onding agent shall be Type II conforming to Section 9-26.1. The grade and class			
35		boxy bonding agent shall be as recommended by the bonding agent manufacturer.			
36	I	, , , , , , , , , , , , , , , , , , , ,			
37	6-02.2.OPT6	60(B).GB6			
38	(April 6, 2015)				
39	Steel pipe shall conform to ASTM A 53, Grade B, Type E or S, galvanized. The pipe				
40	shall be Schedule 40, except as otherwise specified in the Plans.				
41					
42		C pipe shall be any smooth wall, non-perforated, PVC pipe of the diameter and			
43	min	imum wall thickness or Schedule specified in the Plans.			
44 45					
45 46	6-02.2.OPT6	ovember 20, 2023)			
47		el bars, plates and shapes shall conform to ASTM A36 except that structural			
48		ipes may conform to ASTM A992.			
49					
50	Epo	bxy bonding agent, where shown in the Plans for bonding steel components to			
51	concrete, shall be Type II as specified in Section 9-26.1. The grade and class of				
52	epc	bxy bonding agent shall be as recommended by the bonding agent manufacturer.			

1 2 All steel components and assemblies for seismic restrainers, except as otherwise 3 specified, shall be galvanized after fabrication in accordance with AASHTO M 111. 4 5 Bolts, nuts, and washers shall conform to Section 9-06.5(3) and shall be galvanized 6 after fabrication in accordance with ASTM F2329. 7 8 Resin bonded anchors shall conform to Sections 6-02.3(18)A and 9-06.4. 9 Additionally, the threaded anchor rods for seismic retrofit elements shall conform to 10 either ASTM A193 Grade B7 or ASTM F1554 Grade 105, and shall conform to the 11 appropriate supplemental requirements for grade and manufacturer's identification, 12 and charpy impact testing (15-foot-pounds minimum at 40F). Results of the charpy 13 impact testing for the production lot(s) including the anchor rods furnished for seismic 14 retrofit components and assemblies shall be submitted to the Engineer along with the Manufacturer's Certificate of Compliance. 15 16 17 6-02.2.OPT60(D).GB6 18 (September 8, 2020) 19 High-strength steel rods for longitudinal seismic restrainer assemblies shall conform 20 to ASTM F 1554 Grade 105, including Supplemental Requirements S2, S3, and S5. 21 Nuts, and couplers if required, shall conform to ASTM A 563 Grade DH. Washers 22 shall conform to ASTM F 436. 23 24 High-strength steel rods and associated couplers, nuts and washers shall be 25 galvanized after fabrication in accordance with ASTM F2329. 26 27 6-02.2.OPT60(E).GB6 28 (April 6, 2015) 29 Pre-formed fabric pads shall be composed of multiple layers of duck impregnated 30 and bound with high quality oil resistant synthetic rubber compressed into resilient 31 pads. The pre-formed fabric pads shall conform to the latest edition of MIL-C-882 32 and the following requirements. The number of plies shall be as required to produce 33 the specified thickness, after compression and vulcanizing. Pre-formed fabric pads 34 shall have a shore A hardness of 90 ± 5 in accordance with ASTM D 2240. 35 36 Pre-formed fabric pads for seismic restrainers will be accepted based on the 37 Manufacturer's Certificate of Compliance that the material furnished conforms to 38 these specifications. 39 40 6-02.2.OPT60(F).GB6 41 (September 8, 2020) 42 **Column Jacketing Materials** 43 All metal components shall conform to ASTM A 36, and shall be painted in 44 accordance with Section 6-07.3(9), and Section 6-03.3(30) as supplemented in these 45 Special Provisions. Metal surfaces in contact with grout shall be considered in 46 contact with concrete for the purposes of Section 6-07.3(9). 47 48 Grout shall conform to the requirements of Section 9-20.3(4) and the following 49 requirements: 50 51 The grout shall be a pumpable mix capable of filling the annulus between the 52 concrete column and steel column jacket assembly. The grout shall be free of

1 lumps and undispersed cement, and shall not show any visible signs of 2 separation of water and cement during pumping operations. 3 4 Aggregate conforming to Section 9-03.1(5) with a maximum aggregate size of 3/8 5 inch may be used to extend the grout. Mortar shall conform to Section 9-20.4(2). 6 7 Epoxy bonding agent for filling grout voids shall be Type II, as specified in Section 9-8 26.1. The grade and class of epoxy bonding agent shall be as recommended by the 9 bonding agent manufacturer. 10 11 6-02.2.OPT60.GB6 12 (April 6, 2015) 13 Seismic Retrofit Materials 14 Components fabricated and constructed for seismic retrofit work shall conform to the 15 following requirements: 16 17 6-02.2.OPT61.BSP.GB6 (*****) 18 19 Precast Prestressed Concrete Stay-In-Place Panels 20 Concrete shall have an initial strength at strand release, and a 28 day minimum 21 compressive strength, as specified in the Plans. 22 23 Prestressing reinforcement shall conform to Section 9-07.10, except that the diameter 24 shall be as specified in the Plans. 25 26 Grout shall conform to Section 9-20.3(2). 27 28 Leveling bolts shall conform to Section 9-06.5(1), and shall be galvanized after fabrication 29 in accordance with AASHTO M 232. 30 31 Backer rod shall be closed cell expanded polyethylene foam. 32 33 6-02.2.OPT61.GB6 34 (September 8, 2020) 35 Precast Prestressed Concrete Stay-In-Place Panels 36 Concrete shall have an initial strength at strand release of at least 5,000 psi, and a 28 37 day minimum compressive strength as specified in the Plans. 38 39 Prestressing reinforcement strand shall conform to Section 9-07.10, except that the 40 diameter shall be as specified in the Plans. The strand shall be provided by a 41 manufacturer and facility capable of producing $\frac{1}{2}$ " diameter strand with an average bond 42 pull-out force of 16.0 kips when tested in accordance with ASTM A1081. Test reports for 43 ASTM A1081 shall be submitted with the Manufacturer's Certificate of Compliance, and 44 testing shall have been performed on strand produced within the previous 36 months. 45 46 Grout shall conform to Section 9-20.3(2). 47 48 Leveling bolts shall conform to Section 9-06.5(1), and shall be galvanized after fabrication 49 in accordance with AASHTO M 232. 50 51 Backer rod shall be closed cell expanded polyethylene foam. 52

1	6-02.3.GR6
2	Construction Requirements
3	
4	6-02.3.INST1.GR6
5 6	Section 6-02.3 is supplemented with the following:
7	6-02.3.OPT1.GB6
8	(September 7, 2021)
9	Epoxy Crack Sealing
10	The materials being used may be dermatetic. The Contractor's contact with and use of
11	the materials shall conform to the requirements specified in the SDS for each material,
12	and all personnel shall be provided with appropriate clothing and protective garments.
13	All works winds, shall be showed and whole shall from invition as were so we converse and a built of
14 15	All materials shall be stored and protected from ignition sources as recommended by the material manufacturer.
16	
17	The cracks shall be cleaned of efflorescence, deteriorated concrete and other surface
18	debris, by vacuuming, flushing, routing, sawing or other means as required.
19	
20	Entry ports shall consist of tubes, tees or other valve devices as recommended by the
21	resin manufacturer. The ports shall be placed at intervals along each crack in accordance
22 23	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
23 24	concrete dust from becoming embedded in the crack.
25	
26	The exposed crack surfaces and the areas around the entry ports shall be sealed with
27	epoxy sealing paste and cured in accordance with the resin manufacturer's written
28	instructions, to attain a seal capable of withstanding the applied injection pressures.
29 30	The Contractor shall furnish the convises of a fastery trained technical representative to
30 31	The Contractor shall furnish the services of a factory trained technical representative to perform the epoxy crack sealing injection.
32	perform the epoxy order sealing injection.
33	Injection shall be accomplished with a pressure or injection machine compatible with the
34	resin selected for use and shall begin at the lowest port and continue until there is
35	evidence of the resin at the entry port directly above and adjacent to the port being
36	pumped. When material travel is indicated, the nozzle shall be moved to the port that
37 38	shows resin. The previously pumped port shall be sealed. Injection shall continue until
39	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,
40	a formulation (dependent upon crack width, ambient temperature, modulus requirements
41	and other variables) of epoxy resin and fine sands shall be used as recommended by the
42	resin manufacturer.
43	
44	After all ports have been pumped and the crack is full, the epoxy resin shall be cured
45 46	without disturbance in accordance with the resin manufacturer's written instructions as
40 47	necessary to ensure development of the full bond capacity of the material.
48	After the epoxy has cured completely, the epoxy sealing paste and port stems shall be
49	ground flush with the original surface of the concrete.
50	- · · ·
51	At the discretion of the Engineer, cores shall be taken after the repair is completed to
52	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.

5 6-02.3.OPT10.GB6

(January 7, 2019)

Elastomeric Concrete

8 Elastomeric concrete shall be composed of the following three components – two 9 component polyurethane resin binder, and aggregate, in accordance with Section 6-02.2
 10 as supplemented in these Special Provisions.

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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.

19

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.

42 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,
 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.
- 49 Precautions shall be taken to ensure that no dust or debris leaves the bridge deck 50 and that all traffic is protected from rebound and dust.
- 51

- 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

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- 8 Application of the prime coat and the elastomeric concrete shall not begin if rain is 9 forecast within 12-hours of completion of the Work. The area receiving the prime coat 10 shall be dry and had no rain within the past 12 hours. Immediately prior to applying 11 the prime coat, the surfaces shall be cleaned to remove accumulated dust and any 12 other loose material.
- 14 The concrete bridge deck surface shall be between 50F and 85F when applying the 15 prime coat.
- 16 17 The Contractor shall apply primer in accordance with the elastomeric concrete 18 manufacturer's recommendations and shall limit the extent of primer application to 19 that surface area that can be covered by a layer of elastomeric concrete before 20 primer cure. 21
 - 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.
- 39 Elastomeric concrete shall be placed within five minutes of initiation.
- 41 The surface temperature of the area receiving the elastomeric concrete shall be the 42 same as specified above for the prime coat.

44 Finished Elastomeric Concrete Surface

- The finished surface of the elastomeric concrete shall be smooth and uniform as to crown and grade in accordance with Section 6-02.3(10)D3.
- 48 Finishing tools or equipment used shall strike off the elastomeric concrete to the 49 established grade and cross section.
- 505151The finished surface of elastomeric concrete shall receive an abrasive sand finish.
 - 52 The sand finish shall be applied by hand immediately after strike-off and before

1 2 3	gelling occurs. Sand shall be broadcast onto the surface to affect a uniform coverage of a minimum of 0.8 pounds per square yard.
4 5 6 7 8 9 10 11	Curing The elastomeric concrete shall be cured in accordance with the manufacturer's recommendations. The Contractor shall measure the compressive strength of the cured elastomeric concrete with a rebound hammer in accordance with ASTM C805. The readings of the rebound hammer used shall be correlated to the compressive strength of the elastomeric concrete product in accordance with ASTM C805 Section 5.4, and the Contractor shall submit a Type 1 Working Drawing of this correlation.
12 13 14 15	Traffic and equipment shall not be permitted on the elastomeric 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.
16 17 18 19 20 21	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.
22 23 24 25 26 27	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.
28 29 30 31 32	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\$\$ ***.
33 34 35 36	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.
37 38	6-02.3.OPT2.GB6 Bridge Supported Utilities
 39 40 41 42 43 44 45 46 47 48 49 	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.

1 2 3	6-02.3.OPT8(C).((April 6, Column	
4 5 6		ntractor shall submit Type 2E Working Drawings describing the column jacket on plan. The submittal shall include at a minimum, the following:
8 7 8	1.	Step by step installation procedure.
9 10 11	2.	The methods of cleaning and preparing the existing column surfaces prior to installing the column jacket assembly.
12 13 14	3.	The methods of containing, collecting, and disposing of the debris generated by cleaning and preparing the existing column surfaces.
15 16 17	4.	The methods of containing, collecting, and disposing of all excess grout generated during the grouting process.
18 19 20	5.	The locations of grout injection valves, and the methods and materials used to remove them following use, and to fill the void following removal.
21 22 23	6.	The method of sealing the gap between the existing column surface and the column jacket assembly prior to grouting.
24 25 26	7.	The method and materials used to clamp and brace the column jacket assembly in place during field assembly and grouting.
27 28	8.	The proposed grout mix with manufacturer's data sheets.
29 30 31	9.	The equipment used to pump the grout and monitor the grout pressure and the quantity of grout injected.
32 33 34	10.	The method, materials, and equipment used to fill grout voids within the column jacket assembly, and to finish the exposed surface flush after repair.
35 36 37	11.	The method, materials, and equipment used to field repair all damaged primer coatings, and to field apply the intermediate and finish coats of paint.
38	6-02.3.OPT8(D).(
39 40	(April 6, Column	, 2015) I Jacket Shop Drawings
41 42	The Co	ntractor shall submit column jacket shop drawings as Type 2 Working s. The shop drawings shall include, at a minimum, the following:
43	Drawing	
44 45 46	1.	Plan, elevation, and sections of the jacket system and all components, with all dimensions and tolerances.
47 48	2.	Field measurements of the existing column(s).
49 50	3.	All material designations.
51 52	4.	Location of horizontal and vertical splices.

1 2	5.	Location of spacers and method of attachment.
3	6.	Welds and welding procedures.
4 5 7 8 9 10 11	Field Me The Con as appro jackets p	B6 ber 8, 2020) easuring Existing Bridge Columns tractor shall field measure the dimensions (diameter, or width and thickness, opriate for column shape) of the existing bridge columns receiving column prior to preparing column jacket assembly shop drawings. The following shall be field measured as a minimum for each column:
12 13 14	1.	Top of footing or footing pedestal.
15 16	2.	Bottom of crossbeam.
17 18	3.	Mid-height of column.
19 20 21		tractor shall field measure the column height from top of footing or footing to bottom of crossbeam for each column.
22 23 24		tractor shall tabulate these field measured dimensions and submit them to neer along with the column jacket assembly shop drawings.
25 26 27 28 29 30 31 32	foundatic columns, requirem request f columns,	site conditions, such as traffic control requirements or deeply buried ons, create difficulties for field measuring buried portions of the bridge the Contractor may request a waiver of the pre-fabrication field measuring ents for specific columns. If the Engineer concurs with the Contractor's for a waiver of the pre-fabrication field measuring requirement for specific , and for columns identified in the Special Provisions as already designated aiver, the Contractor shall:
33 34 35	1.	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.
36 37 38 39 40 41 42	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.
43 44	3.	Submit the method, template, and equipment used to field cut the top of the column jacket assembly at installation.
45 46 47 48 49	measurir and shall	ntractor shall submit the request for a waiver of the pre-fabrication field ng requirement prior to preparing column jacket assembly shop drawings, not submit shop drawings until receiving the Engineer's confirmation of the equest and completing all field measurements still required.
50 51 52	6-02.3.OPT8(F).F (April 6, 2	

1 2 3 4 5	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\$\$ ***
6	$\psi\psi$, $\psi\psi$
7 8 9	However, the Contractor shall conform to all other requirements specified above for columns receiving a waiver of the pre-fabrication field measuring requirement.
10 11	6-02.3.OPT8(G).FB6
12	(April 6, 2015) Field Massuring for Sciemic Potrofit Components
12	Field Measuring for Seismic Retrofit Components The Contractor shall field measure dimensions of existing items and members of
13 14	Bridge No(s). *** \$\$1\$\$ *** prior to preparing shop drawings for fabricated steel
14	
	components and assemblies.
16 17	The Contractor shall field measure dimensions of the following items:
18	The Contractor shall field measure dimensions of the following items:
10 19	*** \$\$2\$\$ ***
	$\phi\phi \nabla \phi\phi$
20 21	The Contractor shall tabulate these field measured dimensions and submit them to
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22	the Engineer along with the shop drawing submittals for the corresponding steel
23 24	components and assemblies.
24 25	6-02.3.OPT8(H).GB6
25 26	(April 6, 2015)
20 27	
	Removing Portions of Existing Concrete
28	The Contractor shall remove portions of existing concrete required by the seismic
29	retrofit work in accordance with Section 2-02.3(2)A2 and as shown in the Plans.
30 31	The Contractor shall dispass of all materials removed by the demolition energians
	The Contractor shall dispose of all materials removed by the demolition operations in accordance with Section 2-02.3.
32	In accordance with Section 2-02.5.
33 34	The Contractor shall reurbon, clean, and esturate the existing concrete surfaces
34 35	The Contractor shall roughen, clean, and saturate the existing concrete surfaces bonding to the fresh concrete in accordance with Section 6-02.3(12).
36	
30 37	6-02.3.OPT8(J).GB6
38	(April 6, 2015)
39	
	Drilling Holes and Setting Steel Reinforcing Bars, and Placing Concrete
40	The Contractor shall drill holes for, and set, steel reinforcing bars into the existing
41 42	concrete as shown in the Plans in accordance with Section 6-02.3(24)C as
	supplemented in these Special Provisions.
43	
44 45	6-02.3.OPT8(K).GB6
45 46	(April 6, 2015) Installing and Tansioning High Strength Steel Bar Beinforcement
46 47	Installing and Tensioning High-Strength Steel Bar Reinforcement
47 49	The Contractor shall furnish and install high-strength steel bars as shown in the
48 40	Plans. The hole through existing concrete shall be core drilled. The concrete surface
49 50	in contact with the high-strength steel bar bearing plate shall be coated with epoxy
50	bonding agent just prior to stressing the high-strength steel bar. After stressing, the
51	high-strength steel bar shall be grouted in accordance with Section 6-02.3(26)H.
52	

1 2 3 4	6-02.3.OPT8(L).GB6 (November 20, 2023) Longitudinal Seismic Restrainers The Contractor shall submit Type 1 Working Drawings consisting of shop drawings
5 6 7	of the steel components of the longitudinal seismic restrainer assemblies in accordance with Section 6-03.3(7).
8 9 10 11	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.
12 13 14	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)A, and as follows:
15 16 17 18	 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.
19 20 21 22	 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.
23 24 25	3. The Contractor shall drill holes for the resin bonded anchors with the anchorage assembly in position as a template.
26 27 28 29	 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.
30 31 32 33 34 35	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.
36 37 38	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.
39 40 41	6-02.3.OPT8(M).GB6 (September 8, 2020) Column Jacketing
42 43 44	The steel column jacket assembly for each column shown in the Plans shall be fabricated in accordance with the shop drawings.
45 46 47 48 49	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.
50 51 52	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.

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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.

8 Field welded complete penetration groove welds of the column jacket assemblies 9 shall be inspected in accordance with Section 6-03.3(25)A. Field weld inspection 10 shall be performed by a certified welding inspector (CWI). The Contractor shall not 11 begin welding until receiving acceptance of the joint fit-up from the CWI. The CWI 12 shall randomly monitor the intermediate stages of welding. The CWI's daily reports 13 and nondestructive testing reports indicating compliance with contract requirements 14 shall be submitted as a Type 1 Working Drawing upon completion of the last column 15 jacket in the Contract.

17 The Contractor shall install external grout injection valves for use in filling the cavity 18 with grout. The valves shall be spaced such that the grout will uniformly fill the gap 19 between the jacket assembly and the column surface. The grout pump shall be 20 equipped with a pressure gauge to monitor grout pressures. The grouting equipment 21 shall be sized to enable the grout to be pumped in one continuous operation. The 22 mixer shall be capable of continuously agitating the grout. 23

24The production grout compressive strength shall be measured using four inch25diameter by eight inch cylinders, cast and cured in accordance with Section 6-2602.3(5)H. The cylinders shall attain a 7-day minimum compressive strength of 4,00027psi.

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.

- 1 2 The Contractor shall contain and collect all grout outside the column jacket assembly. 3 4 When the assembly is completely grouted to the top, the Contractor shall place 5 mortar conforming to Section 9-20.4(2) over the top of the grout at the top of the 6 assembly, and shall slope the mortar to drain. 7 8 All clamps, valves, injection ports, lifting ears, and other attachments shall be 9 removed not less than 24 hours after completing grouting operations at the column. 10 The Contractor shall fill all voids with mortar conforming to Section 9-20.4(2), and 11 shall finish them flush with the exterior surface of the column jacket assembly. The 12 Contractor shall not remove the attachments by flame cutting. 13 14 Seven calendar days after completing the grouting of a column jacket assembly, the 15 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 16 17 epoxy bonding agent into the lowest point of each void and venting at the highest 18 point. The exposed epoxy bonding agent shall be finished flush with the exterior 19 surface of the column jacket assembly. 20 21 After inspection for voids and epoxy injection of voids is complete, steel surfaces with 22 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 23 24 finish field coats of paint to all exposed steel surfaces in accordance with Section 6-25 07.3(9) and Section 6-03.3(30) as supplemented in these Special Provisions. 26 27 Backfill shall not be placed against the column jacket assembly until the finish coat 28 of paint is completely cured, based on the cure duration recommended by the paint 29 manufacturer. The Contractor shall fill and compact the excavation with native 30 backfill, except as otherwise specified in the Plans, in accordance with Section 2-31 09.3(1)E. 32 33 6-02.3.OPT8.GB6 34 Seismic Retrofit 35 36 6-02.3.OPT9.GB6 37 (January 7, 2019) 38 Polvester Concrete 39 Manufacturer's Technical Representative 40 The Contractor shall have the services of a qualified polyester concrete
- 40 The Contractor shall have the services of a qualified polyester concrete 41 manufacturer's technical representative physically present at the job site. The 42 manufacturer's technical representative shall assist the Contractor in training the 43 Contractor's personnel and providing technical assistance in preparing the header 44 blockout surface, applying primer, and mixing, placing, and curing the polyester 45 concrete.
- 46 47 Mix Design
- 48 Polyester concrete shall be composed of the following three components polyester 49 resin binder, high molecular weight methacrylate (HMWM) resin, and aggregate, in
- 50 accordance with Section 6-02.2 as supplemented in these Special Provisions.
- 51

1 The Contractor shall prepare and submit a Type 1 Working Drawing consisting of the 2 polyester concrete design mix and mixing procedure. The mix design shall include a 3 recommended initiator percentage for the expected application temperature, and the 4 recommended amount of polyester resin binder as a percentage of the dry weight of 5 aggregate. The amount of peroxide initiator used shall result in a polyester concrete 6 set time between 30 and 120 minutes during placement as determined by California 7 Test 551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay 8 and Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be 9 required as recommended by the polyester resin binder supplier.

Delivery and Storage of Materials

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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.
- 41 If the concrete or steel surfaces become contaminated, the contaminated areas shall 42 be recleaned by abrasive blasting.

44 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.
- 50 51 The concrete bridge deck surface shall be between 50F and 85F when applying the 52 prime coat.

- 2 The Contractor shall apply one coat of promoted/initiated wax-free HMWM resin to 3 the prepared concrete and steel surfaces immediately before placing the polymer 4 concrete. The promoted/initiated resin shall be worked into the concrete in a manner 5 to assure complete coverage of the area receiving polyester concrete. A one pint 6 sample of each batch of promoted/initiated HMWM resin shall be retained and submitted to the Engineer at the time of primer application.
- 9 The prime coat shall cure for 30 minutes minimum before beginning placement of 10 the polyester concrete. Placement of the polymer concrete shall not proceed until the 11 Engineer verifies that the HMWM resin was properly promoted and initiated, as 12 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

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- 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.
- 34 The polyester resin binder shall be initiated and thoroughly blended just prior to 35 mixing the aggregate and binder. The polyester concrete shall be thoroughly mixed 36 prior to placing.

Polyester Concrete Placement

- The polyester concrete shall be placed within two hours of placing the prime coat.
- 41 Polyester concrete shall be placed within 15 minutes following initiation. Polyester 42 concrete that is not placed within this time shall be discarded.
- 44 The surface temperature of the area receiving the polyester concrete shall be the 45 same as specified above for the HMWM prime coat.
- 47 The polyester concrete shall be consolidated in accordance with the manufacturer's 48 recommendations.

50 **Finished Polyester Concrete Surface**

51 The finished surface of the polyester concrete shall be smooth and uniform as to 52 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 8 pounds per square yard.

10 Curing

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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(5)G.GR6

Sampling and Testing for Temperature, Consistency, and Air Content

25 6-02.3(5)G.INST1.GR6 26

The second paragraph of Section 6-02.3(5)G is revised to read:

28 6-02.3(5)G.OPT1.2025.GR6

(November 20, 2023)

Sampling and testing will be performed before concrete placement from the first load and then randomly performed from one load for every 100 cubic yards. Concrete shall not be placed until all tests have been completed by the Engineer, 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 continue before concrete placement for each load until two successive loads meet all of the applicable acceptance requirements. After two successive tests indicate that the concrete is within specified limits, the testing frequency may decrease to one for every 100 cubic yards. Sampling shall be performed in accordance with FOP for WAQTC TM 2 and random samples shall be selected in accordance with WSDOT T 716. After the first acceptable load of concrete, up to 1/2 cubic yard may be placed from subsequent loads to be tested prior to testing for acceptance.

6-02.3(5)L.GR6

Concrete With Non-Conforming Strength

46 47 6-02.3(5)L2.GR6

Girder Lateral Stability and Stress Analysis

49 50 6-02.3(5)L2.INST1.GR6

51 The table in Item No. 4 in the first paragraph of Section 6-02.3(25)L2 is revised 52 to read:

2 3	6-02.3(5)L2.OPT1.2	November 20	0 <u>, 2023)</u>		
	(-	Condition	Stress	Location	Allowable Stress (ksi)
			Tensile	In areas without bonded reinforcement sufficient to resist the tensile force in the concrete	$\frac{0.0948\lambda}{\int_{ci}^{f'}} \leq 0.2$
		Temporary Stress at Transfer and Lifting from Casting Bed	- ensile	In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$\frac{0.24\lambda}{\int_{ci}^{\prime}}$
			Compressive	All locations (except as noted) At section extremities (i.e., flange tips) when lateral bending is explicitly considered	<u>0.7<i>f</i></u>
			Tensile	In areas with bonded reinforcement sufficient to resist the tensile force in the concrete	$\frac{1}{6.24\lambda}\sqrt{f_{ci}'}$
			Compressive	All locations (except as noted) At section extremities (i.e., flange tips) when lateral bending is explicitly considered	<u>-0.7<i>f</i></u>
		Final	Tensile	Precompressed tensile zone	-0.0-
		Stresses		Effective prestress and permanent loads	0.45<i>f</i>c
		at Service Load	Compressive	Effective prestress, permanent loads and transient (live) loads	0.60<i>f</i>/
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		Final Stresses at Fatigue Load	Compressive	Fatigue I Load Combination plus one-half effective prestress and permanent loads	-0.40<i>f</i>/-
	6-02.3(6).GR6 <i>Placing Con</i> e	crete			
	6-02.3(6)B.GR6 Placing C	oncrete in F	Foundation Se	eals	
	6-02.3(6)B.INST1.0 Section 6-		supplemented	with the following:	
	Ìf, in t not re seals footin	26, 2000) he opinion o equire seals be omitted. g, as shown	for footing co In such a cas in the Plans, a	water conditions at the ti nstruction, the Engineer se the Contractor shall lov t the elevation shown in th naft or columns shall be a	may specify that the wer and construct the Plans for the botton

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1 No adjustment will be allowed in the unit contract prices for concrete, steel 2 reinforcing bar, and excavation by reason of any increase or decrease in 3 guantities involved due to the deletion of seals. 4 5 6-02.3(6)B.OPT2.GB6 6 (June 26, 2000) 7 If, in the opinion of the Engineer, water conditions at the time of construction do 8 not require seals for construction, the Engineer may specify that the seals be 9 omitted. In such a case, the Contractor shall excavate only to the bottom of 10 footing elevation and shall construct the footing as shown in the Plans. 11 12 No adjustment will be allowed in the unit contract prices for concrete, steel 13 reinforcing bar, and excavation by reason of any increase or decrease in 14 quantities involved due to the deletion of seals. 15 16 6-02.3(9).GR6 17 Precast Concrete Panels 18 19 6-02.3(9)A.GR6 20 Shop Drawings 21 22 6-02.3(9)A.INST2.GR6 23 The list included in the third paragraph of Section 6-02.3(9)A is supplemented with 24 the following: 25 26 6-02.3(9)A.OPT6.GB6 27 (September 8, 2020) 28 7. Construction sequence and method of forming the precast prestressed 29 concrete stay-in-place panels. 30 31 Details of additional reinforcement, if any, provided at lifting and support 8. 32 locations. 33 34 9. Method and equipment used to support the precast prestressed concrete 35 stay-in-place panels during storage, transporting, and erection. 36 37 10. Method used to identify the precast prestressed concrete stay-in-place 38 panel's location for calculating its position accounting for profile grade and 39 transverse slope, and for ensuring correct placement during erection. 40 41 11. Erection sequence, including the method of lifting the panels, placing and 42 adjusting the panels to proper alignment and grade, and supporting the 43 panels during leveling and grouting operations. 44 45 12. Method for forming the grout pad on the exterior face of the prestressed 46 concrete girder flange, if an alternative method is proposed, and at the 47 interior face of the stay-in-place panel to the dimensions detailed in the 48 Plans. 49 50 6-02.3(9)E.GR6 51 Finishing 52

1 2 3	6-02.3(9)E.INST1.GR6 Section 6-02.3(9)E is supplemented with the following:				
3 4 5 6 7 8 9 10 11 12 13 14 15	6-02.3(9)E.OPT6.GB6 (September 8, 2020) The Contractor shall furnish a Class 2 surface finish, as specified in Section 6- 02.3(14)B, on all surfaces of the precast prestressed concrete stay-in-place panels, except as otherwise noted. The top surface of all panels shall be 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 apart, and oriented perpendicular to the prestressing strand. The timing and method used shall produce the required texture without displacing larger particles of aggregate. Areas of mortar buildup more than 1/4 inch above the top surface of the panel shall be removed.				
16 17	6-02.3(9)F.GR6 Tolerances				
18 19 20	6-02.3(9)F.INST1.GR6 Section 6-02.3(9)F is supplemented with the following:				
21 22	6-02.3(9)F.OPT1.GB6				
24 25					
26 27	Length (perpendicular to strands):	\pm 3/16 inch			
28 29	Width (parallel to strands):	\pm 1/4 inch			
30 31 32	Thickness:	+ 1/4, -1/8 inch			
33 34 35	Squareness (difference in diagonal lengths):	± 1/4 inch per 5 feet, ± 1/2" max.			
36 37 38	Vertical location of strand group C.G.:	\pm 1/16 inch			
39 40	Vertical location of individual strands:	\pm 1/8 inch			
41 42	Horizontal location of strands:	\pm 1/4 inch			
43 44	Strand or bar projection from ends:	\pm 1/2 inch			
45 46 47	Camber (either upward or downward) at time of placement on structure:	± 1/4 inch per ten feet			
48 49 50 51 52	Precast prestressed concrete stay-in-place panels with those specified above, or with hairline cracks visibly appa strand at the end of the panel and extending more than panel will be subject to evaluation by the Engineer for po	rent radiating from the three inches along the			

1 2 3 4 5	6-02.3(9)G.GR6 Handling and Storage							
	6-02.3(9)G.INST1.GR6 Section 6-02.3(9)G is supplemented with the following:							
6 7 9 10 11 12 13 14	6-02.3(9)G.OPT6.GB6 (September 8, 2020) Precast prestressed concrete stay-in-place panels shall be maintained in a flat and level position, without any twisting, at all times. Supports shall be oriented transverse to the prestressed strands, extend the full width of the panel, and be located in a manner to minimize elastic and time-dependent deformation of the panels.							
15 16 17 18 19 20 21 22	Unloading and reloading at a site other than the bridge site will be permitted only under the direct supervision of the Engineer. The panels shall not be stacked, unless otherwise allowed by the Engineer. If such permission is granted, the panel supports shall be in the same vertical plane and shall be of sufficient height to prevent damage to the lifting bar loops. The Contractor shall have received the Engineer's verification that the bottom panel of the stack is flat and level, without any twisting, prior to stacking additional panels. The Contractor shall not stack panels on top of adjacent girders of the structure.							
23 24								
25	Erection							
26 27 28	6-02.3(9)I.INST1.GR6 Section 6-02.3(9)I is supplemented with the following:							
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	 6-02.3(9)I.OPT6.GB6 (September 8, 2020) The precast prestressed concrete stay-in-place panels shall be at least 60 days old at the time of placing bridge deck concrete. The Contractor shall place the panels atop the prestressed girders as shown in the Plans, adjusting the leveling bolts as required to match the level of adjacent panels and accommodate camber. The grout pad shall be placed after the panels have been fully adjusted for grade and camber. The exposed portion of the grout pad forms that are intended to be left in place permanently shall be tinted to match the color of the adjacent concrete surfaces and shall be secured with an accepted adhesive or other method as accepted by the Engineer. Prior to placing the bridge deck steel reinforcing bars and concrete, the Contractor shall place a backer rod at the intersection between panels as shown in the Plans. All intersections between panels shall be sealed to prevent leakage during concrete placement. Prior to placing the cleaned of all foreign materials and saturated with water for a minimum of 4 hours before fresh concrete is placed. 							

1 2 3 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 6 7 8 9 10 11 23 14 5 16 7 8 9 10 11 23 14 5 16 7 8 9 10 11 23 14 5 16 7 8 9 10 11 23 14 5 16 7 8 9 10 11 12 13 14 15 14 12 14 11 12 11 11	-02.3(10)D.GR6 Concrete Placement, Finishing, and Texturing	
	-02.3(10)D.INST1.GR6 Section 6-02.3(10)D is supplemented with the following:	
	-02.3(10)D.OPT1.GB6 (August 4, 2008) Repairing Slab Left Exposed After Removing Existing Curb or Sidewalk The concrete exposed by the removal of the existing curb or sidewalk shall be removed to a depth of 1-inch below finished grade or to the top of the existing roadway deck steel reinforcing bars, whichever is less. The Contractor shall not remove concrete below the top of the existing steel reinforcing bars. The Contractor shall not damage the bond between the existing steel reinforcing bars and the concrete.	
	After roughening, cleaning and wetting the surface in accordance with Section 6-02.3(12), the Contractor shall place concrete over the surface to the finish grade of the adjacent concrete roadway deck using a modified Class 4000 concrete mix. The maximum aggregate size in the modified Class 4000 concrete mix shall be 3/8 inch. The finished portion of the deck shall have the same texture, slope and grade as that of the existing deck.	
23 24	-02.3(10)D.OPT2.GB6	
25 26 27 28 29 30	(August 4, 2008 Repairing Slab Left Exposed After Removing Existing Curb and Railbase After roughening and cleaning the concrete exposed by the removal of the existing curb and railbase, that portion of the exposed surface not covered by the new traffic barrier shall be coated with epoxy mortar and finished to have the same texture, slope and grade as that of the existing deck.	
31 32	-02.3(10)D.OPT3.GB6	
33	(August 3, 2015)	
 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 	Bridge Drain Risers The Contractor shall submit a Type 2 Working Drawing consisting of the method 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 cleaning the existing drain casting surfaces in contact with the drain risers. The shop drawings and weld procedures for the drain riser assemblies shall be submitted in accordance with Sections 6-03.3(7) and 6-03.3(25).	•
	The existing bridge drain grate bolt, debris from removing the nipple extrusion and cleaning the drain casting contact surfaces, and all debris in the bridge drain cavity, shall be disposed of in accordance with Section 2-02.3.	
	After cleaning the bridge drain casting contact surfaces, the Contractor shall install the spacer bars and riser bars of the bridge drain riser assembly as shown in the Plans.	
50 51 52	All exposed surfaces of the spacer bars and riser bars following installation 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.	

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2	6-02.3(10)D.OPT3(A).GB6
3	(August 4, 2008)
4	A minimum of four slotted holes, each 2 inches long and 3/4 inches high, shall
5	be provided on each bridge drain riser. The slotted holes shall be located at the
6	bottom of the riser, two on the traffic side of the assembly and one each on the
7	short ends of the assembly. Risers shall be installed to be flush with the
8	proposed roadway profile and shall maintain uniform contact with the existing
9	drain. This portion of work shall be completed prior to the installation of the
10	membrane waterproofing.
11	
12	The membrane waterproofing shall extend to the bottom of and all around the
13	bridge drain riser, except that the Contractor shall ensure that the slotted holes
14	of the bridge drain riser assembly remain open and unplugged by the membrane
15	waterproofing. Water seeping under the overlay shall be allowed to drain
16	through the slotted holes and into the bridge drains.
17	
18	After all the items of work on this project have been completed, the Contractor
19	shall clean and flush all the bridge drains.
20	
21	6-02.3(10)D.OPT5.GB6
22	(August 3, 2015)
23 24	Plugging Existing Bridge Drain
24 25	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
25 26	plugged. The submittal shall include the following:
27	plugged. The submitter shall include the following.
28	1. Material used to plug the drain outlet, and method of securing the
29	plug in position.
30	
31	2. The type of concrete material used to fill the drain cavity.
32	
33	3. The method used to remove the exposed drainpipe, if removal is
34	specified in the Plans.
35	
36	All cut, damaged, and exposed metal surfaces to remain, including the drain
37	outlet plug if metal components are used, shall be painted with two coats of paint
38	conforming to Section 9-08.1(2)F. Each coat shall have a minimum dry film
39	thickness of two mils.
40	
41	When the removal of exposed drainpipe is specified in the Plans, the Contractor
42	shall remove the embedded anchors a minimum of one inch beneath the existing
43	concrete surface. The void left by removal of the embedded anchors shall be
44	filled with mortar conforming to Section 9-20.4(2). The mortar shall match the
45 46	color of the existing concrete surface as near as practicable.
46 47	All materials removed from the bridge drains enceified in the Plane to be plyaged
47 48	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.
40 49	Shall be disposed of as specified in Section $2^{-0}2.5$.
-13	

1	6-02.3(10)D.OPT12.GB6					
2	(April 6, 2015)					
3	Core Drilled Bridge Deck Drain					
4	The Contractor shall core drill drain holes through the bridge deck of the bridges					
5	and in the locations shown in the Plans. The Contractor shall grind the concrete					
5	•					
6 7	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					
8	debris in accordance with Section 2-02.3.					
9						
10	The Contractor shall coat the surfaces of the cored holes with epoxy bonding					
11	agent, and shall set a bridge deck drain pipe sleeve in place as shown in the					
12	Plans. The Contractor shall ensure that the void between the cored hole surface					
13	and the outside of the pipe sleeve is completely filled with epoxy bonding agent.					
14	The Contractor shall take appropriate measures to prevent the epoxy bonding					
15	agent from escaping from the void and shall secure the pipe sleeve in position					
16	until the epoxy bonding agent is cured.					
17						
18	6-02.3(10)F.GR6					
19	Bridge Approach Slab Orientation and Anchors					
20	Bridge Appleden elas erientation and Allehele					
21	6-02.3(10)F.INST1.GR6					
22	Section 6-02.3(10)F is supplemented with the following:					
23						
24	6-02.3(10)F.OPT2.GB6					
25	(August 4, 2008)					
26	The pavement end of the bridge approach slab shall be constructed parallel to					
27	the pavement seat.					
28						
29	6-02.3(10)F.OPT3.FB6					
30	(August 4, 2008)					
31	The pavement end of the bridge approach slab shall be constructed parallel to					
32	the pavement seat for bridge(s) No. *** \$\$1\$\$ ***. The pavement end of the					
33	bridge approach slab shall be constructed normal to the roadway center line for					
34	bridge(s) No. *** \$\$2\$\$ ***.					
35						
36	6-02.3(13).GR6					
37	Expansion Joints					
	Expansion Joints					
38	6 02 2/42) INST4 ODC					
39	6-02.3(13).INST1.GR6					
40	Section 6-02.3(13) is supplemented with the following:					
41						
42	6-02.3(13).OPT7.GB6					
43	Expansion Joint Modification					
44						
45	6-02.3(13).OPT7(B).GB6					
46	(April 6, 2015)					
47	Expansion Joint Demolition Plan					
48	The Contractor shall submit Type 2 Working Drawings showing the method of					
49	removing the specified portions of the existing bridge expansion joints. The					
50	Working Drawings shall show the sequence of demolition and removal, the type					
51	of equipment to be used in all demolition and removal operations, and details of					

1 2 2	the methods and equipment used for containment, collection, and disposal of all debris. The Working Drawings shall show all stages of demolition.				
3 4 5	6-02.3(13).OPT7(C).GB6 (April 6, 2015)				
6 7 8	Joint Preparation and Installation Procedure The Contractor shall submit a Type 1 Working Drawing consisting of the sealant manufacturer's recommended joint preparation and installation procedure.				
9 10	6-02.3(13).O	PT7(D).F	·B6		
11		(April 6			
12		Field M	easuring Existing Bridge Expansion Joints		
13	The Contractor shall field measure the following dimensions of the existing				
14		bridge e	expansion joints of Bridge No(s). *** \$\$1\$\$ ***:		
15					
16		1.	Length along the roadway surface and the horizontal and vertical		
17			surfaces of the concrete curb.		
18		_			
19		2.	Opening width at both curb lines and at the centerline of the roadway		
20			surface.		
21		T 0			
22			ntractor shall submit a Type 1 Working Drawing consisting of the field		
23		measure	ed dimensions.		
24 25	6 02 2(12) 0		De		
25 26	6-02.3(13).O	(April 6			
20 27		• •	ing Portions of Existing Bridge Expansion Joints		
28			ntractor shall remove all concrete, expansion joint materials, overlay, dirt		
20 29			bris at the bridge expansion joints of Bridge No(s). *** \$\$1\$\$ *** within		
30			kout dimensions shown in the Plans.		
31					
32		Concret	e removal shall conform to Section 2-02.3(2)A2 and the following		
33			on on power driven tools:		
34			······································		
35		1.	Jack hammers no heavier than the nominal 30 pound class.		
36					
37		2.	Chipping hammers no heavier than the nominal 15 pound class.		
38					
39		No other	r power driven equipment shall be used to remove concrete in the vicinity		
40		of the b	oridge expansion joints. The power driven tools shall be operated at		
41		angles l	ess than 45 degrees as measured from the surface of the deck to the		
42		tool.			
43					
44			ntractor shall dispose of all materials removed from the bridge expansion		
45		joints in	accordance with Section 2-02.3.		
46					
47			ester concrete headers, or elastomeric concrete headers, the Contractor		
48			an and prepare all existing concrete surfaces bonding to the header in		
49 50	accordance with the Polyester Concrete or Elastomeric Concrete subsection,				
50 51			vely, to Section 6-02.3 as supplemented in these Special Provisions. acrete headers, the Contractor shall clean and prepare all existing		
51			note neaders, the contractor shall bean and prepare all existing		

1 2 2		concrete surfaces bonding to the header in accordance with Section 6-02.3(12)B.
$\begin{array}{c} 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ 30 \\ 31 \\ 32 \\ 34 \\ 35 \\ 36 \\ 37 \\ 38 \\ 39 \end{array}$	6-02.3(13).O	PT7(F).GB6 (April 6, 2015) Drilling Holes and Setting Steel Reinforcing Bars The Contractor shall drill holes for, and set, steel reinforcing bars into the existing concrete as shown in the Plans in accordance with Section 6-02.3(24)C as supplemented in these Special Provisions.
	6-02.3(13).O	PT7(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 <i>Polyester Concrete</i> or the <i>Elastomeric</i> <i>Concrete</i> 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).O	PT7(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).O	(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.
40 41 42 43 44		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.
45 46 47 48 49 50 51 52		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.

