

Contract Provisions



FOR THE 2019 GRAVEL CRUSHING OR SUPPLY PROJECT



February 2019
OKANOGAN COUNTY DEPARTMENT OF PUBLIC WORKS
1234-A Second Avenue South, Okanogan WA 98840

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INTRODUCTION SECTION

BOARD APPROVAL

NOTICE TO PLAN HOLDERS

INVITATION TO BID

AUTHORIZATION TO CALL FOR BIDS

Authorization given: **February 19, 2019**
to CALL FOR BIDS by the Department of Public Works for:

2019 Gravel Crushing or Supply Contract

Bids are to be open on the date specified in the contract provisions at the Office of the County Commissioners, Grainger Administrative Building, 123 5th Avenue N, Room 150, Okanogan, WA 98840

BOARD OF COUNTY COMMISSIONERS
OKANOGAN COUNTY, WASHINGTON


Yea Nay Abstain



Jim Detroy, Chair

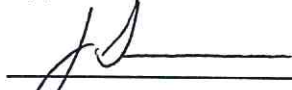


Chris Branch, Member



Andy Hoyer, Member

Approved:



County Engineer

ATTEST:



Clerk of the Board



OKANOGAN COUNTY

2019 Gravel Crushing or Supply Project

NOTICE TO ALL PLANHOLDERS:

The bid opening for this project is **March 26, 2019 at 10:45 AM Pacific Time**. Sealed bids will be received by mail or hand carried as indicated in Section 1-02.12 of the attached Special Provisions.

The Okanogan County Department of Public Works may be contacted to answer questions regarding these bid documents and to show this project to prospective bidders.

Contact:

Shasta Stidman, Contracts Administrator
(509) 422-7333 or email sstidman@co.okanogan.wa.us

Okanogan County Department of Public Works
1234 A Second Avenue South
Okanogan, WA 98840
Phone: (509) 422-7300 Fax: (509) 422-7301

As the Engineer in direct responsible charge of developing these contract provisions, I certify these provisions have been developed or incorporated into this project under my direct supervision, or as a result of certified recommendations provided by other licensed professionals.



Joshua L. Thomson, P.E. 3/01/19
County Engineer Date

INVITATION TO BID

Sealed bids for the **2019 Gravel Crushing or Supply Project**, will be received by Okanogan County at the Office of the Board of County Commissioners, located on the first floor of the Grainger Administration Building, 123 Fifth Avenue North, Room 150, Okanogan, Washington. Mailed proposals must be received by no later than the last working day prior to the bid opening date. Hand carried proposals will be received only by the Clerk of the Board of County Commissioners at the address stated above until **10:45:00AM Pacific Time, Tuesday March 26th, 2019** and will then and there be opened and publicly read. No facsimiles or electronic proposals will be accepted.

All bid proposals shall be accompanied by a bid proposal deposit by certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish a satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to Okanogan County.

Project Specifications are available at the office of the County Engineer, 1234A 2nd Ave. South, Okanogan, WA 98840 or contact the Contracts Administrator at 509-422-7333. Bid proposals must be submitted on the original documents provided in the accompanying bid packet.

Informational Project Specifications are also available on the County website at www.okanogancounty.org/PW and in various plan centers located in Washington.

The County of Okanogan in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex, in consideration for an award.

The Board of Commissioners of Okanogan County, reserves the right to reject any and all bids and to waive informalities in the bidding. The award of this contract, if made, will be to the lowest responsible bidder.

This Contract provides for the production or supply of 30,000 tons of ½" Special Crushed Coverstone, 20,000 tons of Crushed Surfacing Top Course, 10,000 tons of Special Screened Waste Sand, including haul to Stockpile, and other work including Site Reclamation, at one Okanogan County pit site location in accordance with the Contract Plans, Contract Provisions, and the Standard Specifications.

PUBLISHER'S NOTE: Please publish **ONCE** during the week of March 3, 2019 and **ONCE** during the week of March 10, 2019 and furnish an Affidavit of Publication to Okanogan County Dept. of Public Works at 1234-A Second Avenue South, Okanogan, WA 98840, Attn: Shasta Stidman
Public Works Accounting: Function 320 Methow Valley News, Okanogan Valley Gazette-Tribune

BIDDING PROCEDURES SECTION

BIDDER'S CHECKLIST

INFORMATIONAL BID PROPOSAL

INFORMATIONAL BID PROPOSAL BOND

NON-COLLUSION DECLARATION

WAGE RATE CERTIFICATION

BIDDER'S CHECKLIST, SUCCESSFUL BIDDER'S SUBMITTALS and CONTRACTOR REQUIRED SUBMITTALS

The following checklist is informational only and lists minimal submittals required from the Bidder or Successful Contractor. It is not all inclusive. See Standard Specifications and Contract Provisions.

SUBMITTALS REQUIRED WITH BID

- A. Properly Completed and Signed Proposal (County provided Bid Proposal Form only)
- B. Bid Deposit or Bid Bond (County provided Bid Bond Form only)
- C. Addendum Acknowledgement, if any (on proposal)
- D. Non-Collusion Declaration DOT Form 272-0361 EF
- E. Local Agency Subcontractor List (DOT Form 271-015A EF, only when applicable)
- F. Wage Rate Certification (County provided Wage Rate Certification Form only)

SUBMITTALS REQUIRED FROM SUCCESSFUL BIDDER

Prior to Contract Execution by County Commissioners

The Successful bidder is required to submit the following:

- A. Signed Contract Document by Contractor
- B. Certificate of Insurance
- C. Contract (Performance) Bond (County provided Performance Bond Form only)

Prior to Notice to Proceed

The Successful bidder is required to submit the following for approval by the Engineer:

- A. Construction Progress Schedule
- B. Attend Preconstruction Meeting

CONTRACTOR SUBMITTALS DURING CONSTRUCTION

Some of the following items are required by both the Prime Contractor and Subcontractors. The County will assist the Contractor in the acquisition of any forms or submittals of the following requirements.

- A. Intent to Pay Prevailing Wage and Affidavit of Wages Paid for prime and all subs.
- B. Weekly Certified Payrolls for prime and all subs.
- C. Other submittals specific to the Prime Contractor's or Subcontractor's operations. (Request to Sublet, Subcontractor/Lower Tier Certification, etc.)
- D. Any agreements, easements, other permits acquired by the Contractor or Subcontractor associated with work on this contract.
- E. DBE Reporting (when applicable)
- F. Annual EEO Report (FHWA 1391, when applicable)

BID PROPOSAL

Okanogan County Department of Public Works

TO: The Board of County Commissioners, Okanogan, Washington

This certifies that the undersigned has examined the location of the Gravel Pit and Stockpile Site involved in the:

2019 GRAVEL CRUSHING OR SUPPLY PROJECT

and that the Plans, Specifications and Contract governing the work embraced in this work, and the method by which payment will be made for said work is understood. The undersigned hereby proposes to undertake and complete the work embraced in this work, or as much thereof as can be completed with the money available, in accordance with the said Plans, Specifications, and Contract, and the following schedule of rates and prices:

NOTE: Unit prices, extensions, & total amounts shall be entered in figures. Entries must be typed or entered in ink.

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT BID PRICE in Dollars and Cents	TOTAL AMOUNT in Dollars and Cents
----------	---------------	------------------	-------------------------------------	-----------------------------------

P1-16, Greenacres Pit

1	Lump Sum	Mobilization	Lump Sum	\$ _____
2	30,000 Ton	½" Special Crushed Coverstone in Stockpile	@ \$ _____ per Ton	\$ _____
3	20,000 Ton	Crushed Surfacing Top Course in Stockpile	@ \$ _____ per Ton	\$ _____
4	10,000 Ton	Special Screened Waste Sand in Stockpile	@ \$ _____ per Ton	\$ _____
5	Lump Sum	Site Reclamation	Lump Sum	\$ _____
6	Lump Sum	SPCC Plan	Lump Sum	\$ _____

TOTAL BID \$ _____

SIGNATURE PAGE

The undersigned further certif. _____ that _____ is/are thoroughly aware that time is of the essence for completion of this contract within the time stated in the Special Provisions.

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

The undersigned hereby agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the Special Provisions for this project.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

- CASHIER'S CHECK }
or }
 CERTIFIED CHECK } IN THE AMOUNT OF _____ DOLLARS,
PAYABLE TO OKANOGAN COUNTY.
- or a
 PROPOSAL BOND IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID.

Receipt is hereby acknowledged of Addend(um)(a) No(s). _____, _____, & _____.

SIGNATURE OF AUTHORIZED OFFICIAL(S):

FIRM NAME: _____

BY: _____
Signature

PRINTED NAME: _____

TITLE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX No: _____

WA Contractor's License #: _____ Federal ID #: _____

1. If the bidder is a corporation, this proposal must be executed by its duly authorized officials.
2. This proposal is not transferable. Any alteration of the firm's name entered hereon without prior permission from the Okanogan County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.
3. Please refer to Section 1-02.6 of the Standard Specifications, "Preparation of Proposal," or "Article 4" of the Instructions to Bidders for building construction projects.
4. Should it be necessary to modify this proposal in writing, please make reference to the following proposal number in your communication: _____.

Bid Bond

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as
Principal, and _____, as
Surety, are held and firmly bound unto Okanogan County, Washington, as Obligee, in the penal
sum of _____
Dollars (\$_____) for the payment of which the Principal and Surety bind
themselves, their heirs, executors, administrators, successors and assigns, jointly and severally,
by these presents.

The condition of the obligation is such that if the Obligee shall make any award to the
Principal for, **2019 Gravel Crushing or Supply Project** located in Okanogan County, Washington,
according to the terms of the proposal or bid made by the Principal therefor, and the Principal
shall duly make and enter into a contract with the Obligee in accordance with the terms of said
proposal or bid and award and shall give bond for the faithful performance thereof, with the
Surety or Sureties approved by the Obligee; or if the principal shall, in case of failure so to do,
pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids,
then this obligation shall be null and void; otherwise it shall be and remain in full force and
effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated
damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS _____ DAY OF _____, 2019

Principal _____

Surety _____

Attorney-in-Fact _____

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. **That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.