1 2		After the cleaned and prepared joint has received the Engineer's acceptance for					
3		joint dimensions, alignment, and preparation, the Contractor shall apply the					
4		primer, as recommended by the sealant manufacturer, to all surfaces to be in					
5	contact with the joint sealant. The primer shall dry and cure for the time pe recommended by the sealant manufacturer for the surface type.						
6	recommended by the sealant manufacturer for the surface type.						
7 8		After the primer is cured, the Contractor shall place the backer rod, and place					
9		the rapid cure silicone sealant in accordance with the joint installation procedure.					
10							
11		If the joint width at the time of installation is less than 1-inch or greater than three					
12	2 inches, the Contractor shall not proceed with the expansion joi						
13		until the installation procedure is revised as recommended by the sealant					
14		manufacturer's technical representative.					
15 16		After installing the rapid cure silicone sealant, the Contractor shall flood the joint					
17		area with water. If leakage is detected, the bridge expansion joint system shall					
18		be repaired by the Contractor, as recommended by the sealant manufacturer.					
19							
20	6-02.3(13).0						
21		(September 8, 2020)					
22		Placing Expansion Joint Sealant					
23		The Contractor shall have the services of a qualified sealant manufacturer's					
24 25		technical representative physically present at the job site to assist in assuring the proper installation of the rapid cure silicone sealant, provide technical					
26		assistance for the use of the joint sealant, train the Contractor's personnel					
27		installing the joint sealant, and to observe and inspect the installation of at least					
28		the first complete joint.					
29							
30		Prior to scarifying the concrete deck for the modified concrete overlay, the					
31		Contractor shall remove all expansion joint materials and debris from the					
32 33		existing expansion joints, and shall dispose of these materials and debris as					
33 34		specified in Section 2-02.3.					
35		Prior to placing the modified concrete overlay, the Contractor shall install a					
36		temporary form as shown in the Plans to fill the expansion joint gap. The					
37		temporary form shall preserve the expansion joint gap during the modified					
38		concrete overlay placement, and shall not damage the joint or the concrete					
39		overlay upon removal. The Contractor shall submit Type 2 Working Drawing					
40		consisting of the type of temporary form material, and the method of installation					
41 42		and removal.					
42 43		The joint sealant shall not be placed against concrete (including concrete					
43 44		overlay except for polyester concrete overlay) until at least seven days after					
45		concrete placement.					
46							
47		After placing the modified concrete overlay and rounding the corner of the					
48		overlay at the joints with a 3/8 inch radius, the Contractor shall clean the bridge					
49		expansion joints of all temporary forms, dirt, form oil, grease, and other					
50 51		deleterious material. The Contractor shall clean and prepare the entire joint					
51 52		surface receiving the joint sealant in accordance with the manufacturer's joint preparation procedure, and as recommended by the sealant manufacturer's					
52		proparation procedure, and as recommended by the sediant manufacturers					

1	technical representative, including two stage abrasive blasting surface
2	preparation and compressed air cleaning. All steel surfaces to be in contact with
3	the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint
4	receiving the sealant shall be sound, clean, dry, and frost free.
5	
6	After the cleaned and prepared joint has received the Engineer's acceptance for
7	joint dimensions, alignment, and preparation, the Contractor shall apply the
8	primer, as recommended by the sealant manufacturer, to all surfaces to be in
9	contact with the joint sealant. The primer shall dry and cure for the time period
10	recommended by the sealant manufacturer for the surface type.
11	
12	After the primer is cured, the Contractor shall place the backer rod, and place
13	the rapid cure silicone sealant in accordance with the joint installation procedure.
14	
15	If the joint width at the time of installation is less than 1-inch or greater than three
16	inches, the Contractor shall not proceed with the expansion joint modification
17	until the installation procedure is revised as recommended by the sealant
18	manufacturer's technical representative and as approved by the Engineer.
19	
20	After installing the rapid cure silicone sealant, the Contractor shall flood the joint
21	area with water. If leakage is detected, the bridge expansion joint system shall
22	be repaired by the Contractor, as recommended by the sealant manufacturer.
23	
24	6-02.3(13)C.GR6
25	Modular Expansion Joint System
26	6 02 2/42\C INST4 CD6
27	6-02.3(13)C.INST1.GR6
28	Section 6-02.3(13)C is supplemented with the following:
29 30	6-02.3(13)C.OPT1.FB6
31	(September 8, 2020)
32	Acceptable Manufacturers
33	The following manufacturers are known to have prequalified modular expansion
34	joint system details by successfully completing fatigue testing in accordance with
35	Section 6-02.3(13)C:
36	0001010 02.0(10)0.
37	1. The D.S. Brown Company
38	P.O. Box 158
39	300 E. Cherry Street
40	North Baltimore, Ohio 45872-0158
41	Tel. (419) 257-3561
42	Fax (419) 257-2200
43	www.dsbrown.com
44	
45	2. Watson Bowman ACME Corporation
46	95 Pineview Drive
47	Amherst, New York 14228-2166
48	Tel. (716) 691-7566
49	Fax (716) 691-9239
50	www.wbacorp.com
51	·
52	3. Mageba USA, LLC

1	575 Lexington Ave FI-4						
2	New York, New York 10022-6146						
3	Tel. (212) 644-3335						
4	Fax (212) 644-3339						
5	www.magebausa.com						
6	S S S S S S S S S S S S S S S S S S S						
7	Design Axle Loads and Impact Factors						
8	The vertical load range for fatigue design shall be a 32.0 kip tandem. This						
9	tandem shall be taken as two 16.0 kip axles spaced four feet apart. Only one of						
10	these tandem axles must be considered in the design, unless the joint opening						
11	exceeds four feet. The load range shall be increased by the dynamic load						
12	allowance (Impact Factor) of 75%. Load factors shall be applied in accordance						
13	with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current						
14	edition and latest interims.						
15							
16	The vertical load for strength design shall be a 50.0 kip tandem. This tandem						
17	shall be taken as two 25.0 kip axles spaced four feet apart. Only one of these						
18	tandem axles must be considered in the design, unless the joint opening						
19	exceeds four feet. This load shall be increased by the dynamic load allowance						
20	(Impact Factor) of 75%. Load factors shall be applied in accordance with Table						
21	3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and						
22	latest interims.						
23							
24	The horizontal load range for fatigue design shall be *** \$\$1\$\$ *** percent of the						
25	amplified vertical load range (LL+IM) specified above. For modular expansion						
26	joint systems installed on vertical grades in excess of five percent, the horizontal						
27	component of the amplified vertical load range (LL+IM) specified above shall be						
28	added to this horizontal load range.						
29							
30	The horizontal load for strength design shall be 20 percent of the amplified						
31	vertical load (LL+IM) specified above. For modular expansion joint systems						
32	installed on vertical grades in excess of five percent, the horizontal component						
33	of the amplified vertical load (LL+IM) specified above shall be added to this						
34	horizontal load.						
35	Fatigue Testing Laboratory						
36 37	Fatigue Testing Laboratory The following facilities are known to be capable of performing the fatigue testing						
38	specified in Section 6-02.3(13)C:						
39	specified in Section 0-02.3(13)C.						
40	1. Structural Engineering Testing Laboratory (SETL)						
41	University of Washington						
42	Seattle, WA						
43	SETL Director:						
44	Dr. Dawn Lehman: (206) 715-2108						
45	SETL Manager						
46	Vince Chaijaroen: (206) 543-7433						
47	, ()						
48	2. Bowen Laborabory						
49	Purdue University						
50	West Lafayette, IN						
51	Director of Bowen Laboratory:						
52	Dr. Amit Varma: (765) 496-3419						

1 2 3 4 5 6 7 8 9 10	 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 6-02.3(14).GR6 				
11 12	Finishing Concrete Surfaces				
12 13 14 15	6-02.3(14)C.GR6 Pigmented Sealer for Concrete Surfaces				
16 17 18	6-02.3(14)C.INST1.GR6 Section 6-02.3(14)C is supplemented with the following:				
19 20 21 22	6-02.3(14)C.OPT1.GB6 (April 6, 2009) The color of the pigmented sealer shall be Washington Gray.				
23 24 25	6-02.3(14)C.OPT2.GB6 (April 6, 2009) The color of the pigmented sealer shall be Mt. St. Helens Gray.				
26 27 28 29 30 31 32 33	6-02.3(14)C.OPT3.GB6 (April 6, 2009) The color of the pigmented sealer shall be Mt. Baker Gray.				
	6-02.3(14)C.OPT4.GB6 (April 6, 2009) The color of the pigmented sealer shall be Cascade Green.				
34 35 36 37 38	6-02.3(14)C.OPT5.FB6 (April 6, 2009) The color for the following structure feature(s) shall match the specified color(s):				
39 40 41	Structure and FeaturePigmented Sealer Color*** \$\$1\$\$ ****** \$\$2\$\$ ***				
42 43 44	6-02.3(17).GR6 Falsework and Formwork				
45 46 47	6-02.3(17)C.INST1.GR6 Section 6-02.3(17)C is supplemented with the following:				
48 49 50 51 52	6-02.3(17)C.OPT1.FB6 (October 3, 2022) Falsework opening over railroad tracks shall be approved by the Railroad Company in accordance with Section 1-07.28 and the Special Provisions. The Contractor shall notify the Railroad Company at least *** \$\$1\$\$ *** working days				

1 2	prior to erecting falsework over a track, and shall include the dimensions of the opening and the duration of the restricted clearance in the submittal.					
3 4 5	6-02.3(17)K.GR6 Concrete Forms on Steel Spans					
6		·				
7 8 9	6-02.3(17)K.INST1.GR6 The first paragraph of Section 6-02.3(17)K is revised to read as follows:					
9 10	6-02.3(17)K.OPT1.GE	36				
11		3, 2015)				
12		as otherwise specified, concrete forms on all steel structures shall be				
13		ble and shall not remain in place. Where needed, the forms shall have				
14		s for truss or girder members. Each opening shall be large enough to				
15		t least 1-1/2 inches between the concrete and steel on all sides of the				
16		ember after the forms have been removed. Unit contract prices cover all				
17		lated to these openings.				
18						
19	Perman	ent metal forms may be used to form that portion of the concrete slab				
20	inside th	ne webs of the steel box girders, subject to the following requirements:				
21						
22	1.	Metal forms shall be 18 gage minimum thickness, zinc coated, steel				
23		sheet conforming to ASTM A 653 Coating Designation G 210. All				
24		accessories shall conform to ASTM A 36 or Section 9-06.1 with a zinc				
25		coating of 2.0 ounces per square foot.				
26	0	Former all all has device a distance of the standard st				
27	2.	Forms shall be designed by the Contractor to support the plastic				
28 29		concrete, metal forms, steel reinforcing bars, and a construction live load of 60 pounds per square foot. Deflection of the metal form shall				
29 30		not exceed 1/360 of the span. Camber of the metal form shall not				
31		exceed the anticipated deflection. The working unit stress shall not				
32		exceed 0.725 of the specified yield strength of the metal form				
33		material.				
34						
35	3.	The metal forms shall provide for the full depth of the deck slab above				
36		the uppermost portions of the form. Bottom transverse steel				
37		reinforcing bars of the deck slab shall be at least 1 inch clear of the				
38		metal forms at all points. Forms or supports shall not be welded to				
39		girder flanges.				
40	4	The builded deals compare shall be placed continuously between the				
41 42	4.	The bridge deck concrete shall be placed continuously between the				
42 43		transverse construction joints shown in the Plans, except in an				
44	emergency when the Engineer authorizes an interruption in the concrete placement. In such an emergency, the Contractor shall					
45		construct a transverse joint at the bottom of a flute and shall field drill				
46		1/4 inch weep holes through the metal form at 12 inch centers along				
47		the line of the joint.				
48						
49	5.	All zinc coating on exposed metal form damaged or removed during				
50		construction shall be repaired with one coat of paint conforming to				
51	Section 9-08.1(2)B, two mils minimum dry film thickness.					
52						

1 2 3 4 5 6 7 8	6. Should the Engineer determine that inspection of the underside of the hardened slab is warranted, the Contractor shall remove at least on section of metal form in each span at no extra cost to the Contractin 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 shall revise concrete placing methods as required to produce sound concrete. All unacceptable concrete shall be removed or repaired.						
9	concrete. All unacceptable concrete shall be removed of repaired.						
10	7.	Complete lavout, details.	and a description of materials, for the				
11			hall be included in the Contractor's				
12		falsework and formwork	submittal as specified in Section 6-02.3(16).				
13							
14	8.		ade to the lump sum contract price for				
15 16		"Bridge Deck" for because of the use of the	additional quantities of materials required e permanent forms.				
17	/						
18	6-02.3(2).GR6						
19	Proportioning	Materials					
20							
21 22	6-02.3(2).INST1.GR6	is supplemented with the	following:				
22 23	Section 0-02.3(2)	is supplemented with the	Tonowing.				
23 24	6-02.3(2).OPT1.GB6						
25	(September	8, 2020)					
26		Joint Header Concrete					
27	Expansion joint header concrete shall have a minimum compressive strength of						
28	4,000 psi at 28 days. Unless the Plans or Special Provisions specify a different						
29	strength, the concrete shall achieve a minimum compressive strength of 2,500 psi based on early break cylinders prior to allowing traffic to pass across the expansion						
30		rly break cylinders prior to	allowing traffic to pass across the expansion				
31	joint.						
32 33	Type III cement conforming to Section 9-01.2(1) may be used.						
33 34							
35							
36							
37							
38	to the following specifications may be used:						
39							
40	Admixt		Specifications				
41	Accelera	ating	Section 9-23.6(4)				
42							
43	Water R	educing/Accelerating	Section 9-23.6(6)				
44 45	6 02 2(24) CP6						
45 46	6-02.3(24).GR6 Reinforcement	£					
40 47	Kennorcennenn						
48	6-02.3(24)C.GR6						
49	Placing and	Fastening					
50		J					
51 52	6-02.3(24)C.INST1.G Section 6-02	R6 2.3(24)C is supplemented v	with the following:				
			-				

1 2 3 4 5 6 7 8 9	6-02.3(24)C.OPT1.GB6 (September 8, 2020) 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.						
10 11 12 13 14 15 16 17	dama may b dama Contra	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.					
18 19	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. 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.						
20 21 22 23 24 25 26							
27 28 29	6-02.3(25)L.GR6 Handling and Storage						
30 31 32 33 34 35	6-02.3(25)L2.GR6 Girder Lateral Stability and Stress Analysis						
	6-02.3(25)L2.INST1.GR6 The table in Item No. 4 in the first paragraph of Section 6-02.3(25)L2 is revised to read:						
36 37 38	6-02.3(25)L2.OPT1.2025.GR6 (November 20, 2023)						
00	(i	Condition	Stress	Location	Allowable Stress (ksi)		
		Temporary	Tensile	In areas without bonded reinforcement sufficient to resist the tensile force in the concrete In areas with bonded	$0.0948\lambda \sqrt{f_{ci}'} \le 0.2$		
		Stress at		reinforcement sufficient to	0.04.0 [[]		

Transfer

and Lifting

from

Casting Bed

Compressive

 $0.24\lambda \sqrt{f_{ci}'}$

 $0.7f_{ci}'$

reinforcement sufficient to

resist the tensile force in

the concrete

All locations (except as noted)

At section extremities (i.e.,

flange tips) when lateral bending is explicitly considered

	Tensile	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	$0.7 f_{ci}^{\prime}$
Final	Tensile	Precompressed tensile zone	0.0
Stresses		Effective prestress and permanent loads	$0.45 f_{c}^{\prime}$
at Service Load	Compressive	Effective prestress, permanent loads and transient (live) loads	0.60 <i>f</i> [′] _c
Final Stresses at Fatigue Load	Compressive	Fatigue I Load Combination plus one-half effective prestress and permanent loads	0.40 <i>f</i> ['] _c

1 2

3

4

5

7

8

6-02.3(26).GR6

Cast-in-Place Prestressed Concrete

6 6-02.3(26).INST1.GR6

The third paragraph of Section 6-02.3(26) is revised to read as follows:

- 9 6-02.3(26).OPT1.GB6
- 10 (January 4, 2010)

11 Before tensioning, the Contractor shall remove all side forms from the girders. The 12 Contractor shall not release the falsework supporting the superstructure, and shall 13 not place construction loads and other live loads on the superstructure, until the job-14 cured 2-inch grout cubes, fabricated in accordance with WSDOT TM 813, reach a 15 minimum compressive strength of 800 psi in accordance with WSDOT FOP for 16 AASHTO T 106.

- 17
- 18 6-02.4.GR6

19 Measurement

20 21 6-02.4.INST1.GR6

22 Section 6-02.4 is supplemented with the following:

23

26 27 28

29

- 24 6-02.4.OPT1.FB6
- 25 (September 8, 2020)
 - *** \$\$1\$\$ *** contains the following approximate quantities of materials and work:

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

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 lump sum Contract price for *** \$\$3\$\$ *** even though the actual quantities required may deviate from those listed.

1	
2	6-02.4.OPT24.GB6
3	(August 6, 2012)
4	Epoxy crack sealing will be measured by the linear foot along the sealed crack at the
5	concrete surface.
6 7	6-02.4.OPT26.GB6
8	(June 26, 2000)
9	Modify bridge drain will be measured per each for each bridge drain modified.
10	
11	6-02.4.OPT27.GB6
12 13	(June 26, 2000) Plugging existing bridge drain will be measured per each for each bridge drain plugged.
14	Tugging existing bruge drain will be measured per each for each bruge drain plugged.
15	6-02.4.OPT3.FB6
16	(September 8, 2020)
17 19	"Modular Expansion Joint System" contains the following approximate quantities of materials and work:
18 19	materials and work.
20	*** \$\$1\$\$ ***
21	
22	The quantities are listed only for the convenience of the Contractor in determining the
23 24	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
25	accepted changes will be made in the applicable modular expansion joint system lump
26	sum Contract price for "Modular Expansion Joint System" even though the actual
27	quantities required may deviate from those listed.
28	6 02 4 OPT22 OP6
29 30	6-02.4.OPT32.GB6 (April 6, 2015)
31	Core drilled bridge deck drain will be measured per each for each bridge deck drain core
32	drilled and completed with a PVC pipe sleeve.
33	
34	6-02.4.OPT43.GB6
35 36	(April 6, 2015) Longitudinal seismic restrainer will be measured per each.
37	
38	6-02.4.OPT44.FB6
39	(September 8, 2020)
40	Seismic retrofit contains the following approximate quantities of materials and work:
41 42	*** \$\$1\$\$ ***
43	$\psi\psi$ i $\psi\psi$
44	The quantities are listed only for the convenience of the Contractor in determining the
45	volume of work involved and are not guaranteed to be accurate. The prospective bidders
46	shall verify these quantities before submitting a bid. No adjustments other than for
47 48	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.
40 49	
50	6-02.4.OPT45.FB6
51	(September 8, 2020)
52	Column jacketing contains the following approximate quantities of materials and work:

1 2	*** \$\$1\$\$ ***		
3			
4	The quantities are listed only for the convenience of the Contractor in determining the		
5	volume of work involved and are not guaranteed to be accurate. The prospective bidders		
6	shall verify these quantities before submitting a bid. No adjustments other than for		
7	accepted hanges will be made in the lump sum Contract price for "Column Jacketing -		
8	" even though the actual quantities required may deviate from those listed.		
9			
10	6-02.4.OPT8.FB6		
11	(September 8, 2020)		
12	Expansion joint modification contains the following approximate quantities of materials		
13	and work:		
14			
15	*** \$\$1\$\$ ***		
16			
17	The quantities are listed only for the convenience of the Contractor in determining the		
18	volume of work involved and are not guaranteed to be accurate. The prospective bidders		
19	shall verify these quantities before submitting a bid. No adjustments other than for		
20	accepted changes will be made in the lump sum Contract price for "Expansion Joint		
21	Modification" even though the actual quantities required may deviate from those		
22	listed.		
23			
24	6-02.5.GR6		
25	Payment		
26 27	6-02.5.INST3.GR6		
28	The fifth and sixth bid items under Section 6-02.5 are supplemented with the following:		
29	The man and sixar bid items under beealon 0-02.5 are supplemented with the following.		
30			
	6-02.5 INST4 GR6		
	6-02.5.INST4.GR6 Section 6-02.5 is supplemented with the following:		
31	6-02.5.INST4.GR6 Section 6-02.5 is supplemented with the following:		
31 32	Section 6-02.5 is supplemented with the following: 6-02.5.OPT20.GB6		
31 32 33	Section 6-02.5 is supplemented with the following:		
31 32 33 34	Section 6-02.5 is supplemented with the following: 6-02.5.OPT20.GB6 (April 6, 2015)		
31 32 33 34 35 36 37	 Section 6-02.5 is supplemented with the following: 6-02.5.OPT20.GB6 (April 6, 2015) The contract quantity specified for "Steel Reinf. Bar for Bridge" includes the quantity for 		
31 32 33 34 35 36 37 38	 Section 6-02.5 is supplemented with the following: 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. 		
31 32 33 34 35 36 37 38 39	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 		
31 32 33 34 35 36 37 38 39 40	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) 		
31 32 33 34 35 36 37 38 39 40 41	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. 		
31 32 33 34 35 36 37 38 39 40 41 42	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing 		
31 32 33 34 35 36 37 38 39 40 41 42 43	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ 		
31 32 33 34 35 36 37 38 39 40 41 42 43 44	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing 		
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 		
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 		
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 (April 6, 2015) 		
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 		
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 (April 6, 2015) 		
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 (April 6, 2015) "Expansion Joint Modification", lump sum. 		
$\begin{array}{c} 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 49\\ 50\\ \end{array}$	 Section 6-02.5 is supplemented with the following: 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. 6-02.5.OPT26.FB6 (August 2, 2010) "Bridge Deck", lump sum. The lump sum contract price for "Bridge Deck" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** \$\$1\$\$ ****. 6-02.5.OPT33.GB6 (April 6, 2015) "Expansion Joint Modification", lump sum. 		

1 2 3 4 5 6 7	Payment for taking and submitting cores to the Engineer for testing, as specified by the Engineer, will be 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 "Force Account Epoxy Crack Sealing Cores" in the bid proposal to become a part of the total bid by the Contractor.
8 9 10 11	6-02.5.OPT51.GB6 (June 26, 2000) "Modify Bridge Drain", per each.
12 13 14 15	6-02.5.OPT52.GB6 (June 26, 2000) "Plugging Existing Bridge Drain", per each.
16 17 18 19 20	6-02.5.OPT53.FB6 (June 26, 2000) All costs in connection with *** \$\$1\$\$ *** bridge drains as specified shall be included in the unit contract price per square yard for *** \$\$2\$\$ ***.
20 21 22 23 24	6-02.5.OPT58.GB6 (April 6, 2015) "Core Drilled Bridge Deck Drain", per each.
25 26 27 28 29	6-02.5.OPT59.FB6 (April 6, 2015) All costs in connection with constructing the core drilled bridge deck drains as specified shall be included in the ***\$\$1\$\$***.
30 31 32 33	6-02.5.OPT71.GB6 (April 6, 2015) "Longitudinal Seismic Restrainer", per each.
34 35 36 37	6-02.5.OPT72.GB6 (April 6, 2015) "Seismic Retrofit", lump sum.
38 39 40 41	6-02.5.OPT73.GB6 (April 6, 2015) "Column Jacketing", lump sum.
42 43 44 45 46 47 48 49 50	 6-02.5.OPT91.FB6 (June 26, 2000) Bridge and Structures Minor Items 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 structures minor items. All costs in connection with furnishing and installing these bridge 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\$\$ ***

1 6-02.5.OPT92.FB6

2 (June 26, 2000)

Bridge Supported Utilities

- All costs in connection with placing *** \$\$1\$\$ *** through the superstructure of *** \$\$2\$\$
 *** as shown in the Plans, including all *** \$\$3\$\$ ***, shall be included in the *** \$\$4\$\$.

- 7

3

8 6-02.5.OPT93.GB6

- 9 (June 26, 2000)
- 10 No additional compensation will be made by reason of any delay or other expense to the 11 Contractor caused by coordination with the utility company or by installing utility company
- 12 furnished items. However, any unavoidable delays to the Contractor caused by
- 13 coordination with the utility company or resulting from installing utility company furnished
- 14 items will be adjusted in accordance with Section 1-08.8.

1	6-10.GR6		
2	Concrete Barrier		
3			
4	6-10.3.GR6		
5	Construction Requirements		
6			
7	6-10.3(4).GR6		
8	Joining Precast Concrete Barrier to Cast – In – Place Barrier		
9			
10	6-10.3(5).GR6		
11	Temporary Barrier		
12			
13	6-10.3(5).INST1.GR6		
14 15	The first paragraph of Section 6-10.3(5) is revised to read:		
15 16	6-10.3(5).OPT1.GR6		
17	(February 3, 2020)		
18	For temporary barrier, the Contractor shall use precast concrete barrier type F.		
19	Temporary concrete barrier type F shall comply with Standard Plan requirements and		
20	cross-sectional dimensions, except that: (1) it may be made in other lengths than		
21	those shown in the Standard Plan, and (2) it may have permanent lifting holes no		
22	larger than 4 inches in diameter or lifting loops.		
23			
24	6-10.3(5).INST2.GR6		
25	The first sentence of Section 6-10.3(5) is revised to read:		
26 27	6-10.3(5).OPT2.2025.GR6		
28	(February 26, 2024)		
29	For temporary barrier, the Contractor may use Type F precast concrete barrier, Type		
30	2 precast concrete barrier fabricated on or before December 31, 2019, or temporary		
31	steel barrier.		
32			
33	6-10.3(6).GR6		
34	Placing Concrete Barrier		
35			
36	6-10.5.GR6		
37	Payment		
38 39	6-10.5.INST1.GR6		
39 40	Section 6-10.5 is supplemented with the following:		
40	Section 0-10.5 is supplemented with the following.		
42	6-10.5.OPT1.GR6		
43	(August 1, 2016)		
44	The following paragraph is added immediately following the bid item, "Temporary Barrier":		
45			
46	The unit contract price per linear foot for "Temporary Barrier" shall include all costs		
47	for furnishing, placing, maintaining, replacing, and cleaning barrier delineation.		
48			
49 50	6-10.5.OPT2.FB6		
50 51	(March 6, 2000) All costs in connection with constructing *** \$\$1\$\$ *** barrier shall be included in the ***		
52	\$\$2\$\$ ***.		
52	ψψζψψ ·		

1	6-11.GR6		
2	Reinforced Concrete Walls		
3			
4	6-11.1.GR6		
5	Description		
6			
7	6-11.2.GR6		
8	Materials		
9			
10	6-11.2.INST1.GR6		
11	Section 6-11.2 is supplemented with the following:		
12			
13 14	6-11.2.OPT1.2025.GR6		
14	(November 20, 2023) Sealing Band 9-04.12		
15	Welded Wire Reinforcement 9-07.7		
17	Concrete Surface Treatments 9-08.3		
18	Grout 9-20.3(2)		
19	5 20.0(2)		
20	6-11.3.GR6		
21	Construction Requirements		
22			
23	6-11.3.INST1.GR6		
24	Section 6-11.3 is replaced in its entirety with the following:		
25			
26	6-11.3.OPT1.2025.GR6		
27	(November 20, 2023)		
28	6-11.3(1) Submittals		
29	All components of reinforced concrete retaining walls, regardless of the combination of		
30	precast and cast-in-place components shall be submitted simultaneously as a		
31	comprehensive submittal.		
32			
33	The Contractor shall submit Type 2E Working Drawings consisting of shoring plans in		
34	accordance with Section 2-09.3(3)D.		
35	C 44 2/4) A Dresset Deinferred Constate Detaining Walls		
36 37	6-11.3(1)A Precast Reinforced Concrete Retaining Walls When a precast reinforced concrete retaining wall using Standard Plan D-20.10 is		
38	detailed in the Plans, the Contractor shall submit a Type 2 Working Drawing of the		
39	precast unit shop drawings in accordance with Section 6-02.3(9)A. When cast-in-		
40	place footing keys are required, the precast unit shop drawing shall also include the		
41	following:		
42			
43	 The construction method option selected from the Plans. 		
44			
45	The anticipated trench excavation wall slopes.		
46			
47	The methods for dewatering, if required.		
48			
49	4. The methods for maintaining stability of the walls prior to and during		
50	placement of the footing key concrete.		
51	E The leastion and size of black outs and sharing balance		
52	5. The location and size of block outs and closure holes.		

1			
2	6-11.3(1)B Cast-In-Place Reinforced Conc. Retaining Walls		
3	When cast-in-place reinforced concrete retaining walls are called out in the Plans,		
4	the Contractor shall submit Type 2E Working Drawings of falsework and formwork		
5	plans in accordance with Section 6-02.3(16) and Section 6-02.3(17).		
6			
	C 44 2/4) D4 Substitution of Dresset Stem Wells in Lieu of Cost In Dises		
7	6-11.3(1)B1 Substitution of Precast Stem Walls in Lieu of Cast-In-Place		
8	Stem Walls		
9	The Contractor may elect to fabricate and erect precast reinforced concrete wall		
10	stem panels in place of the cast-in-place wall stem panels.		
11			
12	If the Contractor elects to use precast wall stem panels in lieu of cast-in-place		
13	wall stem panels, Type 2E Working Drawings shall be submitted that meet the		
14	requirements of Section 6-11.3(1)A and also include the following:		
15			
16	1. Working drawings for fabrication of the precast wall stem panels,		
10			
	showing dimensions, steel reinforcing bars, joint and joint filler details,		
18	surface finish details, lifting devices with the manufacturer's		
19	recommended safe working capacity, and material Specifications.		
20			
21	Working drawings and design calculations for the erection of the		
22	precast wall stem panels showing dimensions, support points,		
23	support footing sizes, erection blockouts, member sizes, connections,		
24	and material Specifications.		
25	I		
26	3. Design calculations for the precast wall stem panels, the connection		
27	between the precast panels and the cast-in-place footing, and all		
28			
	modifications to the cast-in-place footing details as shown in the		
29	Plans.		
30			
31	 Cast-in-place submittal requirements for foundations in accordance 		
32	with Section 6-11.3(1)A.		
33			
34	6-11.3(2) Excavation and Foundation Preparation		
35	Excavation shall conform to Section 2-09.3(3), and to the limits and construction stages		
36	shown in the Plans. Foundation soils found to be unsuitable shall be removed and		
37	replaced in accordance with Section 2-09.3(1)C.		
38			
30 39	Dadding material for present reinforced concrete retaining well write chall be in		
	Bedding material for precast reinforced concrete retaining wall units shall be in		
40	accordance with the Standard Plans and Section 6-20.3(6)A.		
41			
42	6-11.3(3) Wall Construction		
43	6-11.3(3)A Precast Reinforced Concrete Wall Construction		
44	Precast reinforced concrete retaining wall units for Standard Plan D-20.10 and		
45	precast reinforced concrete wall stem panels shall conform to Section 6-02.3(9)		
46	except as modified in this Section.		
40			
	When present reinferend concrete retaining wells are called out in the Diana to be		
48	When precast reinforced concrete retaining walls are called out in the Plans to be		
49	constructed in accordance with Standard Plan D-20.10, the units shall be Class 7000		
50	concrete. Cast-in-place footing keys shall be Class 4000 when required. The precast		
51	units shall be fabricated full height and shall be fabricated in segment lengths greater		
52	than or equal to 4 feet.		

1	When the Contractor electe to use present stern penale as described in 6.11.2(1)D1
2	When the Contractor elects to use precast stem panels as described in 6-11.3(1)B1,
3	precast reinforced concrete stem panels shall be Class 4000 concrete unless
4	otherwise shown in the Plans. The precast wall stem panels shall be fabricated full
5	height and shall be fabricated in lengths of 8, 16, or 24 feet.
6	6 11 2/2) A1 Exprination Toloropoo
7	6-11.3(3)A1 Fabrication Tolerances
8	The construction tolerances for the precast reinforced concrete retaining wall
9 10	units for Standard Plan D-20.10 and the precast reinforced concrete wall stem
10	panels shall be as follows:
12	Height ±¼ inch
13	Height ±¼ inch Width ±¼ inch
14	Thickness +1/4 inch,-1/6 inch Concrete cover for steel reinforcing bar +3/6 inch,-1/6 inch
15	
16	Width of precast concrete wall stem panel joints ±¼ inch
17	Offect of present concrete well store penale
18 19	Offset of precast concrete wall stem panels <u>±1/4</u> inch
20	(Deviation from a straight line extending 5 feet on each side of the panel joint)
	When present reinferred concrete retaining wells are called out in the Plane to
21	When precast reinforced concrete retaining walls are called out in the Plans to
22	be constructed in accordance with Standard Plan D-20.10, the precast
23	reinforced concrete retaining wall shall be constructed with a joint between
24	adjacent units. The wall and footing joints shall be constructed as shown in the
25	Standard Plans. The joints shall be continuous and shall be of uniform width
26	over the entire height of the precast wall and footing.
27	When the Contractor clocks to use present store penals on departicular Costien
28	When the Contractor elects to use precast stem panels as described in Section
29	6-11.3(1)B1, precast concrete wall stem panels shall be constructed with a
30	mating shear key between adjacent panels. The shear key shall have beveled
31	corners and shall be 1 ¹ / ₂ inches in thickness. The width of the shear key shall be
32	$\frac{31}{2}$ inches minimum and $\frac{51}{2}$ inches maximum. The shear key shall be
33	continuous and shall be of uniform width over the entire height of the precast
34 25	reinforced wall stem panel.
35 36	6.11.2(2) A2 Einiching
30 37	6-11.3(3)A2 Finishing
38	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,
39 40	
40	in the Plans. Surface finishes shall conform to Section 6-02.3(14). Rolled on
41	textured finished shall not be used. If the Plans call for a form liner texture on
42	both sides of the wall, it shall be cast in a vertical position.
43	(44.2/2) A2 Exaction
44	6-11.3(3)A3 Erection
45	When precast reinforced concrete retaining walls are called out in the Plans to
46	be constructed in accordance with Standard Plan D-20.10, all joints shall be
47	constructed with sealing band installed on the rear (backfill) side of the precast
48	reinforced concrete retaining walls. When cast-in-place footing keys are
49	required, the precast reinforced concrete retaining walls shall be secured in
50	place during placement and curing of the Class 4000 cast-in-place footing key.
51	The Contractor shall ensure the concrete is fully consolidated around all headed
52	reinforcing bars that are wet inserted into the Class 4000 concrete.

1	
2	When the Contractor elects to use precast stem panels as described in Section
3	6-11.3(1)B1, the precast reinforced concrete wall stem panel shall be rigidly held
4	in place during placement and curing of the cast-in-place footing concrete. The
5	precast reinforced concrete wall stem panels shall be placed a minimum of 1
6	inch into the cast-in-place footing to provide a shear key. The base of the precast
7	
	reinforced concrete wall stem panel shall be sloped ½ inch per foot to facilitate
8	proper concrete placement. To ensure an even flow of concrete under and
9	against the base of the precast reinforced concrete wall stem panel, a form shall
10	be placed parallel to the precast reinforced concrete wall stem panel, above the
11	cast-in-place footing, to allow a minimum 1-foot head to develop in the concrete
12	during concrete placement. The steel reinforcing bars shall be shifted to clear
13	the erection blockouts in the precast reinforced concrete wall stem panel by 11/2
14	inches minimum. All joints shall be constructed with joint filler installed on the
15	rear (backfill) side of the wall. The joint filler material shall extend from 2 feet
16	below the final ground level in front of the wall to the top of the wall. The joint
17	filler shall be a nonorganic flexible material and shall be installed to create a
18	waterproof seal at panel joints. The soil bearing pressure beneath the falsework
19	supports for the precast reinforced concrete wall stem panels shall not exceed
20	the maximum design soil pressure shown in the Plans for the reinforced
21	concrete retaining wall.
22	
23	6-11.3(3)B Cast-In-Place Concrete Construction
24	Cast-in-place concrete for reinforced concrete retaining walls shall be formed,
25	reinforced, cast, cured, and finished in accordance with Section 6-02, and the details
26	shown in the Plans. All cast-in-place concrete shall be Class 4000 unless otherwise
27	shown in the Plans. Cast-in-place footings shall have a longitudinal slope no steeper
28	than 1V: 6H, unless otherwise shown in the Plans.
29	
30	The Contractor shall provide the specified exterior concrete surface finish as noted,
31	and to the limits shown in the Plans. Surface finishes shall conform to Section 6-
32	02.3(14).
33	
34	Cast-in-place concrete for adjacent wall stem sections (between vertical expansion
35	joints) shall be formed and placed separately, with a minimum 24-hour time period
36	between concrete placement operations.
37	
38	Premolded joint filler, ½ inch thick, shall be placed full height of all vertical wall stem
39	expansion joints in accordance with Section 6-01.14.
40	
41	6-11.3(4) Backfill, Weepholes, and Gutters
42	Unless the Plans specify otherwise, backfill and weepholes shall be placed in accordance
43	with the Plans and Section 6-02.3(22). Gravel backfill for drain shall be compacted in
44	accordance with Section 2-09.3(1)E. Backfill within the zone defined as Bridge Approach
44	Embankment in Section 1-01.3 shall be compacted in accordance with Method C of
45	Section 2-03.3(14)C. All other backfill shall be compacted in accordance with Method B
40	of Section 2-03.3(14)C, unless otherwise specified.
47	$\frac{1}{2} \frac{1}{2} \frac{1}$
48 49	Compart congrete gutter shall be constructed as shown in the Plane
	Cement concrete gutter shall be constructed as shown in the Plans.
50	

1	6-11.3(5) Traffic Barrier and Pedestrian Barrier		
2	When shown in the Plans, traffic barrier and pedestrian barrier shall be constructed in		
3	accordance with Section 6-02.3(11)A and Section 6-10.3(2), and the details shown in the		
4	Plans.		
5			
6	6-11.4.GR6		
7	Measurement		
8			
9	6-11.4.INST1.GR6		
10	Section 6-11.4 is replaced with the following:		
11			
12	6-11.4.OPT1.2025.GR6		
13	(November 20, 2023)		
14	Concrete Class 4000 for retaining wall will be measured as specified in Section 6-02.4.		
15			
16	Except as noted below, concrete Class 7000 for precast retaining wall will be measured		
17	as specified in Section 6-02.4.		
18			
19	Except as noted below, all reinforcing steel for retaining wall and precast retaining wall		
20	will be measured as specified in Section 6-02.4.		
21			
22	Exception: When precast retaining walls are called out in the Plans to be constructed in		
23	accordance with Standard Plan D 20.10 with footing keys, the construction of the footing		
24	keys shall be incidental to wall construction. The concrete and reinforcing steel, including		
25	dowels, for the construction of footing keys will not be measured.		
26	,		
27	Traffic barrier and pedestrian barrier will be measured as specified in Section 6-10.4 for		
28	cast-in-place concrete barrier.		
29			
30	6-11.5.GR6		
31	Payment		
32			
33	6-11.5.INST1.GR6		
34	Section 6-11.5 is replaced with the following:		
35			
36	6-11.5.OPT1.2025.GR6		
37	(November 20, 2023)		
38	Payment will be made for each of the following Bid items when they are included in the		
39	Proposal:		
40	·		
41	Structure Excavation Class A and Shoring or Extra Excavation Class A will be paid		
42	for in accordance with Section 2-09.5.		
43			
44	Traffic and Pedestrian Barrier shall be paid for in accordance with Section 6-10.5.		
45			
46	<u> "Conc. Class 4000 For Retaining Wall", per cubic yard.</u>		
47	All costs in connection with furnishing and installing PVC pipe for weep holes,		
48	premolded joint filler, grout, exterior surface finish, and pigmented sealer (when		
49	specified), shall be included in the unit Contract price per cubic yard for "Conc. Class		
50	4000 For Retaining Wall".		
51			
52	"Conc. Class 7000 For Precast Retaining Wall", per cubic yard.		

1 2	All costs in connection with furnishing and installing PVC pipe for weep holes, premolded joint filler, joint sealant, external sealing bands, weld tie assemblies,
3	footing keys, wall joints, footing joints, grout, exterior surface finish, and pigmented
4	sealer (when specified), shall be included in the unit Contract price per cubic yard for
5	"Conc. For Retaining Wall".
6	
7	<u> "St. Reinf. Bar For Retaining Wall", per pound.</u>
8	
9	"Epoxy-Coated St. Reinf. Bar For Retaining Wall", per pound.
10	
11	"St. Reinf. Bar For Precast Retaining Wall", per pound.
12	"Energy Constant Of Dainf, Dan Ean Draggert Dataining Wall", non-normal
13	"Epoxy-Coated St. Reinf. Bar For Precast Retaining Wall", per pound.
14 15	Structure Execution Class A and Sharing or Extra Execution Class A will be need
16	Structure Excavation Class A and Shoring or Extra Excavation Class A will be paid in accordance with Section 2-09.5.
10	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
18	Traffic and Pedestrian Barrier will be paid in accordance with Section 6-10.5.
10	

1 2 3	6-15.GR6 Soil Nail W	alls
4 5 6	6-15.2.GR6 Materials	
7 8 9	6-15.2.INST Section 6-15	1.GR6 5.2 is supplemented with the following:
10 11 12 13 14 15 16	Perma A soil na system	I.GB6 st 3, 2015) nent Soil Nail Materials and Components ail system is a structural system used to transfer tensile loads to soil. A soil nail may also be specified in the Plans as a nail. A soil nail system includes all steel ing bars, anchorage devices, grout, coatings, sheathings and couplers if used.
17 18 19		ntractor shall either select a soil nail system from the Qualified Products List, or a Type 2 Working Drawing consisting of the following information:
20 21 22	1.	Catalogue cuts or Manufacturer's Certificates of Compliance for centralizers and grout admixtures.
22 23 24 25 26 27	2.	Manufacturer's Certificate of Compliance for bearing plates, nuts, steel reinforcing bars, tendon encapsulation tubing, and welded shear studs. The Manufacturer's Certificate of Compliance for the nuts shall confirm compliance with the specified strength requirements.
27 28 29 30 31 32 33	(QPL), the from the specification of the specificat	ontractor selects a permanent soil nail system from the Qualified Products List the Contractor shall submit a Type 1 Working Drawing consisting of a certificate e permanent soil nail system fabricator/supplier confirming that the material ations of the permanent soil nail system components as furnished conform to becified in the QPL.
34 35 36	Bea	mponent Material Specifications aring plates shall conform to ASTM A 36, ASTM A 529, ASTM A 536, ASTM A 572, TM A 588, or AASHTO M 270.
37 38 39 40		ntralizers shall be fabricated from plastic, steel, or material which is ndetrimental to the prestressing steel. Wood shall not be used.
41 42 43 44	20.	out shall be a neat cement grout or a sand-cement grout conforming to Section 9- 3(4). The compressive strength for the grout shall be as required by the soil nail nufacturer. Grout components shall be as follows:
45 46 47 48		Admixtures shall conform to the requirements of Section 9-23.6. Expansive admixtures and accelerators will not be permitted. Admixtures shall be mixed in accordance with the manufacturer's recommendations.
49 50		Aggregates shall conform to the requirements of Section 9-03.
51 52		Cement shall conform to the requirements of Section 9-01, and shall not contain lumps or other indications of hydration.

1 2 3 4 5 6 7 8 9	Nuts shall conform to either ASTM A 563, Grade B, Hexagonal, ASTM A 536 Grade 100-70-03, ASTM A 29 Grades 12L14, 1215, or C1045, AASHTO M 169 Grades 1117 or 12L14, ASTM A 513 Type 5 Grade 1026, ASTM A 521 Class CF, ASTM A 897 Grade 125/80/10M, or ASTM A 519 Grade 1026, and shall be capable of developing 100 percent of the GUTS of the soil nail. The nuts shall be fitted, where necessary, with a special wedge washer or spherical seat such that the nut bears uniformly on the bearing plate.
10 11 12	Washers shall conform to either ASTM F 436, ASTM A 536 Grade 80-55-06 or ASTM A 47 Grade 32510.
13 14 15 16 17 18 19 20 21 22	Soil nails shall be deformed steel reinforcing bars conforming to AASHTO M 31, Grade 60 minimum, and Section 9-07.2. All soil nails, except those specified in the Plans to be encapsulated, shall be epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3. The soil nails shall be of the type and size specified in the Plans. The soil nails shall not be spliced. The soil nails shall be threaded at the bearing plate end a minimum of six inches. The threading shall be continuous spiral deformed ribbing. Alternatively, threads may be cut into the soil nail if the bar size is increased to the next larger size from the size specified in the Plans at no additional cost to the Contracting Agency.
23 24 25	Tendon encapsulation, when specified in the Plans to provide additional corrosion protection, shall be fabricated from one of the following:
26 27 28 29 30	 High density corrugated polyethylene (PE) tubing conforming to the requirements of ASTM D 3350 Class PE335520C or Class PE335400C, ASTM D 1248, and AASHTO M 252 and having a nominal wall thickness of 40 mils.
31 32 33	 Corrugated, polyvinyl chloride (PVC) tubing conforming to ASTM D 1784, Class 13464-B, and having a nominal wall thickness of 40 mils.
34 35 36 37 38	The soil nails shall be centralized within the sheathing with a minimum 0.2 inch grout cover over the soil nail inside the sheath. The encapsulation shall be constructed at the factory under controlled conditions. Field construction of the encapsulation will not be permitted.
39 40 41	Welded shear studs shall conform to Section 9-06.15, and shall be welded in accordance with Section 6-03.3(25).
42	6-15.3.GR6
43 44	Construction Requirements
45	6-15.3(8).GR6
46 47	Soil Nail Testing And Acceptance
48 49	6-15.3(8).INST1.GR6 The second sentence in the fourth paragraph of Section 6-15.3(8) is revised to read:
50 51 52	6-15.3(8).OPT1.2025.GR6 (February 13, 2024)

1 2 3	The pressure gauge shall be se upper ½ of the range of the gauge		he maximum test load within the
4	6-15.3(8)A.GR6		
5	Verification Testing		
6			
7	6-15.3(8)A.INST1.GR6		
8	Section 6-15.3(8)A is supplement	ed with the follow	ving:
9			
10	6-15.3(8)A.OPT1.FB6		
11	(April 5, 2004)		
12	Soil nail verification tests sha	all be conducted a	as follows:
13			
14	Verification	Soil Nail	Number of Successful
15	Test Limits	Row	Verification Tests Required
16			
17	***\$\$1\$\$***	***\$\$2\$\$***	***\$\$3\$\$***

1	6-16.GR6
2	Soldier Pile and Soldier Pile Tieback Walls
3	
4	6-16.3.GR6
5	Construction Requirements
6	·
7	6-16.3(3).GR6
8	Shaft Excavation
9	
10	6-16.3(3).INST1.GR6
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.
16	

1 6-17.GR6 2 Permanent Ground Anchors 3 4 6-17.1.GR6 5 Description 6 7 6-17.1.INST1.GR6 8 Section 6-17.1 is supplemented with the following: 9 10 6-17.1.OPT1.GB6 11 (January 7, 2013) 12 This work also consists of furnishing, field locating, installing, stressing and testing rock 13 bolts and rock dowels. 14 15 6-17.2.GR6 16 Materials 17 18 6-17.2.INST1.GR6 Section 6-17.2 is supplemented with the following: 19 20 21 6-17.2.OPT1.GB6 22 (November 2, 2022) 23 Permanent Ground Anchor Materials and Components 24 A permanent ground anchor system is a structural system used to transfer tensile loads 25 to soil or rock. A permanent ground anchor system may also be specified in the Plans as 26 an anchor, a ground anchor, or a tieback. A permanent ground anchor system includes 27 all prestressing steel, anchorage devices, grout, coatings, sheathings and couplers if 28 used. 29 30 The Contractor shall either select a permanent ground anchor system from the Qualified 31 Products List or submit a Type 2 Working Drawing consisting of the following information: 32 33 1. Catalogue cuts or Manufacturer's Certificates of Compliance for anchorage 34 covers, bond breaker, centralizers, corrosion inhibiting grease, end caps, grout 35 admixtures, and strand tendon spacers. 36 37 2. Manufacturer's Certificates of Compliance for anchor heads, anchor head 38 wedges, bar tendon nuts, bar tendon couplers, tendon encapsulation tubing, 39 trumpet assemblies, and bar tendons or strand tendons. The Manufacturer's 40 Certificates of Compliance for the anchorhead wedges (grippers), and bar 41 tendon nuts and couplers, shall confirm compliance with the specified strength 42 requirements. 43 44 If the Contractor selects a permanent ground anchor system from the Qualified Products 45 List (QPL), the Contractor shall submit a Type 1 Working Drawing consisting of a 46 certificate from the permanent ground anchor system fabricator/supplier confirming that

the material specifications of the permanent ground anchor system components as

48 49

47

furnished conform to those specified in the QPL.

1 2 3 4	Component Material Specifications Anchorage covers shall have a minimum thickness of 0.20 inches and shall conform to either ASTM A 53 for pipe, or ASTM A 500 for tubing, or ASTM A 36, ASTM A 529, ASTM A 572, ASTM A 588, or AASHTO M 270 for fabricated steel.
5 6 7 8 9	Anchorheads shall conform to either ASTM A 36, AASHTO M 169 Grades 1040 or 1045, ASTM A 521 Grade 1045, ASTM A 576 Grade 1045, or ASTM A 536 Grade 80-55-06.
10 11 12	Bearing plates shall conform to either ASTM A 36, ASTM A 572, ASTM A 588, AASHTO M 270, ASTM A 529, or ASTM A 536.
13 14 15	Anchorhead wedges (grippers) shall conform to AASHTO M 169 Grade 12L14, case hardened 0.012 to 0.015 inches deep to Rockwell C 59 to 65.
16 17 18	Bar tendon nuts shall conform to either ASTM A 29 Grade C1045, ASTM A 521 Class CF, AASHTO M 169 Grades 1117 or 1144, or ASTM A 536 Grade 100-70-03, and shall be capable of developing 100 percent of the GUTS of the bar tendon.
19 20 21 22	Bondbreaker shall conform to the requirements of Section 4.7 of the Post-Tensioning Institute "Recommendations for Prestressed Rock and Soil Anchors", and shall be fabricated from a smooth plastic tube or pipe having the following properties:
23 24 25 26	 Resistant to chemical attack from aggressive environments, grout or grease; Resistant to aging by ultra-violet light;
27 28 29	 Fabricated from material nondetrimental to the tendon; Capable of withstanding abrasion, impact, and bending during handling and installation;
30 31 32	 Enable the tendon to elongate during testing and stressing; and Allow the tendon to remain unbonded after lock-off.
33 34 35	Centralizers shall be fabricated from plastic, steel, or material which is nondetrimental to the prestressing steel. Wood shall not be used.
36 37 38	Corrosion inhibiting grease shall conform to the requirements of Section 3.2.5 of the Post-Tensioning Institute, "Specification For Unbonded Single Strand Tendons".
39 40 41	Couplers for bar tendons, if required, shall be furnished by the manufacturer of the bar tendons and shall be AASHTO M 169 Grades 1045, 1117 or 1144, ASTM A 519 Grade 1026, or equivalent steel developing 100 percent of the GUTS of the bar
42 43 44	tendon without evidence of any failure. Couplers shall not be placed in the bond zone. Couplers for strand tendons will not be allowed.
45 46 47	End caps shall conform to ASTM D 3350 Class PE324420C, Class PE334410C, or Class PE335400C, ASTM D 1248, and AASHTO M 252, ASTM D 1784 Class 1346B, ASTM A 653, or ASTM A 36.
48 49 50 51 52	Grout shall be a neat cement grout or a sand-cement grout conforming to Section 9-20.3(4). The compressive strength for the grout shall be as required by the tieback manufacturer. Grout components shall be as follows:

1 2 3 4 5 6	Admixtures shall conform to the requirements of Section 9-23.6. Expansive admixtures shall only be added to the grout used for filling sealed encapsulations, trumpets and anchorage covers. Accelerators will not be permitted. Admixtures shall be compatible with prestressing steels and mixed in accordance with the manufacturer's recommendations.
7 8	Aggregates shall conform to the requirements of Section 9-03.
9 10 11	Cement shall conform to the requirements of Section 9-01, and shall not contain lumps or other indications of hydration.
12 13 14 15 16 17 18 19 20	Prestressing steel shall consist of either bar tendons with an ultimate tensile strength of 150 ksi conforming to AASHTO M 275 Type II, or strand tendons with an ultimate tensile strength of 270 ksi conforming to AASHTO M 203. The Contractor shall submit Type 1 Working Drawings consisting of certified mill test results and typical stress-strain curves along with samples from each heat, properly marked, for the prestressing steel. The typical stress-strain curve shall be obtained by conventional industry standard practices. The guaranteed ultimate strength, yield strength, elongation, and composition shall be specified.
21 22	Strand tendon spacers shall be fabricated from plastic, steel, or material which is nondetrimental to the prestressing steel. Wood shall not be used.
23 24 25 26	Tendon encapsulation, when specified in the Plans to provide additional corrosion protection, shall be fabricated from one of the following:
27 28 29 30 31	 High density corrugated polyethylene (PE) tubing conforming to the requirements of ASTM D 3350 Class PE334410C, Class PE335520C or Class PE335400C, ASTM D 1248, and AASHTO M 252 and having a nominal wall thickness of 40 mils or greater.
32 33 34	 Corrugated, polyvinyl chloride (PVC) tubing conforming to ASTM D 1784, Class 13464-B, and having a nominal wall thickness of 40 mils or greater.
35 36 37 38 39 40	Trumpet providing the transition from the bearing plate to the unbonded length corrosion protection shall be fabricated from a steel pipe or tube conforming to the requirements of ASTM A 53 for pipe or ASTM A 500 for tubing. The trumpet shall have a minimum wall thickness of 0.20 inches, and shall be seal welded to the bearing plate. The seal weld shall be visually inspected only, in accordance with Section 6-03.3(25)A.
41 42 43 44 45 46 47 48 49 50 51	6-17.2.OPT2.GB6 (September 8, 2020) Rock Bolt and Rock Dowel Materials Rock bolts shall be continuously threaded steel reinforcement bars conforming to either; AASHTO M 31 Grade 60 or 75 deformed bar, ASTM 615 Grade 60 or 75 deformed bar, ASTM A 706 Grade 60 or 80 deformed bar, ASTM A 722 Grade 150 Type II, or AASHTO M 275 Grade 150 Type II and shall be capable of being post-tensioned to the design loads, performance test loads, and proof loads specified. The bending requirements of AASHTO M 31, ASTM 615, and ASTM 706 shall be waived.

1				d steel reinforcement	
2				ormed bar, ASTM A 6	
3 4				deformed bar with a mi	
				size of a No.11 bar for	5.
5 6	The ben	ang requiremen		ASTM 615, and ASTM 7	do shall be walved.
	A in a la a in	han staal fan na	ماد اممالهم متعا مامينيمام	فأسبب المعالية والمستعم المعالم	h analy anation in
7				shall be provided wit	
8				TM A 775, or ASTM A	
9				nd inert in grout selected	ed for use, shall be
10	supplied	with each shipr	nent.		
11					
12	•	•	•	ance with either AASH	
13				I conform to ASTM A 36	
14	A 572 G	rade 50. Beari	ng plate size will be r	eviewed and approved	by the Engineer in
15	accordar	nce with Section	on 6.10 of Post Tei	nsioning Institute "Re	commendations for
16	Prestres	sed Rock and \$	Soil Anchors". Bearin	g plate thickness shall	be not less than $\frac{3}{4}$
17	inch and	its dimensions	not less than 2 inches	greater than the drill h	ole diameter.
18				-	
19	Nuts and	couplers shall	be galvanized in accor	dance with either AASH	TO M 232 or ASTM
20		•	-	Minimum Ultimate Ten	
21				nd coupler shall conform	
22				e nuts shall conform to	
23			hall conform to ASTM		
24	,			/ 201	
25	Washers	shall he dalva	nized in accordance	with AASHTO M 232 of	or ASTM A 153 and
26		Ų		beveled washers sha	
27				53 and conform to AST	
28	47.				
29	47.				
	Controliz	rora aball ba fal	brighted from plantic (or motorial which is no	n datrimantal to the
30			•	or material which is no	n-detrimental to the
31	pre-stres	sing steel. wo	od shall not be used.		
32	0	- 11			
33	Grout sn	all conform to S	Section 9-20.3(2).		
34	<u>.</u>				
35				fabricated from plastic	tube or pipe having
36	the follow	ving properties:			
37					
38	1.			ggressive environment	, grout or corrosion
39		inhibiting comp	ound.		
40					
41	2.	Resistant to ag	ing by ultra-violet ligh	t.	
42		-			
43	3.	Non-detrimenta	al to bolt. Resistant	to damage caused by	abrasion, impact,
44			ending during handlin		, , , ,
45		5		9	
46	4.	Enable the bolt	t to elongate during te	stina	
47				oung.	
48	5.	Resistant to di	stortion caused by he	at generated by the cur	ing of the grout
40 49	5.			a generated by the out	ing of the grout.
49 50		thickness of all	aved bondbrooker ab	all meet the following:	
50 51				all meet the following:	
51		Tuna	Nominal	Minimum	1
		Туре	Nominal	Minimum	J

HDPE/PP	0.060 in. (1.5 mm)	0.050 in. (1.25 mm)
PVC	0.040 in. (1.0 mm)	0.035 in. (0.9 mm)

Corrosion inhibiting compounds shall be provided by the manufacturer or shall be either a grease, wax, or gel and conforms to the following:

Broportion	Test Method	Criteria		
Properties	Test Method	Grease	Wax ¹	Gel ¹
Dropping Point, °F min.	ASTM D 566	300°	N/A	N/A
Melting Point, °F min.	ASTM D 127 ⁽²⁾	N/A	145°	500°
Oil Separation @160°F, max.	FTMS 791B Method 321.2	0.5	N/A (product is liquid)	0.5
Water, % max.	ASTM D 95	0.1	0.4	0.4
Flash Point °F, min.	ASTM D 92	300°	300°	
Accelerated Corrosion Test: Salt Fog @ 100°F @ 5 mils, hrs. min.	ASTM B 117	1000	1000	1000
Water Soluble Ions,				
ppm max. a. Chloride	ASTM D 512	10	10	10
b. Sulfides	APHA 4500S ² -E	10	10	10
c. Nitrates	ASTM D 3867	10	10	10
Soak Test: Salt Fog 50/50 Immersion, hrs.	ASTM B 117 Modified	720+	720+	720+
Sheathing Compatibility @150°F				
a. Hardness % max change	ASTM D 4289	15% change	15% change	15% change
b. Volume % max change	ASTM D 4289	10% change	10% change	10% change
c. Tensile Strength % max change	ASTM D 638	30% change	30% change	30% change
Note 1: A combination o	f wax and gel is pos	sible when appro	oved by the Engin	eer.

Note 1: A combination of wax and gel is possible when approved by the Engineer. Note 2: ASTM D 566 may be used when the wax product consistency warrant it.

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Anchorage covers for rock bolts shall be galvanized in accordance with either AASHTO M 111 or ASTM F 2329 as applicable, and have a minimum thickness of 0.20 inches; and shall conform to either ASTM A 53 for pipe, or ASTM A 500 for tubing, or ASTM A 36, ASTM A 529, ASTM A 572, ASTM A 588, or AASHTO M 270 for fabricated steel.

12 13 6-17.3(8).GR6

Testing And Stressing

15 16 6-17.3(8).INST1.2025.GR6

17 The third sentence in the third paragraph of Section 6-17.3(8) is revised to read:

18

1 2 3 4 5 6 7 8 9 10 11 12	 6-17.3(8).OPT1.2025.GR6 (February 13, 2024) The pressure gauge shall be selected to place the maximum test load within the upper ½ of the range of the gauge. 6-17.3(8).INST1.GR6 Section 6-17.3(8) is supplemented with the following: 6-17.3(8).OPT1.GB6 (January 7, 2013) Rock Dowel Proof Testing At the discretion of the Engineer, up to five percent, but not less than three installed
13 14 15 16 17 18 19 20	production rock dowels as selected by the Engineer shall be proof tested. The Contractor shall conduct the proof test, and the Engineer will interpret the results. The rock dowel shall be tensioned to 25 kips for Type 1 rock dowels, with a calibrated hollow-ram hydraulic jack using a bar extension and coupler attached to the rock dowel. The test load specified for the particular type of rock dowel shall be held for ten minutes. If no loss of load occurs over the ten minute hold period, the rock dowel is acceptable.
21 22 23 24 25 26	The Engineer may require additional proof testing above the specified five percent maximum if rock dowels fail the proof testing. All failed rock dowels shall be replaced with an additional rock dowel installed in a separate hole at no additional expense to the Contracting Agency.
27 28 29 30 31 32	Upon acceptance by the Engineer, the Contractor shall permanently stamp or etch the bearing plate of or otherwise label each rock dowel with a unique number assigned by the Engineer, the installation date and the total anchor length. Rock Bolt Testing The Contractor shall conduct rock bolt testing in accordance with the requirements
33 34 35 36 37 38 39	 specified in this Section for permanent ground anchors, including testing equipment, and test load monitoring, recording and documentation. Rock Bolt Performance Testing At the Engineer's discretion, the Contractor shall conduct up to three performance tests to demonstrate the effectiveness of the construction method for each rock bolt design, and when a significant change is proposed in the
40 41 42 43 44 45 46	construction method. Rock bolts shall be tensioned to 120 percent of the design load of the rock bolt for a holding time period of not more than 60 minutes. The Contractor shall monitor the test load and shall document the results in accordance with the requirements specified in this Section.
40 47 48 49 50	The Engineer will analyze the rock bolt performance test results and determine whether the rock bolt is acceptable. A rock bolt is acceptable if both the following conditions are satisfied:

1 2 3 4	1.	The total elastic movement obtained at the maximum test load exceeds 80 percent of the theoretical elastic elongation of the stressing length.
5 6 7 8	2.	The rock bolt carries the maximum test load with a creep rate that does not exceed 0.04 inches between one and ten minutes, or 0.08 inches per log cycle of time between the six and 60 minute readings.
9 10 11 12	may r	Contractor fails to successfully achieve these testing criteria, the Engineer equire additional rock bolt performance tests to be completed at no nal expense to the Contracting Agency.
13 14 15 16	perforr	ction rock bolting shall not begin until the Contractor has completed mance testing of the design rock bolts and the test results have been ted by the Engineer.
17	Rock	Bolt Proof Testing
18		production rock bolt shall be proof tested. Proof testing shall consist of
19		ning the rock bolt to 120 percent of the design load and holding that load
20 21		minutes. If no loss of load occurs in this time period, the rock bolt is ted. If a rock bolt fails this proof test, the rock bolt shall be replaced with
22		litional rock bolt installed in a separate hole.
23		·
24		ensioning and achieving a successful rock bolt proof test, the load shall
25 26		ked off at 100 percent of the design load and the remaining portion of the
20 27		olt grouted, if appropriate. The end of the completed rock bolt shall be ed to within six inches of the rock face.
28	unnine	
29	Upon a	acceptance by the Engineer, the Contractor shall permanently stamp or
30		e bearing plate of or otherwise label each rock bolt with a unique number
31		ed by the Engineer, the installation date, the stressing load, and the total
32 33	anchoi	r length.
34	6-17.3(8)A.GR6	
35	Verificatio	n Testing
36		
37	6-17.3(8)A.INST1.G	
38 39	Section 6-1	7.3(8)A is supplemented with the following:
40	6-17.3(8)A.OPT1.GE	36
41		st 3, 2015)
42		ation tests shall be performed to verify the design of the anchor system.
43		ground anchor test results shall verify the Contractor's design and be
44 45		ted by the Engineer prior to ordering anchor material for the tieback ng walls. The tests shall be performed on sacrificial test anchors. A
46		um of two successful verification tests shall be conducted. The locations
47		be close to the anchor location of the production anchors. The test
48		ns shall be selected by the Contractor and accepted by the Engineer,
49 50		t where specific permanent ground anchor rows between specific station
50 51	IIIIIts a	are shown in the Plans.
01		

1 2	Verification test anchors shall be constructed using the same procedures and anchor geometry (drill hole diameter, bond length, unbonded length) as the
3	production anchors.
4 5 6 7 8 9	The anchor tested shall be loaded to 150 percent of the factored design load (FDL). The prestressing tendon shall be proportioned such that the maximum stress does not exceed 80 percent of the ultimate strength of the steel. The jack shall be positioned at the beginning of the test such that unloading and repositioning of the jack during the test will not be required.
10 11 12	The verification tests shall be made by incrementally loading the anchors in accordance with the following schedule.
13 14 15	AL - Anchor Alignment Load FDL - Factored Design Load
16 17	Load Hold Time
18	AL 1 Min.
19	0.25FDL 10 Min.
20	0.50FDL 10 Min.
21	0.75FDL 10 Min.
22	1.00FDL 10 Min.
23	1.15FDL 60 Min.
24	1.25FDL 10 Min.
25	1.50FDL 10 Min.
26	AL 1 Min.
27	
	The test lead shall be applied in increments of 25 percent of the fectored design
28	The test load shall be applied in increments of 25 percent of the factored design
29	load. Each load increment shall be held for at least 10 minutes. Measurement
30	of anchor movement shall be obtained at each load increment. The load-hold
31	period shall start as soon as the test load is applied and the anchor movement,
32	with respect to a fixed reference, shall be measured and recorded at 1 minute,
33	2, 3, 4, 5, 6, 10, 20, 30, 40, 50, and 60 minutes.
34	
35	The verification test will be considered successful if the anchor meets the criteria
36	for a performance tested ground anchor in Section 6-17.3(9), and in addition, a
37	pull-out failure does not occur at the 1.50FDL maximum load.
38	
39	The Engineer will give the Contractor a written order concerning ground anchor
40	construction within seven working days after completion of the verification tests.
41	This written order will either confirm the bond lengths as shown in the
42	Contractor's plans for ground anchors or reject the anchors based upon the
43	result of the verification tests.
44	
45	
46	6-17.3(8)B.GR6
47	Performance Testing
48	
49	6-17.3(8)B.INST1.GR6
50	The performance test schedule following the second paragraph of Section 6-
51	17.3(8)B is revised to read:
52	
52	

1 6-17.3(8)B.OPT1.GB6 2 (January 3, 2011) 3 Performance Test Schedule	
4 5 Load	
5 Load 6 AL	
7 0.25FDL	
8 AL 9 0.25FDL	
10 0.50FDL	
12 0.25FDL 13 0.50FDL	
14 0.75FDL	
15 AL 16 0.25FDL	
17 0.50FDL	
18 0.75FDL 19 1.00FDL	
20 AL	
21 0.25FDL 22 0.50FDL	
23 0.75FDL	
24 1.00FDL	
25 1.15FDL 26 AL	
27 Jack to lock-off load	
28 29 Where: AL - is the alignment load	
30 FDL - is the factored design load.	
31 32	
33 6-17.3(8)C.GR6	
34 Proof Testing 35	
36 6-17.3(8)C.INST1.GR6	
 The proof test schedule following the first paragraph of Section 6-17.3(8 to read: 	8)C is revised
39	
40 6-17.3(8)C.OPT1.GB6 41 (January 3, 2011)	
41 (January 3, 2011) 42 Proof Test Schedule	
43 44	
44 Load 45	
46 AL	
47 0.25FDL 48 0.50FDL	
49 0.75FDL	
50 1.00FDL 51 1.15FDL	
52 Jack to lock-off load	

1 2 3 4		Where:	AL - is the alignment load FDL - is the factored design load		
5 6	6-17.3.GR6 Construction Requirements				
7 8 9	6-17.3.INST1.GR6 Section 6-17.3 is supplemented with the following:				
10 11 12 13 14 15 16 17 18	6-17.3.OPT1.GB6 (September 8, 2020) Rock Bolt and Rock Dowel Construction Requirements Rock Bolt and Rock Dowel Installation Experience Requirements The Contractor's foreman supervising the rock bolt and rock dowel work shall have installed a minimum of 3,000 linear feet of post-tensioned rock bolts or rock dowels on a minimum of five projects within the past five years.				
19 20 21 22	minimu	The Contractor's rock bolt and rock dowel drill operators shall have installed a minimum of 1,000 linear feet of post-tensioned rock bolts or rock dowels on a minimum of three projects within the past five years.			
23 24 25 26 27	The Contractor shall submit a Type 2 Working Drawing consisting of a list documenting the rock bolt and rock dowel work experience of the foreman and drill operators working on the project. This list shall include a brief description of each project and a reference shall be included for each project listed. As a minimum, the reference shall include an individual's name and current phone number.				
28 29 30 31 32	The Co	Rock Bolt and Rock Dowel Submittals The Contractor shall submit Type 2 Working Drawings consisting of a rock bolt and rock dowel plan. The rock bolt and rock dowel plan shall include the following:			
32 33 34	1.	The propose	ed construction sequence and schedule.		
35 36	2.	The propose	ed drilling method and equipment.		
37 38	3.		ed drill hole diameter.		
39 40	4.	The minimur	n bond zone length for the rock bolts.		
41 42 43 44 45	5.	and beveled and mill ce	ed anchor steel bars, couplers, nut, bearing plate, flat washer, I washer specifications, including manufacturer's data sheets rtificates. Manufacturer's verification for the bearing plate r the specified rock bolt and rock dowel capacities.		
45 46 47 48 49 50 51 52	6.	compliance a stage grouting grout for the	ed grout mix design, including manufacturer's certificate of and the procedures for placing the grout. For rock bolts, if two- ng is used, the means for determining the level of the primary bond zone. If single-stage grouting is used, the fabrication e bondbreaker in the free-stressing length, including corrosion mpounds.		

1	7. The proposed corrosion protection for the rock bolt and rock dowel systems.
2	
3	The proposed stressing procedures and stressing equipment.
4	
5	The proposed construction method for upwardly inclined anchors.
6	
7	10. The proposed equipment for measuring and recording the volume of grout
8	injected for production rock bolts and rock dowels.
9	11. The collibration data for each load call testical, pressure rouge and mester
10	11. The calibration data for each load cell, test jack, pressure gauge and master
11 12	pressure gauge to be used in the proof testing, in accordance with the
12	calibration requirements specified in Section 6-17.3(3).
14	Rock Bolt and Rock Dowel Preconstruction Conference
15	A rock bolt and rock dowel preconstruction conference may be held at the discretion
16	of the Engineer in accordance with Section 6-17.3(4).
17	
18	Rock Bolt and Rock Dowel Storage and Handling
19	Rock bolt and rock dowel storage and handling shall conform to the Section 6-17.3(6)
20	requirements for permanent ground anchor tendons.
21	
22	Field handling procedures for epoxy-coated rock bolts and rock dowels shall conform
23	to Sections 6-02.3(24)H, including providing padding between contact points during
24	storage and lifting, and covering epoxy-coated rock bolts and rock dowels to
25	minimize ultraviolet exposure.
26	
27	Rock Bolt and Rock Dowel Grout
28	Grout shall meet the requirements of Section 9-20.3(2).
29	
30	The use of epoxy or polyester resin as bonding agents will not be allowed.
31	Deals Dalt and Deals Devuel Installation
32	Rock Bolt and Rock Dowel Installation
33 34	General Requirements The Contractor shall install rock bolts and rock dowels at the location and
35	orientation in accordance with the rock bolt and rock dowels at the location and
36	Engineer. For rock bolts, the Engineer will designate the required free-stressing
37	length. For rock dowels, the Engineer will designate the minimum length.
38	
39	The rock bolts and rock dowels shall be installed within five degrees of the
40	orientation angle specified by the Engineer. Unless otherwise specified by the
41	Engineer, the angle of installation shall be perpendicular to the rock face and
42	inclined slightly downward at the rock bolt and rock dowel location.
43	3 3
44	In all cases, at least three-quarters of the bearing plate shall be in contact with
45	the rock face. The orientation of the bearing plate against the rock surface
46	should be within twenty degrees of normal to the bar. Beveled washers shall be
47	used to accommodate all non-perpendicular installations, but should not exceed
48	twenty degrees. If the axis of the anchor is not within five degrees of
49	perpendicular to the rock surface, or within the angle provided by the beveled
50	washer up to a maximum of twenty degrees, or if the rock beneath the bearing
51	plate is not sound or is highly irregular as determined by the Engineer, a bearing
52	pad accepted by the Engineer shall be constructed so that the bar is not bent

when the nut is torqued during lock-off of the anchor. The Engineer may also require the use of over-sized bearing plates, when the rock surface is weak or highly weathered.

The use of hand drills for advancing the hole will not be allowed without the written permission of the Engineer and demonstrated effectiveness by the Contractor. The drill hole shall be sized to provide a minimum of 1/2 inches of grout cover around the rock bolt or rock dowel. The Contractor shall flush the drill hole of all drill cuttings and debris prior to installing the rock bolt or rock dowel. Holes determined by the Engineer to be unacceptable for rock bolt and rock dowel installation shall be re-drilled by the Contractor at no additional expense to the Contracting Agency.

14Rock bolts and rock dowels shall not be precut at the factory to lengths shown15in the Plans, but rather shall be delivered to the job site in bulk lengths and field16cut to the appropriate lengths. Each rock bolt and rock dowel shall be fitted with17a bearing plate, nut, and washers. Prior to placing rock bolts and rock dowels18in the drilled holes, all mill scale, flaking rust and grease shall be removed from19the rock bolt and rock dowel.

Centralizers shall be placed along the rock bolt or rock dowel at ten foot centers prior to grouting, with a minimum of one centralizer per rock bolt or rock dowel. The lowermost centralizer shall be located within 12 inches of the end of the rock bolt or rock dowel. Centralizers shall be of sufficient strength to support the weight of the anchor bar in the drilled hole and provide a minimum of 0.5 inches of grout cover.

28 The grout equipment shall produce a grout free of lumps and undispersed 29 cement. The pump shall be equipped with a pressure gauge near the discharge 30 end to monitor grout pressures. The grouting equipment shall be sized to enable 31 the grout to be pumped in one continuous operation. The grout shall be injected 32 from the lowest point of the drill hole. Sufficient grout shall be placed in the drill 33 hole to ensure full encapsulation of the rock bolt or rock dowel. The volume of 34 grout injected, and the corresponding grout injection pressure, for each 35 production rock bolt and rock dowel shall be measured using the methods and 36 equipment specified in the rock bolt and rock dowel plan. 37

The entire length of the rock bolt and rock dowel shall be corrosion-protected with grout. Bare steel from field cutting of the anchor bar and any damaged galvanizing on the bearing plates, nuts and washers shall be painted in accordance with Section 6-07.3(10)P with one coat of galvanizing repair paint conforming to Section 9-08.1(2)B.

44 Specific Rock Dowel Requirements

The Contractor shall install Type 1 rock dowels to achieve the design load specified in the Plans; if the design load is not specified in the Plans a 25 kip design load should be used. When the grout has reached final set, the Contractor shall install the bearing plate, washers and nut. The nut shall be torqued to a nominal 100 foot-pounds to ensure proper seating against the rock face. The end of the completed rock dowel shall be trimmed to within six inches of the rock face.

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1	Specific Rock Bolt Requirements
2	The Contractor shall select the type of rock bolt and construction method to be
3	used. The Contractor shall embed and install rock bolts to achieve the design
4	load specified in the Plans. The rock bolt shall be sized so that the design load
5	does not exceed 60 percent of the minimum ultimate tensile strength (MUTS) of
6	the rock bolt. In addition, the rock bolt shall be sized so that the maximum test
7	load does not exceed 80 percent of the MUTS for Grade 150 bar or 90 percent
8	of the minimum yield strength for Grade 75 bar. The end of the completed rock
9	bolt shall be trimmed to within six inches of the rock face, and fitted with a
10	galvanized steel anchorage cover filled with a corrosion-inhibiting compound.
11	
12	6-17.4.GR6
13	Measurement
14	medourement
15	6-17.4.INST1.GR6
16	Section 6-17.4 is supplemented with the following:
17	
18	6-17.4.OPT1.GB6
19	(January 4, 2010)
20	Rock bolts will be measured by the linear foot of rock bolt (unbonded plus bonded length)
21	installed, successfully proof tested, and accepted.
22	
23	Rock dowels will be measured by the linear foot of rock dowel installed and accepted.
24	
25	6-17.5.GR6
26	Payment
27	
28	6-17.5.INST1.GR6
29	Section 6-17.5 is supplemented with the following:
30	
31	6-17.5.OPT1.GB6
32	(January 4, 2010)
33	"Rock Bolt", per línear foot.
34	The unit contract price per linear foot for "Rock Bolt" shall be full pay for performing the
35	
	work as specified including all performance and proof testing and all grout injection up
36	work as specified, including all performance and proof testing, and all grout injection up to 200 percent of that calculated at each production rock bolt location
36	work as specified, including all performance and proof testing, and all grout injection up to 200 percent of that calculated at each production rock bolt location.
37	to 200 percent of that calculated at each production rock bolt location.
37 38	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot.
37 38 39	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for
37 38 39 40	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to
37 38 39	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for
37 38 39 40	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to
37 38 39 40 41	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location.
37 38 39 40 41 42 43	to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account.
37 38 39 40 41 42 43 44	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Bolt & Rock Dowel Grout Exceedance", for all grout
37 38 39 40 41 42 43 44 45	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel
37 38 39 40 41 42 43 44 45 46	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel location, will be by force account as provided in Section 1-09.6. Wasted grout will not be
37 38 39 40 41 42 43 44 45 46 47	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel
37 38 39 40 41 42 43 44 45 46 47 48	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel location, will be by force account as provided in Section 1-09.6. Wasted grout will not be measured for payment.
37 38 39 40 41 42 43 44 45 46 45 46 47 48 49	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel location, will be by force account as provided in Section 1-09.6. Wasted grout will not be measured for payment. For the purposes of providing a common proposal for all bidders, the Contracting Agency
37 38 39 40 41 42 43 44 45 46 47 48	 to 200 percent of that calculated at each production rock bolt location. "Rock Dowel Type _", per linear foot. The unit contract price per linear foot for "Rock Dowel Type _" shall be full pay for performing the work as specified, including all proof testing, and all grout injection up to 200 percent of that calculated at each production rock dowel location. "Force Account Rock Bolt & Rock Dowel Grout Exceedance", force account. Payment for "Force Account Rock Bolt & Rock Dowel Grout Exceedance", for all grout injection over 200 percent of that calculated at each production rock bolt and rock dowel location, will be by force account as provided in Section 1-09.6. Wasted grout will not be measured for payment.

1 2 3	6-18.GR6 Shotcrete Facing	
4 5 6	6-18.2.GR6 Materials	
7 8 9	6-18.2.INST1.GR6 Section 6-18.2 is supplemented with the following:	
10 11 12 13 14 15 16 17 18 19	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:	
20	1. Resistance to alkalis in accordance with ASTM D 543.	
21 22 23 24	2. Demonstrates no change in coloration after 1,000 hours of testing in accordance with ASTM D 822.	
24 25 26	3. Does not oxidize when tested in accordance with ASTM D 822.	
20 27 28 29	4. Demonstrates resistance to gasoline and mineral spirits when tested in accordance with ASTM D 543.	
30 31 32 33	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.	
34 35	6-18.2.OPT3.GB6	
36 37 38 39 40	<i>(August 3, 2015)</i> <i>Fiber Reinforcement for Shotcrete Facing</i> Fiber reinforcement for shotcrete facing shall be either steel fibers or macro synthetic fibers.	
41 42 43 44 45	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.	
46 47 48 49	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.	
50 51 52	Fiber reinforcement will be accepted based on the Manufacturer's Certificate of Compliance.	

2 6-18.SA1.2025.GR6

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4 Section 6-18 including the title is revised and replaced with the following: 5

(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.

14 6-18.2 Materials

15 Materials shall meet the requirements of the following sections:

16		
17	Cement	9-01.2(1)
18	Aggregates for Portland Cement Concrete	9-03.1
19	Premolded Joint Filler	9-04.1(2)
20	Steel Reinforcing Bar	<u>9-07.2</u>
21	Epoxy-Coated Steel Reinforcing Bar	9-07.3
22	Concrete Curing Materials and Admixtures	9-23
23	Fly Ash	9-23.9
24	Ground Granulated Blast Furnace Slag	9-23.10
25	Microsilica Fume	<u>9-23.11</u>
26	Water	9-25.1

27

28 Aggregate for shotcrete shall meet the following gradation requirements expressed as

29 percentages by weight:

30

Sieve Size	Percent Passing
0.010 0.10	U
1/2 inch	100
3/8 inch	90 to 100
No. 4	70 to 85
No. 8	50 to 70
No. 16	35 to 55
No. 30	20 to 35
No. 50	8 to 20
No. 100	2 to 10
No. 200	0 to 2.5

31

32 6-18.3 Construction Requirements

33

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34 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,
- 38 2. Planned method, equipment, means of access, joint formwork, and materials for
 39 placement, finishing and curing of each shotcrete facing specified.