Okanogan County

Department of Public Works

County Engineer
Joshua L. Thomson, PE

1234-A Second Ave. S. –
Public Services Building
Okanogan, WA 98840-9723

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (March 26, 2019), the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Bidder’s Business Name

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Sole Proprietorship Partnership Joint Venture Corporation

State of Incorporation, or if not a corporation, State where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

CONTRACT SECTION

INFORMATIONAL CONTRACT

INFORMATIONAL CONTRACT BOND

PUBLIC WORKS CONTRACT

THIS AGREEMENT, made and entered into between the Board of County Commissioners of Okanogan County, State of Washington, acting under and by virtue of Title 36 and Title 39 R.C.W. as amended, hereinafter referred to as "The County," and

*****Contractor Name*****

or its heirs, executors, administrators, successors and assigns, hereinafter referred to as "The Contractor,"

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this Agreement, the parties hereto covenant and agree as follows:

1. The Contractor shall do all work and furnish all labor, tools, materials, and equipment necessary to construct and complete the following for Okanogan County, Washington:

2019 Gravel Crushing or Supply Project

in accordance with and as described in the attached plans and specifications, and the 2018 Standard Specifications for Road, Bridge, and Municipal Construction, adopted by the Washington State Department of Transportation, the American Public Works Association and Okanogan County, which are by this reference incorporated herein and made a part hereof, and shall perform any changes in the work in accordance with the Contract Documents.

The Contractor shall provide and bear the expense of all materials, labor, equipment, tools, and work of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in these contract documents.

2. Okanogan County hereby promises and agrees with the Contractor to employ, and does employ the Contractor to provide the materials and to do and cause to be done the above described work and to complete and finish the same in accordance with the attached plans and specifications and the terms and conditions herein contained and hereby contracts to pay for the same according to the attached specifications and the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract.
3. The Contractor for himself/herself, and for his/her heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.
4. It is further provided that no liability shall attach to the County by reason of entering into this contract, except as expressly provided herein.
5. The Contractor hereby certifies by execution of this contract that he is registered or licensed as may be required by the laws of the State of Washington, Chapter 18.27 R.C.W.

IN WITNESS WHEREOF, the said Contractor has executed this instrument on the day and year first written below, and the said Board of County Commissioners of Okanogan County has caused this instrument to be executed by its Chairman in the name of the said Board and in the name of Okanogan

County, duly attested by its Clerk, and the seal of said Board to be hereunto affixed on the day and year last written below.

Executed by the Contractor this _____ day of _____, 2019.

CONTRACTOR: _____

By: _____
Signature Title

PRINTED NAME: _____

ADDRESS: _____

City State Zip

PHONE: _____

FAX Number: _____

State Of Washington Contractor's License Number: _____

Federal I.D. Number: _____

DATED at Okanogan, Washington this _____ day of _____, 2019.

BOARD OF COUNTY COMMISSIONERS
OKANOGAN COUNTY, WASHINGTON

Jim Detro, Chair

Chris Branch, Member

ATTEST:

Lalena Johns, Clerk of the Board

Andy Hover, Member



Contract Bond

Department of Public Works Construction

KNOW ALL PERSONS BY THESE PRESENTS, That _____

of _____, as Principal,

and _____ as Surety, are jointly and severally held and bound unto Okanogan County, in the penal sum of

_____ Dollars

(\$ _____), the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, and assigns, and successors and assigns, firmly by these presents.

The CONDITION of this bond is such that WHEREAS, on the _____ day of _____ A.D., _____, the said _____

_____ Principal, herein, executed a certain contract with Okanogan County, by the terms, conditions, and provisions of which contract the said _____

_____ Principal, herein, agree to furnish all material and do certain

work, to wit: That _____ will undertake and complete the construction of _____ according to the maps, plans and specifications made a part of said contract, which contract as so executed, is hereunto attached, is now referred to and by reference is incorporated herein and made a part hereof as fully for all purposes as if here set forth at length. This bond shall cover all approved change orders as if they were in the original contract. Similarly, the bond shall cover payment of all taxes incurred on said contract under title 50 and 51 Revised Code of Washington (RCW) and all taxes imposed on the Principle under Title 82 RCW.

NOW, THEREFORE, if the Principal herein shall faithfully and truly observe and comply with the terms, conditions, and provisions of said contract in all respects and shall well and truly and fully do and perform all matters and things by them undertaken to be performed under said contract, upon the terms proposed therein, and within the time prescribed therein, and until the same is accepted, and shall pay all laborers, mechanics, subcontractors, and material men, and all persons who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and shall pay all taxes pursuant to Title 50, and 51, and 82 RCW, and shall in all respects, faithfully perform said contract according to law, then this obligation to be void, otherwise to remain in full force and effect.

WITNESS our hands this _____ day of _____, _____

(Principal)

(Attorney-in-fact, Surety)

Name and Address Local Office of Agent

APPROVED:

Okanogan County
Deputy Civil Prosecutor

By: _____

Date: _____

Surety Bond No.

Okanogan County Contract No.

AMENDMENTS

To the Standard Specifications

SECTION

SPECIAL PROVISIONS

SECTION

1 **INTRODUCTION**

2 The following Amendments and Special Provisions shall be used in conjunction with the 2018
3 Standard Specifications for Road, Bridge, and Municipal Construction.

4

5

6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

7

8 The following Amendments to the Standard Specifications are made a part of this contract and
9 supersede any conflicting provisions of the Standard Specifications. For informational
10 purposes, the date following each Amendment title indicates the implementation date of the
11 Amendment or the latest date of revision.

12

13 Each Amendment contains all current revisions to the applicable section of the Standard
14 Specifications and may include references which do not apply to this particular project.

15

16 **Section 1-01, Definitions and Terms**

17

18 **August 6, 2018**

19 **1-01.3 Definitions**

20

21 The following new term and definition is inserted before the definition for "Shoulder":

22

23 **Sensitive Area** – Natural features, which may be previously altered by human activity,
24 that are present on or adjacent to the project location and protected, managed, or
25 regulated by local, tribal, state, or federal agencies.

26

27 The following new term and definition is inserted after the definition for "Working Drawings":

28

29 **WSDOT Form** – Forms developed and maintained by WSDOT that are required or
30 available for use on a project. These forms can be downloaded from the forms catalogue
31 at:

32

33 <http://wsdot.wa.gov/forms/pdfForms.html>

34

35 **Section 1-02, Bid Procedures and Conditions**

36

37 **October 30, 2018**

38 **1-02.4(1) General**

39

40 This section is supplemented with the following:

41

42 Prospective Bidders are advised that the Contracting Agency may include a partially
43 completed Washington State Department of Ecology (Ecology) Transfer of Coverage
44 (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit (CSWGP)
45 as part of the Bid Documents. When the Contracting Agency requires the transfer of
46 coverage of the CSWGP to the Contractor, an informational copy of the Transfer of
47 Coverage and the associated CSWGP will be included in the appendices. As a condition
48 of Section 1-03.3, the Contractor is required to complete sections I, III, and VIII of the
Transfer of Coverage and return the form to the Contracting Agency.

49

50 The Contracting Agency is responsible for compliance with the CSWGP until the end of
51 day that the Contract is executed. Beginning on the day after the Contract is executed,
52 the Contractor shall assume complete legal responsibility for compliance with the CSWGP

53

1 and full implementation of all conditions of the CSWGP as they apply to the Contract
2 Work.

3
4 **1-02.5 Proposal Forms**

5 The first sentence of the first paragraph is revised to read:

6
7 At the request of a Bidder, the Contracting Agency will provide a physical Proposal Form
8 for any project on which the Bidder is eligible to Bid.

9
10 **1-02.6 Preparation of Proposal**

11 Item number 1 of the second paragraph is revised to read:

- 12
13 1. A unit price for each item (omitting digits more than two places to the right of the
14 decimal point),

15
16 In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised to read
17 "WSDOT Form 422-031U".

18
19 The following new paragraph is inserted before the last paragraph:

20
21 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
22 Compliance form (WSDOT Form 272-009). Failure to return this certification as part of
23 the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A
24 Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

25
26
27 **Section 1-03, Award and Execution of Contract**
28 **January 2, 2018**

29 **1-03.3 Execution of Contract**

30 The first paragraph is revised to read:

31
32 Within 20 calendar days after the Award date, the successful Bidder shall return the
33 signed Contracting Agency-prepared Contract, an insurance certification as required by
34 Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer
35 of Coverage form for the Construction Stormwater General Permit with sections I, III, and
36 VIII completed when provided, and shall be registered as a contractor in the state of
37 Washington.

38
39 **1-03.5 Failure to Execute Contract**

40 The first sentence is revised to read:

41
42 Failure to return the insurance certification and bond with the signed Contract as required
43 in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's Business
44 Enterprise information if required in the Contract, or failure or refusal to sign the Contract,
45 or failure to register as a contractor in the state of Washington, or failure to return the
46 completed Transfer of Coverage for the Construction Stormwater General Permit to the
47 Contracting Agency when provided shall result in forfeiture of the proposal bond or deposit
48 of this Bidder.
49

1 **Section 1-05, Control of Work**
2 **August 6, 2018**

3 **1-05.5 Vacant**

4 This section, including title, is revised to read:

5

6 **1-05.5 Tolerances**

7 Geometrical tolerances shall be measured from the points, lines, and surfaces defined in
8 Contract documents.

9

10 A plus (+) tolerance increases the amount or dimension to which it applies, or raises a
11 deviation from level. A minus (-) tolerance decreases the amount or dimension to which it
12 applies, or lowers a deviation from level. Where only one signed tolerance is specified (+
13 or -), there is no specified tolerance in the opposing direction.

14

15 Tolerances shall not be cumulative. The most restrictive tolerance shall control.

16

17 Tolerances shall not extend the Work beyond the Right of Way or other legal boundaries
18 identified in the Contract documents. If application of tolerances causes the extension of
19 the Work beyond the Right of Way or legal boundaries, the tolerance shall be reduced for
20 that specific instance.

21

22 Tolerances shall not violate other Contract requirements. If application of tolerances
23 causes the Work to violate other Contract requirements, the tolerance shall be reduced
24 for that specific instance. If application of tolerances causes conflicts with other
25 components or aspects of the Work, the tolerance shall be reduced for that specific
26 instance.

27

28 **1-05.9 Equipment**

29 The following new paragraph is inserted before the first paragraph:

30

31 Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose dirt
32 and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and
33 undercarriage. The Engineer will reject equipment from the site until it returns clean.

34

35 This section is supplemented with the following:

36

37 Upon completion of the Work, the Contractor shall completely remove all loose dirt and
38 vegetative debris from equipment before removing it from the job site.

39

40 **Section 1-06, Control of Material**

41 **January 7, 2019**

42 **1-06.1(3) Aggregate Source Approval (ASA) Database**

43 This section is supplemented with the following:

44

45 Regardless of status of the source, whether listed or not listed in the ASA database the
46 source owner may be asked to provide testing results for toxicity in accordance with
47 Section 9-03.21(1).

48

1 **1-06.2(2)D Quality Level Analysis**

2 This section is supplemented with the following new subsection:

3

4 **1-06.2(2)D5 Quality Level Calculation – HMA Compaction**

5 The procedures for determining the quality level and pay factor for HMA compaction are
6 as follows:

7

8

9

1. Determine the arithmetic mean, X_m , for compaction of the lot:

10
$$X_m = \frac{\sum x}{n}$$

11

12

Where:

13

x = individual compaction test values for each subplot in the lot.