1	3. A detailed construction sequence which includes order of operations and maximum
2	timing between operations (including placing, flash coating, finishing, fogging,
3	curing). The sequence will also include the anticipated crew size and production rate
4	for the work.
5	4. Documentation of the certification of each nozzle operator placing permanent
6	shotcrete facing. Nozzle operator shall be certified for the method and position
7	required by the Plans.
8	
9	The Contractor shall submit all test results as a Type 2 Working Drawing after construction of
10	all mix design panels as described in these Special Provisions. The Contractor shall give the
11	Contracting Agency ample time to review the test results.
12	Contracting Agency ample time to review the test results.
13	6-18.3(2) Preconstruction Meeting
14	
15	Prior to placing production shotcrete, the Contractor shall participate in a preconstruction
16	meeting with the Engineer. At a minimum, attendance at this meeting shall include representatives from the Contractor, shotcrete subcontractor, and shotcrete supplier.
17	
18	Discussion will include shotcrete testing and acceptance, shotcrete production testing,
19	placement and curing.
20	6-18.3(3) Shotcrete Testing
20	The Contractor shall retain a testing Laboratory to perform the tests required in these
22	provisions. Testing Laboratories' equipment shall be calibrated within 1 year prior to testing
23	and testers shall be either ACI certified or qualified in accordance with AASHTO R 18."
24	and testers shall be either nor certified of qualified in accordance with a term of the re-
25	All cylinder specimens tested under ASTM C1604 shall be constructed with a L/D ratio of 2:1
26	
27	6-18.3(3)A Mix Design Test Panel
28	
29	The Contractor shall prepare mix design test panels for each mix design in accordance
30	with ASTM C1140 and the following requirements:
31	1. The panels shall be of adequate size and thickness to complete all required
32	testing.
33	2. The nozzle operators producing the panels do not need to be the same
34	personnel who will be placing the permanent shotcrete facing.
35	
36	Prior to shotcrete placement for the mix design test panels, the Contractor shall measure
37	the air content of the freshly mixed shotcrete in accordance with WAQTC FOP for
38	AASHTO T 152.
39	
40	The Contractor shall obtain cores from the mix design test panels in accordance with
41	ASTM C1604. Core diameters shall be at least 4 inches.
42	
43	The cores shall be tested as follows and shall meet the following criteria:
44	1. Determine density in accordance with ASTM C1604.
45	2. Determine compressive strength in accordance with ASTM C1604, except that
46	the cores shall be cured per Standard Curing in a moist condition per AASHTO
47	T 23. Minimum compressive strength shall be 4000 psi at 28 days.
48	3. Determine the chloride ion content in accordance with AASHTO T 260. Chloride
49	ion content shall not exceed the limits of Section 6-02.3(2) for reinforced
50	concrete.
51	Satisfy one of the following requirements:

1	a. Determine the spacing factor and air content in accordance with ASTM			
2	C457. The maximum spacing factor shall be 0.010 inches and the minimum			
3	air content shall be 4%.			
4	b. Determine the durability factor using Method A after 300 cycles in			
5	accordance with AASHTO T161.The minimum durability factor shall be 90 percent. Test samples shall be obtained from shotcrete batches of a			
7	minimum of 3.0 cubic yards.			
8				
9	6-18.3(3)B Preproduction Testing			
10	After meeting the mix design test panels performance requirements and prior to			
11	constructing the permanent shotcrete facing, the Contractor shall schedule and perform			
12	preproduction testing.			
13				
14	Preproduction test panels shall be prepared at the project site with the same method of			
15	shotcrete installation, finishing and curing to construct the permanent shotcrete facing.			
16 17	Prior to placement in the preproduction test panels, the shotcrete shall be tested for air			
18	content in accordance with WAQTC FOP for AASHTO T 152.			
10	All nozzle operators constructing preproduction test panels shall have a current ACI			
20	shotcrete Nozzleman Certification. Each nozzle operator shall construct preproduction			
21	test panels for verification of shotcrete properties, for verification of placement methods			
22	and if specified in the Plans a test panel for surface finish. Only nozzle operators who			
23	have constructed acceptable preproduction test panels shall be allowed to place			
24	permanent shotcrete facing. When the preproduction test panels are rejected for strength,			
25	density, air entrainment or grade, a second panel may be prepared at the Contractor's			
26	option. When the second panel is rejected for strength, density, air entrainment or grade,			
27 28	the nozzle operator shall not be permitted to place permanent shotcrete facing.			
29	6-18.3(3)B1 Preproduction Test Panels for Verification of Shotcrete			
30	Properties			
31	One test panel shall be constructed for each mix design and each anticipated			
32	shooting orientation. Test panels shall be constructed per ASTM C1140. No			
33	reinforcing steel shall be included.			
34				
35	At the completion of the curing period, the Contractor shall take at least six cores			
36 37	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			
38	follows:			
39	1. Three cores shall be measured for density in accordance with ASTM			
40	C1604. Density shall be a minimum of 95% of the density reported for the			
41	mix design test panel.			
42	2. Three cores shall be measured for compressive strength in accordance with			
43	ASTM C1604, except that the cores shall be cured per Standard Curing in			
44	a moist condition per AASHTO T 23. Minimum compressive strength shall			
45	be 4000 psi at 28 days.			
46 47	 The remaining three cores not measured for compressive strength shall have the air void system assessed in accordance with ASTM C457. 			
47 48	Shotcrete shall have a maximum spacing factor of 0.010 inches and a			
40	minimum air content of 4%.			
50				
51				
51	The results of the testing shall be submitted to the Engineer as a Type 2 Working			
52	The results of the testing shall be submitted to the Engineer as a Type 2 Working Drawing.			

1	
2	6-18.3(3)B2 Preproduction Test Panels for Verification of Placement Methods
3	One preproduction test panel shall be constructed for each combination of mix
4	design, anticipated shooting orientation, and wall reinforcing layout. The test panels
5	shall be constructed per ASTM C1140. The minimum test panel size shall be 48
6	inches by 48 inches. Test panels shall be constructed to the same thickness shown
7	in the Plans and shall include the same reinforcing type, size and layout and shall
8	have the same finish as specified for the permanent shotcrete facing.
9	have the same initial as specified for the permanent shotorete facility.
10	At the completion of the curing period, the Contractor shall take three cores from
10	At the completion of the curing period, the Contractor shall take three cores from
12	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
12	•
-	cores shall be visually graded as follows:
14	Grade 1 - Shotcrete specimens are solid; there are no laminations, sandy areas
15	or voids. Small air voids with maximum diameter of 1/8 inch and maximum length
16	of 1/4 inch are normal and acceptable. Sand pockets or voids behind continuous
17	reinforcing steel are unacceptable. The surface against the form or bond plane
18	shall be sound, without sandy texture or voids.
19	Grade 2 - Shotcrete specimens shall have no more than two laminations or
20	sandy areas with dimensions not to exceed 1/8 inch thick by 1 inch long. The
21	height, width, and depth of voids shall not exceed 3/8 inch. Porous areas behind
22	reinforcing steel shall not exceed 1/2 inch in any direction except along length
23	of reinforcing steel. The surface against the form or bond plane shall be sound,
24	without sandy texture or voids.
25	Grade 3 - Shotcrete specimens shall have no more than two laminations or
26	sandy areas with dimensions exceeding 3/16 inch thick by 1-1/4 inches long, or
27	one major void, sand pocket, or lamination containing loosely bonded sand not
28	to exceed 5/8 inch thick and 1-1/4 inches in width. The surface against the form
29	or bond plane may be sandy, with voids containing overspray to a depth of 1/16
30	inch.
31	Grade 4 - Core shall meet, in general, requirements of Grade 3 cores, but may
32	have two major flaws such as described for Grade 3, or may have one flaw with
33	maximum dimension of 1 inch perpendicular to the face of the core, with
34	maximum width of 1-1/2 inches. The end of the core that was shot against the
35	form may be sandy, with voids containing overspray to a depth of 1/8 inch.
36	Grade 5 - Core that does not meet criteria of core grades 1 through 4, by being
37	of poorer quality, shall be classified as Grade 5.
38	Earth a name and shall the name is an anti-shall the name is all the second shall be it all
39	For the purpose of qualifying the nozzle operator, the panel will be acceptable if all
40	of the following are met:
41	1. The mean grade of the cores is 2.5 or less.
42	2. No core is graded at 4 or higher.
43	
44	If the mean grade of the cores exceeds 2.5, the Contractor may take three additional
45	cores and calculate a mean based on all six cores. If the mean grade of the six cores
46	is 2.5 or less, the panel will be acceptable.
47	The manufacture of a second shafe member 200 and the Physics Physics 200 and the Physics Physics 200 and the Physics P
48	The measurements, scaled photographs of the cores and grading shall be submitted
49	to the Engineer as a Type 2 Working Drawing. Cores shall be provided to the
50	Engineer upon request.
51	

1	6-18.3(3)B3 Preproduction Test Panels for Verification of Surface Finish			
2	When specified in the Plans, the Contractor shall prepare a surface finish test panel			
3	to demonstrate the ability of each concrete finisher to achieve the specified surface			
4	finish. The Engineer will determine the acceptability of the panel surface finish by			
5	comparing it against the surface finish specified in the Contract.			
6				
7	Upon approval, the surface finish test panel will serve as a reference for qualifying			
8	additional concrete finishers and as a basis for accepting the surface finish of			
9	production shotcrete work.			
10	6 19 2/2) C Dreduction Testing			
11	6-18.3(3)C Production Testing			
12 13	6 19 3/3)C1 Sampling and Tasting Frash Concrete			
14	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			
15	Section 6-02.3(5)G for temperature, consistency, and air content and will be sampled			
16	in accordance with Section 6-02.3(5)H. The Contractor shall provide curing boxes in			
17	accordance with 6-02.3(5)H.			
18				
19	The air content of the freshly mixed concrete shall be a minimum of 4%. The			
20	Contractor shall adjust the air content of the freshly mixed concrete in order to assure			
21	4% minimum air content in the hardened shotcrete.			
22				
23	6-18.3(3)C2 Production Test Panels			
24	The Contractor shall construct one unreinforced production test panel in accordance			
25	with ASTM C1140 for each day's production of shotcrete facing. The production test			
26	panel shall be constructed and cured on site using the same methods and initial			
27	curing that will be used to construct the permanent shotcrete facing. Following a			
28	seven day curing period of the production test panel, three cores shall be taken by			
29 30	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			
31	meet the following requirements:			
32	1. The cores shall be measured for density in accordance with ASTM C1604.			
33	Density shall be a minimum of 95% of the density reported for the mix			
34	design test panel.			
35	2. The cores shall be measured for 28-day compressive strength in			
36	accordance with ASTM C1604. Minimum compressive strength shall be			
37	4 ,000 psi.			
38				
39	The remainder of the panels shall remain the property of the Contractor.			
40				
41	6-18.3(4) Vacant			
42				
43	6-18.3(5) Placing Wire Reinforcement			
44	Reinforcement of the shotcrete shall be placed as shown in the Plans. The wire reinforcement			
45	shall be securely fastened to the steel reinforcing bars so that it will be 1 to 1.5 inches from			
46 47	the face of the shotcrete at all locations, unless otherwise shown in the Plans. Wire			
47	reinforcement shall be lapped 1.5 squares in all directions, unless otherwise shown in the Plans.			
40				
50	6-18.3(6) Alignment Control			
51	The Contractor shall install non-corroding alignment wires and thickness control pins to			
52	establish thickness and plane surface. The Contractor shall install alignment wires at corners			

1	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
3	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.

8 The Contractor shall not apply shotcrete when the ambient air temperature rises above 86 9 degrees Fahrenheit. The Contractor may submit a request to apply shotcrete during hot 10 weather (ambient temperatures above 86 degrees Fahreheit), but shall submit hot-weather 11 shotcreting procedures as a Type 3 Working Drawing to obtain the Engineer's approval. The 12 Working Drawing shall address any necessary means to control the temperature of the freshly 13 placed concrete, prevent drying and shrinkage cracking, and ensure evaporative moisture loss 14 is controlled.

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16 Shotcrete shall not be placed on substrates below 41 degrees Fahrenheit.

Temperature and time for placement of shotcrete shall meet the requirement of Sections 6 02.3(4)D and 6-02.3(6)A.

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39

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.

28 29 The nozzles shall be held at an angle approximately perpendicular to the working face and at 30 a distance that will keep rebound at a minimum and compaction will be maximized. Shotcrete 31 shall emerge from the nozzle in a steady uninterrupted flow. If, for any reason, the flow 32 becomes intermittent, the nozzle shall be diverted from the Work until a steady flow resumes. 33

Deficiencies observed during shotcrete application such as the following, shall constitute a
 cause for shotcrete rejection:

- 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.
- 40
 41 The Engineer will inspect the shotcrete for evidence of excessive plastic or drying shrinkage
 42 cracking, tears, sloughs or other deficiencies. Sounding or other nondestructive testing may
 43 be used to check for voids or delamination. The Engineer may also evaluate the in-place
 44 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.
- 48 49

45

46

- 50 Surface defects shall be repaired as soon as possible after initial placement of the shotcrete.
 - 51 All shotcrete which lacks uniformity; which exhibits segregation, honeycombing, or lamination;
 - 52 or which contains any dry patches, slugs, voids, or sand pockets, shall be removed and

1 replaced with fresh shotcrete by the Contractor, to the satisfaction of the Engineer at no cost 2 to the Contracting Agency.

3 4

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6

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.

7 8 9

The shotcrete shall be cured by applying a clear curing compound in accordance with Section 10 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.

11 12

13 If field inspection or testing indicates that any shotcrete produced fails to meet the 14 requirements, the Contractor shall immediately modify procedures, equipment, or system, to 15 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 16 17 the surface of the freshly placed shotcrete wet by fogging until the wet cure is applied.

18 19

6-18.3(8) Shotcrete Finishing

20 When the shotcrete facing is an interim coating to be covered by a subsequent shotcrete 21 coating or a cast-in-place concrete fascia, the Contractor shall strike off the surface of the 22 shotcrete facing with a roughened surface as specified in Section 6-02.3(12). The grooves of 23 the roughened surface shall be either vertical or horizontal.

24

25 The shotcrete face shall be finished using the alternative finish treatment shown in the Plans. 26 The alternatives are as follows:

- 27 Alternative A - After the surface has taken its initial set (crumbling slightly when cut), the 28 surface shall be broom finished to secure a uniform surface texture.
- 29 Alternative B — Shotcrete shall be applied in a thickness a fraction beyond the alignment 30 wires and forms. The shotcrete shall stiffen to the point where the surface does not pull
- 31 or crack when screeded with a rod or trowel. Excess material shall be trimmed, sliced, or 32 scraped to true lines and grade. Alignment wires shall be removed and the surface shall
- 33 receive a steel trowel finish, leaving a smooth uniform texture and color. Once the 34 shotcrete has cured, pigmented sealer shall be applied to the shotcrete face. The 35
- shotcrete surface shall be completed to within a tolerance of ½ inch of true line and grade. 36 Alternative C — Shotcrete shall be hand-sculptured, colored, and textured to simulate the 37 relief, jointing, and texture of the natural backdrop surrounding the facing. The ends and
- 38 base of the facing shall transition in appearance as appropriate to more nearly match the
- 39 color and texture of the adjoining Roadway fill slopes. This may be achieved by 40 broadcasting fine and coarse aggregates, rocks, and other native materials into the final 41 surface of the shotcrete while it is still wet, allowing sufficient embedment into the 42 shotcrete to become a permanent part of the surface.
- 43 Alternative D (Heavy Nozzle Finish) - The heavy nozzle finish shall conform to 44 Alternative B method except that after the alignment wires are removed, the surface shall 45 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. 46
- 47

48 6-18.4 Measurement

49 Shotcrete facing will be measured by the square foot surface area of the completed facing 50 measured to the neat lines of the facing as shown in the Plans.

1 6-18.5 Payment

Payment will be made for each of the following Bid items when they are included in the Proposal:

- "Shotcrete Facing", per square foot.
- 6 All costs in connection with constructing shotcrete facing as specified shall be included in
- the unit Contract price per square foot for "Shotcrete Facing".

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1 2	6-19.GR6 Shafts
2	Sharts
4	6-19.2.GR6
5	Materials
6	
7	6-19.2(9-36.2(2)).GR6
8	Shaft Slurry
9 10	Synthetic Slurry Section 9-36.2(2) is supplemented with the following:
11	Section 5-50.2(2) is supplemented with the following.
12	6-19.2(9-36.2(2)).OPT1.GB6
13	(January 2, 2012)
14	Salt water shall not be used with synthetic slurry for shafts. Fresh water only
15	shall be used.
16	
17 18	6-19.2(9-36.4).GR6
19	Access Tubes and Caps The first paragraph of Section 9-36.4 is revised to read:
20	The first paragraph of Occilon 3-30.4 is revised to read.
21	6-19.2(9-36.4).OPT1.GR6
22	(October 3, 2022)
23	Access tubes for CSL or TIP testing shall be steel pipe of 0.145 inches minimum wall
24	thickness and at least 1 ¹ / ₂ inch inside diameter, or shall be Sonitec V2 CSL Tubes
25 26	manufactured in America by Dextra. Dextra CSL tubes shall use Dextra caps and connectors.
27	
28	6-19.3(3).GR6
29	Shaft Excavation
30	
31	6-19.3(3).INST1.GR6
32 33	Section 6-19.3(3) is supplemented with the following:
33 34	6-19.3(3).OPT1.GB6
35	(January 2, 2012)
36	Variations in the bearing layer elevation from that shown in the Plans are anticipated.
37	The Contractor shall have equipment on-site capable of excavating an additional 20
38	percent of depth below that shown in the Plans.
39 40	6 10 2/2\P CP6
40 41	6-19.3(3)B.GR6 Temporary and Permanent Shaft Casing
42	Temporary and Fernanchi onali odolng
43	6-19.3(3)B.INST1.GR6
44	Section 6-19.3(3)B is supplemented with the following:
45	
46	6-19.3(3)B.OPT2.GB6
47 48	(January 2, 2012) Shaft casing shall be equipped with cutting teeth or a cutting shoe, and installed
40 49	by either rotating or oscillating the casting. Installing the casing by vibratory
50	means will not be allowed.
51	

1 2 3	6-19.3(3)B4.GR6 Temporary Telescoping Shaft Casing
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22	6-19.3(3)B4.INST1.GR6 The second paragraph of Section 6-19.3(3)B4 is revised to read as follows:
	6-19.3(3)B4.OPT1.GB6 (January 2, 2012) Temporary telescoping casing will not be allowed for bridge end pier shafts.
	6-19.3(3)I.GR6 Required Use of Slurry in Shaft Excavation
	6-19.3(3)I.INST1.GR6 Section 6-19.3(3)I is supplemented with the following:
	6-19.3(3)I.OPT1.GB6 (August 3, 2015) If the Contractor is utilizing casing that is adequately sealed into competent soils such that the water cannot enter the excavation, the Contractor may, with the Engineer's permission, continue excavation in wet soils without slurry provided the water level within the casing does not rise or exhibit flow.
23 24	6-19.3(4).GR6
25	Slurry Installation Requirements
26 27 28 29 30 31 32 33 34 35 36 37 38 30 41 42 43 44 50 51 52	6-19.3(4)A.GR6 Slurry Technical Assistance
	6-19.3(4)A.INST1.GR6 Section 6-19.3(4)A is supplemented with the following:
	6-19.3(4)A.OPT1.FB6 (January 2, 2012) The slurry manufacturer's representative shall be present during construction and completion of the first shaft excavated at the following specific shaft sites:
	*** \$\$1\$\$ ***
	6-19.3(5).GR6 Assembly and Placement of Reinforcing Steel
	6-19.3(5).INST1.GR6 Section 6-19.3(5) is supplemented with the following:
	6-19.3(5).OPT1.GB6 (August 1, 2016) For those shafts with a specified minimum penetration into the bearing layer and no specified tip elevation, the Contractor shall furnish each shaft steel reinforcing bar cage, including access tubes for non-destructive QA testing in accordance with Section 6-19.3(6), 20 percent longer than specified in the Plans. The Contractor shall add the increased length to the bottom of the cage. The Contractor shall trim the

1 2 3 4 5 6	shaft steel reinforcing bar cage to the proper length prior to placing it into the excavation. If trimming the cage is required and access tubes are attached to the cage, the Contractor shall either shift the access tubes up the cage, or cut the access tubes provided that the cut tube ends are adapted to receive the watertight cap as specified.
7 8 9	6-19.3(6).GR6 Contractor Furnished Accessories for Nondestructive QA Testing
10 11 12	6-19.3(6)E.GR6 Thermal Wire and Thermal Access Points (TAPs)
13 14 15	6-19.3(6)E.INST1.GR6 Section 6-19.3(6)E is supplemented with the following:
16 17 18 19 20	6-19.3(6)E.OPT1.GB6 (January 2, 2018) The thermal wire and associated couplers shall be obtained from the following source:
20 21 22 23 24 25 26 27	Pile Dynamics, Inc. 30724 Aurora Road Cleveland, OH 44139 (216) 831-6131 FAX: (216) 831-0916 www.pile.com
28 29	6-19.3(7).GR6 <i>Placing Concrete</i>
30 31 32	6-19.3(7)D.GR6 Requirements for Placing Concrete Underwater
33 34 35 36	6-19.3(7)D.INST1.GR6 Section 6-19.3(7)D is supplemented with the following:
37 38 39 40 41	6-19.3(7)D.OPT1.GB6 (January 2, 2012) The Contractor may use a tremie instead of a concrete pump, subject to the following conditions:
42	
43 44	 The tremie shall have a hopper at the top that empties into a watertight tube at least eight inches in diameter.
44 45 46	
44 45	watertight tube at least eight inches in diameter.2. The discharge end of the tube on the tremie shall include a device to

1 2	6-19.3(7)F.OPT1.2025.GR6
3	(February 13, 2024)
4	Crosshole sonic log testing operations specified in Section 6-19.3(9) may be
5	performed prior to preparing the shaft construction joint as specified herein.
6	performed prior to preparing the snak construction joint as specified herein.
7	6-19.4.GR6
8	Measurement
o 9	WedSurement
	6-19.4.INST2.GR6
10	
11	Section 6-19.4 is supplemented with the following:
12	
13	6-19.4.OPT3.GB6
14	(January 2, 2012)
15	Fresh water for shaft slurry will be measured in accordance with Section 2-07.4.
16	
17	6-19.5.GR6
18	Payment
19	
20	6-19.5.INST1.GR6
21	Section 6-19.5 is supplemented with the following:
22	
23	6-19.5.OPT2.GB6
24	(January 2, 2012)
24	(January 2, 2012) "Eroch Water for Shaft Slurry" per M gal

25 "Fresh Water for Shaft Slurry", per M gal.

4	
1	6-20.GR6
2 3	Buried Structures
4	6-20.1.GR6
4 5	Description
6	Description
7	6-20.1(1).GR6
8	Definitions
9	
10	6-20.1(1).INST1.GR6
11	The list of types of buried structures in Section 6-20.1(1) is supplemented with the
12	following:
13	
14	6-20.1(1).OPT1.GB6
15	(January 10, 2022)
16	Composite Arch System (CAS): A buried Structure consisting of a two-component
17	Superstructure placed on reinforced concrete foundations. The Superstructure
18	consists of fiber-reinforced polymer (FRP) composite hollow tube external
19	reinforcement/stay-in-place forms filled with expansive self-consolidating concrete
20	(ESCC), supporting custom pultruded corrugated FRP deck panels retaining the
21	structural backfill.
22 23	The Superstructure of the CAS shall be as designed and supplied by:
23 24	The Superstructure of the CAS shall be as designed and supplied by.
25	Advanced Infrastructure Technologies (AIT), LLC
26	55 Baker Boulevard
27	Brewer, ME 04412
28	(207) 573-9055
29	www.aitbridges.com
30	Ŭ
31	Fabrication shall be by the supplier or a licensed designee as designated by a Type
32	1 Working Drawing.
33	
34	6-20.2.GR6
35	Materials
36	
37	6-20.2.INST1.GR6
38 39	Section 6-20.2 is supplemented with the following:
40	6-20.2.OPT1.GB6
41	(January 10, 2022)
42	Composite Arch System
43	FRP Composite Hollow Tubes
44	Glass fibers shall be type E-glass manufactured in accordance with ASTM D578
45	Section 4.2.2 and tested in accordance with ASTM D2343.
46	
47	Carbon fibers shall be standard modulus fibers. Tensile strength, tensile modulus,
48	and strain of the fibers shall be documented in accordance with the manufacturer's
49	test specifications.
50	
51	Resin shall be epoxy vinyl ester resin with viscosity suitable for infusion. Clear
52	casting tensile strength and tensile modulus shall be tested in accordance with ASTM

1 2 3 4	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.		
5 6 7 8 9	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.		
10 11 12 13	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.		
14 15 16	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.		
17 18 19 20	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.		
21 22 23 24	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.		
25 26 27 28	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.		
29 30 31 32	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.		
32 33 34	 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: 		
35 36 37			
38 39 40 41			
42 43 44 45			
43 46 47	1. Minimum 28-day compressive strength = 6000 psi.		
48 49	2. Maximum size of coarse aggregate = 3/8-inch.		
50 51	3. Fine aggregate proportions shall be 50 ± 5 -percent of the total aggregate by volume, to be determined by trial batching as required		

1 2 3		to attain specified strength, Visual Stability Index (VSI) and flow characteristics.
3 4 5 6 7	4.	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.
7 8 9 10 11	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.
12 13 14 15	6.	Hydration stabilizer (retarder) is required to ensure sufficient water and time to begin ettringite formation of the Type K expansive cement.
16 17	7.	Minimum Cementitious Material (CM) = 850 LB./C.Y.
18 19 20 21 22 23	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.
24 25 26 27 28	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.
29 30 31	10.	The water/cementitious material ratio (W/CM) shall be between 0.40 and 0.45.
32 33	11.	Air content shall be 0-percent to 5.0-percent.
34 35 36		hall meet the following requirements in accordance with ASTM C1611 ITO T 347 and AASHTO T 351 for slump flow and visual stability index:
37 38	1.	Slump flow shall be between 24 and 30-inches
39 40	2.	Visual stability index shall be between 0 and 1.0.
40 41 42 43		al concrete mix design requirements of the supplier shall be shown in tube fabrication shop drawings.
44 45 46 47	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.	
48 49 50 51 52	visual sta additives	tch of ESCC delivered to the jobsite shall be tested for slump flow and ability index. If the ESCC fails to meet the requirements re-dosing with s is permitted. The Engineer may reject ESCC that does not meet d requirements.

1 2	6-20.3.GR6
3	Construction Requirements
4 5 6 7	6-20.3.INST1.GR6 Section 6-20.3 is supplemented with the following:
8	6-20.3.OPT1.GB6
9	(January 10, 2022)
10	Composite Arch System
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
16 17	Design Specifications, the AASHTO LRFD Guide Specifications for Design of
17 18	Concrete-Filled FRP Tubes for Flexural and Axial Members, the ASCE Pre- 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	<u>Cubmittele</u>
25 26	Submittals Submittals for CAS Superstructure and foundation shall conform to Section 6-
20	
28	20.0(2).
29	Foundation
30	The CAS foundation shall be constructed in accordance with Sections 6-20.3(5) and
31	6-20.3(6).
32	F abrication
33 34	Fabrication 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
41 42	QC/QA plan and procedures which do not contain trade secret material will be 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.
48 49	A minimum of five test specimons shall be obtained from each EPD composite
49 50	A minimum of five test specimens shall be obtained from each FRP composite hollow tube. A minimum of two specimens per tube shall be tested. If the mean
50 51	of the two tests from any one tube fails to meet or exceed the required design
52	value, then at least three more specimens from the corresponding tube shall be

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

47The finished FRP composite hollow tubes shall conform to the dimensions48set forth in the accepted Type 2 Working Drawing fabrication shop drawings49of Section 6-20.3(2). The diameter shall not vary in any one section by50more than one-percent of the dimension given in the fabrication shop51drawings. The tubes shall be checked for shape variations. No tube may52vary from the shape specified in the fabrication shop drawings, expect for

1 2 3	diameter, by more than 2-inches or one-percent of the dimension, whichever is smaller.
4 5 6 7	Composite Arch System Placement and Assembly The CAS structural components shall be erected in accordance with Section 6-20.3(8) and the following:
8 9 10 11 12	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.
12 13 14 15 16 17 18	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.
19 20 21 22 23	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.
24 25 26 27 28 29	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.
30 31 32 33 34	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.
35 36 37 38 39 40 41 42	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.
42 43 44 45 46 47 48 49 50 51	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.

1 2 3 4 5 6	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.
7 8 9 10 11 12 13 14	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.
14 15 16 17	Once the foundation has achieved 2000 psi minimum concrete compressive strength, the erected FRP composite hollow tubes shall be filled with ESCC.
18 19 20	Placing ESCC Tube Fill ESCC will be accepted as a self-consolidating concrete in accordance with Section 6-02.3(5).
21 22	ESCC shall be placed in accordance with Section 6-02.3(6) and the following:
23 24	All FRP composite hollow tubes shall be filled with ESCC under the
25	observation of the Engineer. The tubes shall be filled in one continuous
26	operation. Vibration may be necessary for shallow rise tubes and such use
27	of vibration will be determined by the Engineer. The tubes shall be filled
28	through the fill holes that are field drilled by the Contractor to the size and
29	locations shown in the fabrication shop drawings.
30	ECCC placement shall be accomplished using a method capable of
31 32	ESCC placement shall be accomplished using a method capable of
32 33	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
34	truck, a trailer pump, or a standard concrete bucket. The Contractor shall
35	have an alternative method available in the event of an equipment
36	malfunction.
37	
38	All FRP composite hollow tubes shall undergo auditory tap testing after
39	ESCC placement to ensure complete filling of tubes. In the event that voids
40	are discovered, they shall be injected with grout conforming to Section 9-
41	20.3(2) for large voids or epoxy bonding agent conforming to Section 9-26.1
42	for small voids. The maximum permitted hole size for grout injection is 3/4-
43	inch. The supplier shall be provided 72-hour minimum notice and offered
44	the opportunity to be present for the filling of the tubes and tap testing.
45	Deskfilling the Assembled Composite Areb System
46 47	Backfilling the Assembled Composite Arch System The CAS shall be backfilled in accordance with Section 6-20.3(9) and the following:
48	
49	ESCC fill in the FRP composite hollow tubes shall reach a minimum
50	compressive strength of 3000 psi prior to any backfilling or compaction activities
51	on the Structure other than headwall connection work.
52	

1 2 3	Select gravel backfill shall extend to the lines and grades shown in the Plans and shall be placed in accordance with Section 2-09.3(1)E and as follows:
3 4 5 6 7 8 9 10 11	Backfill shall be placed in maximum 6-inch lifts with each layer compacted to 95-percent of the maximum density determined by the Compaction Control Test in accordance with Section 2-03.3(14)D. Compaction within 4- feet of the Structure shall be accomplished with hand compactors only. Vibratory rollers may be used outside of this zone and above the Structure provided there is at least 24-inches of compacted cover above the Structure.
12 13	All backfill shall be carefully placed to avoid damage to the Structure.
13 14 15 16 17 18 19 20	Lightweight equipment of an operating weight less than 12-tons may be operated over the Structure provided there is at least 12-inches of cover. Construction equipment of an operating weight 12-tons or greater may be used after 24-inches of compacted backfill has been placed over the Structure. In no case may the loading exceed the AASHTO design loading HL-93 without the Engineer's written permission.
20 21 22	Backfill shall be placed in lifts such that at no time will the elevation difference exceed 24-inches between opposite sides of the Structure.
23	
24 25	6-20.3(1).GR6 Design
26 27 28	6-20.3(1).INST1.GR6 Section 6-20.3(1) is supplemented with the following:
29 30 31 32 33 34 35 36 37	6-20.3(1).OPT1.2025.GR6 (November 20, 2023) If the Geotechnical Report prepared for this Contract does not provide recommendations for the Contractor's selected foundation or wall types, the Contractor shall submit Type 3E Working Drawings consisting of a supplemental Geotechnical Report for all foundation and wall types selected which are not provided for in the recommendations.
38 39	6-20.3(1)D.GR6 Geotechnical Considerations
40 41 42 43	6-20.3(1)D.INST1.GR6 Section 6-20.3(1)D is supplemented with the following:
43 44 45 46 47 48 49 50 51	6-20.3(1)D.OPT1.2025.GR6 (November 20, 2023) If the Geotechnical Report prepared for this Contract does not provide recommendations for the Contractor's selected foundation or wall types, the Contractor shall submit Type 3E Working Drawings consisting of a supplemental Geotechnical Report for all foundation and wall types selected which are not provided for in the recommendations.

- 1 6-20.5.GR6
- 2 Payment
- 3 4
- 6-20.5.INST1.GR6
- Section 6-20.5 is supplemented with the following:
- 5 6 7
- 6-20.5.OPT1.GB6
- 8 (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. 9
- 10

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1	6-21.SA1.2025.GR6	
2	Modified Concrete Overlay – Microsilica or Fly Ash	
3	Section 6-21 is supplemented with the following new Section in	mediately before Section 6-
4	21.2(1):	
5		
6	(February 13, 2024)	
7	6-21.2 Materials	
8	Materials shall meet the requirements of the following sections:	
9		
10		
11	High Molecular Weight Methacrylate	
12	(HMWM) Resin for Crack and Cold Joint Sealing	6-21.2(3)
13	Sand for Abrasive Finish of Cracks and Cold Joints	6-21.2(3)
14	Portland Cement	9-01.2(1)
15	Blended Hydraulic Cement	<u> 9-01.2(1)</u> ₿
16	Fine Aggregate	<u> </u>
17	Coarse Aggregate	<u> </u>
18	Mortar	<u> </u>
19	Burlap Cloth	9-23.5
20	Admixtures	9-23.6
21	Fly Ash	<u> </u>
22	Microsilica Fume	<u> </u>
23	Water for Concrete	<u>9-25.1</u>

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1	<u>6-23 POLYESTER CONCRETE OVERLAY</u> (September 3, 2024)
3 4 5 6	<u>6-23.1 Description</u> <u>This Work consists of installing polyester concrete bridge deck overlays, preparing the surface of the concrete bridge deck, removing and replacing unsound concrete (deck repair), surveying, and other Work.</u>
7 8 9 10 11	6-23.1(1) Definitions Existing Bridge Deck Surface - The surface of the existing concrete bridge deck. It follows wheel ruts and other anomalies.
12 13 14 15 16	Polyester Concrete Overlay System - All component materials used to complete the system, including the polyester concrete (which is composed of polyester concrete binder and aggregate), primer, initiators, promoters, catalysts, accelerators, inhibitors, sand for abrasive finish, and crack sealing resin. All component materials of the polyester concrete system shall be provided through a single System Provider.
17 18 19 20 21	System Provider – The single corporate entity that provides the Polyester Concrete Overlay System that will be installed on this Contract. There shall be only one System Provider.
22 23 24 25 26	 System Provider Technical Representative - A duly authorized agent of the System Provider, who has the requisite skills and experience. 6-23.1(2) Qualifications The following shall have the minimum experience as described.
27 28 29 30 31 32 33 34 35	6-23.1(2)A System Provider The proposed System Provider shall have had direct control and responsibility for the proposed polyester concrete overlay system for the qualifying projects for the overlay system. Qualifying Projects - The Polyester Concrete Overlay System shall have been successfully placed on three overlay projects of similar size and scope to the proposed installation within the past ten years. Previously installed overlay must be in service for a minimum of two years showing no signs of installation deficiency, major distress, excessive wear, non-reflective in-service cracks, insufficient skid
36 37 38 39 40 41 42 43 44	resistance, or delamination. 6-23.1(2)B System Provider Technical Representative The System Provider Technical Representative shall have a minimum of two years of experience with the exact polyester concrete overlay system to be used on this Contract and be completely competent in all aspects of the Work. The Technical Representative shall have experience on a minimum of three successful projects of similar size and scope to the proposed installation. Thin polymer (broadcast) overlay experience will not be accepted.
45 46 47 48 49 50	6-23.1(2)C Polyester Concrete Placement Contractor and Workers The Contractor that performs the work of placing the polyester concrete system shall have experience on three projects within the past two years placing polyester concrete overlays using equipment as specified herein. Thin polymer (broadcast) overlay experience will not be accepted.

1				
2	The following employees shall also meet these qualifications:			
3				
4	1. One on-site supervisor.			
5 6	2 One velumetrie mixer energter			
7	2. One volumetric mixer operator.			
8	3. One finishing machine operator.			
9				
10	6-23.2 Materials			
11	Materials shall meet the requirements of the following sections:			
12	Materiale on an most the requirements of the following coolone.			
13	Polyester Concrete Binder 6-23			
14	Primer 6-23			
15	Aggregate for Polyester Concrete 6-23			
16	Sand for Abrasive Finish 6-23			
17	Crack Sealing Materials 6-23			
18	Portland Cement 9-01.2(1)			
19	Blended Hydraulic Cement 9-01.2(1)B			
20	Fine Aggregate 9-03.1			
21	Coarse Aggregate 9-03.1			
22	Admixtures 9-23.6			
23	Water for Concrete 9-25.1			
24				
25	6-23.2(1) Polyester Concrete System			
26	All components of the polyester concrete system shall be provided by the System			
27	Provider.			
28				
29	1. Manufacturer's Certificates of Compliance - The Contractor shall submit a			
30	separate Manufacturer's Certificate of Compliance meeting the requirements of			
31 32	Section 1-06.3 for each of the following components of the polyester concrete			
33	system: primer, polyester concrete binder, polyester concrete aggregates, polyester concrete, and sand for abrasive finish. Each Manufacturer's Certificate			
33 34	of Compliance shall identify the applicable lot(s) by lot number.			
35	or compliance shall identify the applicable lot(s) by lot humber.			
36	2. Certified Test Results - Each Manufacturer's Certificate of Compliance shall be			
37	accompanied by certified test reports from independent labs for all the properties			
38	described in Sections 6-23.2(1)A, B, C, D, and E of this Special Provision, which			
39	are associated with each component. Each certified test report shall identify the			
40	lot(s) represented by the test report by lot number.			
41				
42	3. Sampling - The Contracting Agency reserves the right to obtain and test samples			
43	of components of the polyester concrete overlay system. This includes requiring			
44	submittal of samples prior to the first installation or on-site sampling during			
45	construction.			
46				
47	<u>6-23.2(1)A Primer</u>			
48	Primer for the substrate concrete surface shall be a wax-free low odor, high molecular			
49	weight methacrylate primer, and consist of a resin, initiator, and promoter. The primer			
50	shall conform to the following requirements:			
51				

Resin			
Property	Requirement	Test Method	
<u>Viscosity</u>	25 cps maximum (Brookfield RVT with UL adapter, 50 RPM at 77°F)	<u>ASTM D2196</u>	
Volatile Content	<u>30% maximum</u>	ASTM D2369	
Specific Gravity	0.90 minimum at 77°F	ASTM D1475	
Vapor Pressure	<u>1.0 mm Hg, maximum at</u> <u>77°F</u>	<u>ASTM</u> <u>D 323</u>	

Resin with Initiator			
Property	<u>Requirement</u>	Test Method	
Flash Point	<u>180°F minimum</u>	ASTM D 3278	
Initiator for the methacrylate resin shall consist of a metal drier and peroxide. If supplied			
separately from the resin, the metal drier shall not be mixed with the peroxide directly; a			
VIOLENT EXOTHERMIC REACTION will occur.			

6-23.2(1)B Polyester Concrete Binder

Polyester concrete binder shall have the following properties:

- 1. Be an unsaturated isophthalic polyester-styrene co-polymer.
- 2. The binder content shall be 12% +/-1% of the weight of the dry aggregate.
- 3. Be used with a promoter that is compatible with suitable methyl ethyl ketone peroxide and cumene hydroperoxide initiators.

4. Meet the requirements of the following tables.

<u>Resin</u>			
Requirement	Test Method	Requirement	
<u>Viscosity</u>	<u>75 – 200 cps (RVT No.1</u> Spindle, 20 RPM at 77°F)	<u>ASTM D2196</u>	
Specific Gravity	<u>1.05 to 1.10 at 77°F</u>	<u>ASTM D1475</u>	

Resin with Initiator			
Property	Property	Property	
<u>Contain gamma-</u> methacryloxypropyltrimethoxysilane, an organosilane ester silane coupler	<u>>1%</u>	<u>Nuclear Magnetic</u> <u>Resonance</u>	
<u>Elongation</u>	$\frac{35 \text{ percent, minimum}}{\text{Type I specimen,}}$ $\frac{\text{thickness } 0.25 \pm 0.03^{"}}{\text{at Rate = } 0.45}$ $\frac{\text{inch/minute.}}{\text{inch/minute.}}$	<u>ASTM D638</u>	
	Sample Conditioning: 18/25/50+5/70	<u>ASTM D618</u>	
Tensile Strength	2,500 psi, minimum Type I specimen, thickness 0.25 ± 0.03"	ASTM D638	

at Rate = 0.45 inch/minute.	
2,500 psi, minimum <u>Type I specimen,</u> <u>thickness 0.25 ± 0.03"</u> <u>at Rate = 0.45</u> <u>inch/minute.</u>	<u>ASTM D618</u>

6-23.2(1)C Polyester Concrete Aggregates

The polyester concrete aggregate (coarse and fine) shall be thoroughly washed and kiln dried.

Polyester concrete aggregates shall be manufactured from sand and gravel in accordance with the provisions of Section 3-01. Fine aggregate shall consist of natural sand only. Reclaimed concrete aggregate shall not be used.

Polyester concrete aggregate shall have the following properties:

Polyester Concrete	Aggregate Gradation
Sieve Size	Percent Passing
1/2"	<u>100</u>
3/8"	<u>98 minimum</u>
<u>#4</u>	<u>62-85</u>
<u>#8</u>	<u>45-67</u>
<u>#16</u>	<u>29-50</u>
<u>#30</u>	<u>16-36</u>
<u>#50</u>	<u>5-20</u>
<u>#100</u>	<u>0-7</u>
<u>#200</u>	<u>0-3</u>

Proper	ties of Polyester Concrete Ag	<u>gregate</u>
Property	Test Method	Requirement
Los Angeles Wear	AASHTO T96	<u>35% max at 500 rev</u>
Degradation Factor	<u>WSDOT T113</u>	<u>30 minimum</u>
Clay lumps and Friable Particles	AASHTO M6	3.0% by weight
Coal and lignite	AASHTO M6	0.25% by weight
Particles of specific gravity less than 2.0	AASHTO M6	<u>1.0% by weight</u>
Crushed particles	AASHTO T335	<45% Crushed Particles, retained on the No. 8 Sieve
Weighted-average aggregate absorption	AASHTO T84 and T85	<u><1%</u>
<u>Mohs Hardness</u>	Mohs Hardness Test	<u>≥7 (≥6.5 if system has</u> <u>demonstrated more than 10</u> <u>years of success on large</u> <u>scale installations)</u>
	e following properties at the time	e of mixing the polyester
<u>concrete:</u>		

<u>The polyester concrete aggregate shall have a weighted-average moisture content when</u> tested under AASHTO Test Method T255 of not more than one half of the weighted-average aggregate absorption.