14

$\sum x$ = summation of individual compaction test values

15

n = total number test values

16

17

18

2. Compute the sample standard deviation, "S", for each constituent:

19

$$S = \left[\frac{n\sum x^2 - (\sum x)^2}{n(n-1)} \right]^{\frac{1}{2}}$$

20

21

Where:

22

$\sum x^2$ = summation of the squares of individual compaction test values

23

$(\sum x)^2$ = summation of the individual compaction test values squared

24

25

26

3. Compute the lower quality index (Q_L):

27

$$Q_L = \frac{X_m - LSL}{S}$$

28

29

Where:

30

LSL = 92.0

31

32

33

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4. Determine P_L (the percent within the lower Specification limit which corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is equal to 100 minus the table P_L . If the value of Q_L does not correspond exactly to a figure in the table, use the next higher value.

5. Determine the quality level (the total percent within Specification limits):

Quality Level = P_L

6. Using the quality level from step 5, determine the composite pay factor (CPF) from Table 2.

7. If the CPF determined from step 6 is 1.00 or greater: use that CPF for the compaction lot; however, the maximum HMA compaction CPF using an LSL = 92.0 shall be 1.05.

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- 8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an LSL = 91.5. The value thus determined shall be the HMA compaction CPF for that lot; however, the maximum HMA compaction CPF using an LSL = 91.5 shall be 1.00.

1-06.2(2)D1 Quality Level Analysis

The following new sentence is inserted after the first sentence:

The quality level calculations for HMA compaction are completed using the formulas in Section 1-06.2(2)D5.

1-06.2(2)D4 Quality Level Calculation

The first paragraph (excluding the numbered list) is revised to read:

The procedures for determining the quality level and pay factors for a material, other than HMA compaction, are as follows:

1-06.6 Recycled Materials

The first three sentences of the second paragraph are revised to read:

The Contractor shall submit a Recycled Material Utilization Plan on WSDOT Form 350-075A within 30 calendar days after the Contract is executed. The plan shall provide the Contractor's anticipated usage of recycled concrete aggregates for meeting the requirements of these Specifications. The quantity of recycled concrete aggregate will be provided in tons and as a percentage of the Plan quantity for eligible material listed in Section 9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled Material.

The last paragraph is revised to read:

Within 30 calendar days after Physical Completion, the Contractor shall report the quantity of recycled concrete aggregates that were utilized in the construction of the project for each eligible item listed in Section 9-03.21(1)E. The Contractor's report shall be provided on WSDOT Form 350-075A, Recycled Materials Reporting.

1-06.6(1)A General

Item 1(a) in the second paragraph is revised to read:

- a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each material a documented price quote from the supplier with the lowest total cost for the Work.

**Section 1-07, Legal Relations and Responsibilities to the Public
August 6, 2018**

1-07.5 Environmental Regulations

This section is supplemented with the following new subsections:

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1-07.5(5) U.S. Army Corps of Engineers

When temporary fills are permitted, the Contractor shall remove fills in their entirety and the affected areas returned to pre-construction elevations.

If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special Provisions, the Contractor shall retain a copy of the permit or the verification letter (in the case of a Nationwide Permit) on the worksite for the life of the Contract. The Contractor shall provide copies of the permit or verification letter to all subcontractors involved with the authorized work prior to their commencement of any work in waters of the U.S.

1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service

The Contracting Agency will provide fish exclusion and handling services if the Work dictates. However, if the Contractor discovers any fish stranded by the project and a Contracting Agency biologist is not available, they shall immediately release the fish into a flowing stream or open water.

1-07.5(1) General

The first sentence is deleted and replaced with the following:

No Work shall occur within areas under the jurisdiction of resource agencies unless authorized in the Contract.

The third paragraph is deleted.

1-07.5(2) State Department of Fish and Wildlife

This section is revised to read:

In doing the Work, the Contractor shall:

1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
2. Not place materials below or remove them from the ordinary high water line except as may be specified in the Contract.
3. Not allow equipment to enter waters of the State except as specified in the Contract.
4. Revegetate in accordance with the Plans, unless the Special Provisions permit otherwise.
5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of water.
6. Ensure continuous stream flow downstream of the Work area.
7. Dispose of any project debris by removal, burning, or placement above high-water flows.
8. Immediately notify the Engineer and stop all work causing impacts, if at any time, as a result of project activities, fish are observed in distress or a fish kill occurs.

1 If the Work in (1) through (3) above differs little from what the Contract requires, the
2 Contracting Agency will measure and pay for it at unit Contract prices. But if Contract
3 items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-
4 09.4. Work in (4) through (8) above shall be incidental to Contract pay items.
5

6 **1-07.5(3) State Department of Ecology**

7 This section is revised to read:
8

9 In doing the Work, the Contractor shall:
10

- 11 1. Comply with Washington State Water Quality Standards.
- 12
- 13 2. Perform Work in such a manner that all materials and substances not specifically
14 identified in the Contract documents to be placed in the water do not enter
15 waters of the State, including wetlands. These include, but are not limited to,
16 petroleum products, hydraulic fluid, fresh concrete, concrete wastewater,
17 process wastewater, slurry materials and waste from shaft drilling, sediments,
18 sediment-laden water, chemicals, paint, solvents, or other toxic or deleterious
19 materials.
20
- 21 3. Use equipment that is free of external petroleum-based products.
- 22
- 23 4. Remove accumulations of soil and debris from drive mechanisms (wheels,
24 tracks, tires) and undercarriage of equipment prior to using equipment below the
25 ordinary high water line.
26
- 27 5. Clean loose dirt and debris from all materials placed below the ordinary high
28 water line. No materials shall be placed below the ordinary high water line
29 without the Engineer's concurrence.
30
- 31 6. When a violation of the Construction Stormwater General Permit (CSWGP)
32 occurs, immediately notify the Engineer and fill out WSDOT Form 422-011,
33 Contractor ECAP Report, and submit the form to the Engineer within 48 hours
34 of the violation.
35
- 36 7. Once Physical Completion has been given, prepare a Notice of Termination
37 (Ecology Form ECY 020-87) and submit the Notice of Termination electronically
38 to the Engineer in a PDF format a minimum of 7 calendar days prior to submitting
39 the Notice of Termination to Ecology.
40
- 41 8. Transfer the CSWGP coverage to the Contracting Agency when Physical
42 Completion has been given and the Engineer has determined that the project
43 site is not stabilized from erosion.
44
- 45 9. Submit copies of all correspondence with Ecology electronically to the Engineer
46 in a PDF format within four calendar days.
47

48 **1-07.5(4) Air Quality**

49 This section is revised to read:
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51 The Contractor shall comply with all regional clean air authority and/or State Department
52 of Ecology rules and regulations.

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The air quality permit process may include additional State Environment Policy Act (SEPA) requirements. Contractors shall contact the appropriate regional air pollution control authority well in advance of beginning Work.

When the Work includes demolition or renovation of any existing facility or structure that contains Asbestos Containing Material (ACM) and/or Presumed Asbestos-Containing Material (PACM), the Contractor shall comply with the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Any requirements included in Federal and State regulations regarding air quality that applies to the "owner or operator" shall be the responsibility of the Contractor.

1-07.7(1) General

The first sentence of the third paragraph is revised to read:

When the Contractor moves equipment or materials on or over Structures, culverts or pipes, the Contractor may operate equipment with only the load-limit restrictions in Section 1-07.7(2).

The first sentence of the last paragraph is revised to read:

Unit prices shall cover all costs for operating over Structures, culverts and pipes.

1-07.9(1) General

The last sentence of the sixth paragraph is revised to read:

Generally, the Contractor initiates the request by preparing standard form 1444 Request for Authorization of Additional Classification and Rate, available at <https://www.dol.gov/whd/recovery/dbsurvey/conformance.htm>, and submitting it to the Engineer for further action.

1-07.9(2) Posting Notices

The second sentence of the first paragraph (up until the colon) is revised to read:

The Contractor shall ensure the most current edition of the following are posted:

In items 1 through 10, the revision dates are deleted.

1-07.11(2) Contractual Requirements

In this section, "creed" is revised to read "religion".

Item numbers 1 through 9 are revised to read 2 through 10, respectively.

After the preceding Amendment is applied, the following new item number 1 is inserted:

1. The Contractor shall maintain a Work site that is free of harassment, humiliation, fear, hostility and intimidation at all times. Behaviors that violate this requirement include but are not limited to:
 - a. Persistent conduct that is offensive and unwelcome.

- 1 b. Conduct that is considered to be hazing.
- 2
- 3 c. Jokes about race, gender, or sexuality that are offensive.
- 4
- 5 d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual
- 6 nature which interferes with a person's ability to perform their job or creates an
- 7 intimidating, hostile, or offensive work environment.
- 8
- 9 e. Language or conduct that is offensive, threatening, intimidating or hostile based
- 10 on race, gender, or sexual orientation.
- 11
- 12 f. Repeating rumors about individuals in the Work Site that are considered to be
- 13 harassing or harmful to the individual's reputation.
- 14

15 **1-07.11(5) Sanctions**

16 This section is supplemented with the following:

17

18 Immediately upon the Engineer's request, the Contractor shall remove from the Work site

19 any employee engaging in behaviors that promote harassment, humiliation, fear or

20 intimidation including but not limited to those described in these specifications.

21

22 **1-07.11(6) Incorporation of Provisions**

23 The first sentence is revised to read:

24

25 The Contractor shall include the provisions of Section 1-07.11(2) Contractual

26 Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract

27 including procurement of materials and leases of equipment.

28

29 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

30 The last sentence of the first paragraph is revised to read:

31

32 An SPCC Plan template and guidance information is available at

33 [http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-](http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-prevent-report)

34 [prevent-report](http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-prevent-report).

35

36 **1-07.18 Public Liability and Property Damage Insurance**

37 Item number 1 is supplemented with the following new sentence:

38

39 This policy shall be kept in force from the execution date of the Contract until the Physical

40 Completion Date.

41

42 **Section 1-08, Prosecution and Progress January 7, 2019**

43 **1-08.1 Subcontracting**

44 The first sentence of the seventh paragraph is revised to read:

45

46 All Work that is not performed by the Contractor will be considered as subcontracting

47 except: (1) purchase of sand, gravel, crushed stone, crushed slag, batched concrete

48 aggregates, ready-mix concrete, off-site fabricated structural steel, other off-site

49 fabricated items, and any other materials supplied by established and recognized

50 commercial plants; or (2) delivery of these materials to the Work site in vehicles owned

1 or operated by such plants or by recognized independent or commercial hauling
2 companies hired by those commercial plants.