> 7 8

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	6-23.2(1)	D Polyeste	er Concrete
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The properties of the polyester concrete, when the polyester resin and polyester concrete aggregates are combined in the proportions of the approved mix design, shall be as follows:

Property	Test Method	Requirement
Portland Cement Concrete Saturated Surface Dry Bond Strength	California Test 551	500 psi minimum at 24 hrs. and 70°± 1° F (without primer, at 12% resin content by weight of the dry aggregate, on Saturated Surface Dry Specimen)
PCC Saturated Surface-Dry Bond Strength (Adhesive)	<u>California Test 551</u>	700 psi, minimum at 24 hours and 70° ± 1°F (at 12%) resin content by weight of the dry aggregate), HMWM primed surface
Abrasion Resistance	California Test 550	<2g weight loss (at 12% resin content by weight of the dry aggregate)
Modulus of Elasticity	<u>ASTM C 469</u>	<u>1,000,000 psi to</u> <u>2,000,000psi (at 12% resin</u> <u>content by weight of the dry</u> <u>aggregate)</u>
Portland Cement Concrete Dry Surface Bond Strength (Adhesive) – Primer installation window verification	<u>California Test 551</u>	700 psi, minimum at 24hours and 70° ± 1°F (at 12%)resin content by weight ofthe dry aggregate), HMWMprimed surface.Polyester concrete placedagainst primed surface twohours after Primerapplication.

6-23.2(1)E Sand for Abrasive Finish

Sand for abrasive finish shall have the following properties:

- 1. Be commercial-quality blast sand.
- Have a minimum of 85 percent passing the No. 8 sieve and a maximum of 10 percent passing the No. 20 sieve when tested under AASHTO Test Method T27.
- 3. Be kiln dried and protected from moisture until time of placement. At the time of application on the polyester concrete, the moisture content of the sand for abrasive finish shall not exceed 0.5 percent.

1	6-23.2(1)F Shipping, Storing and Handling Polyester Concrete Materials
2	All components shall be shipped in strong, substantial containers bearing the
3	manufacturers label specifying batch/lot number, brand name, and quantity. If bulk
4	resin is to be used, the contractor shall notify the Engineer in writing 10 days prior to
5	the delivery of the bulk resin to the job site. Bulk resin is any resin that is stored in
6	containers in excess of 250 gallons.
7	
8	All materials shall be delivered in their original containers bearing the manufacturer's
9	label, specifying date of manufacturing, batch number, trade name brand, quantity,
10	and mixing ratio. Each shipment of polyester concrete binder and primer shall be
11	accompanied by a Safety Data Sheet (SDS). Bulk resin containers shall be identified
12	by one of the following methods:
13	
14	1. A label on each container as specified above, or
15	T. A laber off each container as specified above, of
	0. A marking an each container that uniquely identifies the container
16	2. A marking on each container that uniquely identifies the container,
17	accompanied by documentation that unequivocally identifies the
18	Manufacturer's Certificate of Compliance that is associated with the
19	material in that container.
20	
21	The material shall be stored to prevent damage by the elements and to ensure the
22	preservation of their quality and fitness for the Work. The storage space shall be kept
23	clean and dry and shall contain a high-low thermometer. The temperatures of the
24	storage space shall not fall below nor rise above that recommended by the
25	manufacturer. Every precaution shall be taken to avoid contact with flame.
26	manadator. Every productor onal bo taken to avoid contact with hame.
27	Stored materials shall be inspected prior to their use and shall meet the requirements
28	
	of these Special Provisions at the time of use.
29	Madeutal controls to be to stand the second of failure do use of the second state of the down of the down of the
30	Material which is rejected because of failure to meet the required tests or that has
31	been damaged shall be immediately replaced at no additional expense to the
32	Contracting Agency.
33	
34	Sufficient material to perform the entire polyester concrete overlay application shall
35	be in storage at the site prior to field preparations, so that there shall be no delay in
36	procuring the materials for each day's application.
37	
38	Prior to Work, a copy of the Contractor's safety plan addressing worker protective
39	clothing, protective breathing devices, measures to address inadvertent contact with
40	chemicals and other appropriate safety measures shall be submitted to the Engineer
40	in accordance with Section 1-07.1(2).
	$\frac{11}{2} \frac{1}{2} 1$
42	
43	<u>6-23.2(2) Concrete Class M</u>
44	Concrete Class M shall be proportioned in accordance with the following mix design:
45	
46	Portland Cement Type 1 or Type 2, or
47	Blended Hydraulic Cement Type IL(X) 705 pounds
48	Fine Aggregate 1,280 pounds
49	Coarse Aggregate 1,650 pounds
50	Water/Cement Ratio 0.37 maximum
51	Air ($\pm 1\frac{1}{2}$ percent) 6 percent
51	

1		5 inches
2		ete ehell he AACUTO greding No. 7 er
3		ale shall be AASHTO grading No. 7 or
45		
6		ing to AASHTO M 194 Type A will be
7		
8		
9		<u> </u>
10		
11		s and transported in ready-mix trucks
12		,
13		
14		itious ratios shall be calculated using all
15		
16	6 the job site, water in all admixtures, and the free w	ater in the aggregates but not the water
17	7 absorbed by the aggregates. The following an	e considered cementitious materials:
18	8 Portland Cement and blended hydraulic cement.	
19	9	
20	0 <u>6-23.2(3) Crack Sealing Materials</u>	
21		
22	· · · · · · · · · · · · · · · · · · ·	er concrete overlay shall meet the
23		
24		
25		
26		all meet the requirements for sand for
27		
28		
29		
30		
31		
32 33		Provision:
33		
35		
36		C0
37		
38		
39		
40		e
41		-
42	2 <u>5.</u> Place and cure the primer, polyester co	oncrete overlay, and sand for abrasive
43	3 <u>finish</u>	
44	4	
45		
46		
47		
48		
49		
50		
51	 <u>9. Texturing Polyester Concrete</u> 	

1	
2	6-23.3(1)A Traffic Restrictions on Sequence of Operations
3	Traffic shall not be allowed on shotblasted bridge deck surfaces until step 9 of Section
4	6-23.3(1) of this Special Provision is completed.
5	
6	<u>6-23.3(2) Equipment</u>
7	In addition to meeting the equipment requirements herein, equipment shall meet, and be
8	operated in accordance with, the System Provider Technical Representative's
9	recommendations.
10	
11	<u>6-23.3(2)A Shot Blaster</u>
12	The shotblaster shall be a self-contained mobile unit using steel shot to texture the
13	sound concrete to produce a concrete surface profile of CSP-6 or greater in
14	accordance with International Concrete Repair institute (ICRI) 310.2R. The machine
15	shall blast a minimum width of 2 feet per pass. The shotblasting machine shall
16	shotblast, vacuum and store all material removed from the blasted concrete surface
17	in a self-contained unit.
18	The shothlaster vessure shall allow the shothlaster to be encreted in sir collution
19	The shotblaster vacuum shall allow the shotblaster to be operated in air pollution
20	sensitive areas and shall be equipped to not contaminate the deck during final
21	preparation for concrete placement.
22	C 02 2/2) D Dewer Driven Hand Teolo
23	6-23.3(2)B Power Driven Hand Tools
24	Power driven hand tools are limited to the following:
25 26	1 look hammers no heavier than the naminal 20 nound class
20	1. Jack hammers no heavier than the nominal 30-pound class.
28	2. Chipping hammers no heavier than the nominal 15-pound class.
20	2. Chipping hammers no heavier than the nominal 15-pound class.
30	3. Other mechanical means acceptable to the Engineer.
31	
32	Power driven hand tools shall not be operated at angles greater than 45 degrees as
33	measured from the surface of the deck to the tool.
34	
35	<u>6-23.3(2)C Air Compressor</u>
36	Air compressors shall be equipped with oil traps to eliminate oil from being blown
37	onto the bridge deck.
38	
39	6-23.3(2)D Vacuum Machine
40	Vacuum machines, separate from and in addition to the vacuum built in to the shot-
41	blaster, shall be capable of collecting all remaining dust, concrete chips, and other
42	debris encountered while vacuuming. The machines shall be equipped with collection
43	systems that allow the machines to be operated in air pollution sensitive areas and
44	shall be equipped to not contaminate the deck during final preparation for concrete
45	placement.
46	
47	6-23.3(2)E Polyester Concrete Mixers
48	A continuous automated mixer shall be used for all polyester concrete overlay
49	applications. The continuous mixer must be capable of mixing the polyester binder
50	resin components with dry aggregate, maintain proper ratios, and achieve set and
51	cure times within the specified limits.

1 .	
1	
2	The Contractor shall submit current certification documents showing that mixing
3	equipment has been calibrated (California Test 109 or similar accepted) with the
4	exact polyester concrete overlay system to be installed. If required by the Engineer,
5	the Contractor shall demonstrate that the proposed volumetric mixing equipment is
6	accurately calibrated through on-site verification. The actual weights of the polyester
7	concrete materials discharged from the volumetric mixer truck shall be accurately
8	represented by the printout ticket measurement produced by the on-board computer
9	tracking system. To demonstrate this the Contractor shall dispense individual
10	aggregate and resin batches and weigh with certified scales. The Engineer will
11	compare certified scale weights to print out ticket measurements. Results of each
12	comparison will be considered within calibration tolerance when ticket
13	measurements and certified scale weights are within 2% of each other. Mixing
14	equipment calibration verification should be considered successfully completed after
15	
	three consecutive successful results, witnessed by a representative of the
16	Contracting Agency.
17	The Contractor shall submit a desumented bistoms of the use of the last t
18	The Contractor shall submit a documented history of the use of the placement
19	equipment to successfully install Polyester Polymer Concrete overlays on bridge
20	projects for review and approval by the Engineer. Acceptable experience shall be
21	from installations matching the scope of the proposed project, including thickness
22	and grade establishment requirements.
23	
24	The continuous mixer shall:
25	
26	1. Employ an auger screw/chute device capable of sufficiently mixing
27	catalyzed resin with dry aggregate.
28	
29	2. Employ a plural component pumping system capable of handling polyester
30	binder resin and additives while maintaining proper ratios to achieve
31	set/cure times within the specified limits, evenly across the placement.
32	Resin and all field additives, including catalyst and accelerator, shall flow
33	through a static mix tube for sufficient duration to completely mix the liquid
34	system prior to combination with aggregates.
35	<u>cycloni prici te compination mar aggi cgatoo.</u>
36	3. Be equipped with an automatic metering device that measures and records
37	aggregate and resin volumes. Record volumes at least every five minutes,
38	including time and date. Submit recorded volumes at the end of the work
39	
	<u>shift.</u>
40	A line putition readout more that displays mustice tatals of energy and
41	4. Have a visible readout gage that displays running totals of aggregate and
42	resin being recorded.
43	
44	5. Produce a satisfactory mix consistently during the entire placement, and
45	maintain appropriate resin content, catalyst, and accelerator levels to
46	produce desired outcome.
47	
48	6. Discharge mixed material directly into the finishing machine.
49	
50	A portable mechanical mixer of appropriate size for proposed batches, as
51	recommended by the System Provider Technical Representative and approved by

1 2	the Engineer, may be used for patching applications and for smaller area overlay applications if recommended by the System Provider Technical Representative and
3	approved by the Engineer.
4 5	6-23.3(2)F Polyester Concrete Paving Machine
6	Except under the conditions described in Section 6-23.3(2)F1 of this Special
7	Provision, the polyester concrete overlay shall be placed with a self-propelled slip-
8	form paving machine that places, consolidates, and finishes the polyester concrete
9	overlay in one continuous operation. It shall be modified or specifically built to
10	effectively place the polyester concrete overlay in a manner that meets Contract
11	requirements. In addition, the paving machine shall:
12	
13	1. Employ a vibrating pan to consolidate and finish the polyester concrete.
14	Paver primary finishing pan size shall measure not less than 2 feet in the
15	dimension parallel to the direction of paver travel. Secondary profile
16	finishing attachments, bolt on sections, and trailing pan extensions shall not
17 18	be included in this measurement.
10	2. Shall have the necessary adjustments to produce the required cross
20	2. Shall have the necessary adjustments to produce the required cross
20	section, line, and grade, including the ability to recreate transverse grade breaks within 6 inches left or right of existing transverse grade breaks.
22	DIEARS WITHIN O INCIDES IEIT OF HIGHL OF EXISTING TRANSVELSE GRADE DIEARS.
23	3. Be fitted with hydraulically controlled grade automation devices on both
24	sides of the machine to establish the finished profile and cross-slope. These
25	devices shall either (1) average 15 feet in front and behind the center of
26	automation sensors, or (2) the sensor shall be constructed to work with
27	string-line control. It is acceptable to match grade when placing lanes
28	adjacent to polyester concrete overlay placed on this Contract. String line
29	grade establishment may be required to establish proposed grades if
30	required by plan note or elsewhere in the Contract, in which case grade
31	averaging beams will not be acceptable.
32	
33	4. Have sufficient engine power and weight to provide adequate vibration of
34	the finishing pan while maintaining consistent forward placement speed.
35	
36	5. Be capable of both forward and reverse motion under its own power.
37	
38	6. Demonstrate successful performance with the trial overlay.
39	
40	Wheel or rubber tire mounted paving machines will not be allowed.
41	0.00.0(0)E4 Vibratara Osmaal and Omall Omall Orafaasa
42	6-23.3(2)F1 Vibratory Screed and Small Surfaces
43 44	Roller type screeds will not be accepted.
44	A vibratory caread riding on project forms or rails act at a maximum width of 12
45 46	<u>A vibratory screed riding on preset forms or rails set at a maximum width of 12</u> feet may be used on structures that have live load paving train restrictions.
40	reet may be used on structures that have live load paviling train restrictions.
48	Shoulder pours of 6 feet wide or less may be placed without the use of a paving
49	machine.
50	
1	

1	5.	A Type 2 Working Drawing of samples, as specified below, shall be submitted to
2		the Engineer at least 15 working days prior to placing the polyester overlay:
3		
4		a. One gallon minimum of the polyester concrete binder.
5		
6		b. One pint minimum of the primer.
7		
8		c. 100 pounds minimum of polyester concrete aggregate.
9		
10	6.	A Type 2 Working Drawing of the paving equipment specifications and details of
11		how the paver will maintain the required longitudinal and transverse grades.
12		
13	7.	A Type 1 Working Drawing of the survey data collected as required in Section 6-
14		23.3(6) of this Special Provision.
15		
16	8.	A Type 1 Working Drawing of the measurements documenting the deck patching
17		areas as required by Section 6-23.3(7)B of this Special Provision.
18		
19	9.	A one-pint sample of each batch of promoted/initiated primer shall be retained
20		and submitted to the Engineer at the time of primer application to verify proper
21		catalyzation.
22		
23	10.	A Type 1 Working Drawing of the readings of the rebound hammer used shall
24		be correlated to the compressive strength of the polyester concrete product in
25		accordance with Section 5.4 of ASTM C805 and the Contractor.
26		
27	11.	A Type 2 Working Drawing of the qualifications of on-site supervisors, volumetric
28		mixer operators, and finishing machine operators, in accordance with Section 6-
29		23.1(2)C of this Special Provision.
23		
30		
	<u>12.</u>	A Type 2 Working Drawing of the method and materials used to contain primer
30	<u>12.</u>	
30 31	<u>12.</u>	A Type 2 Working Drawing of the method and materials used to contain primer
30 31 32		A Type 2 Working Drawing of the method and materials used to contain primer
30 31 32 33		A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker
30 31 32 33 34 35		A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address
30 31 32 33 34		A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker
30 31 32 33 34 35 36	<u>13.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address
30 31 32 33 34 35 36 37	<u>13.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures.
30 31 32 33 34 35 36 37 38	<u>13.</u> <u>14.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures.
30 31 32 33 34 35 36 37 38 39	<u>13.</u> <u>14.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing.
30 31 32 33 34 35 36 37 38 39 40	<u>13.</u> <u>14.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6-
30 31 32 33 34 35 36 37 38 39 40 41	<u>13.</u> <u>14.</u> <u>15.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision.
30 31 32 33 34 35 36 37 38 39 40 41 42	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider
30 31 32 33 34 35 36 37 38 39 40 41 42 43	<u>13.</u> <u>14.</u> <u>15.</u>	A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision.
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider Technical Representative's experience, demonstrating compliance with the
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider Technical Representative's experience, demonstrating compliance with the
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider Technical Representative's experience, demonstrating compliance with the experience requirements, including the following:
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider Technical Representative's experience, demonstrating compliance with the experience requirements, including the following:
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	<u>13.</u> <u>14.</u> <u>15.</u>	 A Type 2 Working Drawing of the method and materials used to contain primer and polyester concrete within the deck area specified to receive the overlay. A Type 2 Working Drawing of the Contractor's Safety plan addressing worker protective clothing, protective breathing devices, measures to address inadvertent contact with chemicals and other appropriate safety measures. A Type 2 Working Drawing of the equipment to be used for texturing. A Type 2 Working Drawing of the Certified test results as required in Section 6- 23.2(1) of this Special Provision. A Type 1 Working Drawing of the Documentation of the System Provider Technical Representative's experience, demonstrating compliance with the experience requirements, including the following: a. Years of Experience with the proposed Polyester Concrete Overlay System

1	
2	d. Overlay quantities
3	
4	e. Reference name and contact information for owner representative
5	
6	17. A Type 2 Working Drawing of the Documentation of the Polyester Concrete
7	Overlay System and System Provider experience, demonstrating compliance with
8	experience requirements. Submit written installation instructions, safety data sheets,
9	and independent test results for approval. Projects of similar scope shall be
10	evaluated considering placement temperature, traffic return, allowable cure time,
11	placement thickness, average daily traffic, surface texture, environmental conditions,
12	and any other factors unique to the application. System failure examples obtained
13	from other Public Agencies may be considered for evaluation and rejection whether
14	submitted by the Contractor or obtained otherwise. Submit documentation and
15	references of the polyester concrete overlay system experience including the
16	following:
17	
18	a. Project location
19	b Contraction Anonex
20 21	b. Contracting Agency
21	c. Project construction date
22	c. Project construction date
24	d. Overlay quantities and component details
25	<u>a. Overlay quantities and compenent detaile</u>
26	e. Reference name and contact information for owner representative
27	
28	18. A Type 2 Working Drawing of the Documentation of the experience of the
29	Polyester Concrete Placement Contractor and Workers that will place the polyester
30	concrete overlay system. The documentation of Contractor and employee
31	qualifications shall include the following:
32	
33	a. Project location
34	
35	b. Contracting Agency
36	
37	c. Project construction date
38 39	d. Overlay volume and area quantities
40	d. Overlay volume and area quantities
40	e. Reference name and contact information for owner representative
42	
43	19. A Type 2 Working Drawing of the certification and test reports of the polyester
44	concrete mixer and documented history of the use of the placement equipment to
45	successfully install Polyester Polymer Concrete overlays.
46	,, _,, _
47	20. A Type 2 Working Drawing of the Overlay Placement Plan. The Contractor shall
48	submit an Overlay Placement Plan that includes the following:
49	
50	a. Schedule of overlay work and testing for each bridge
51	

1	b. Staging plan describing overlay placement sequence including:
23	i. Construction joint locations
45	ii. Sequence of placement
6 7	iii. Paving widths
8 9 10	iv. Anticipated paving lengths
10	v. Paving directions
12 13 14	vi. Joint locations
15	vii. Location of proposed trial overlay(s)
17 18	c. Description of equipment used for:
19 20	i. Surface preparation including grinding and shot blasting
20 21 22	ii. Applying primer
23 24 25	iii. Measuring, mixing, placing, and finishing the polyester concrete overlay
26 27	iv. Applying sand for abrasive finish
28 29	d. Method of protecting and finishing inlets and bridge drains
30 31	e. Method for isolating expansion joints
32 33	f. Method for ensuring shotblasting achieves a concrete surface profile of ICRI 310.2R CSP-6 or greater
34 35	g. Method for measuring and maintaining overlay thickness and profile
36 37	h. Cure time for polyester concrete
38 39	i, Storage and handling of primer and polyester concrete components
40 41	j. Procedure for disposal of excess primer, polyester concrete, and containers
42 43	k. Procedure for cleanup of mixing and placement equipment
44 45	6-23.3(4) Operations on the Bridge Deck
46 47	The following apply to all Contractor operations on the bridge deck, including but not limited to cleaning concrete surfaces, Type 1 and Type 2 Deck Repair, sandblasting, shot-
48 49	blasting, placing, consolidating, finishing, curing, sawing, and crack sealing the overlay.

1	1. The Contractor shall not use water on the bridge deck nor allow water from their
2 3	operations to come into contact with the concrete bridge deck at any time, except for the following:
4	
5	a. Placing and curing Class M concrete. Using water for this application shall
6	be carefully controlled to prevent the water from coming into contact with
7	the bridge deck outside of the patch.
8 9	2 The Contractor shall protect adjacent traffic from flying debris in accordance with
9 10	2. The Contractor shall protect adjacent traffic from flying debris in accordance with its Debris Containment and Disposal Plan submitted in accordance with Section
11	6-23.3(3) of this Special Provision.
12	
13	3. The Contractor shall collect, contain, and dispose of all concrete debris in
14	accordance with its Debris Containment and Disposal Plan submitted in
15	accordance with Section 6-23.3(3) of this Special Provision.
16	
17	4. Rainwater and stormwater runoff that comes in contact with the bridge deck shall
18	be considered process wastewater and shall be managed in accordance with
19 20	Section 8-01.
20	6-23.3(5) Initial Surface Preparation
22	Initial surface preparation is for the purpose of exposing the concrete substrate for chain
23	dragging and deck repair.
24	
25	6-23.3(5)A Prerequisites to Initial Surface Preparation
26	Initial surface preparation shall not begin until the Contractor has completed all the
27	following:
28	4 Demonstrate data de 11 Marche for a sitem bridge and data accordate itema
29 30	 Demonstrated that all Work, for a given bridge, needed to complete items 1, 2, 3, 4, 5, 6, 7, 8, and 9 of Section 6-23.3(1) of this Special Provision can
31	and will be completed in one and only one construction season.
32	and will be completed in one and only one construction season.
33	2. Submitted all submittals required in Section 6-23.3(3) of this Special
34	Provision and addressed all the Engineer's comments to the satisfaction of
35	the Engineer.
36	
37	6-23.3(5)B Shotblasting
38	For newly constructed bridge decks, the deck concrete shall cure a minimum of 28
39 40	days and attain design concrete compressive strength prior to shotblasting.
40	The areas to receive polyester concrete overlay shall be shotblasted, or sandblasted
42	if the shotblast equipment cannot access areas to be prepared, to produce a concrete
43	surface profile of CSP-6 or greater in accordance with International Concrete Repair
44	Institute (ICRI) 310.2R. All weak or loose surface mortar shall be removed,
45	aggregates within the concrete exposed, and open pores in the concrete exposed,
46	as well as a visible change in the concrete color.
47	_
48	Dust and debris generated during shotblasting shall be picked up and stored in the
49	vacuum unit built into the shotblaster and minimal dust shall be created during the
50 51	blasting operation.

1	6-23.3(6) Surveying of Existing Bridge Deck
2	After shotblasting the concrete surface as specified in these Provisions, the Contractor
3	
4	shall complete a survey of the Existing Bridge Deck Surface(s) specified to receive Polyester concrete overlay for use in establishing the existing cross section and profile
5	grade elevations.
6 7	The Engineer will provide the Contractor with primery survey control information
	The Engineer will provide the Contractor with primary survey control information
8	consisting of descriptions of two primary control points used for the horizontal and vertical
9	control. Primary control points will be described by reference to the bridge or project-
10	specific stationing and elevation datum. The Engineer will also provide horizontal
11	coordinates for the beginning and ending points and for each Point of Intersection (PI) on
12	each centerline alignment included in the project. The Contractor shall provide the
13	Engineer 21 calendar days' notice in advance of scheduled concrete surface shotblasting
14	work to allow the Engineer time to provide the primary survey control information.
15	
16	The Contractor shall verify the primary survey control information furnished by the
17	Engineer and shall expand the survey control information to include secondary horizontal
18	and vertical control points as needed for the project. The Contractor's survey records shall
19	include descriptions of all survey control points, including coordinates and elevations of
20	all secondary control points.
21	
22	The Contractor shall maintain detailed survey records, including a description of the work
23	performed on each shift, the methods utilized to conduct the survey, and the control points
24	used. The record shall be of sufficient detail to allow the survey to be reproduced. A Type
25	1 Working Drawing of each day's survey record shall be provided to the Engineer within
26	3 working days after the end of the shift. The Contractor shall compile the survey
27	information in an electronic file format acceptable to the Engineer (file formats submitted
28	shall be compatible with InRoads and MicroStation).
29	
30	Survey information collected shall include station, offset, and elevation for each lane line
31	and curb line. Survey information shall be collected at even 20-foot station intervals and
32	at the centerline of each bridge expansion joint. The Contractor shall ensure a surveying
33	accuracy to within \pm 0.01 feet for vertical control and \pm 0.2 feet for horizontal control. The
34	survey shall extend 100 feet beyond the bridge back of pavement seat.
35	
36	Except for the primary survey control information and final grade profile and cross-
37	sectionfurnished by the Engineer, the Contractor shall be responsible for all calculations,
38	surveying, and measuring required for setting, maintaining, and resetting equipment and
39	materials necessary for the construction of the overlay to the final grade profile and cross-
40	section. The Engineer may post-check the Contractor's surveying, but these post-checks
41	shall not relieve the Contractor of responsibility for internal survey quality control.
42	The Engineer will establish the final grade profile and grade costion based on the
43	The Engineer will establish the final grade profile and cross-section based on the
44	Contractor's survey and will provide the final grade profile and cross-section to the
45	Contractor within five working days after receiving the Contractor's survey information.
46	The Contractor shall not begin shotblecting concrete surface work as enacified in these
47	The Contractor shall not begin shotblasting concrete surface work as specified in these
48	Provisions until receiving the final grade profile from the Engineer.
49	6 22 2/7) Deck Depair
50	6-23.3(7) Deck Repair
51	Deck repair Work shall not commence until shotblasting operations are complete.

1	
1	
2	6-23.3(7)A Classification
3	Deck repair will be classified as Type 1 Deck Repair or Type 2 Deck Repair. The
4	determination of whether an area will be classified as Type 1 or Type 2 will be made
5	after completion of deck repair excavation, repair of steel reinforcing bars, and
6	removal of concrete debris.
7	
8	<u>6-23.3(7)B Chain Drag</u>
9	After the entire lane or strip to be overlaid has been shotblasted and cleaned as
10	required in Section 6-23.3(5) of this Special Provision, the entire surface shall be
11	inspected by the Contractor, in the presence of the Engineer, in accordance with
12	ASTM D4580, Method B. Based on that inspection, the Contractor shall mark those
13	areas, meeting any of the following criteria, for removal:
14	areae, meeting any of the following enterial, for following
15	1. Unsound concrete in accordance with ASTM D4580, Method B.
	1. Onsound concrete in accordance with AS five D4500, Method D.
16	
17	Lack of bond between existing concrete and reinforcing steel.
18	
19	3. All existing nonconcrete patches.
20	
21	After all deck repair excavation is complete, the Contractor shall measure and submit
22	to the Engineer as a Type 1 Working Drawing the location and size of each area
23	identified above by station, offset, length, width, average depth, and deck repair type,
24	using the form provided by the Engineer.
25	dsing the form provided by the Engineer.
	C 02 2/7\C Deck Densir Execustion
26	6-23.3(7)C Deck Repair Excavation
27	The areas marked for removal in Section 6-23.3(7)B of this Special Provision shall
28	be excavated with equipment as described in Section 6-23.3(2)B of this Special
29	Provision. Excavation shall be to the depth necessary to remove all loose and
30	unsound material, without damaging reinforcing steel or sound concrete.
31	
32	Care shall be taken in removing the deteriorated material to not damage the existing
33	sound concrete or steel reinforcing bars that are to remain in place. All removal shall
34	be accomplished by making vertical edges at the boundaries of the repair area. In no
35	case shall the depth of a sawn vertical cut exceed ³ / ₄ inch or to the top of the top steel
36	
	reinforcing bars, whichever is less.
37	
38	Bridge deck areas outside the repair area damaged by the Contractor's operations
39	shall be repaired by the Contractor at no additional expense to the Contracting
40	Agency, and to the satisfaction of the Engineer.
41	
42	6-23.3(7)D Repair of Steel Reinforcing Bars
43	Where existing steel reinforcing bars inside deck repair areas show natural
44	deterioration greater than 20-percent section loss, the Contractor shall furnish and
45	place steel reinforcing bars alongside the deteriorated bars in accordance with the
46	details shown in the Standard Plans. Payment for such extra Work will be by force
47	account as provided in Section 1-09.6.
48	
49	All reinforcing steel damaged due to the Contractor's operations shall be repaired by
50	the Contractor. Damage to rebar shall be understood to include damage to epoxy
51	<u>coating.</u>

1	
2	The repair shall be as follows or as directed by the Engineer:
3	<u></u>
4	1. Damage to epoxy coating, when present on existing steel reinforcing bars,
5	shall be repaired in accordance with Section 6-02.3(24)H.
6	
7	2. Damage to bars resulting in a section loss of 20 percent or more of the bar
8	area shall be repaired by chipping out the adjacent concrete and splicing a
9	new bar of the same size. Concrete shall be removed to provide a ³ / ₄ -inch
10	minimum clearance around the bars. The splice bars shall extend a
11	minimum of 40 bar diameters beyond each end of the damage.
12	2. All have nexticily an economic table represent from the clearly shall have the
13	3. All bars partially or completely removed from the deck shall have the
14 15	damaged portions removed and spliced with new bars as outlined in item 2
16	above.
17	For bridge decks not constructed under the same Contract as the polyester concrete
18	overlay, responsibility for costs to repair damage shall be allocated as follows:
19	
20	1. Repairing damage that occurs during shotblasting to coatings on existing
21	reinforcing steel shall be paid for in accordance with Section 1-09.6.
22	
23	2. Repairing damage to existing reinforcing steel that is caused by the
24	Contractor's negligence shall be at no additional expense to the Contracting
25	Agency.
26	
27	<u>6-23.3(7)E Type 1 Deck Repair</u>
28	An area will be classified as a Type 1 Deck Repair when the completed concrete
29	excavation either (a) exposes no more than one-half the periphery of a bottom bar of
30 31	the top layer of steel reinforcement, or (b) the length of an exposed bar does not exceed 12-continuous inches along the length of the bar.
32	exceed 12-continuous inches along the length of the bar.
33	The scope of Work for Type 1 Deck Repair includes:
34	
35	1. Excavating and disposing of the unsound concrete and unsound
36	nonconcrete patches within the repair area.
37	
38	2. Repair of steel reinforcing bars damaged by the Contractor.
39	
40	3. Sandblast the surface and exposed rebar.
41	
42	4. Providing a CSP-6 surface roughness on existing nonconcrete patches that
43	are sound.
44	
45	6-23.3(7)F Type 2 Deck Repair
46 47	An area will be classified as a Type 2 Deck Repair when the completed concrete
47 48	excavation either exposes more than one-half the periphery of a bottom bar of the
40 49	top layer of steel reinforcement or the length of an exposed bar exceeds 12- continuous inches along the length of the bar.
50 51	The scope of Work for Type 2 Deck Repair includes:

1 .	
1	
2	1. Excavating and disposing of the unsound concrete and unsound
3	nonconcrete patches within the repair area, below the shotblasted depth.
4	2 Densiring steel usinfersing here demograd by the Contractor
5 6	2. Repairing steel reinforcing bars damaged by the Contractor.
7	2 Sandhlasting the area and expand rober prior to plasing deak patching
8	3. Sandblasting the area and exposed rebar prior to placing deck patching
9	concrete.
10	4. Saturating and removing freestanding water.
11	4. Caturating and removing reestanding water.
12	5. All work related to patching and curing the excavated area with Class M
13	concrete in accordance with Section 6-23.2(2) of this Special Provision.
14	
15	6-23.3(7)G Filling and Curing Deck Repair Areas
16	Type 1 Deck Repairs shall be filled with polyester concrete as part of placing the
17	polyester concrete overlay. Payment for filling Type 1 deck repairs with Polyester
18	Concrete shall be incidental to bid item "Polyester Concrete Overlay".
19	
20	Type 2 Deck Repairs shall be patched with concrete class M. The top of these
21	patches shall be finished with a wood float, flush with the top of the shotblasted
22	surface. All Type 2 deck repair patching shall be performed well enough in advance
23	of the polyester concrete overlay to allow all patches to cure as required below.
24	
25	Before placing Class M concrete in the Type 2 deck repairs, the Contractor shall
26	clean the surfaces to which the concrete will be applied (including rebar) by
27	sandblasting and blowing clean with oil-free air. The Contractor shall make sure the
28	existing concrete is well saturated at the time of placing concrete in the Type 2 deck
29	repairs but shall remove all freestanding water prior to placing the concrete. The
30	Contractor shall place concrete class M in the Type 2 deck repair areas while the
31	existing concrete is wet. It shall be consolidated in accordance with Section 6-
32	02.3(8). Concrete Class M shall be wet-cured a minimum of 42 hours, as follows:
33	
34	1. The concrete shall be immediately covered with a single layer of clean, new
35	or used, wet burlap. The burlap shall have a maximum width of 6 feet. The
36	Engineer will determine the suitability of the burlap for reuse, based on the
37	cleanliness and absorption ability of the burlap. Care shall be exercised to
38	ensure that the burlap is well drained and laid flat with no wrinkles on the
39	deck surface. Adjacent strips of burlap shall have a minimum overlap of 6
40	inches.
41	On the standard standard shall be lightly for a supervised with supervised as the supervised standard
42	2. Once in place the burlap shall be lightly fog sprayed with water. A separate
43	layer of white, reflective type polyethylene sheeting shall immediately be
44	placed over the wet burlap.
45 46	2 As an alternative to the application of hurlen and for approxime described
46 47	3. As an alternative to the application of burlap and fog spraying described above, the Contractor may propose a curing system using proprietary
47	curing blankets specifically manufactured for bridge deck curing. The
40	Contractor shall submit a Type 2 Working Drawing consisting of details of
49 50	the proprietary curing blanket system, including product literature and
50	details of how the system is to be installed and maintained.
	details of now the system is to be installed and maintained.

1	
2	4. The burlap shall be kept wet continuously and the wet curing regimen as
3	described shall remain in place for a minimum of 42-hours.
4	During the suring period of concerts placed in Ture 2 deck repairs, all us bigular and
5	During the curing period of concrete placed in Type 2 deck repairs, all vehicular and
6 7	foot traffic shall be prohibited in the repair area.
8	6.22.2/7\H _ Filling Existing Pridge Deck Wheel Pute
9	<u>6-23.3(7)H Filling Existing Bridge Deck Wheel Ruts</u> Existing Bridge Deck Ruts shall be filled with polyester concrete as part of placing
10	the polyester concrete overlay.
11	the polyester concrete overlay.
12	6-23.3(8) Polyester Concrete Trial Overlay
13	Prior to constructing the overlay, the Contractor shall place one or more trial overlays of
14	primer and polyester concrete using the equipment, materials, and procedures proposed
15	for production, as approved by the Engineer in accordance with Section 6-23.3(3). The
16	Contractor shall notify the Engineer of the time and location of the trial overlay at least
17	seven calendar days prior to the scheduled trial overlay.
18	
19	The trial overlay shall be placed on a previously cast and cured concrete pad at a location
20	selected by the Contractor. The plan area of the concrete pad shall be 12 feet minimum
21	in width and 15 feet minimum in length.
22	
23	The Contractor shall shotblast, clean the concrete pad surface, mix, place, finish, and
24	cure the polyester concrete overlay. The Contractor need not perform further deck
25	preparation, or place sand for abrasive finish provided that all other conditions of Sections
26	6-23.3(9), (10), and (12) of this Special Provision are satisfied.
27	
28	The Contractor shall arrange for soundness testing and three pull-off tests as described
29	in Section 6-23.3(13) to be performed by an independent testing laboratory. The
30	independent testing laboratory shall record the pull-off test results and the amount of (if
31	any) failure into the base concrete and shall provide written documentation of the test
32	results to the Engineer and Contractor.
33	The Contractor shall not begin placing polyester constate system at the bridge site(s)
34 35	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
36	completed trial overlay.
37	completed that overlay.
38	After receiving the Engineer's approval of the completed trial overlay, the concrete pad
39	and trial overlay shall become the Contractor's property and shall be removed and
40	disposed of in accordance with Section 2-02.3.
41	
42	If significant successful experience is demonstrated by both the installer, System
43	Provider, and System Provider Technical Representative together, the first shift of
44	polyester concrete overlay installation may be considered as the Trial Application if
45	approved by the Engineer. Rejection of all or part of the trial in this case will be required
46	to be removed and disposed of at no additional cost to the Contracting Agency. If no
47	further overlay is allowed due to full rejection after multiple trials, the site will be restored
48	to initial in-service condition at no additional cost to the Contracting Agency.
49	
50	The number of trial applications required shall be as many as necessary for the Contractor
51	to demonstrate the ability to construct an acceptable trial overlay section and competency

1	to perform the work. However, the installer, proposed equipment/techniques, or material
2	may be rejected if not shown to be acceptable after two trials.
3	
4	<u>6-23.3(9) Polyester Concrete Overlay</u>
5	6-23.3(9)A Pre-Overlay Conference
6	Five to ten working days prior to polyester concrete overlay placement, a pre-overlay
7	conference shall be held to discuss final deck preparation, equipment, temperature
8	and weather requirements, aggregate and deck dryness requirements, construction
9	procedures, sequencing, and personnel. Inspection procedures shall also be
10	reviewed to ensure coordination. Attendees shall include representatives from all
11	parties involved in the work including inspectors, installer, and System Provider
12	Technical Representative. If necessary, teleconferencing of attendees may be
13	approved by the Engineer.
14	
15	If the project includes more than one bridge deck, an additional conference shall be
16	held just before placing the polyester concrete overlay for each subsequent bridge
17	deck.
18	C 02 2/0)D Destrictions on Other Work
19	6-23.3(9)B Restrictions on Other Work
20	To ensure the best possible bond and integrity of the polyester concrete overlay, the
21 22	Contractor shall ensure that dust, debris, moisture, or any other deleterious materials do not enter a work area from the start of final surface preparation in that work area
22	until completion of curing time for the polyester concrete overlay in that work area.
23	This work area during this timeframe shall be referred to as the protected work area.
24	In addition to other measures, the Contractor shall comply with the following:
26	In addition to other measures, the Contractor shall comply with the following.
27	1. Perform no work within 100 feet of the protected work area which generates
28	dust or debris (including hand tool chipping, shotblasting, sandblasting,
29	vacuuming, and cleaning).
30	<u>rabaaning, and obaning,</u>
31	2. Dust or debris generating work may be allowed beyond this 100 feet
32	boundary provided dust and debris will not drift onto the limits of the
33	protected work area.
34	
35	If the shotblasting impedes or interferes in any way with the final cleaning or overlay
36	placement within the protected area as determined by the Engineer, the shotblasting
37	Work shall be terminated immediately and the equipment shall be moved away from
38	the protected area to eliminate the conflict.
39	
40	Traffic other than required construction equipment will not be permitted within the
41	protected work area unless allowed by the Engineer. To prevent contamination, all
42	equipment allowed within the protected work area shall be equipped with drip guards.
43	
44	6-23.3(9)C Final Surface Preparation
45	Following the completion of all Type 1 and Type 2 Deck Repairs (including placement
46	and curing of patches in Type 2 Deck Repair areas), the entire lane or strip being
47	overlaid shall undergo final cleaning. Final cleaning shall be accomplished in one
48	shift and consists of the following, in the sequence shown:
49	
50	1. Remove grease, slurry, oils, paint, dirt, striping, cure compound, rust,
51	membrane, milling slurry, weak surface mortar or any other contaminants

1		that could interfere with the proper adhesion of the overlay system. These
2		materials shall be removed by abrasive blasting.
3		
4	<u>2.</u>	All steel surfaces that will be in contact with the overlay shall be cleaned in
5		accordance with SSPC-SP No. 10, Near-White Blast Cleaning, except that
6		wet blasting methods shall not be allowed.
7		
8	<u>3.</u>	Remove loose or trapped particles using magnets and vacuuming. Vacuum
9		shall be capable of collecting all remaining dust, concrete chips, and other
10		debris to the extent necessary to ensure the oil-free compressed air in the
11		next step complies with environmental requirements.
12		
13	4.	Oil-free compressed air shall be used as the final step to remove all
14		remaining dust and debris.
15	_	
16	<u>5.</u>	Cleaned surfaces shall not be exposed to Contractor or public vehicular
17		traffic. If the deck becomes contaminated before placing the overlay, the
18		Contractor shall shotblast or sandblast the contaminated areas to the
19		satisfaction of the Engineer at no additional cost to the Contracting Agency.
20	0	The Original shell and de criteble errorients (c. n. because dute darm
21	<u>6.</u>	The Contractor shall provide suitable coverings (e.g. heavy duty drop
22		cloths) as needed to protect all exposed areas not to receive primer and
23		overlay, such as curbs, sidewalks, parapets, etc. All damage or defacement
24 25		resulting from this application shall be cleaned and/or repaired to the
25		Engineer's satisfaction at no additional cost.
20		
27	6 22 2/0	ND Overlay Einiching Equipment Setup
27		D Overlay Finishing Equipment Setup
28	Construc	tion joints between passes shall be within 1 foot of the stripe lines or
28 29	Construc	
28 29 30	Construc centered	tion joints between passes shall be within 1 foot of the stripe lines or within a lane.
28 29 30 31	Construct centered When gra	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a
28 29 30 31 32	Construct centered When gravity vibrating	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the
28 29 30 31 32 33	Construct centered When gra vibrating area to b	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted.
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28 29 30 31 32 33 34 35 36	Construct centered When gravibrating area to b Hold-dow provided	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. vn devices of other types leaving holes in the exposed area will be allowed
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28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Construct centered When gravity vibrating area to h Hold-dow provided devices s 6-23.3(9) All accep provided Engineer interests tests: 1.	 tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. In devices of other types leaving holes in the exposed area will be allowed the holes are subsequently filled with polyester concrete. Hold-down shall not penetrate the existing deck by more than ³/₄ inch. DE Quality Assurance for Polyester Concrete Overlay ptance testing shall be performed by an independent testing laboratory by the Contractor, in the presence of the Engineer's representative. The reserves the right to self-perform any acceptance tests it deems in its best. The Contractor's independent testing laboratory shall perform the following
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Construct centered When gravity vibrating area to h Hold-dow provided devices s 6-23.3(9) All accep provided Engineer interests tests: 1.	 tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. Yn devices of other types leaving holes in the exposed area will be allowed the holes are subsequently filled with polyester concrete. Hold-down shall not penetrate the existing deck by more than ³/₄ inch. DE Quality Assurance for Polyester Concrete Overlay potence testing shall be performed by an independent testing laboratory by the Contractor, in the presence of the Engineer's representative. The reserves the right to self-perform any acceptance tests it deems in its best. The Contractor's independent testing laboratory shall perform the following
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Construct centered When gravity vibrating area to h Hold-dow provided devices s 6-23.3(9) All accep provided Engineer interests tests: 1.	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. In devices of other types leaving holes in the exposed area will be allowed the holes are subsequently filled with polyester concrete. Hold-down shall not penetrate the existing deck by more than ¾ inch. E Quality Assurance for Polyester Concrete Overlay plance testing shall be performed by an independent testing laboratory by the Contractor, in the presence of the Engineer's representative. The reserves the right to self-perform any acceptance tests it deems in its best. The Contractor's independent testing laboratory shall perform the following Moisture content of polyester concrete aggregate and sand for abrasive finish.
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Construct centered When graviting area to b Hold-dow provided devices s 6-23.3(9) All accept provided Engineer interests. tests:	 tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. In devices of other types leaving holes in the exposed area will be allowed the holes are subsequently filled with polyester concrete. Hold-down shall not penetrate the existing deck by more than ³/₄ inch. DE Quality Assurance for Polyester Concrete Overlay ptance testing shall be performed by an independent testing laboratory by the Contractor, in the presence of the Engineer's representative. The reserves the right to self-perform any acceptance tests it deems in its best. The Contractor's independent testing laboratory shall perform the following
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Construct centered When gravity vibrating area to h Hold-dow provided devices s 6-23.3(9) All accept provided Engineer interests tests: 1. 2.	tion joints between passes shall be within 1 foot of the stripe lines or within a lane. ade will be established for a paving machine from a paving wire, or when a screed is allowed, grade pins and screed rails shall be placed outside the be overlaid. Hold-down devices shot into the concrete are not permitted. In devices of other types leaving holes in the exposed area will be allowed the holes are subsequently filled with polyester concrete. Hold-down shall not penetrate the existing deck by more than ¾ inch. E Quality Assurance for Polyester Concrete Overlay plance testing shall be performed by an independent testing laboratory by the Contractor, in the presence of the Engineer's representative. The reserves the right to self-perform any acceptance tests it deems in its best. The Contractor's independent testing laboratory shall perform the following Moisture content of polyester concrete aggregate and sand for abrasive finish.