3
4 The following new paragraph is inserted after the seventh paragraph:

5
6 The Contractor shall not use businesses (material suppliers, vendors, subcontractors,
7 etc.) with federal purchasing exclusions. Businesses with exclusions are identified using
8 the System for Award Management web page at www.SAM.gov.

9
10 **1-08.5 Time for Completion**

11 Item number 2 of the sixth paragraph is supplemented with the following:

- 12
13 f. A copy of the Notice of Termination sent to the Washington State Department of
14 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
15 Notice of Termination by Ecology; and no rejection of the Notice of Termination by
16 Ecology. This requirement will not apply if the Construction Stormwater General
17 Permit is transferred back to the Contracting Agency in accordance with Section 8-
18 01.3(16).

19
20 **1-08.7 Maintenance During Suspension**

21 The fifth paragraph is revised to read:

22
23 The Contractor shall protect and maintain all other Work in areas not used by traffic. All
24 costs associated with protecting and maintaining such Work shall be the responsibility of
25 the Contractor.

26
27 **Section 1-09, Measurement and Payment**

28 **August 6, 2018**

29 **1-09.2(1) General Requirements for Weighing Equipment**

30 The last paragraph is supplemented with the following:

31
32 When requested by the Engineer, the Contractor's representative shall collect the tickets
33 throughout the day and provide them to the Engineer's designated receiver, not later than
34 the end of shift, for reconciliation. Tickets for loads not verified as delivered will receive
35 no pay.

36
37 **1-09.2(2) Specific Requirements for Batching Scales**

38 The last sentence of the first paragraph is revised to read:

39
40 Batching scales used for concrete or hot mix asphalt shall not be used for batching
41 other materials.

42
43 **1-09.10 Payment for Surplus Processed Materials**

44 The following sentence is inserted after the first sentence of the second paragraph:

45
46 For Hot Mix Asphalt, the Plan quantity and quantity used will be adjusted for the quantity
47 of Asphalt and quantity of RAP or other materials incorporated into the mix.

48

1 **Section 2-02, Removal of Structures and Obstructions**
2 **April 2, 2018**

3 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters**

4 In item number 3 of the first paragraph, the second sentence is revised to read:

5

6 For concrete pavement removal, a second vertical full depth relief saw cut offset 12 to 18
7 inches from and parallel to the initial saw cut is also required, unless the Engineer allows
8 otherwise.

9

10 **Section 2-09, Structure Excavation**
11 **April 2, 2018**

12 **2-09.2 Materials**

13 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
14 Cement Concrete” are revised to read:

15

16	Cement	9-01
17	Fine Aggregate for Concrete	9-03.1(2)

18

19 **2-09.3(3)D Shoring and Cofferdams**

20 The first sentence of the sixth paragraph is revised to read:

21

22 Structural shoring and cofferdams shall be designed for conditions stated in this Section
23 using methods shown in Division I Section 5 of the AASHTO *Standard Specifications for*
24 *Highway Bridges* Seventeenth Edition – 2002 for allowable stress design, or the AASHTO
25 *LRFD Bridge Design Specifications* for load and resistance factor design.

26

27 **Section 3-01, Production from Quarry and Pit Sites**
28 **April 2, 2018**

29 **3-01.1 Description**

30 The first paragraph is revised to read:

31

32 This Work shall consist of manufacturing and producing crushed and screened
33 aggregates including pit run aggregates of the kind, quality, and grading specified for use
34 in the construction of concrete, hot mix asphalt, crushed surfacing, maintenance rock,
35 ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface
36 treatments of all descriptions.

37

38 **Section 4-04, Ballast and Crushed Surfacing**
39 **April 2, 2018**

40 **4-04.3(5) Shaping and Compaction**

41 This section is supplemented with the following new paragraph:

42

43 When using 100% Recycled Concrete Aggregate, the Contractor may submit a written
44 request to use a test point evaluation for compaction acceptance testing in lieu of
45 compacting to 95% of the standard density as determined by the requirements of Section
46 2-03.3(14)D. The test point evaluation shall be performed in accordance with SOP 738.

47

1 **Section 5-01, Cement Concrete Pavement Rehabilitation**
2 **January 7, 2019**

3 **5-01.2 Materials**

4 The reference for Concrete Patching Material is revised to read:

5
6 Concrete Patching Material, Grout, and Mortar 9-20.1

7
8 **5-01.3(1)A1 Concrete Patching Materials**

9 In this section, each reference to "9-20" is revised to read "9-20.1".

10
11 **5-01.3(4) Replace Cement Concrete Panel**

12 This section's content is deleted and replaced with the following new subsections:

13
14 **5-01.3(4)A General**

15 Curing, cold weather work, concrete pavement construction in adjacent lines, and
16 protection of pavement shall meet the requirements of Section 5-05.3(13) through Section
17 5-05.3(15). The Contractor, at no cost to the Contracting Agency, shall repair any damage
18 to existing pavement caused by the Contractor's operations.

19
20 **5-01.3(4)B Sawing and Dimensional Requirements**

21 Concrete slabs to be replaced as shown in the Plans or staked by the Engineer shall be
22 at least 6.0 feet long and full width of an existing pavement panel. The portion of the panel
23 to remain in place shall have a minimum dimension of 6 feet in length and full panel width;
24 otherwise the entire panel shall be removed and replaced. There shall be no new joints
25 closer than 3.0 feet to an existing transverse joint or crack. A vertical full depth saw cut is
26 required along all longitudinal joints and at transverse locations and, unless the Engineer
27 allows otherwise, an additional vertical full depth relief saw cut located 12 to 18 inches
28 from and parallel to the initial longitudinal and transverse saw cut locations is also
29 required. Removal of existing cement concrete pavement shall not cause damage to
30 adjacent slabs that are to remain in place. In areas that will be ground, slab replacements
31 shall be performed prior to pavement grinding.