1	4. Smoothness quality testing.
2 3	5. Sounding using ASTM D4580, Method B.
4 5	6 Direct Tension Rend Testing ASTM C1583
6	6. Direct Tension Bond Testing, ASTM C1583.
7	The Contractor shall arrange to have the System Provider Technical Representative
8	furnish technical service relating to application of material and health and safety
9	training for personnel who are to handle the polyester concrete and the primer, at the
10	following times:
11 12	1 At the proposition conference
12	1. At the pre-paving conference.
14	2. During the trial overlay.
15	<u>Li Banng no naroronaji</u>
16	3. During paving machine setup.
17	
18	During a minimum of the first two days of paving.
19	
20	6-23.3(9)F Moisture and Temperature Requirements
21	It is critically important for the long-term performance of the polyester concrete
22 23	system that the concrete substrate and all other surfaces (primer and polyester
23 24	overlay) be (1) at the proper temperature and (2) moisture-free. Unless otherwise
24 25	noted below, the time period for these requirements begins with the start of applying
25	primer and ends two hours after placing the polyester overlay and sand for abrasive finish. Therefore, the following requirements for temperature and moisture shall be
20	strictly enforced. Failure to follow these requirements may result in removal and
28	replacement of the polyester concrete system at no additional expense to the
29	Contracting Agency.
30	<u>oonaddaily i gonoj.</u>
31	1. During the 24-hour period immediately preceding start of primer placement,
32	the area of bridge deck to receive primer shall not be exposed to moisture
33	or water in any form. Additionally, during this 24-hour period, the concrete
34	substrate shall be exposed to the atmosphere to freely allow moisture to
35	evaporate. Covering the concrete substrate during this period with material
36	that will hinder evaporation in any way, such as visqueen, shall not be
37	allowed.
38	
39	Primer application shall not begin if rain is forecast any time between start
40	of primer application and 2 hours after the planned completion of polyester
41	concrete and sand for abrasive surface.
42	
43	3. Primer application shall not begin until after morning dew has evaporated.
44	
45	4. Before starting primer, the concrete substrate surface must be free of any
46	surface darkening that would indicate locations of previously standing
47	water. The entire concrete substrate surface must appear to be uniformly
48	light in color and show no further lightening when drying methods such as
49 50	blowing compressed air are applied. Cracks in the concrete substrate must
50	also be dry.

1	5. The concrete surface temperature shall be between 40°F (and rising) and
2	100°F. Night work may be required when temperatures cannot be met
3	during the day.
4	during the day.
5	6-23.3(9)G Primer Application
6	The primer placement shall start not more than 24 hours after the start of
7 8	sandblasting operations in Final Surface Preparation.
	In the interim between completion of final surface preparation described in Castion
9	In the interim between completion of final surface preparation described in Section
10	6-23.3(9)C of this Special Provision and applying the primer, any contaminants that
11	have accumulated which could interfere with the proper adhesion of the overlay
12	system shall be removed to the satisfaction of the Engineer. Immediately prior to
13	applying the primer, the surface receiving the primer shall be blown off with oil free
14	and moisture free compressed air to remove accumulated dust and any other loose
15	material.
16	
17	After the exposed surfaces have been prepared and are dry, primer shall be applied
18	in accordance with the System Provider Technical Representative's
19	recommendations. Primer shall be placed within 5 minutes of mixing at approximately
20	<u>90 sf/gal or the rate that provides substrate saturation acceptable to the Engineer.</u>
21	
22	Primer shall be applied by flooding and uniformly spread to completely cover
23	surfaces to receive overlay. Care shall be taken to avoid heavy application that
24	results in excess puddling. Excess material shall be removed or distributed to meet
25	the required saturation without excessive puddling. Primer shall be reapplied to any
26	areas that appear dry 15 minutes after primer placement, prior to overlay placement.
27	
28	The prepared concrete surface shall receive one coat of promoted/initiated primer.
29	The promoted/initiated primer shall be worked into the concrete in a manner to effect
30	complete coverage of the area. A one-pint sample of each batch of promoted/initiated
31	primer shall be retained and submitted to the Engineer at the time of primer
32	application to verify proper catalyzation.
33	
34	Under no circumstances shall resin be allowed to run into drains and expansion
35	joints, or otherwise escape the Contractor's collection and containment system.
36	
37	If the primed surface becomes contaminated, the contaminated area shall be cleaned
38	by abrasive blasting and reprimed at no additional expense to the Contracting
39	Agency. The primer shall cure for a minimum of 30 minutes before placing the
40	polyester concrete overlay.
41	
42	6-23.3(9)H Mixing Polyester Concrete
43	Polyester concrete shall be mixed in volumetric mixers conforming to Section 6-
44	23.3(2)E of this Special Provision and in accordance with the mix design accepted
45	by the Engineer.
46	
47	At the time of mixing, the polyester concrete aggregate shall:
48	
49	1. Have a temperature between 45°F and 100°F.
50	
1	

1	2. Have a weighted-average moisture content, when tested under AASHTO
2	Test Method T255, of not more than one half of the weighted-average
3	aggregate absorption.
4	
5	The amount of peroxide initiator used shall result in a polyester concrete set time
6	between 30- and 120-minutes during placement as determined by California Test
7	551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay and
8	Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be required
9	as recommended by the polyester concrete binder supplier.
10	as recommended by the polyester concrete binder supplier.
11	The polyester concrete binder shall be initiated and thoroughly blended just prior to
12	mixing the polyester concrete aggregate and binder. The polyester concrete shall be
13	
	thoroughly mixed prior to placing.
14	C 22 2(0) Bloging Bolycotor Concrete
15	6-23.3(9) Placing Polyester Concrete
16	The polyester concrete overlay shall be placed, consolidated, and finished to the
17	profile grade and cross-section provided by the Engineer using a paving machine
18	meeting the requirements of Section 6-23.3(2)F of this Special Provision. The
19	Contractor shall perform a dry run with the paving machine before placing Polyester
20	Concrete. Based on the dry run, adjustments to the final grade may be allowed
21	provided minimum thickness requirements are met.
22	
23	The minimum thickness of polyester concrete overlay system shall be 3/4 inches,
24	measured from the top of the Polyester Overlay to the highest point of the shotblasted
25	concrete surface as shown in the Plans.
26	
27	Placement of the polyester concrete shall not proceed until the Engineer verifies that
28	the primer was properly promoted and initiated, as evidenced by the primer batch
29	sample.
30	
31	During overlay application, the Contractor shall provide suitable coverings (e.g.,
32	heavy duty drop cloths) as needed to protect all exposed areas not to receive overlay,
33	such as curbs, sidewalks, parapets, etc. All damage or defacement resulting from
34	this application shall be cleaned and/or repaired to the Engineer's satisfaction at no
35	additional cost.
36	
37	The polyester concrete shall be placed on the primer after 15 minutes and within 2
38	hours after the primer has been applied. The polyester concrete shall be placed prior
39	to gelling or 15 minutes following addition of initiator, whichever occurs first.
40	
41	Polyester concrete shall have an initial set time of at least 20 minutes and at most 90
42	minutes following resin catalyzation. The initial set time can be determined in the field
43	when the in-place polyester concrete cannot be deformed by pressing with a finger,
44	indicating that the resin binder is no longer in a liquid state. If the initial set is not
45	within 90 minutes of catalyzation, the material shall be removed and replaced at no
46	additional cost to the Contracting Agency.
47	additional cool to the Contracting Agency.
48	If, for any reason, polyester concrete is not placed over the primer within the two-
49	hour time limit, the Contractor shall apply a fresh coat of primer. Prior to applying the
49 50	polyester concrete overlay, the surface shall be re-cleaned in accordance with
51	Section 6-23.3(9)G of this Special Provision.
51	

1	
2	Expansion joints shall be protected from all polyester concrete overlay operations to
3	the satisfaction the Engineer. Saw cutting at bridge expansion joints shall not be
4	allowed. The surface temperature of the area receiving the polyester concrete shall
5	be the same as specified for the primer.
6	
7	6-23.3(10) Finishing Polyester Concrete
8	The finished surface of the polyester concrete overlay shall conform to the straight-edge
9	requirements of Section 6-23.3(15) of this Special Provision and the following:
10	
11	1. The polyester concrete shall be struck off, finished, and consolidated in
12	accordance with the profile grade and cross-section provided by the Engineer
13	with adjustments allowed in Section 6-23.3(9)I of this Special Provision.
14	
15	2. Binder content shall be as specified in Section 6-23.2(1)B of this Special
16	Provision and yield a polyester concrete consistency that requires surface
17	applied consolidation and finishing to consolidate the polyester concrete and
18	yield a slight sheen of bleed binder on top surface yet does not yield excess
19	bleed binder.
20	
21	3. Although the paver should yield a finished surface, additional finishing may be
22	necessary. Hand finishing of seam area between passes shall produce a
23	consistent surface across the junction of the placements. Polyester concrete
24	shall be finished as necessary through traditional concrete finishing methods,
25	producing a smooth surface, with slight resin sheen indicating complete
26	consolidation of aggregates. Polyester concrete patches shall be finished by
27	traditional concrete hand finishing methods.
28	6 22 2/44) Sand far Abraaiya Finiah
29	6-23.3(11) Sand for Abrasive Finish
30	The polyester concrete overlay shall receive an abrasive finish using sand as specified.
31	The abrasive finish shall be applied immediately after overlay strike-off and before gelling
32	occurs. Where spring tining is allowed, the tining shall be performed after sufficient sand
33 34	broadcast.
35	At the time of application on the polyester concrete, the moisture content of the sand for
36	abrasive finish shall not exceed 0.5 percent.
37	abrasive linish shall not exceed 0.5 percent.
38	At least 2.2 lbs. per square yard shall be applied evenly to refusal by hand broadcasting
39	onto the glossy surface immediately after sufficient finishing and before resin gelling
40	occurs. To ensure adequate pavement friction, the completed polyester concrete overlay
41	surface (including the sand for abrasive finish) shall be free of any smooth or "glassy"
42	areas such as those resulting from insufficient quantities of surface aggregate. Any such
43	surface defects shall be repaired by the Contractor in the manner recommended by the
44	System Provider Technical Representative and approved by the Engineer at no additional
45	cost to the Contracting Agency.
46	
47	6-23.3(12) Curing Polyester Concrete
48	The polyester concrete overlay shall be cured in accordance with the manufacturer's
49	recommendations. Protect the overlay from moisture, traffic, and equipment for at least 2
50	hours after final finishing. The Engineer may extend protection time if sufficient strength
	or adhesion is not achieved. The in-place material must achieve test reading from a
51	of adhesion is not achieved. The in-place material must achieve test reading from a

1	calibrated Schmidt Hammer of at least 3,000 psi within four hours after final finishing, and
2	before traffic or equipment is allowed on the overlay. Proper cure rate necessary to
3	achieve sufficient initial and final strength depends on proper initiator/accelerator levels
4	to account for field conditions such as ambient and substrate temperatures.
5	
6	The Contractor shall measure the compressive strength of the cured polyester concrete
7	overlay with a rebound hammer in accordance with ASTM C805. The readings of the
8	rebound hammer used shall be correlated to the compressive strength of the polyester
9	concrete product in accordance with ASTM C805 Section 5.4 and the Contractor shall
10	submit a Type 1 Working Drawing of this correlation.
11	
12	Traffic and equipment shall not be permitted on the polyester concrete overlay for at least
13	four hours and until the polyester overlay has reached a minimum compressive strength
14	of 3,000 psi based on the rebound hammer readings and the correlation chart for the
15	rebound hammer used.
16	
17	Areas in the polyester concrete that do not totally cure, or that fail to attain the minimum
18	compressive strength specified above, shall have the deficiencies addressed in
19	accordance with Section 1-05.7.
20	
21	The Contractor shall prevent any cleaning chemicals from reaching the polyester mix
22	during the overlay applications.
23	
24	6-23.3(13) Checking Polyester Concrete for Bond
25	6-23.3(13)A Sounding
26	After the requirements for curing have been met, the entire overlay surface shall be
26 27	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the
26 27 28	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination
26 27 28 29	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination shall be removed and replaced at no additional expense to the Contracting Agency.
26 27 28 29 30	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination shall be removed and replaced at no additional expense to the Contracting Agency. Extensive unbonded areas may be grounds for rejection of the entire installation if
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26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 5 46	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination shall be removed and replaced at no additional expense to the Contracting Agency. Extensive unbonded areas may be grounds for rejection of the entire installation if ordered by the Engineer. 6-23.3(13)B Direct Tension Bond Testing Vertical axis adhesion tests shall be performed not more than 24 hours after the placement of the Polyester concrete overlay by an independent testing company, arranged by the Contractor, in accordance with ASTM C1583, cost to be included in polyester concrete Overlay Placement item. At a minimum, two adhesion tests, at randomly selected locations, shall be performed on the first bridge and Trial Overlay. For bridges with deck areas greater than 25,000 square feet, or multiple bridge projects, additional tests shall be performed at a frequency of one test per 25,000 square feet of additional deck area, if required by the Engineer. If substrate and surface preparation remain consistent and sufficient, a single test set may be sufficient and subsequent tests may be waived if allowed by the Engineer. Additional testing may be required as directed by the Engineer if any element of the substrate,
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26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination shall be removed and replaced at no additional expense to the Contracting Agency. Extensive unbonded areas may be grounds for rejection of the entire installation if ordered by the Engineer. 6-23.3(13)B Direct Tension Bond Testing Vertical axis adhesion tests shall be performed not more than 24 hours after the placement of the Polyester concrete overlay by an independent testing company, arranged by the Contractor, in accordance with ASTM C1583, cost to be included in polyester concrete Overlay Placement item. At a minimum, two adhesion tests, at randomly selected locations, shall be performed on the first bridge and Trial Overlay. For bridges with deck areas greater than 25,000 square feet, or multiple bridge projects, additional tests shall be performed at a frequency of one test per 25,000 square feet of additional deck area, if required by the Engineer. If substrate and surface preparation remain consistent and sufficient, a single test set may be sufficient and subsequent tests may be waived if allowed by the Engineer. Additional testing may be required as directed by the Engineer if any element of the substrate, surface prep, polyester concrete overlay system, or placement changes after initial testing. Test cores shall be drilled a minimum of 0.25" but no greater than 0.50" below the
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	After the requirements for curing have been met, the entire overlay surface shall be inspected by the Contractor's independent testing entity, in the presence of the Engineer, in accordance with ASTM D4580, Method B. Any areas of delamination shall be removed and replaced at no additional expense to the Contracting Agency. Extensive unbonded areas may be grounds for rejection of the entire installation if ordered by the Engineer. 6-23.3(13)B Direct Tension Bond Testing Vertical axis adhesion tests shall be performed not more than 24 hours after the placement of the Polyester concrete overlay by an independent testing company, arranged by the Contractor, in accordance with ASTM C1583, cost to be included in polyester concrete Overlay Placement item. At a minimum, two adhesion tests, at randomly selected locations, shall be performed on the first bridge and Trial Overlay. For bridges with deck areas greater than 25,000 square feet, or multiple bridge projects, additional tests shall be performed at a frequency of one test per 25,000 square feet of additional deck area, if required by the Engineer. If substrate and surface preparation remain consistent and sufficient, a single test set may be sufficient and subsequent tests may be waived if allowed by the Engineer. Additional testing may be required as directed by the Engineer if any element of the substrate, surface prep, polyester concrete overlay system, or placement changes after initial testing.

1 The minimum bond strength of the polyester concrete overlay system on normal 2 weight concrete shall be 250 psi. An acceptable test will demonstrate that the overlay 3 bond strength is sufficient by producing a concrete subsurface failure area greater 4 than 50% of the test surface area ("type a" per test method). Failure at the epoxy/overlay interface ("type d" per test method) is also acceptable provided the 5 6 failure occurs at not less than 250 psi. The Contractor shall repair all bond test 7 locations with polyester concrete overlay in accordance with this Special Provision. 8 9 6-23.3(14) Crack Sealing Polyester Concrete If cracks appear in the overlay after a significant cure period, they shall be filled with 10 11 properly catalyzed and mixed HMWM primer material. Care shall be taken to fill the cracks 12 only, and ensure minimal primer is left on the finished surface of the overlay. 13 14 If cracking is extensive, yet no other defects exist, the area shall be shot blast cleaned 15 and flood coated with properly catalyzed and mixed crack sealer followed by broadcasting 16 sand meeting the requirements for sand for abrasive finish. 17 18 6-23.3(15) Surface Smoothness After crack sealing is complete, the Contractor shall test the entire deck/slab for flatness 19 20 (allowing for crown, camber, and vertical curvature). The testing shall be done with a 10-21 foot straightedge held on the surface. The straightedge shall be advanced in successive 22 positions parallel to the centerline, moving not more than one half the length of the 23 straightedge each time it advances. This procedure shall be repeated with the 24 straightedge held perpendicular to the centerline. An acceptable surface shall be both (1) 25 free from deviations of more than ¹/₈-inch under the 10-foot straightedge, and (2) free from 26 cyclical/repetitive vertical deviations greater than $\frac{1}{16}$ ". 27 28 If smoothness testing identifies areas that deviate from the smoothness requirements, the 29 Contractor shall grind these down with a diamond grinder meeting the requirements of 30 Section 6-23.3(2)G of this Special Provision. Prior to diamond grinding, areas showing 31 low spots of more than 1/4 inch in 10 feet shall be marked and prepared with shot blasting 32 or sandblasting, primed, and filled with either catalyzed resin and broadcast sand or mixed 33 polyester concrete slurry material if ordered by the Engineer. The use of resin or mixed 34 slurry material shall be as recommended by the System Provider Technical 35 Representative and approved by the Engineer. Grinding removal of the fill area boundary 36 may be required if directed by the Engineer. Retesting and refinishing shall continue until 37 a surface conforming to the requirements specified above is produced. The grinding depth 38 of high areas after initial finishing shall not exceed 1/4 inch. 39 40 6-23.3(16) Texturing Polyester Concrete After the Contractor has completed all work required to meet the requirements for surface 41 42 smoothness, the polyester concrete overlay surface shall receive a longitudinally sawn 43 texture using equipment as described in Section 6-23.3(2)H of this Special Provision. The Contractor shall texture the bridge deck surface to within 3-inches minimum and 12-44 45 inches maximum of the edge of concrete at expansion joints, within 1-foot minimum and 2-feet maximum of the curb line, and within 3-inches minimum and 9-inches maximum of 46 47 the perimeter of bridge drain assemblies. 48 49 The Contractor shall contain and collect all concrete dust and debris generated by the 50 bridge deck texturing process and shall dispose of the collected concrete dust and debris 51 in accordance with its Debris Containment and Disposal Plan.

1	
2	After texturing polyester concrete surface, the Engineer shall test the surface texture of
3	polyester concrete for uniformity and it shall have a skid number (SN) of not less than 35
4	as determined by ASTM E 274.
5	6.22.2(17) Depletement of Defective Overlay
6	<u>6-23.3(17) Replacement of Defective Overlay</u>
7	A defective overlay, or portion thereof, as evidenced by insufficient strength, lack of sound
8	bond to substrate, or failing overlay adhesion test results shall be removed and replaced
9	at the Contractor's expense. The Contractor shall submit a written corrective action plan
10	to the Engineer, which shall include the methods and procedures that will be used. The
11	Contractor shall not commence corrective work until the methods and procedures have
12	been approved in writing by the Engineer. The Engineer's approval shall not relieve the
13	Contractor of the responsibility of producing work in conformity with the Contract.
14	C 00 0/40) On an inter to Traffic
15	<u>6-23.3(18) Opening to Traffic</u>
16	Prior to opening the overlay area to vehicular traffic, the finished overlay shall be power
17	swept to remove excess loose aggregate and loose sand for abrasive finish. The
18	Contractor shall demonstrate to the satisfaction of the Engineer that the power broom
19	equipment will not damage the finished overlay. Damage to the finished overlay caused
20	by the power broom shall be repaired at no additional expense to the Contracting Agency.
21	
22	6-23.4 Measurement
23	Shotblasting concrete surface will be measured by the square yard of surface shotblasted.
24	Time 4 Deals Densis and Time 4 Deals Densis will be used as much be the amount fact of conferen
25	Type 1 Deck Repair and Type 2 Deck Repair will be measured by the square foot of surface
26	area of deck concrete removed in accordance with Section 6-23.3(7) of this Special Provision.
27	Determination of whether a deck repair is Type 1 or Type 2 shall be in accordance with Section
28	<u>6-23.3(7) of this Special Provision.</u>
29	Debugster concrete eventeer will be received by the environe word of eventeer confect controlly
30	Polyester concrete overlay will be measured by the square yard of overlay surface actually
31	placed.
32	6.02.5 Dovement
33	6-23.5 Payment
34	Payment will be made for each of the following Bid Items that are included in the Bid Proposal:
35	"Our service of the Data set of Our service "I there are service
36	<u>"Surveying for Polyester Concrete Overlay", lump sum.</u>
37	The lump sum contract price for "Surveying for Polyester Concrete Overlay" shall be full
38	pay to perform the Work as specified, including establishing secondary survey control
39	points, performing survey quality control, and recording, compiling, and submitting the
40	survey records to the Engineer, and all other surveying required to complete the polyester
41	<u>concrete overlay.</u>
42	
43	<u>"Type 1 Deck Repair", per square foot.</u>
44	The unit contract price per square foot for Type 1 Deck Repair shall be full pay for
45	performing the Work as specified, including excavating and disposing concrete and
46	nonconcrete materials, and repair of concrete or rebar damaged by the Contractor's
47	operations.
48	"Toma O Daala Damain", management faat
49	<u>"Type 2 Deck Repair", per square foot.</u>
50	The unit contract price per square foot for Type 2 Deck Repair shall be full pay for
51	performing the Work as specified, including; excavating and disposing concrete;

1	sandblasting; placing, consolidating, finishing, and curing concrete patches in Type 2				
2	deck repairs; repair of concrete or rebar damaged by the Contractor's operations.				
3					
4	<u>"Polyester Concrete Trial Overlay", lump sum.</u>				
5	The lump sum contract price for "Polyester Concrete Trial Overlay" shall be full pay for				
6	performing the Work as specified, including establishing a location for the trial overlay,				
7	construction, removal, and disposal of the concrete pad and trial overlay.				
8					
9	<u>"Polyester Concrete Overlay", per square yard.</u>				
10	The unit contract price per square yard for "Polyester Concrete Overlay" shall be full pay				
11	for performing the Work as specified, including dry run, initial surface preparation, final				
12	surface preparation, placing primer, placing, finishing, and curing the overlay, placing				
13	sand for abrasive finish, sounding, direct tension bond testing, meeting surface				
14	smoothness requirements, texturing, crack sealing, and replacement of defective overlay.				
15	Polyester concrete overlay placed in excess of the thickness specified in the Plans due				
16	to surface irregularities in the bridge deck such as rutting or excess concrete surface				
17	shotblasting shall be considered incidental to the unit Contract price per square yard for				
18	<u>"Polyester Concrete Overlay".</u>				
19					
20	Payment for the following shall be considered incidental to and included in the unit contract				
21	items included in the Contract:				
22					
23	1. All Work and related costs for implementing the debris containment and disposal				
24	<u>plan.</u>				
25					
26	All Work and related costs for protecting adjacent traffic from flying debris.				
27					
28	All Work and related costs for managing and disposing of process wastewater.				
29					
30	<u>4. Submittals.</u>				

1	DIVISION8.GR8	Miscellaneous Construction				
2 3 4	8-01.GR8	Erosion Cor	ntrol and	d Water Pollution Control		
5	8-01.2.GR8	Materia	als			
6 7 8 9	8-01.2(9-14.€		ection 9-	ms) 14.6(4) is revised to read) preceding the following:		
10 11 12 13 14 15	8-01.2	(9-14.6(4)A).O	(Fe t	25.GR8 (No Wattles in Check Dams) oruary 13, 2024) in all projects that require or may require check is.		
16 17	8-01.3.GR8	Constr	uction I	Requirements		
18 19	8-01.3(1).GR	8 Ge	eneral			
20 21 22	8-01.3(1).I		read)	hth paragraph of Section 8-01.3(1) is revised to e once preceding any of the following:		
23 24 25 26 27 28 29 30 31	8-01.3	(1).OPT1.GR8	(Jan Use rece use rece See	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 ive more than 12 inches of annual precipitation. https://wsdot.wa.gov/engineering- dards/design-topics/hydraulics-hydrology.		
32 33 34 35	8-01.3(1).I			a 8-01.3(1) is supplemented with the following) e once preceding any of the following:		
33 36 37 38 39 40 41 42 43 44	8-01.3	(1).OPT8.FR8	(Apr Use and walk acco	omplished, in accordance with recommendation environmental office.		
44 45 46	8-01.3(1)E	B.GR8	Erosior	and Sediment Control (ESC) Lead		
47 48 49 50	8-01.3	(1)B.INST1.GF	Sec	n number 3 and 4 in the second paragraph of tion 8-01.3(1)B are revised to read) t use once preceding any of the following:		
50 51 52 53 54	8-0	1.3(1)B.OPT1	.GR8	(October 3, 2022) Use on projects without a CSWGP that require an ESC lead.		

1	8-01.3(1)C.GR8	Water N	Management
2 3	8-01.3(1)C4.GR8	Mar	nagement of Off-Site Water
4 5 6 7	8-01.3(1)C4.INST1	follo	ction 8-01.3(1)C4 is supplemented with the owing) st use once preceding any of the following:
8			
9	8-01.3(1)C4.OF	2T1.FR8	(Off-site stormwater routed through or around
10			Project site)
11			(August 6, 2012)
12 13			Use when there are known locations where
13 14			stormwater enters the project site and it is desired to prevent this stormwater from flowing
15			uncontrolled through the project site.
16			(1 fill-in)
17			
18	8-01.3(2).GR8 1	Temporar	y Seeding and Mulching
19		•	
20	8-01.3(2)B.GR8	Tempo	rary Seeding
21		/-	
22	8-01.3(2)B.INST1.0	· ·	ction 8-01.3(2)B is supplemented with the
23			owing)
24		Mus	st use once preceding any of the following:
25 26	8-01.3(2)B.OPT		(Composition, proportion, quality and application
20 27	0-01.3(2)B.OF1	1.1 1.0	rate of grass seed)
28			(August 4, 2014)
29			Use on projects where a common, non-native or
30			non-source-identified seed can be used. This
31			mix will generally be used within urban areas on
32			small areas of disturbance. The fill-ins for the
33			seed should be provided by the Region
34			Landscape Architect or Headquarters Roadside
35			and Site Development for regions without a
36 37			Landscape Architect.
38			(2 fill-ins) (Fill-ins with dollar signs only are to be used as required)
39			used as required)
40	8-01.3(2)B.OPT	2.FR8	(Composition, proportion, quality and
41	•••••(=)=••••		application rate of grass seed)
42			(August 4, 2014)
43			Use in projects where the Region Landscape
44			Architect recommends source identified (local
45			genetics) native seed. The fill-ins should be
46			provided by the Region Landscape Architect or
47			Headquarters Roadside and Site Development
48			for regions without a Landscape Architect.
49 50			(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)
50 51			
52	8-01.3(2)B.OPT	3.GR8	(Seeding by hand)
53			(September 3, 2019)

1 2 3 4 5			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.
5 6 7 8 9	8-01.3(2)B	.OPT4.FR8	(One application of fertilizer) (January 3, 2006) Use in projects requiring only one application of fertilizer.
10 11 12 13 14 15 16			(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\$\$.)
17 18	8-01.3(2)B	.OPT8.FR8	(Composition, proportion, quality and application rate of grass seed)
19 20 21 22			(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
23 24 25			by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
26 27			(3 fill-ins)
28	8-01.3(2)D.GR8	Temp	orary Mulching
29			
30	8-01.3(2)D.IN	ST1.GR8 (S	
30 31	8-01.3(2)D.IN	fo	Section 8-01.3(2)D is supplemented with the llowing)
31 32	8-01.3(2)D.IN	fo	Section 8-01.3(2)D is supplemented with the
31 32 33		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following:
31 32 33 34		fo	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (Type and rate of application of mulch)
31 32 33 34 35 36		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (Type and rate of application of mulch) (January 5, 2015) Use in projects requiring the application of mulch
31 32 33 34 35 36 37		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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
31 32 33 34 35 36 37 38		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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
31 32 33 34 35 36 37 38 39		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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.
31 32 33 34 35 36 37 38 39 40		fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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
31 32 33 34 35 36 37 38 39	8-01.3(2)D	fo M	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
 31 32 33 34 35 36 37 38 39 40 41 42 43 	8-01.3(2)D 8-01.3(6).GR8	fo M 0.OPT1.FR8 —— Check I	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 	8-01.3(2)D 8-01.3(6).GR8	fo M OPT1.FR8 Check I SR8 (The	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 	8-01.3(2)D 8-01.3(6).GR8	fo M OPT1.FR8 	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 	8-01.3(2)D 8-01.3(6).GR8	fo M OPT1.FR8 	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 	8-01.3(2)D 8-01.3(6).GR8 <u>8-01.3(6).INST1.C</u>	fo M D.OPT1.FR8 Check I GR8 (The revise Must	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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)
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	8-01.3(2)D 8-01.3(6).GR8 <u>8-01.3(6).INST1.C</u>	fo M D.OPT1.FR8 Check I SR8 (The revise Must 1.2025.GR8 (F	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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) Dams Second and third paragraphs of Section 8-01.3(6) are ed to read) use once preceding any of the following: (No Wattles in Check Dams) February 13, 2024)
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 950	8-01.3(2)D 8-01.3(6).GR8 <u>8-01.3(6).INST1.C</u>	fo M D.OPT1.FR8 Check I GR8 (The revise Must 1.2025.GR8 (F U	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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) Dams Second and third paragraphs of Section 8-01.3(6) are ed to read) use once preceding any of the following: (No Wattles in Check Dams) February 13, 2024) se in all projects that require or may require check
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	8-01.3(2)D 8-01.3(6).GR8 <u>8-01.3(6).INST1.C</u>	fo M D.OPT1.FR8 Check I GR8 (The revise Must 1.2025.GR8 (F U	Section 8-01.3(2)D is supplemented with the llowing) ust use once preceding any of the following: (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) Dams Second and third paragraphs of Section 8-01.3(6) are ed to read) use once preceding any of the following: (No Wattles in Check Dams) February 13, 2024)

1 2	8-02.1.GR8	Description
2 3 4 5	8-02.1.INST1.GF	R8 (Section 8-02.1 is supplemented with the following) Must use once preceding any of the following:
6 7 8 9 10 11 12 13 14	8-02.1.OPT1.	GR8 (Removal of Buried Previously Fabricated Debris) (August 4, 2014) Use on projects that include soil amendment, and/or irrigation systems, and where previously fabricated construction debris is known or suspected to exist. Requires the approval of the Region Construction Manager. Must include 8-02.3(5).OPT4.GR8 and 8- 02.5.OPT2.GR8 .
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8-02.1.OPT2.	 GR8 (Biotic Soil Amendments) (April 1, 2019) Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect. Must also use 8-02.2.OPT2.GR8, 8-02.3.OPT1.GR8, 8- 02.4.OPT2.GR8, and 8-02.5.OPT4.FR8.
29	8-02.2.GR8	Materials
30 31 32 33	8-02.2.INST1.GF	R8 (Section 8-02.2 is supplemented with the following) Must use once preceding the following:
34 35 36 37 38 39	8-02.2.OPT1.	 GR8 (Conservation Grade Plant Material) (January 3, 2011) Use in projects that include "conservation grade" plant material in the plant list. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	8-02.2.OPT2.	 GR8 (Biotic Soil Amendments) (April 1, 2019) Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect. Must also use 8-02.1.OPT2.GR8, 8-02.3.OPT1.GR8, 8- 02.4.OPT2.GR8, and 8-02.5.OPT4.FR8.

1	8-02.2(9-14).GR8	(Erosion C	Control and Roadside Planting)
2 3 4 5	8-02.2(9-14).INST		n 9-14 is supplemented with the following) se once preceding the following:
2 3 4 5 6 7 8 9 10 11	8-02.2(9-14).C	(Ja Use (1 f Cor	eed Barrier Mats) nuary 3, 2011) e in projects requiring weed barrier mats. ill-in) Fill-in is the staple length. ntact the Region Landscape Architect or HQ Region son Landscape Architect for fill-in information.
12 13	8-02.2(9-14.2)	.GR8 (To	psoil)
14 15 16 17 18	8-02.2(9-1	4.2(1)).GR8	(Topsoil Type A) (Section 9-14.1(1) is supplemented with the following) Must use once preceding any of the following:
19 20 21 22 23 24 25 26 27	8-02.2	′9-14.2(1)).OP	 T1.FR8(February 25, 2021) For use on projects where Topsoil Type A is needed for stormwater BMPs and for plant growth and establishment. Contact the Landscape Architect for fill-ins and depth of application. (4 fill-ins)
28	8-02.2(9-14.5)	.GR8 (Mu	llch and Amendments)
29 30 31 32 33 34	8-02.2(9-1	4.5(8)).GR8	(Compost) (Section 9-14.5(8) is supplemented with the following) Must use once preceding any of the following:
35 36 37 38 39	8-02.2	(9-14.5(8)).OP	T2.GR8 (September 3, 2019) May be used to allow biosolids compost on projects that do not use compost on stormwater BMPs. Use with concurrence of the Hydraulics Engineer.
40 41	8-02.3.GR8	Construction	Requirements
42 43 44 45	8-02.3.INST1.GR8		8-02.3 is supplemented with the following) once preceding any of the following:
45 46 47 48 49 50 51 52 53	8-02.3.OPT1.GR8	(April 1 Use on lack of Biotic S the soil soil or	Soil Amendments) , 2019) projects to amend poor quality soils (which have a organic matter and little to no bioactivity) using Soil Amendments (BSAs). Should only be used if I is determined to be deficient from the results of a ganic matter test or the soil analysis and the tion of compost or topsoil is not possible due to

I

1 2 3 4 5 6 7		Re La Mu	epness or access. Use requires the approval of the egion Landscape Architect or the HQ Region Liaison ndscape Architect. Ist also use 8-02.1.OPT2.GR8 , 8-02.2.OPT2.GR8 , 8-
	8-02.3(4).GR8	Tops	oil
8 9	8-02.3(4)A.GR8	То	psoil Type A
10 11	8-02.3(4)A.INST1.	GR8	(Section 8-02.3(4)A is supplemented with the
12	0 02.0(1)/		following)
13 14			Must use once preceding any of the following:
15	8-02.3(4)A.OP	'T1.FF	
16 17			(August 3, 2015) Must include with 8-02.2(9-14.2(1)).OPT1.FR8.
18 19	8-02.3(5).GR8	Poad	side Seeding, Lawn and Planting Area Preparation
20	0-02.3(5).GR0	Nuau	Side Seeding, Lawit and Flanting Area Freparation
21 22	8-02.3(5).INST1.GR8		ection 8-02.3(5) is supplemented with the following) ust use once preceding any of the following:
23		IVIC	as use once preceding any of the following.
24	8-02.3(5).OPT1.F	R8	(Application of Compost)
25 26			(August 5, 2013) Include when no incorporation of compost is required.
27			(1 fill-in)
28		Ba	
29 30	8-02.3(5).OPT2.F	K8	(Application of Compost) (August 5, 2013)
31			Include when compost is to be incorporated into the
32			soil and irrigation lines are included in the Contract.
33 34			(2 fill-ins)
35	8-02.3(5).OPT3.FI	R8	(Application of Compost)
36			(August 5, 2013)
37 38			Include when compost is to be incorporated onto the soil and there are no irrigation lines included in the
39			Contract.
40			(2 fill-ins).
41 42	8-02.3(5).OPT4.G	R	(Removal of Buried Previously Fabricated Debris)
43	0-02.3(3).01 14.0	I NO	(August 4, 2014)
44			Must include with 8-02.1.OPT1.GR8 and 8-
45 46			02.5.OPT2.GR8.
47	8-02.3(6).GR8	Mulc	h and Amendments
48 49		Ea	rtilizers
49 50	8-02.3(6)B.GR8	ге	1 (1112 5)
51	8-02.3(6)B.INST1	.GR8	
52 53			following) Must use once preceding any of the following:
53 54			must use once preceding any or the following.

1 2 3 4 5 6 7 8 9 10	8-02.3(6)B.OPT1.FR		 (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\$\$.)
11 12 13 14 15 16 17 18 19 20 21 22	8-02.3(6)B.OPT2.FR8		 (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\$\$.)
22 23 24 25 26 27 28 29 30	8-02.3(6)B.OPT	3.GR8	(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.
31 32 33 34 35	8-02.3(6)B.OPT	4.FR8	(Fertilizer Application in Eastern Washington) (September 3, 2019) Use this GSP for projects in eastern Washington where soils tests show excess potassium and phosphorous and high pH.
36 37	8-02.3(8).GR8 P	lanting	
38 39 40 41	8-02.3(8).INST1.GR8		n 8-02.3(8) is supplemented with the following) e once preceding any of the following:
42 43 44 45 46 47	8-02.3(8).OPT1.FR	Mus of Envi	bruary 25, 2013) t use when the project requires a U.S. Army Corps Engineers Nationwide Permit. Use the ironmental Commitment Meeting to determine icability of this provision for the project. I-in)
48 49	8-02.3(9).GR8 S	eeding, F	Fertilizing, and Mulching
50 51	8-02.3(9)B.GR8	Seeding	g and Fertilizing
52 53 54	8-02.3(9)B.INST1.G		ction 8-02.3(9)B is supplemented with the wing)

1	Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12 13 14	8-02.3(9)B.OPT1.FR8 (Composition, proportion, quality and application rate of grass seed) (September 3, 2019) 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.)
14 15 16 17 18 19 20 21	8-02.3(9)B.OPT2.GR8 (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.
22 23 24 25 26 27 28 29 30 31	8-02.3(9)B.OPT3.FR8 (Composition, proportion, quality and application rate of grass seed) (September 3, 2019) 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)
32 33	8-02.3(11).GR8 Mulch
34 35 36 37	8-02.3(11).INST1.GR8 (Section 8-02.3(11) is supplemented with the following) Must use once preceding any of the following:
38 39 40 41 42 43	8-02.3(11).OPT1.FR8 (Placement of Bark or Wood Chip Mulch) (April 2, 2012) Use in projects requiring bark and wood chip mulch. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect. (1 fill-in)
44 45	8-02.3(11)A.GR8 Mulch for Seeding Areas
46 47 48 49 50	8-02.3(11)A.INST1.GR8 (Section 8-02.3(11)A is supplemented with the following) Must use once preceding any of the following:
51 52 53 54	8-02.3(11)A.OPT1.FR8 (Type and rate of application of mulch) (September 3, 2019) Use in projects requiring the application of mulch when the application rate per acre or the

1 2 3 4 5 6 7		allowable pounds in any single lift are revised from the Standard Specifications. (3 fill-ins)
4 5 6	8-02.4.GR8	Measurement
7 8 9	8-02.4.INST1.G	8 (Section 8-02.4 is supplemented with the following) Must use once preceding any of the following:
10 11 12 13 14 15 16 17 18 19 20 21 22 23	8-02.4.OPT2.	 GR8 (Biotic Soil Amendments) (April 1, 2019) Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect. Must also use 8-02.1.OPT2.GR8, 8-02.2.OPT2.GR8, 8- 02.3.OPT1.GR8, and 8-02.5.OPT4.FR8.
24	8-02.5.GR8	Payment
25 26 27 28	8-02.5.INST1.G	8 (Section 8-02.5 is supplemented with the following) Must use once preceding any of the following:
29 30 31 32 33	8-02.5.OPT2.	GR8 (Removal of Buried Previously Fabricated Debris) (September 7, 2021) Must include with 8-02.1.OPT1.GR8 and 8- 02.3(5).OPT4.GR8 .
34 35 36 37 38 39 40 41 42 43 44 45	8-02.5.OPT4.	 (Biotic Soil Amendments) (April 1, 2019) Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect. (1 fill-in) (Fill-in #1 indicates which seed item will be used
46 47 48 49 50		in conjunction with the BSA. Consult with the Region Landscape Architect to determine which permanent seeding item to use.) Must also use 8-02.1.0PT2.GR8, 8-02.2.0PT2.GR8, 8- 02.3.0PT1.GR8, and 8-02.4.0PT2.GR8.
51 52	8-03.GR8 Ir	igation Systems
53 54	8-03.3.GR8	Construction Requirements

1 2	8-03.3(6)	.GR8	Excavation		
2 3 4		6(6)A.GR8	Trenches		
5 6 7		03.3(6)A2.GR8		Critical Roo	at Zana
7	0-	03.3(0)AZ.GRO	within		
8 9 10		8-03.3(6)A2.II	follo	owing)	(6)A2 is supplemented with the preceding any of the following:
10			IVIUS		breceding any of the following.
12		8-03.3(6)	A2.OPT1.FR8	(Trenching	in Critical Root Zone)
13				(October 3	
14 15					ects when the Landscape Architect ted that locations of mechanical
16					vill be allowed.
17				(1 fill-in)	
18				Èill-in <i>#</i>	
19					I trenching within the critical root
20 21				zone will	be allowed. Contact Region ng Office for assistance.
22				Lanuscapii	ig Office for assistance.
23	8-10.GR8	Guide Po	osts		
24					
25	8-10.1.GR8	Des	cription		
26 27 28	8-10.1.IN	IST1.GR8			nented with the following) any of the following:
29 30 31 32 33	8-10.1	.OPT1. NEW. G	November	20, 2023)	els) linear delineation panels will be
34 35 36 37					8-10.2.OPT1.NEW.GR8, 8- 8-10.4.OPT1.NEW.GR8, and 8-
38 39	8-10.2.GR8	Mat	erials		
40					
41 42 43	8-10.2.IN	IST1.GR8			nented with the following) any of the following:
44	8-10.2	.OPT1. NEW. G	R8 (Linear delir	neation pane	els)
45 46 47			(November Use in pro used.		linear delineation panels will be
48 49 50 51					8-10.1.OPT1.NEW.GR8, 8- 8-10.4.OPT1.NEW.GR8, and 8-
52 53	8-10.3.GR8	Cor	struction Req	uirements	

1				
2 3	8-10.3.INST	1.GR8	(Section 8-10.3 is supplemented with the following) Must use once preceding any of the following:	
4 5 6 7 8 9	8-10.3.OF	PT1. NEW. G	R8 (Linear delineation panels) November 20, 2023) Use in projects where linear delineation panels will be used.	;
10 11 12			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.	
13 14	8-10.4.GR8	Ме	asurement	
15 16 17 18	8-10.4.INST	1.GR8	(Section 8-10.4 is supplemented with the following) Must use once preceding any of the following:	
19	8-10.4.OF	PT1. NEW. G	R8 (Linear delineation panels)	
20 21 22			November 20, 2023) Use in projects where linear delineation panels will be used.	;
23 24 25 26			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.	
27 28	8-10.5.GR8	Pa	yment	
29	0-10.5.010	T ag	yment	
30 31 32	8-10.5.INST	1.GR8	(Section 8-10.5 is supplemented with the following) Must use once preceding any of the following:	
32	8-10.5.OF	PT1. NEW. G	R8 (Linear delineation panels)	
34 35 36			November 20, 2023) Use in projects where linear delineation panels will be used.	;
37 38 39 40			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.	
41	0.44.000	0		
42 43	8-11.GR8	Guardra	11	
44	8-11.1.GR8	Des	scription	
45			$(\mathbf{O}_{1}, \mathbf{A}_{1}^{\dagger}, \mathbf{O}_{2}, \mathbf{A}_{2}^{\dagger}, \mathbf{A}_{2}^{\dagger})$	
46 47 48	8-11.1.INST ²	I.GR8	(Section 8-11.1 is supplemented with the following) Must use once preceding any of the following:	
49 50 51 52	8-11.1.O	PT1.GR8	(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 CB8 8 11 5 OPT3 CB8 and 8 11 5 OPT8 CB8	
52 53			11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.	
	8-11.1.0		(Aesthetic Treatment for Beam Guardrail)	

1 2 3 4 5 6		(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 .
7 8 9	8-11.2.GR8	Materials
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:
12 13 14 15 16 17 18 19 20 21	8-11.2.OPT2.FR	8 (High-Tension Cable Barrier System 4 Cable) (November 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).
22 23 24 25 26 27 28 29	8-11.2.OPT4.GI	 R8 (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 8-11.1.0PT2.GR8, 8-11.3.0PT4.GR8, 8- 11.4.0PT4.GR8, and 8-11.5.0PT1.GR8.
30 31	8-11.2(9-16.3).GR8	(Beam Guardrail)
32 33	8-11.2(9-16.3(2)).G	R8 (Posts and Blocks)
34 35 36 37	8-11.2(9-16.3(2)).INST1.GR8 (Section 9-16.3(2) is supplemented with the following) Must use once preceding any of the following:
38 39 40 41 42 43 44 45	8-11.2(9-16.3	3(2)).OPT1.GB8 (Steel shear plates and backing plates) (November 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 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9- 16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8, and 8- 11.3(1)B.OPT7.GB8.
46 47 48 49 50 51 52 53	8-11.2(9-16.3	B(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 8- 11.2(9-16.3(4)).OPT1.GB8, and 8- 11.3(1)A.OPT2.GB8.

1 2 3 4 5 6 7 8 9	8-11.2(9-16.3	 (2)).OPT3.GB8 (Steel Angles for Timber Blockout Connection to Truss) (April 6, 2015) Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam requiring timber blockout connection to existing steel truss members. Include with 8-11.2(9- 16.3(4)).OPT2.GB8 and other appropriate GSPs supplementing Sections 8-11.2 and 8-11.3(1).
10		
11	8-11.2(9-16.3	(2)).OPT4.GB8 (Beam Guardrail Type WP Thrie Beam)
12 13		(April 6, 2015)
13 14		Use in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie
15		Beam). Include with 8-11.2(9-16.3(4)).OPT2.GB8, 8-
16		11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, 8-
17		11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.
18		
19	8-11.2(9-16.3(4))	.GB8 (Hardware)
20		(Section 9-16.3(4)) is supplemented with the following)
21		Must use once preceding any of the following:
22		
23	8-11.2(9-16.3	(4)).OPT1.GB8 (Resin bonded anchors)
24		(April 6, 2015)
25		Use in thrie beam retrofit projects requiring resin
26		bonded anchors for connection to concrete baluster
27 28		railing end posts, and concrete curbs and railbases. Include with Either 8-11.2(9-16.3(2)).OPT1.GB8, 8-
20 29		11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8,
30		and 8-11.3(1)B.OPT7.GB8, or 8-11.2(9-
31		16.3(2)).OPT2.GB8 and 8-11.3(1)A.OPT2.GB8.
32		
33	8-11.2(9-16.3	(4)).OPT2.GB8 (Lag screws)
34	,	(April 6, 2015)
35		Use in thrie beam retrofit projects requiring
36		connections with lag screws to timber members and
37		blockouts.
38	0.44.0.000	Or we drive De maine mente
39 40	8-11.3.GR8	Construction Requirements
40 41	8-11.3.INST1.GR8	(Section 8-11.3 is supplemented with the following)
42	0-11.3.IN311.610	Must use once preceding any of the following:
43		Must use once preceding any of the following.
44	8-11.3.0PT1.FR8	3 (Installing Steel Posts on Existing Box Culverts)
45		(October 3, 2022)
46		Must also use 8-11.4.OPT1.GR8 and 8-11.5.OPT6.GR8.
47		Use in projects requiring the construction of steel guardrail
48		posts on top of existing concrete box culverts either by
49		embedding or bolting through the culvert wall.
50		(4 fill-ins)
51 52		Fill-in #1 is the box culvert location SR & MP.
52 53		Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
00		for derivery of box edivert steel post assemblies.

1 2 3 4		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.
5 6 7 8 9 10 11 12 13 14	8-11.3.OPT2.FR8	 (High-Tension Cable Barrier System 4 Cable) (November 20, 2023) 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)
15 16 17 18 19 20 21	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 .
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	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. 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.
37 38	8-11.3(1).GR8 E	Beam Guardrail
39 40 41	8-11.3(1).INST1.GR8	(Section 8-11.3(1) is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47	8-11.3(1).OPT1.GR	8 Post Selection (April 5, 2010) Use in all projects that specifically require wood guardrail posts or specifically require steel guardrail posts.
48	8-11.3(1)A.GR8	Erection of Posts
49 50 51 52 53	8-11.3(1)A.INST1.G	GR8 (Section 8-11.3(1)A is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10 11	8-11.3(1)A.OPT1.GB8	 (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 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.
11 12 13 14 15 16 17 18 19 20 21	8-11.3(1)A.OPT2.GB8	 (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 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.
22 23 24 25 26 27 28 29 30 31	8-11.3(1)A.OPT3.GB8	 (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 8-11.2(9- 16.3(2)).OPT4.GB8, 8-11.3(1)B.OPT9.GB8, 8- 11.3(1)H.OPT1.GB8, and 8- 11.3(1)D.OPT1.GB8.
32 33	8-11.3(1)B.GR8 Erec	ction of Rail
34 35 36 37	f	Section 8-11.3(1)B is supplemented with the ollowing) Must use once preceding any of the following:
38 39 40 41 42 43 44	8-11.3(1)B.OPT6.GB8	 (Field Measuring to Existing Type 3 Anchors) (April 6, 2015) Include in thrie beam retrofit projects when existing Type 3 anchors are being salvaged for reuse as part of the retrofitted guardrail system.
44 45 46 47 48 49 50 51 52	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 8-11.2(9- 16.3(2)).OPT1.GB8, 8-11.2(9-

1 2 3			16.3(4)).OPT1.GB8, 8-11.2(9- 16.3(4)).OPT2.GB8, and 8-11.3(1)A.OPT1.GB8.
3 4 5 6 7 8 9 10	8-11.3(1)B.C	DPT8.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
11 12 13 14 15 16 17 18 19 20 21	8-11.3(1)B.C	DPT9.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 8-11.2(9- 16.3(2)).OPT4.GB8, 8-11.3(1)A.OPT3.GB8, 8- 11.3(1)H.OPT1.GB8, and 8- 11.3(1)D.OPT1.GB8.
22 23	8-11.3(1)D.GR8	Removing	Guardrail
24 25	8-11.3(1)D.INST1.0		a 8-11.3(1)D is supplemented with the following) e once preceding any of the following:
26 27 28 29 30 31 32 33 34 35	8-11.3(1)D.OPT	(Sep Inclu thrie Thrie 16.3 11.3	am Guardrail Type WP Thrie Beam) otember 8, 2020) ude in thrie beam retrofit projects with weak post beam guardrail retrofit (beam guardrail Type WP e Beam). Include with 8-11.2(9- 6(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.
36 37	8-11.3(1)H.GR8	Guardrail	Construction Exposed to Traffic
38 39 40 41	8-11.3(1)H.INST1.G		a 8-11.3(1)H is supplemented with the following) e once preceding any of the following:
42 43 44 45 46 47 48 49	8-11.3(1)H.OPT	(Apr Inclu thrie Thri 16.3 11.3	am Guardrail Type WP Thrie Beam) iil 6, 2015) ude in thrie beam retrofit projects with weak post e beam guardrail retrofit (beam guardrail Type WP e Beam). Include with 8-11.2(9- 6(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)D.OPT1.GB8.
50 51	8-11.4.GR8 M	easurement	
52 53	8-11.4.INST1.GR8	(Section 8-	11.4 is supplemented with the following)

1		Must use once preceding any of the following:
2 3 4 5 6 7	8-11.4.OPT1.G	(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
8 9 10 11 12 13	8-11.4.OPT2.G	 posts on top of existing or new concrete box culverts. (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.
14 15 16 17 18	8-11.4.OPT4.G	
19 20 21 22		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.
23	8-11.5.GR8	Payment
24 25 26 27	8-11.5.INST2.GR8	(Section 8-11.5 is supplemented with the following) Must use once preceding any of the following:
28 29 30 31 32 33 34	8-11.5.OPT1.GF	 (Aesthetic Treatment for Beam Guardrail) (April 2, 2018) Use in all projects that require Aesthetic Treatment for Beam Guardrail. Must also use 8-11.1.0PT2.GR8, 8-11.2.0PT4.GR8, 8- 11.3.0PT4.GR8, and 8-11.4.0PT4.GR8.
35 36 37 38 39 40	8-11.5.OPT6.GF	 (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.
41 42 43 44 45 46 47	8-11.5.OPT7.GF	 (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.
47 48 49 50 51 52 53 54	8-11.5.OPT8.GF	 (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.

1	8-12.GR8	Chain Link Fe	ence and Wire Fence
2 3 4	8-12.2.GR8	Material	6
5 6 7	8-12.2.INST	(tion 8-12.2 is supplemented with the following) t use once preceding any of the following:
8 9 10 11 12 13	8-12.2.OF) U lir	Coated chain link fence) September 8, 2020) se in projects requiring the construction of coated chain nk fence. Must include 8-12.5.OPT1.GR8 . I fill-in)
14 15 16 17 18 19 20 21 22	8-12.2.0	(† ↓ +: +: +: si	Cable Fence)November 20, 2023)se in projects with cable fence. Include with 8-2.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-2.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-2.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-2.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-2.5.OPT6.GB8. Include with 8-12.3.OPT1(A).GB8 whenInclude with 8-12.3.OPT1(A).GB8 whenInclude with 8-12.3.OPT1(A).GB8 whenInclude with 8-12.3.OPT1(C).GB8 whenInclude with 8-12.3.OPT1(C).GB8 whenInclude with 8-12.3.OPT1(C).GB8 whenInclude with 8-12.3.OPT1(C).GB8 when
23	8-12.3.GR8	Constru	ction Requirements
24 25 26	8-12.3.INST		tion 8-12.3 is supplemented with the following) t use once preceding any of the following:
27 28 29 30	8-12.3.OF	(Cable Fence) se once preceding the following:
30 31 32 33 34 35 36 37 38 39	8-12.(3.OPT1(A).GB8	(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.
40 41 42 43 44 45 46 47 48 49	8-12.(3.OPT1(B).GB8-	(Cable Fence) (November 20, 2023) 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.
49 50 51 52 53	8-12.3	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-

1 2 3		12.5.OPT6.GB8 . Include with 8-12.3.OPT1(A).GB8 when anchoring the cable fence posts to existing concrete structures.
4 5 6	8-12.4.GR8	Measurement
0 7 8 9	8-12.4.INST1.GR	8 (Section 8-12.4 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14 15 16 17 18	8-12.4.OPT1.G	Cable Fence) (April 6, 2015) Use in projects with cable fence. Include with 8- 12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8- 12.5.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.
19 20	8-12.5.GR8	Payment
20 21 22 23	8-12.5.INST1.GR	8 (Section 8-12.5 is supplemented with the following) Must use once preceding any of the following:
24 25 26 27 28	8-12.5.OPT1.G	GR8 (Coated chain link fence) (April 1, 2002) Use in projects requiring the construction of coated chain link fence.
20 29 30 31 32 33 34 35 36 37	8-12.5.OPT6.G	 (Cable Fence) (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.
37 38 39	8-13.GR8 Mc	onument Cases
39 40 41	8-13.1.GR8	Description
42 43 44	8-13.1.INST1.GR	8 (Section 8-13.1 is deleted and replaced by the following) Must use once preceding any of the following:
45 46 47 48 49 50 51	8-13.1.OPT1.G	 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 installed by the Contractor.
51 52 53	8-13.2.GR8	Materials

1 2 3	8-13.2.INST1.GR8	(Section 8-13.2 is supplemented with the following) Must use once preceding any of the following:
4 5 6 7 8	8-13.2.OPT1.GF	 (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.
9 10 11	8-13.3.GR8	Construction Requirements
12 13	8-13.3(1).GR8	Monument Case and Cover
14 15	8-13.3(1).INST1 read)	.GR8 (The last paragraph of Section 8-13.3(1) is revised to
16 17		Must use once preceding any of the following:
18 19 20 21 22	8-13.3(1).OF	PT1.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 .
23 24	8-13.3(2).GR8	Adjust Monument Case and Cover
25 26 27	8-13.3(2)B.GR8	Reinstalling Monument Case and Cover
28 29 30	8-13.3(2)B.II	NST1.GR8 (The first sentence of Section 8-13.3(2)B is revised to read) Must use once preceding any of the following:
31 32 33 34 35 36	8-13.3(2)	B.OPT1.GR8 (October 3, 2022) Use in projects where it is desired to reinstall the monument case ¼" lower than grade, such as routes that are subjected to frequent snow plowing.
37 38	8-13.4.GR8	Measurement
39 40 41	8-13.4.INST1.GR8	(Section 8-13.4 is deleted and replaced by the following) Must use once preceding any of the following:
42 43 44 45 46 47	8-13.4.OPT1.GF	 (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.
48 49	8-13.5.GR8	Payment
50 51 52	8-13.5.INST1.GR8	(Section 8-13.5 is supplemented with the following) Must use once preceding any of the following:
53 54	8-13.5.OPT1.GF	(Monument pipes included in work)

1 2 3 4 5			Must ir Use ir	28, 1997) nclude with 8-13.1. n projects requirir ed by the Contracto	ng that the	monument p	ipes be
6 7	8-14.GR8	Cement C	oncrete	Sidewalks			
8	8-14.2.GR8	Mate	rials				
9 10 11	8-14.2(9-	-19.1).GR8	(Surfac	ce Applied Detecta	ble Warning	Surface)	
12 13 14 15 16	8-14.	2(9-19.1(1)).G	(Th rea	eneral Requiremer ne first paragraph ad) ist use once prece	of Section 9		vised to
17 18 19 20 21 22 23 24 25	8	-14.2(9-29.1(1	I)).OPT1.	FR8 (Alternative surfaces) (October 3, 202 Use in projects warning surface (1 fill-in) Fill-in #1 is the surface.	2) s where the es will not be	color for de yellow.	tectable
26 27	8-14.2(9-	-19.2).GR8	(Cast-i	n-Place Detectable	e Warning S	urface)	
28 29 30 31 32	8-14.	2(9-19.2(1)).G	(Tł rea	eneral Requiremer ne first paragraph ad) ist use once prece	of Section 9		vised to
32 33 34 35 36 37 38 39 40 41	8	-14.2(9-29.2(1	I)).OPT1.	FR8 (Alternative surfaces) (October 3, 202 Use in projects warning surface (1 fill-in) Fill-in #1 is the surface.	2) s where the es will not be	color for de yellow.	tectable
42 43	8-14.3.GR8	Cons	struction	Requirements			
44 45 46 47	8-14.3.INS	Г1.GR8 ((Section 8	8-14.3 is suppleme once preceding ar			
47 48 49 50 51 52 53 54	8-14.3.O	PT1.GR8	curb ra ADA is (Octob Use ir (ceme	onstruction meeting amps or other peo sues before Work per 3, 2022) n projects where nt concrete side trian access) is pr	destrian acco begins) pedestrian ewalks, cur	ess routes to access rout b ramps of	discuss e Work other

1 2 3			construction meeting is needed by Region Construction Office to discuss ADA compliance.
4 5 7 8 9	8-14.3.C)PT2.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 .
10 11 12 13 14 15	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 .
16 17	8-15.GR8	Riprap	
18 19	8-15.4.GR8	Ме	asurement
20 21 22	8-15.4.INS	T1.GR8	(Section 8-15.4 is supplemented with the following) Must use once preceding any of the following:
23 24 25 26 27 28 29	8-15.4.C	DPT3.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.
29 30 31 32 33 34 35 36 37	8-15.4.OPT	r5.GR8	(Excavation for riprap is included in cost 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.
37 38 39	8-15.5.GR8	Pa	yment
40 41 42 43	8-15.5.INS	T1.GR8	(The first sentence of the second paragraph of Section 8-15.5 is revised to read) Must use once preceding any of the following:
44 45 46 47 48 49 50	8-15.5.C	OPT1.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.
51 52 53 54	8-15.5.INS	T2.GR8	(Section 8-15.5 is supplemented with the following) Must use once preceding the following:

1 2 3 4 5 6 7	8-15.5.C	PT8.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.
8	8-16.GR8	Concrete	Slope Protection
9 10 11	8-16.3.GR8	Cons	struction Requirements
12 13	8-16.3(2).G	iR8	Placing Semi-Open Concrete Masonry Units
13 14 15 16	8-16.3(2).INST1.GR8	(Section 8-16.3(2) is supplemented with the following) Must use once preceding any of the following:
10 17 18 19 20 21 22 23	8-16	.3(2).OPT1.GI	 (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.
23 24 25	8-16.5.GR8	Payr	nent
26 27 28	8-16.5.INS		(Section 8-16.5 is supplemented with the following) Must use once preceding any of the following:
20 29 30 31 32 33 34	8-16.5.C	PT1.GR8	(Semi-open Conc. Masonry Slope Protection) (September 30, 1996) Must include with 8-16.3(2).OPT1.GR8 . Use in projects requiring semi-open concrete masonry slope protection.
34 35 36 37	8-20.GR8		on, Traffic Signal Systems, Intelligent Transportation and Electrical
38 39	8-20.2.GR8	Mate	erials
40 41 42	8-20.2.INS		(Section 8-20.2 is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47 48 49 50	8-20.2.C	PT1.GB8	(Traffic Signal Shaft Foundation Shaft Casing and Slurry) (April 6, 2015) Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. Include with 8-20.3(4).OPT1.FB8 and 8-20.5.OPT1.GB8 .
51 52	8-20.2(9	-29.1).GR8	(Conduit, Innerduct, and Outerduct)
53 54	8-20	.2(9-29.1(11)).	GR8 (Foam Conduit Sealant) (Section 9-29.1(11) is supplemented with the following)

1	Must use once preceding any of the following:
2 3 4 5 6 7 8 9	8-20.2(9-29.1(11)).OPT1.GR8(January 7, 2019) Use in projects where new conduit is installed, wiring is added to existing conduit, or wiring is removed from existing conduit.
8 9 10 11	8-20.2(9-29.2).GR8 (Junction Boxes, Cable Vaults, and Pull Boxes) (Section 9-29.2 is supplemented with the following:) Must use once preceding any of the following:
12 13 14 15 16 17	8-20.2(9-29.2).OPT1.GR8 (Slip-Resistant Surfacing) (September 3, 2019) Use in projects where junction boxes, cable vaults, pull boxes, or Structure mounted boxes require slip- resistant surfacing.
18 19 20 21	8-20.2(9-29.6).GR8 (Light and Signal Standards) (Section 9-29.6 is supplemented with the following) Must use once preceding any of the following:
22 23 24 25 26 27	8-20.2(9-29.6).OPT1.GR8 Light Standards With Type 1 Luminaire Arms (January 13, 2021) Use in projects requiring Type 1 luminaire arms and the Engineer is not required to verify the H1 distances shown in the Plans.
28 29 30 31 32 33 34	8-20.2(9-29.6).OPT2.GR8 Light Standards With Type 1 Luminaire Arms (January 13, 2021) 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.
34 35 36 37 38 39 40	8-20.2(9-29.6).OPT5.GR8 Traffic Signal Standards (January 10, 2022) Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 1 luminaire arms, or both.
41 42 43 44	8-20.2(9-29.6(2)).GR8 (Slip Base Hardware) (The second sentence of Section 9-29.6(2) is revised to read) Must use preceding the following:
45 46 47 48 49	8-20.2(9-29.6(2)).OPT1.2025.GR8(November 20, 2023) Use in all projects with light or signals with slip bases.
50 51 52 53 54	8-20.2(9-29.6(3)).GR8 (Timber Light Standards, Timber Strain Poles, Timber Service Supports) (Section 9-29.6(3) is supplemented with the following) Must use preceding the following:

1 2 3	8-20.2(9-29.6(3)).OPT1.GR8 (November 20, 2023) Use in all projects with timber poles.
4 5 6 7	8-20.2(9-29.6(5)).GR8 (Foundation Hardware) (Section 9-29.6(5) is supplemented with the following) Must use once preceding any of the following:
8 9 10 11	8-20.2(9-29.6(5)).OPT1.GR8(January 13, 2021) Use in all projects where light standards are to be installed on Traffic Barrier.
12 13 14 15	8-20.2(9-29.13).GR8 (Control Cabinet Assemblies) (Section 9-29.13 is supplemented with the following) Must use once preceding any of the following:
16 17 18 19 20 21	8-20.2(9-29.13).OPT1.GR8 Uninterruptible Power Supply (UPS) (January 2, 2018) With Region Traffic Engineer approval, use in projects where Uninterruptible Power Supply (UPS) cabinets are required.
22	8-20.2(9-29.13(10)).GR8(NEMA and Type 2070 Controllers and Cabinets)
23 24 25	8-20.2(9-29.13(10)D).GR8(Cabinets for Type 2070 Controllers)
26 27 28 29 30 31	8-20.2(9-29.13(10)D).INST2.GR8 (9-29.13(10)D is supplemented with the following) Must use once preceding any of the following:
32 33 34 35	8-20.2(9-29.13(10)D).OPT2.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
36 37 38 39 40	8-20.2(9-29.13(11)).GR8(Traffic Data Accumulator and Ramp Meters) (Section 9-29.13(11) is supplemented with the following) Must use once preceding any of the following:
41 42 43 44	8-20.2(9-29.13(11)).OPT1.GR8 (November 20, 2023) Use in all projects where a Ramp Meter or ITS Data Station controller is required.
45 46 47 48	8-20.2(9-29.13(11)).OPT2.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
49 50	8-20.2(9-29.13(12)).GR8(Type 331L ITS Cabinet)
51 52 53 54	8-20.2(9-29.13(12)).INST2.GR8 (Item 3 of Section 9-29.13(12) is supplemented with the following) Must use once preceding any of the following:

1 2 3 4	8-20.2(9-29	0.13(12)).OPT2.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
2 3 4 5 6 7 8 9	8-20.2(9-29.15).GR8	(Flashing Beacon Control) (Section 9-29.15 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14	8-20.2(9-29.15).OP	T1.GR8 Rapid Flashing Beacons (RFB) (January 7, 2019) Use in projects where Rectangular Rapid Flashing Beacons (RRFBs) are required.
14 15 16 17 18	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:
19 20 21 22 23	8-20.2(9-29.19).OP	 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.
24 25 26 27		Include speech message programming table in Contract Plans – one table for each signal system.
28 29 30 31 32 33		See <u>https://wsdot.wa.gov/engineering-</u> <u>standards/design-topics/traffic-illumination-traffic-</u> <u>signals-and-intelligent-transportation-systems-its</u> , specification section, for instructions for filling out the tables.
34 35 36 37	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:
38 39 40 41 42	8-20.2(9-29.24).OP	T1.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
43 44 45 46	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:
47 48 49 50	8-20.2(9-29.25).OP	T1.GR8 (February 6, 2023) Use in all projects where removable cabinet door handles are required.
51 52	8-20.2(1).GR8 E	quipment List and Drawings
53 54	8-20.2(1).INST1.GR8	(Section 8-20.2(1) is supplemented with the following)

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1		Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10	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.
11 12 13 14 15 16 17 18	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) 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.
19 20 21 22 23 24 25	8-20.2(1).OPT3.GR8	3 (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.
26	8-20.3.GR8 Const	ruction Requirements
27 28	8-20.3(1).GR8 G	eneral
29 30 31 32	8-20.3(1).INST1.GR8	(Section 8-20.3(1) is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37	8-20.3(1).OPT1.FR8	(Salvaged Equipment) (November 20, 2023) Use in projects with equipment to be removed which will stay the property of WSDOT. (Five fill-ins).
38 39	8-20.3(4).GR8 Fo	oundations
10	8 20 2/4) INST4 CD9	(Section 8-20.3(4) is supplemented with the following)
40 41 42 43	8-20.3(4).INST1.GR8	Must use once preceding any of the following:

1	8-20.3(5).GR8	Conduit
2 3 1	8-20.3(5)E.GR8	Method of Conduit Installation
4 5 6 7 8 9 10 11 12 13	8-20.3(5)E.IN	ST1.GR8 (Section 8-20.3(5)E is supplemented with the following) Must use once preceding any of the following:
	8-20.3(5)I	CDF Encased ITS Conduit) (February 6, 2023) Use in projects where 4-inch ITS conduits are required to be encased in Controlled Density Fill (CDF) when installed by open trenching.
14 15 16	8-20.3(8).GR8	Wiring
17 18	8-20.3(8).INST1.0	GR8 (Section 8-20.3(8) is supplemented with the following) Must use once preceding any of the following:
19 20 21 22	8-20.3(8).OP	1.GR8 Field Wiring Chart (March 13, 1995) Use in projects with traffic signal systems.
23 24 25	8-20.3(14).GR8	Signal Systems
26	8-20.3(14)A.GR8	Signal Controllers
27 28 29 30 31 32 33 34 35	8-20.3(14)A.I	NST1.GR8 (Section 8-20.3(14)A is supplemented with the following) Must use once preceding any of the following:
	8-20.3(14	A.OPT1.GR8 Testing (August 2, 2010) Use in projects with Contractor furnished signal controllers.
36 37	8-20.5.GR8	Payment
38 39 40	8-20.5.INST1.GR8	(Section 8-20.5 is supplemented with the following) Must use once preceding any of the following:
41 42 43 44 45 46 47	8-20.5.OPT1.GB	(Removing Traffic Signal Shaft Obstructions) (April 6, 2015) Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. Include with 8-20.2.OPT1.GB8 and 8-20.3(4).OPT1.FB8 .
48 49	8-21.GR8 Perm	anent Signing
50 51	8-21.2.GR8	Materials
52 53	8-21.2(9-06.16).0	R8 (Roadside Sign Structures)

1 2 3		(Section 9-06.16 is supplemented with the following) Must use once preceding the following:
5 4 5 6	8-21.2(9-06.16).OPT	T1.GR8 (January 3, 2011) Use in projects with perforated steel square sign posts.
7 8 9	8-21.2(9-28.11).GR8	(Hardware) (Section 9-28.11 is supplemented with the following) Must use once preceding any of the following:
10 11 12 13 14 15 16	8-21.2(9-28.11).OPT	 I.GB8 (Overhead Sign Structure Locknuts) (August 3, 2015) Use in all projects with overhead sign structures (sign bridge, cantilever sign structure, bridge mounted sign bracket).
17 18 19 20 21	8-21.2(9-28.14).GR8	(Sign Support Structures) (Section 9-28.14 is supplemented with the following) Must use once preceding any of the following:
22 23 24 25	8-21.2(9-28.14).OPT	T6.GR8 (Roadside Signing Material and Fabrication) (September 8, 2020) Use in all projects that have steel sign supports.
26 27	8-21.3.GR8 Const	ruction Requirements
28	8-21.3(9).GR8 S	ign Structures
29		•
29 30 31	8-21.3(9)A.GR8	Fabrication of Sign Structures
30 31 32 33		-
30 31 32 33 34 35 36 37	8-21.3(9)A.GR8 8-21.3(9)A1.GR8	Fabrication of Sign Structures Fabrication of Monotube Sign Bridges and
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	8-21.3(9)A.GR8 8-21.3(9)A1.GR8 8-21.3(9)A1.INS	Fabrication of Sign Structures Fabrication of Monotube Sign Bridges and Cantilever Sign Structures ST1.GR8 (Section 8-21.3(9)A1 is supplemented with the following)
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	8-21.3(9)A.GR8 8-21.3(9)A1.GR8 8-21.3(9)A1.INS	 Fabrication of Sign Structures Fabrication of Monotube Sign Bridges and Cantilever Sign Structures ST1.GR8 (Section 8-21.3(9)A1 is supplemented with the following) Must use once preceding any of the following: 1.OPT1.FB8 (Non-Conventional Paint Color) (September 8, 2020) Use in projects with monotube sign bridges and/or monotube cantilever sign structures 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 2		Must u	se once preceding any of the following:
3 4 5 6 7 8 9 10 11 12	8-21.3(9)E.0	(l L b s it q b	Bridge Mounted Sign Brackets) November 20, 2023) Jse in projects with bridge mounted sign rackets. The first and third fill-ins specify the ign bracket number(s). The second fill-in emizes the structural carbon steel quantity for each sign bracket. The fourth fill-in specifies the quantity of hole drilling required for the resin onded anchors for each sign bracket. 4 fill-ins)
13 14	8-21.3(9)F.GR8	Foundatio	ons
15 16 17	8-21.3(9)F1.GF		cation of Monotube Sign Bridges and lever Sign Structures
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	8-21.3(9)F1	fol	ection 8-21.3(9)F1 is supplemented with the lowing) ust use once preceding any of the following:
	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 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)
36 37 38	8-21.4.GR8 M	easurement	
39 40 41	8-21.4.INST1.GR8		.4 is supplemented with the following) be preceding any of the following:
42 43 44 45 46 47 48 49 50 51	8-21.4.OPT1.FB8	(Septembe Use in p monotube specifies t bridge or fill-in itemi sign struct (2 fill-ins)	
52 53	8-23.GR8 Tempo	rary Pavement	Markings

8-23.2.GR8	Materials
8-23.2(9-34).G	R8 (Pavement Marking Material) (Section 9-34 is supplemented with the following) Must use once preceding any of the following:
8-23.2(9-34	4).OPT1.GR8 (October 3, 2022) Consider including temporary adhesive transverse rumble strips when a project has temporary signals or 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.
8-23.3.GR8	Construction Requirements
8-23.3(4).GR8	Pavement Marking Application
8-23.3(4)A.GR	8 Temporary Pavement Markings – Short Duration
8-23.3(4)A. following)	INST1.GR8 (Section 8-23.3(4)A is supplemented with the
lonowing)	Must use once preceding any of the following:
8-23.3(4	4)A.OPT1.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 ir all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Mus also include 8-23.2(9-34).OPT1.GR8, 8 23.4.OPT1.GR8, and 8-23.5.OPT1.GR8.
8-23.4.GR8	Measurement
8-23.4.INST1.GR	8 (Section 8-23.4 is supplemented with the following) Must use once preceding any of the following:
8-23.4.OPT1.G	 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. Mus also include 8-23.2(9-34).OPT1.GR8, 8- 23.3(4)A.OPT1.GR8, and 8-23.5.OPT1.GR8.
8-23.5.GR8	Payment
8-23.5.INST1.GR	8 (Section 8-23.5 is supplemented with the following) Must use once preceding any of the following:

1 2 3 4 5 6 7 8 9 10	8-23.5.OF	PT1.GR8	(October 3, 2 Consider inc strips when highways. L Rumble Strip also in	cluding temporary adhes a project has temporar Jse in all projects when ps are shown on the trai	sive transverse rumble y signals on two lane n temporary adhesive ffic control plans. Must I).OPT1.GR8, 8-
11	8-24.GR8	Rock and	Fravity Block	Wall, and Gabion Crib	bing
12 13	8-24.2.GR8	Mate	als		
14 15 16	8-24.2.INST			2 is supplemented with th preceding any of the foll	
17 18 19 20 21	8-24.2.OF	PT1.GR8			y block walls. Include
22 23	8-24.3.GR8	Con	ruction Requ	uirements	
24 25 26	8-24.3(2).GF	R 8	ravity Block	Wall	
26 27 28	8-24.3(2).	INST1.GR8		4.3(2) is supplemented vice preceding any of the	
29 30 31 32 33	8-24.3	8(2).OPT1.GI	(January Use in	Block Wall) / 7, 2002) projects constructing with 8-24.2.OPT1.GR8.	gravity block walls.
34 35 36	8-25.GR8	Glare Scr	en		
30 37 38	8-25.1.GR8	Desc	iption		
39 40 41	8-25.1.INST			l is supplemented with the preceding any of the following any of the following and t	
42 43 44 45 46	8-25.1.OF	PT1.GR8	the need for	ects when the work zon temporary barrier scree 1.GR8, 8-25.3.OPT1.G	ning.
47 48	8-25.2.GR8	Mate	ials		
49 50 51	8-25.2.INST			is supplemented with the preceding any of the foll	
52 53	8-25.2.OF	PT1.GR8	(April 1, 200	2)	

1 2 3 4 5			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.
6 7	8-25.3.GR8	Co	Instruction Requirements
, 9 10	8-25.3.INST	۲1.GR8	(Section 8-25.3 is supplemented with the following) Must use once preceding any of the following:
10 11 12 13 14 15 16	8-25.3.O	PT1.GR8	(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.
17 18	8-25.4.GR8	Ме	easurement
19 20 21	8-25.4.INST	۲1.GR8	(Section 8-25.4 is supplemented with the following) Must use once preceding any of the following:
22 23 24 25 26 27	8-25.4.O	PT1.GR8	(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.
28 29	8-25.5.GR8	Ра	yment
30 31 32	8-25.5.INST	[1.GR8	(Section 8-25.5 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37	8-25.5.O	PT1.GR8	(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.
38 39 40	8-29.GR8	Wire Me	esh Slope Protection
41 42	8-29.1.GR8	De	scription
43 44 45	8-29.1.INST	۲1.GR8	(Section 8-29.1 is supplemented with the following) Must use once preceding any of the following:
46 47 48 49 50	8-29.1.O	PT1.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.
51 52 53	8-29.2.GR8	Ма	iterials

8-29.2.INST	(Section 8-29.2 is supplemented with the following) Aust use once preceding any of the following:
8-29.2.OI	PT1.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.
8-29.3.GR8	Cons	truction Requirements
8-29.3.INST	(Section 8-29.3 is supplemented with the following) Aust use once preceding any of the following:
8-29.3.OI	PT1.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.
8-29.4.GR8	Meas	surement
8-29.4.INST		Section 8-29.4 is supplemented with the following) Aust use once preceding any of the following:
8-29.4.OI	PT1.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 .
8-29.5.GR8	Paym	nent
8-29.5.INST	(Section 8-29.5 is supplemented with the following) Aust use once preceding any of the following:
8-29.5.OI	PT1.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.
8-30.GR8	Water Cros	ssings
8-30.3.GR8	Cons	truction Requirements
8-30.3(2).GI	२८ (General
8-30.3(2)	.INST1.GR8	(Section 8-30.3(2) is supplemented with the following) Must use once preceding any of the following:
8-30.3	3(2).OPT1.FR	8 (Blending Streambed Aggregates) (February 13, 2024)
	8-29.2.OF 8-29.3.GR8 8-29.3.INST 8-29.3.OF 8-29.4.GR8 8-29.4.INST 8-29.4.OF 8-29.4.OF 8-29.5.INST 8-29.5.INST 8-29.5.OF 8-30.3(2).GF	8-29.2.OPT1.GR8 8-29.3.GR8 Cons 8-29.3.INST1.GR8 (M 8-29.3.OPT1.GR8 Meas 8-29.4.GR8 Meas 8-29.4.INST1.GR8 (M 8-29.4.OPT1.GR8 (M 8-29.5.INST1.GR8 (M 8-29.5.INST1.GR8 (M 8-29.5.OPT1.GR8 (M 8-29.5.OPT1.GR8 (M 8-29.5.OPT1.GR8 (M 8-29.5.OPT1.GR8 (M 8-30.GR8 Water Cross 8-30.3.GR8 Cons

1 2	1 Use in projects with streambed aggregates.				
3 4 5	8-31.GR8 Te	emporary Stream	Diversion		
2 3 4 5 6 7	8-31.3.GR8	Construction	Requirements		
8 9	8-31.3(1).GR8	General			
10 11	8-31.3(1)A.GF	R8 Genera	I TSD Requirements		
12 13 14	8-31.3(1)A following)		ction 8-31.3(1)A is supplemented with the st use once preceding any of the following:		
15					
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	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. 		
	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. 		
36 37 38	8-31.3(3).GR8	Fish Bloc Exclusion	k Net Installation and Fish and Aquatic Species		
38 39					
40 41	8-31.3(3)B.GF	R8 Contrac	cting Agency Provided Materials		
42 43 44	8-31.3(3)E	follo	ction 8-31.3(1)B is supplemented with the wing) st use once preceding any of the following:		
45 46 47 48 49 50 51 52 53	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)		

1 2 3		Fill-in #1 is the materials that will be supplied by the Contracting Agency.
2 3 4 5 6 7 8	8-SA1.GR8	Field Office Building (August 7, 2017) Use in projects when a field office building is required.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	8-SA2.GR8	Bollards (October 3, 2022) Use in projects requiring bollards. Contact Headquarters Design Standard Plans Office for plan details on Type 3 Bollards.
	8-SA3.GR8	(Environmental Compliance) (August 6, 2018) For use on projects where the project has a high risk of soil erosion due to soil type, slope gradiant and work in or has proximity to waters of the State (Hydraulics Runoff Manual (HRM) defines projects susceptible for high-risk soil erosion). Also for use on projects where there is extensive monitoring of environmental permit compliance. The Region Construction Engineer and Region Environmental Office should be consulted for use as the provision introduces an Environmental Compliance Lead person that incorporates, expands, and replaces the duties of the ESC Lead person.
27 28 29 30 31	8-SA5.GR8	(Woody Material) (October 3, 2022) For use on projects that have logs with or without rootwads or slash materials.

1 2	8-01.GR8 Erosion Control and Water Pollution Control
2 3	Erosion Control and Water Pollution Control
4	8-01.2.GR8
5	Materials
6	
7	8-01.2(9-14.6(4)A).GR8
8	Biodegradable Check Dams
9	Section 9-14.6(4)A is revised to read:
10	
11	8-01.2(9-14.6(4)A).OPT1.2025.GR8
12	(February 13, 2024)
13	Biodegradable check dams shall meet the following requirements:
14	Compact Cool
15 16	Compost Sock Section 9-14.6(6) Coir Log Section 9-14.6(7)
17	COILEUS <u>SECIION 3-14.0(7)</u>
18	The Contractor may substitute a different biodegradable check dam as long as it
19	complies with the following and is accepted by the Engineer:
20	
21	 Made of natural plant fiber unaltered by synthetic material.
22	
23	2. Netting, if present, shall be made of natural plant fibers unaltered by
24	synthetic materials. Materials shall effectively perform the intended erosion
25	control function until permanent vegetation has been established or for a
26	minimum of 6 months, whichever comes first.
27	2. Strow balas shall not be used as sheak dome
28 29	3. Straw bales shall not be used as check dams.
30	4. Wattles shall not be used as check dams.
31	
32	8-01.3.GR8
33	Construction Requirements
34	
35	8-01.3(1).GR8
36	General
37	
38 39	8-01.3(1).INST1.GR8
39 40	The tenth paragraph of Section 8-01.3(1) is revised to read:
40 41	8-01.3(1).OPT1.GR8
42	(January 25, 2010)
43	Erodible Soil Eastern Washington
44	Erodible soil not being worked whether at final grade or not, shall be covered within
45	the following time period using an approved soil cover practice:
46	
47	July 1 through September 30 30 days
48	October 1 through June 30 15 days
49	
50	8-01.3(1).INST2.GR8
51 52	Section 8-01.3(1) is supplemented with the following:
52	

1	8-01.3(1).OPT8.FR8 (April 1, 2002)	
2 3	Side Slope Trea	tmont
4		compacted within *** \$\$1\$\$ *** days of exposure of a new section of
5	cut and construct	tion of a new portion of an embankment.
6		tion of a new portion of an embandment.
7	8-01.3(1)B.GR8	
8	Erosion and Se	diment Control (ESC) Lead
9		
10	8-01.3(1)B.INST1.GR8	
11		nd 4 in the second paragraph of Section 8-01.3(1)B are revised to
12	read:	
13		
14 15	8-01.3(1)B.OPT1.GR8	2022)
15 16	(October 3, 3. Submit	
16 17		to the Engineer no later than the end of the next working day g the inspection a TESC Inspection Report that includes:
18		on where and how PMDs were installed maintained modified
19 20		nen, where, and how BMPs were installed, maintained, modified, d removed.
20 21	an	u temoved.
22	b. Ob	servations of BMP effectiveness and proper placement.
23	5. 0.	
24	c. Re	commendations for improving future BMP performance with
25	up	graded or replacement BMPs when inspections reveal TESC BMP
26	de	ficiencies.
27		
28		entify for each discharge point location whether there is compliance
29		h state water quality standards in WAC 173-201A for turbidity and
30	pH	
31		
32	8-01.3(1)C.GR8	a ant
33 34	Water Managen	ient
34 35	8-01.3(1)C4.GR8	
36		nt of Off-Site Water
37	manageme	
38	8-01.3(1)C4.INST1.GR8	
39		1.3(1)C4 is supplemented with the following:
40		
41	8-01.3(1)C4.OPT1.FR8	
42		t 6, 2012)
43		Stormwater
44		ater is known to enter the project site at the following locations:
45		
46	***	\$\$1\$\$ ***
47		
48	8-01.3(2).GR8	
49	Temporary Seedin	ng and Mulching
50		

1 2 3	8-01.3(2)B.G Ten	GR8 nporary Seeding	
4 5 6	8-01.3(2)B.IN Sec	NST1.GR8 ction 8-01.3(2)B is supplemented wi	th the following:
7 8 9 10 11	8-01.3(2)B.C	(August 4, 2014)	d analysis shall be applied at the rates shown \$\$*** seeding within the project:
12 13 14		Seed by Common Name and (Botanical name)	Pounds Pure Live Seed (PLS) Per Acre
15 16		*** \$\$2\$\$	\$\$
17		\$\$	\$\$
18 19		\$\$	<u>\$\$</u>
20 21		Total	\$\$ ***
22 23 24		The seed shall be certified in ac following requirements:	ccordance with WAC 16-302 and meet the
25 26 27 28 29 30		Prohibited Weed Noxious Weed Other Weed Other Crop	0% max. 0% max. 0.20% max. 0.40% max.
31 32 33 34 35 36	8-01.3(2)B.C	(August 4, 2014)	d analysis shall be applied at the rates shown \$\$*** seeding within the project:
37 38 39 40		Seed by Common Name, (Botanical Name), and <u>"Source Identification"</u>	Pounds Pure Live Seed (PLS) Per Acre
41 42		*** \$\$2\$\$	\$\$
43 44		\$\$	\$\$
45 46		\$\$	<u>\$\$</u>
40 47 48		Total	\$\$ ***
49 50 51		seed shall meet or exceed Washing	eneration four or less. Non-Source Identified gton State Department of Agriculture Certified nin the appropriate genetic zones of the ***

1 2	\$\$3\$\$ *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).
3	
4	The seed certification class shall be Certified (blue tag) in accordance with WAC
5	16-302 and meet the following requirements:
6 7	
7	Prohibited Weed 0% max.
8	Noxious Weed 0% max.
9	Other Weed 0.20% max.
10	Other Crop 0.40% max.
11	
12	The Contractor shall document all Source Identified seed by providing the
13	Association of Official Seed Certifying Agents (AOSCA) yellow seed label for
14	each species in the mix. Site Identification Logs can be supplied for collections
15	where the AOSCA yellow label is not available.
16	
17	8-01.3(2)B.OPT3.GR8
18	(September 3, 2019)
19	Grass seed shall be a commercially prepared mix, made up of low growing
20	species which will grow without irrigation at the project location, and approved
21	by the Engineer. The application rate shall be two pounds per 1000 square feet.
22	Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied
23	at the rate of 10 pounds per 1000 square feet.
24	
25	8-01.3(2)B.OPT4.FR8
26	(January 3, 2006)
27	Sufficient quantities of fertilizer shall be applied to supply the following amounts
28	of nutrients:
29	
30	Total Nitrogen as N - *** \$\$1\$\$ *** pounds per acre.
31	
32	Available Phosphoric Acid as P ₂ O ₅ - *** \$\$2\$\$ *** pounds per acre.
33	
34	Soluble Potash as K_2O - *** \$\$3\$\$ *** pounds per acre.
35	
36	*** \$\$4\$\$ *** pounds of nitrogen applied per acre shall be derived from
37	isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or a time release,
38	polyurethane coated source with a minimum release time of 6 months. The
39	remainder may be derived from any source.
40	Tomainaor may be donived normany bearee.
41	The fertilizer formulation and application rate shall be approved by the Engineer
42	before use.
43	
44	8-01.3(2)B.OPT8.FR8
45	(August 4, 2014)
46	Seed of the following mix, rate, and analysis shall be applied at the rates shown
47	below on all areas requiring *** \$\$1\$\$ *** seeding within the project:
48	
49	Seed by Common Name,
- 50	(Botanical Name), and Pure Live Seed
51	<u>"Source Identification"</u> <u>Pounds (PLS) Per Acre</u>
52	

1	*** \$\$2\$\$	\$\$	
2	**	**	
3 4	\$\$	\$\$	
4 5 6	\$\$	<u>\$\$</u>	
7 8	Total	\$\$ ***	
9	Seed shall meet or exceed Washing	ton State Department of Agriculture Certified	
10	Seed Standards and be from within	the *** \$\$3\$\$ *** Ecoregion(s) as defined by	
11	the US Environmental Protection Ag	gency (EPA).	
12			
13		Certified (blue tag) in accordance with WAC	
14	16-302 and meet the following requ	irements:	
15 16	Prohibited Weed	0% max.	
17	Noxious Weed	0% max.	
18	Other Weed	0.20% max.	
19	Other Crop	0.40% max.	
20	· ·		
21	8-01.3(2)D.GR8		
22	Temporary Mulching		
23			
24	8-01.3(2)D.INST1.GR8		
25 26	Section 8-01.3(2)D is supplemented with	n the following:	
20	8-01.3(2)D.OPT1.FR8		
28	(January 5, 2015)		
29		ate of *** \$\$2\$\$ *** pounds per acre with no	
30	more than *** \$\$3\$\$ *** pounds per		
31			
32	8-01.3(6).GR8		
33	Check Dams		
34			
35	8-01.3(6).INST1.GR8 The second and third paragraphs of Section	9.01.2(6) are revised to read:	
36 37	The second and third paragraphs of section		
38	8-01.3(6).OPT1.2025.GR8		
39	(February 13, 2024)		
40		eck dams shall not be trenched in and shall	
41	be installed as shown in the Standard P	ans.	
42			
43		used as check dams they shall be measured	
44	and paid as check dam in accordance w	tin Section 8-01.4 and Section 8-01.5.	

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1 2	8-10.GR8 Guide Posts
3 4 5	8-10.1.GR8 Description
6 7 8	8-10.1.INST1.GR8 Section 8-10.1 is supplemented with the following:
9 10 11 12 13 14	8-10.1.OPT1. NEW. GR8 (November 20, 2023) 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 the Engineer.
15 16 17 18	8-10.2.GR8 Materials
19 20 21	8-10.2.INST1.GR8 Section 8-10.2 is supplemented with the following:
22 23 24	8-10.2.OPT1. NEW. GR8 (November 20, 2023) Linear delineation panels shall consist of one of the following products:
25 26	1. 3M Linear Delineation System – Series 340 – 6" high for barrier.
27 28	2. 3M Linear Delineation System – Series 340, 1-1/2" high for guardrail.
29 30	3. Luciol Systems Bidirectional Linear Delineation M.S. for barrier or guardrail.
31 32 33	Only one system shall be selected and installed for the project.
33 34 35 36	Adhesives and mechanical fasteners for linear delineation shall meet the requirements of the manufacturer.
30 37 38	Reflective sheeting shall be in accordance with Section 9-28.12.
39 40 41	8-10.3.GR8 Construction Requirements
42 43 44	8-10.3.INST1.GR8 Section 8-10.3 is supplemented with the following:
45 46 47	8-10.3.OPT1. NEW. GR8 (November 20, 2023) General
48 49 50	Installation of linear delineation panels shall follow manufacturer recommendations but shall not be installed on top of concrete barriers or guardrail.
51 52	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.

5 Concrete Barrier

Linear delineation panels shall be installed 6" from the top of concrete barrier unless otherwise shown on the Plans.

Guardrail

Linear delineation panels installed on beam guardrail shall be installed in the rail trough.
 For installation on thrie beam guardrail the top trough shall be used.

12

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8 9

- 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.
- 17
- 18 8-10.4.GR8

19 Measurement

- 20
- 21 8-10.4.INST1.GR8
- 22 Section 8-10.4 is supplemented with the following:
- 23 24

- 8-10.4.OPT1.NEW.GR8
- (November 20, 2023)
- 26 Linear delineation panels will be measured by each panel furnished and installed.
- 27
- 28 8-10.5.GR8
- 29 Payment
- 30
- 31 8-10.5.INST1.GR8
- 32 Section 8-10.5 is supplemented with the following:
- 33
- 34 8-10.5.OPT1.NEW.GR8
- 35 (November 20, 2023)
- 36 "Linear Delineation Panel for Concrete Barrier", per each.
- 37 "Linear Delineation Panel for Guardrail", per each.

1 2	8-12.GR8 Chain Link Fence and Wire Fence				
3					
4	8-12.1.GR8				
5	Description				
6					
7	8-12.2.GR8 Materials				
8 9	Materials				
10	8-12.2.INST1.GR8				
11	Section 8-12.2 is supplemented with the following:				
12					
13	8-12.2.OPT1.FR8				
14 15	(September 8, 2020)				
15 16	Coated Chain Link Fence Chain link fence fabric shall be hot-dip galvanized with a minimum of 0.8 ounce per square				
17	foot of surface area.				
18					
19	Fencing materials shall be coated with an ultraviolet-insensitive plastic or other inert				
20	material at least 2 mils in thickness. Any pretreatment or coating shall be applied in				
21 22	accordance with the manufacturer's written instructions. The Contractor shall provide the				
23	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\$\$ ***.				
24					
25	Samples of the coated fencing materials shall have received the Engineer's acceptance				
26	prior to installation on the project.				
27 28	The Contractor shall supply the Engineer with 10 aerosol spray cans containing a				
29	minimum of 14 ounces each of paint of the color specified above. The touch-up paint				
30	shall be compatible with the coating system used.				
31					
32	8-12.2.OPT6.GB8				
33	(November 20, 2023)				
34 35	Cable Fence Steel pipe shall conform to ASTM A53, Grade B, Type E or S.				
36					
37	Steel bars, plates, and shapes shall conform to ASTM A36.				
38					
39	Steel components shall be galvanized after fabrication in accordance with AASHTO M				
40 41	111.				
42	Resin bonded anchors shall conform to Section 6-02.3(18)A and Section 9-06.4.				
43					
44	Proof coil chain shall conform to ASTM A413 Grade 30.				
45					
46 47	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				
48	Contractor, and shall be galvanized after fabrication in accordance with AASHTO M 232.				
49					
50	Wire rope shall conform to one of the following:				
51					
52	1. ASTM A603 with Class A weight zinc-coated wires throughout.				

	1
	2 2. ASTM A1023 with drawn galvanized wires throughout in accordance with ASTM
	3 A1007. Acceptance of ASTM A1023 wire rope is contingent upon the Contractor
	4 furnishing a Type 1 Working Drawing certifying that the lot of supplied wire rope
	5 has a minimum modulus of elasticity of 15,000 ksi when tested in accordance
	6 with ASTM A931 Section 3.2.17.
	7
	8 3. Phillystran HPTG 27000 Las manufactured by:
	9
1	0 Phillystran, Inc.
1	1 151 Commerce Drive
1	2 Montgomeryville, PA 18936-9628
1	3 (215) 368-6611
1	
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3	3 The Contractor shall submit shop drawings of the cable fence in accordance with Section
3	4 6-03.3(7). The shop drawings shall include, at a minimum, the following:
3	
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1	8-12.3.OPT1(C).GB8				
2	(January 10, 2022)				
3	The Contractor shall clean, prepare, and shop paint or powder coat all exposed				
4	galvanized surfaces of the cable fence post assemblies in accordance with Section 6-				
5	gaivanized surfaces of the cable fence post assemblies in accordance with Section 6- 07.3(11). The color of the finish coat, when dry, shall match SAE AMS Standard 595 Color				
6	No. 20045. After installation of the cable fence posts, any surfaces with paint or powder				
7	coating damage shall be repaired in accordance with Section 6-07.3(10)P or Section 6-				
8	07.3(11)B6, respectively.				
9					
10	8-12.4.GR8				
11	Measurement				
12					
13	8-12.4.INST1.GR8				
14	Section 8-12.4 is supplemented with the following:				
15					
16	8-12.4.OPT1.GB8				
17	(April 6, 2015)				
18	Cable fence will be measured by the linear foot along the line and slope at the base of				
19	the completed fence.				
20					
21	8-12.5.GR8				
')')					
22	Payment				
23	-				
23 24	8-12.5.INST1.GR8				
23 24 25	-				
23 24 25 26	8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following:				
23 24 25 26 27	8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8				
23 24 25 26 27 28	8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002)				
23 24 25 26 27 28 29	8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot.				
23 24 25 26 27 28 29 30	8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in				
23 24 25 26 27 28 29 30 31	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. 				
23 24 25 26 27 28 29 30 31 32	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. 				
23 24 25 26 27 28 29 30 31 32 33	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. 				
23 24 25 26 27 28 29 30 31 32 33 34	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. "Double 20 Ft. Coated Chain Link Gate", per each. 				
23 24 25 26 27 28 29 30 31 32 33 34 35	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. 				
23 24 25 26 27 28 29 30 31 32 33 34 35 36	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. "Double 20 Ft. Coated Chain Link Gate", per each. "Single 6 Ft. Coated Chain Link Gate", per each. 				
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. "Double 20 Ft. Coated Chain Link Gate", per each. "Single 6 Ft. Coated Chain Link Gate", per each. 8-12.5.OPT6.GB8 				
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. "Double 20 Ft. Coated Chain Link Gate", per each. 8-12.5.OPT6.GB8 (April 6, 2015) 				
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	 8-12.5.INST1.GR8 Section 8-12.5 is supplemented with the following: 8-12.5.OPT1.GR8 (April 1, 2002) "Coated Chain Link Fence Type", per linear foot. Payment for clearing of fence line for "Coated Chain Link Fence Type" shall be in accordance with Section 2-01.5. "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each. "Double 14 Ft. Coated Chain Link Gate", per each. "Double 20 Ft. Coated Chain Link Gate", per each. "Single 6 Ft. Coated Chain Link Gate", per each. 8-12.5.OPT6.GB8 				

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1	DIVISION9.GR9	Materials
2 3 4 5 6 7 8 9 10	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</i> <i>Conditions Report</i> must be an appendix as required in Section 1- 02.4(2) of the Standard Specifications. (1 fill-in)
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</i> <i>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 (February 26<u>September 3</u>, 2024) Use in all projects.

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1 (February 26, 2024 September 3, 2024)

2 Standard Plans

3 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-4 01, effective October 23, 2023, is made a part of this contract. 5 6 The Standard Plans are revised as follows: 7 8 A-10.30 9 RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): 10 The RISER RING detail is deleted from the plan. 11 12 INSTALLATION detail, SECTION A: The "1/4" callout is revised to read "+/- 1/4" (SEE 13 CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)" 14 15 A-40.20 16 Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following: 17 18 Use the $\frac{1}{2}$ inch joint details for bridges with expansion length less than 100 feet 1. 19 and for bridges with L type abutments. Use the 1 inch joint details for other 20 applications. 21 22 2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge deck 23 panels. 24 25 For details 1, 2, 3, and 4, the item "HMA Joint Seal at Bridge End" shall be used 3. 26 for payment. For details 5 and 6, the item "HMA Joint Seal at Bridge Deck Panel 27 Joint" shall be used for payment. For detail 7, the item "Clean and Seal Bridge 28 Deck Panel Joint" shall be used for payment. 29 30 Sheet 2, Detail 8 reference to "6-09.3(6)" is revised to read "6-21.3(7)". 31 32 A-50.40 33 Sheet 1, Plan View: The callout "BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21 OR TYPE 24 (SEE STANDARD PLAN C-25.20 OR C-25.30)" is revised to read 34 35 "BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21, 24, OR 25 (SEE 36 STANDARD PLAN C-25.20, C-25.30, OR C-25.32)" 37 38 A-60.40 39 Note 2 reference to "6-09.3(6)" is revised to read "6-21.3(7)". 40 41 B-90.40 42 Valve Detail – DELETED 43 44 C-2c60.10 45 DELETEDSheet 1 of 2, Side view, add new callout pointing to the outer edges of the 3" x 46 12" lifting slots at bottom of barrier. New callout reads "PERMISSIBLE 3/4" CHAMFER." 47 Sheet 1 of 2, Side view, add 2-inch diameter lifting holes centered 32" from each end of 48 the barrier and 15" from the top face (2 lifting holes total). Add new callout pointing to the 49 new lifting holes. New callout reads "PERMISSIBLE 2" DIAM. LIFTING HOLE" 50 51 C-4f

1 2	DELETED
3	<u>C-20.42</u> DELETED
5	C-23.70
7 8	Sheet 2, ANCHOR BRACKET ASSEMBLY DETAIL, dimension, "R. 5/16" is revised to read; R. 15/16"
9 10	ANCHOR PLATE DETAIL, weld callout (fillet), 1/4" is revised to read; 3/16"
11 12	<u>C-81.15</u> <u>Sheet 1, General Notes, Add Note 7, to read;"7. The concrete class for the moment slab</u>
13	shall be class 4000 typically and class 4000A when the top of the slab is used as the
14	roadway, or sidewalk, surface. The concrete class for the barrier is defined in Standard Specification Section 6-10.3."
16 17	
18 19	On Section B, the callout "3" EXPANDED POLYSTYRENE AROUND COLUMN (TYP.)" is revised to read "3" EXPANDED POLYSTYRENE OR POLYETHYLENE FOAM AROUND
20 21	COLUMN (TYP.)"
22 23	<u>D-3.09</u> Sheet 1, Geosynthetic Wall with 2 FT Traffic Surcharge detail, callout – "BARRIER ON
24 25	WALL ~ SEE Standard Plan D-3.15 or D-3.16" is revised to read: "BARRIER ON WALL ~ SEE Standard Plan C-81.10 and/or C-81.15"
26 27	<u>D-3.10</u>
28 29	Sheet 1, Typical Section, callout – "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-
30 31	3.15" is revised to read; "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS"
32 33	Sheet 1, Typical Section, callout – "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16" is revised
34 35	to read; "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS"
36 37	<u>D-3.11</u> Sheet 1, Typical Section, callout – ""B" BRIDGE APPROACH SLAB (SEE BRIDGE
38 39	PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "B" BRIDGE APPROACH SLAB OR
40 41	MOMENT SLAB (SEE CONTRACT PLANS) Sheet 1, Typical Section, callout – "TYPICAL BARRIER ON BRIDGE APPROACH SLAB
42 43	(SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "TYPICAL BARRIER ON
44 45	BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)
46 47	<u>D-10.10</u> Note 7, "If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-
48 49	15.30" is revised to read "Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 1 and 1SW". Wall Type 1 may be used if no
50 51	traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the
· • ·	

1 2 3	current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.
4 5 6 7 8 9 10 11 12	D-10.15 Note 7, "If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D- 15.30" is revised to read "Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 2 and 2SW". Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 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 11/3/15 Bridge Design memorandum.
13 14	<u>D-10.30</u> Wall Type 5 may be used in all cases.
15 16 17	<u>D-10.35</u> Wall Type 6 may be used in all cases.
18 19 20 21 22 23 24 25 26	D-10.40 Note 5, "If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D- 15.30" is revised to read "Traffic Barriers shall not be structurally connected to the <u>Reinforced Concrete Retaining Wall Type 7". Wall Type 7 may be used if no traffic barrier</u> is attached on top of the wall. Walls with traffic 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 11/3/15 Bridge Design memorandum.
27 28 29 30 31 32 33 34	D-10.45 Note 5, "If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D- 15.30" is revised to read "Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 8". Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 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 stated in the 11/3/15 Bridge Design memorandum.
35 36 37 38 39 40 41 42 42	<u>F-10.18</u> <u>General Note 1; "Construct curb joints at concrete pavement transverse joint locations. If</u> <u>all adjacent pavement is HMA, see Standard Plam F-30.10 for Curb Expansion and</u> <u>Contraction Joint Spacing." Is revised to read – "See Standard Plan F-30.10 and Standard Specification Section 8-04.3 for Curb Expansion and Contraction Joint details and <u>spacing."Note 2, "Region Traffic engineer approval is needed to install a truck apron lower</u> <u>than 3"." - DELETED</u></u>
43 44 45 46	F-30.10 All five instances of the "2.0% MAX." are replaced with "2.1% MAX."
47 48 49	<u>F-40.12</u> The one instance of "2.0% MAX." is replaced with "2.1% MAX." Note 7 is replaced with the following:
50 51 52	7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the

1	landing. Do not include the abutting landing in the Curb Ramp length measurement. When
2	a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius
3	along the back of the walkway.
4	Section B is amended as follows:
5	Delete: "15' – 0" MAX. (TYP.)"
6	Section C is amended as follows:
7	Delete: "15' – 0" MAX. (TYP.)"
8	
9	F-40.14
10	The one instance of "2.0% MAX." is replaced with "2.1% MAX."
10	Note 7 is replaced with the following:
12	7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted
13	herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for
14	
	details. Use a single constant slope from bottom of ramp to top of ramp to match into the
15	landing. Do not include the abutting landing in the Curb Ramp length measurement. When
16	a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius
17	along the back of the walkway.
18	Section A is amended as follows:
19	<u>Delete: "15' – 0" MAX. (TYP.)"</u>
20	Section C is amended as follows:
21	<u>Delete: "15' – 0" MAX. (TYP.)"</u>
22	
23	<u>F-40.15</u>
24	The one instance of "2.0% MAX." is replaced with "2.1% MAX."
25	Note 7 is replaced with the following:
26	7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted
27	herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for
28	details. Use a single constant slope from bottom of ramp to top of ramp to match into the
29	landing. Do not include the abutting landing in the Curb Ramp length measurement.
30	Section A is amended as follows:
31	<u>Delete: "15' – 0" MAX. (TYP.)"</u>
32	
33	<u>F-40.16</u>
34	The one instance of "2.0% MAX." is replaced with "2.1% MAX."
35	Note 8 is replaced with the following:
36	7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted
37	herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for
38	details. Use a single constant slope from bottom of ramp to top of ramp to match into the
39	landing. Do not include the abutting landing in the Curb Ramp length measurement.
40	Section A is amended as follows:
41	<u>Delete: "15' – 0" MAX. (TYP.)"</u>
42	Section B is amended as follows:
43	Delete: "15' – 0" MAX. (TYP.)"
44	
45	F-80.10
46	The one instance of "2.0% MAX." is replaced with "2.1% MAX."
47	Note 6 is replaced with the following:
48	The running slope of the Pedestrian Ramp shall not exceed 8.3% maximum except as
49	noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract
50	plans for details. Use a single constant slope from bottom of ramp to top of ramp to match
51	into the sidewalk.
52	Section A is amended as follows:
~-	

1 2	Delete: "15" Max."
2 3 4 5 6 7 8 9 10	<u>J-10.10</u> 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)"
10 11 12 13	<u>J-10.16</u> Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
14 15 16	<u>J-10.17</u> Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
17 18 19	<u>J-10.18</u> Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
20 21 22 22	<u>J-20.26</u> Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."
23 24 25 26	Add General Note 2, to read: "Signs shown are for locations with pedestrian signal displays (Accessible Pedestrian Signals/APS). Accessible information device (AID) pushbuttons signs not shown." Revise View Titles (Both Sheets) to read: "ACCESSIBLE PEDESTRIAN PUSHBUTTON
27 28 29	<u>ASSEMBLY"</u> J-20.16
30 31 32	View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE
33 34 35	Sheet 1, Anchor Bolt Template, callout; "9" (IN) BOLT CIRCLE" is revised to read: "9" (IN) DIA.BOLT CIRCLE" Base Plate Detail, callout; "3/4" (IN) STEEL PLATE WITH HOLE = POLE BASE + 1/6"
36 37 38 39	(IN)" IS REVISED TO READ; "3/4" (IN) STEEL PLATE WITH HOLE = POLE BASE + <u>1/16" (IN)"</u> Flat Foundation Detail – Elevation, callout; "ANCHOR BOLTS ~ ³ / ₄ " (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" is revised to read; "ANCHOR BOLTS ~ ³ / ₄ "
40 41 42	(IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY" Flat Foundation Detail – Elevation, dimension; 4' – 0" is revised to read; "4' – 0" ROUND OR 3' – 0" SQUARE"Sheet 1 of 2, Elevation View, Round Concrete Foundation Detail,
43 44 45	callout — "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"
46 47 48	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 0 # 4 reinforcing.
49 50 51	to find 2 # 4 reinf. Bar. Sheet 1 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

1	the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
2	1 # 4 reinf. Bar.
3	Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top
4	of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
5	the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
6	2 # 4 reinf. Bar.
7	Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top
8	of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
9	the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
10	<u>1 # 4 reinf. Bar.</u>
11	Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping
12	Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam.
13	Torque Clamping Bolts (see Note 1)"
14	Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is
15	revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"
16	$\frac{1}{1} = \frac{1}{1} = \frac{1}$
10	J-21.15
18	Partial View, callout, was – LOCK NIPPLE ~ 1 $\frac{1}{2}$ " DIAM., is revised to read; CHASE
10	NIPPLE ~ $1\frac{1}{2}$ " (IN) DIAM.
	$NIFFLE \approx 1.72 (IN) DIAW.$
20	
21	J-21.16 Detail A collect was I OCKNUPPLE is revised to ready CLASE NUPPLE
22	Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE
23	
24	<u>J-22.15</u>
25	Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6' 0"
26	(2x) Detail A, callout, was - LOCK NIPPLE ~ 1 ¹ / ₂ " DIAM. is revised to read; CHASE
27	NIPPLE ~ 1 $\frac{1}{2}$ " (IN) DIAM.
28	
29	<u>J-40.10</u>
30	Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S.
31	FLAT WASHER" is revised to read; "12 – 13 x 1 1/2" S.S. PENTA HEAD BOLT AND 1/2"
32	(IN) S. S. FLAT WASHER"
33	
34	<u>J-40.36</u>
35	Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
36	revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
37	Pickled) for the cover.
38	
39	<u>J-40.37</u>
40	Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
41	revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
42	Pickled) for the cover.
43	,
44	J-75.20
45	Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel
46	Bands", add the following to the end of the note: "Alternate: Stainless steel cable with
47	stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel
48	bands and associated hardware."
49	
50	J-75.55
51	Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.
52	,,, ,,

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."

- Sheet 2, 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."
- <u>M-40.10</u>

Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - "(SEE NOTE 5)"

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.

A-10.10-00 8/7/07	A-30.35-0010/12/07	A-50.10-0 <mark>2</mark> 4
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-60.10-03 12/23/14
A-20.10-008/31/07	A-40.15-008/11/09	A-60.20-03 12/23/14
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-40.50-03 9/12/23	A-60.40-008/31/07
B-5.20-03 9/9/20	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	B-30.80-01 2/27/18	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-15.20-01 2/7/12	B-35.20-00 6/8/06	B-85.10-01 6/10/08
B-15.40-01 2/7/12	B-35.40-01 8/23/23	B-85.20-00 6/1/06
B-15.60-021/26/17	B-40.20-006/1/06	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
B-30.05-00 9/9/20	B-60.20-02 9/9/20	B-90.40-01 1/26/17
B-30.10-032/27/18	B-60.40-01 2/27/18	B-90.50-00 6/8/06
B-30.15-002/27/18	B-65.20-01 4/26/12	B-95.20-02 8/17/21
B-30.20-042/27/18	B-65.40-00 6/1/06	B-95.40-01 6/28/18
B-30.30-032/27/18	B-70.20-01 3/15/22	
C-1 9/8/22	C-22.16-08 10/17/23	C-60.60-0 <u>10 8/4</u> 7/21/24
C-1b10/12/23	C-22.40-1 <u>10107/2</u> 16/2 <u>4</u> 3	C-60.70-019/8/22
C-1d10/31/03	C-22.45-0 <mark>7</mark> 6 <u>7</u> 9/ <u>21</u> 8/2 <mark>4</mark> 2	C-60.80-0 <u>2</u> 4 <u>7/219/8</u> /2 <u>4</u> 2
C-2c8/12/19	C-23.70-01 10/16/23	C-70.15-0 <mark>1</mark> 0
C-4f8/12/19	C.24.10-0 <u>5</u> 410/16 <u>7/21</u> /2 <u>4</u> 3	C-70.10-04 10/16/23

<u>L-5.10</u>

	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} C-24.15-00 & \dots & 3/15/22 \\ C-25.20-07 & \dots & 8/20/21 \\ C-25.22-06 & \dots & 8/20/21 \\ C-25.26-05 & \dots & 8/20/21 \\ C-25.30-01 & \dots & 8/20/21 \\ \hline C-25.30-01 & \dots & 8/20/21 \\ \hline C-25.80-05 & \dots & 8/12/19 \\ C-60.10-0\underline{43107}/216/2\underline{43} \\ C-60.15-0\underline{1078}/2\underline{17}/2\underline{44} \\ C-60.20-01 & \dots & 9/8/22 \\ \hline C-60.30-0\underline{248}/47/21/2\underline{44} \\ \hline C-60.40-0\underline{108}/47/21/2\underline{44} \\ \hline C-60.45-0\underline{108}/47/21/2\underline{44} \\ \hline C-60.50-0\underline{108}/47/21/2\underline{44} \\ \hline C-60.50-0\underline{108}/47/21/2\underline{44} \\ \hline \end{array}$	$\begin{array}{c} C-75.10-02 & \ldots & 9/16/20 \\ C-75.20-03 & \ldots & 8/20/21 \\ C-75.30-03 & \ldots & 10/16/23 \\ C-80.10-03 & \ldots & 10/16/23 \\ C-80.20-01 & \ldots & 6/11/14 \\ C-80.30-02 & \ldots & 8/20/21 \\ C-80.40-01 & \ldots & 6/11/14 \\ C-85.10-00 & \ldots & 4/8/12 \\ C-85.11-01 & \ldots & 9/16/20 \\ C-85.15-03 & \ldots & 10/17/23 \\ C-85-18-03 & \ldots & 9/8/22 \\ C-81.10-00 & \ldots & 9/12/23 \\ C-81.15-00 & \ldots & 9/12/23 \\ \end{array}$
·	D-2.36-036/11/14	D-3.11-03 6/11/14	D-10.25-018/7/19
	D-2.46-028/13/21	D-4 12/11/98	D-10.30-007/8/08
	D-2.84-0011/10/05	D-6 6/19/98	D-10.35-007/8/08
	D-2.92-014/26/22	D-10.10-01 12/2/08	D-10.40-0112/2/08
	D-3.09-005/17/12	D-10.15-01 12/2/08	D-10.45-0112/2/08
	D-3.10-015/29/13	D-10.20-01 8/7/19	D-20.10-0010/9/23
2	E-12/21/07	E-4	E-20.10-00 9/12/23
3	E-25/29/98		E-20.20-00 10/4/23
	F-10.12-049/24/20 F-10.16-0012/20/06 F-10.18-043 <u>36</u> /28/242 F-10.40-049/24/20 F-10.42-001/23/07	F-10.62-024/22/14 F-10.64-034/22/14 F-30.10-049/25/20 F-40.12-036/29/16 F-40.14-036/29/16	F-40.15-04 9/25/20 F-40.16-03 6/29/16 F-45.10-0 <u>5</u> 410/16/4/2 <u>43</u> F-80.10-04 7/15/16
4	G-10.10-009/20/07 G-20.10-038/20/21 G-22.10-046/28/18 G-24.10-0011/8/07 G-24.20-012/7/12 G-24.30-026/28/18 G-24.40-076/28/18	G-24.50-058/7/19 G-24.60-056/28/18 G-25.10-059/16/20 G-26.10-007/31/19 G-30.10-046/23/15 G-50.10-036/28/18	G-90.10-037/11/17 G-90.20-057/11/17 G-90.30-047/11/17 G-95.10-026/28/18 G-95.20-036/28/18 G-95.30-036/28/18
6	H-10.10-0 <u>1</u> 9 <u>6/2/24</u> 7/3/08 <u>H-10.11-006/2/24</u> H-10.15-0 <u>1</u> 9 <u>6/2/24</u> 7/3/08 H-10.16-006/2/24	H-30.10-00 10/12/07 H-32.10-00 9/20/07 H-60.10-01 7/3/08 H-60.20-01 7/3/08	H-70.10-02 8/17/21 H-70.20-02 8/17/21
7	I-10.10-018/11/09	I-30.20-009/20/07	I-40.20-009/20/07
	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
-	J-05.50-008/30/22	J-26.10-037/21/16	J-50.05-007/21/17
	J-107/18/97	J-26.15-015/17/12	J-50.10-017/31/19

	J-10.10-049/16/20	J-26.20-016/28/18	J-50.11-02 7/31/19
	J-10.12-009/16/20	J-27.10-017/21/16	J-50.12-02 8/7/19
	J-10.14-009/16/20	J-27.15-003/15/12	J-50.13-01 8/30/22
	J-10.15-016/11/14	J-28.01-00	J-50.15-017/21/17
	J-10.16-028/18/21	J-28.10-028/7/19	J-50.16-01 3/22/13
	J-10.17-028/18/21	J-28.22-008/07/07	J-50.18-00 8/7/19
	J-10.18-028/18/21	J-28.24-029/16/20	J-50.19-00 8/7/19
	J-10.20-048/18/21	J-28.26-01 12/02/08	J-50.20-00 6/3/11
	J-10.21-028/18/21	J-28.30-0 <u>4</u> 36/1 <u>8</u> 1/1 <u>2</u> 4	J-50.25-00 6/3/11
I	J-10.22-0310/4/23	J-28.40-02 6/11/14	J-50.30-00 6/3/11
1			J-60.05-017/21/16
I	J-10.25-0 <u>1076</u> /1 <u>2</u> 1/ <u>24</u> 17	J-28.42-01 6/11/14	
	J-10.26-008/30/22	J-28.43-016/28/18	J-60.11-00 5/20/13
	J-12.15-006/28/18	J-28.45-037/21/16	J-60.12-00 5/20/13
	J-12.16-006/28/18	J-28.50-037/21/16	J-60.13-00 6/16/10
	J-15.10-016/11/14	J-28.60-038/27/21	J-60.14-017/31/19
	J-15.15-027/10/15	J-28.70-048/30/22	J-75.10-02 7/10/15
1	J-20.01-010.8/306/21/242	J-29.10-02 8/26/22	J-75.20-01 7/10/15
	J-20.05-006/21/24	J-29.15-01	J-75.30-02 7/10/15
		J-29.16-027/21/16	J-75.50-02 8/30/22
	J-20.10-0510/4/23		
1	J-20.11-037/31/19	J-30.10-01	J-75.55-00 8/30/22
	J-20.15-0 <u>4</u> 3 6/ <u>2130</u> /1 <u>2</u> 4	J-40.01-008/30/22	J-80.05-00 8/30/22
	J-20.16-026/30/14	J-40.05-007/21/16	J-80.10-01 8/18/21
	J-20.20-025/20/13	J-40.10-044/28/16	J-80.12-00 8/18/21
	J-20.26-017/12/12	J-40.20-03 4/28/16	J-80.15-00 6/28/18
	J-21.10-0 <u>5</u> 4 6/ <u>21</u> 30/4 <mark>2</mark> 4	J-40.30-044/28/16	J-81.10-02 8/18/21
·	J-21.15-016/10/13	J-40.35-015/29/13	J-81.12-009/3/21
	J-21.16-0 <mark>2</mark> 4 6/ <u>2</u> 1 0 / <u>24</u> 43	J-40.36-027/21/17	J-84.05-00 8/30/22
I	J-21.17-016/10/13	J-40.37-027/21/17	J-86.10-006/28/18
	J-21.20-016/10/13	J-40.38-01	J-90.10-03 6/28/18
	J-22.15-0 <u>3</u> 2 <u>6/21/24</u> 7/10/15	J-40.39-00	J-90.20-03 6/28/18
I	J-22.16-037/10/15	J-40.40-02	J-90.21-02 6/28/18
1		J-45.36-00 7/21/17	J-90.50-00 6/28/18
	<u>J-22.17-006/21/24</u>	J-45.30-00 1/2 1/17	J-90.50-00 0/20/10
1		K 00 00 00 01/17/04	
	K-70.20-01 6/1/16	K-80.32-00 8/17/21	
-	K-80.10-029/25/20	K-80.34-00 8/17/21	K-80.37-01 9/16/20
2			
	L-5.10-0 <u>2</u> 4 <u>6</u> 7/ <u>5</u> 17/2 <u>4</u> 3	L-20.10-037/14/15	L-40.20-02 6/21/12
	L-5.15-009/19/22	L-30.10-02 6/11/14	L-70.10-01 5/21/08
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I	M-1.80-036/3/11	M-15.10-027/17/23	M-40.30-01 7/11/17
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1	M-3.10-049/25/20	M-20.20-024/20/15	M-40.60-009/20/07
	M-3.20-04 8/2/22	M-20.30-0 <u>5</u> 4 <u>6</u> 2/2 <u>89</u> / <u>24</u> 16	M-60.10-01 6/3/11
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	M-3.50-039/25/20	M-24.20-024/20/15	M-80.10-01 6/3/11
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M-7.50-011/30/07	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	