32
33 Side forms shall meet the requirements of Section 5-05.3(7)B whenever a sawed full
34 depth vertical face cannot be maintained.

35
36 **5-01.3(4)C Dowel Bars and Tie Bars**

37 For the half of a dowel bar or tie bar placed in fresh concrete, comply with the
38 requirements of Section 5-05.

39
40 For the half of a dowel bar or tie bar placed in hardened concrete, comply with the
41 Standard Plans and the following.

42
43 After drilling, secure dowel bars and tie bars into the existing pavement with either an
44 epoxy bonding agent Type I or IV as specified in Section 9-26.1, or a grout Type 2 for
45 non-shrink applications as specified in Section 9-20.3.

46
47 Dowel bars shall be placed at the mid depth of the concrete slab, centered over the
48 transverse joint, and parallel to the centerline and to the roadway surface, within the
49 tolerances in the table below. Dowel bars may be adjusted to avoid contact with existing

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dowel bars in the transverse joint at bridge approach slabs or existing panels provided the adjusted dowel bars meet the tolerances below.

Tie bars shall be placed at the mid depth of the concrete slab, centered over the joint, perpendicular to centerline, and parallel to the roadway surface, within the tolerances in the table below. The horizontal position of tie bars may be adjusted to avoid contact with existing tie bars in the longitudinal joint where panel replacement takes place, provided the adjusted tie bars meet the tolerances below.

Placement Tolerances		
	Dowel Bars	Tie Bars
Vertical: Center of Bar to Center of Slab Depth	± 1.00 inch max	± 1.00 inch max
Dowel Bar Centered Over the Transverse Joint	± 1.00 inch max	N/A
Tie Bar Centered Over the Longitudinal Joint	N/A	± 1.00 inch max
Parallel to Centerline Over the Length of the Dowel Bar	± 0.50 inch max	N/A
Perpendicular to Longitudinal Joint Over the Length of the Tie Bar	N/A	± 1.00 inch max
Parallel to Roadway Surface Over the Length of the Bar	± 0.50 inch max	± 1.00 inch max

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Dowel bars and tie bars shall be placed according to the Standard Plan when multiple panels are placed. Panels shall be cast separately from the bridge approach slab.

Dowel bars to be drilled into existing concrete or at a new transverse contraction joint shall have a parting compound, such as curing compound, grease, or other Engineer accepted equal, applied to them prior to placement.

Clean the drilled holes in accordance with the epoxy or grout manufacturer's instructions. Holes shall be clean and dry at the time of placing the epoxy, or grout and tie bars. Completely fill the void between the tie bar and the outer limits of the drilled hole with epoxy or grout. Use retention rings to prevent leakage of the epoxy or grout and support the tie bar to prevent movement until the epoxy or grout has cured the minimum time recommended by the manufacturer.

5-01.3(4)D Foundation Preparation

The Contractor shall smooth the surfacing below the removed panel and compact it to the satisfaction of the Engineer. Crushed surfacing base course, or hot mix asphalt may be needed to bring the surfacing to grade prior to placing the new concrete.

If the material under the removed panel is uncompactable and the Engineer requires it, the Contractor shall excavate the Subgrade 2 feet, place a soil stabilization construction geotextile meeting the requirements of Section 9-33, and backfill with crushed surfacing base course. This Work may include:

1. Furnishing and hauling crushed surfacing base course to the project site.
2. Excavating uncompactable material.

- 1 3. Furnishing and placing a soil stabilization construction geotextile.
- 2
- 3 4. Backfilling and compacting crushed surfacing base course.
- 4
- 5 5. Removing, hauling and restocking any unused crushed surfacing base course.
- 6

7 **5-01.3(4)E Concrete Finishing**

8 Grade control shall be the responsibility of the Contractor.

9

10 All panels shall be struck off level with the adjacent panels and floated to a smooth

11 surface.

12

13 Final finish texturing shall meet the requirements of Section 5-05.3(11).

14

15 In areas where the Plans do not require grinding, the surface smoothness will be

16 measured with a 10-foot straightedge by the Engineer in accordance with Section 5-

17 05.3(12). If the replacement panel is located in an area that will be ground as part of

18 concrete pavement grinding in accordance with Section 5-01.3(9), the surface

19 smoothness shall be measured, by the Contractor, in conjunction with the smoothness

20 measurement done in accordance with Section 5-01.3(10).

21

22 **5-01.3(4)F Joints**

23 All transverse and longitudinal joints shall be sawed and sealed in accordance with

24 Section 5-05.3(8). The Contractor may use a hand pushed single blade saw for sawing

25 joints.

26

27 **5-01.3(4)G Cracked Panels**

28 Replacement panels that crack shall be repaired as specified in Section 5-05.3(22) at no

29 cost to the Contracting Agency. When repairing replacement panels that have cracked,

30 epoxy-coated dowel bars meeting the requirements of Section 9-07.5(1) may be

31 substituted for the corrosion resistant dowel bars specified.

32

33 **5-01.3(4)H Opening to Traffic**

34 Opening to traffic shall meet the requirements of Section 5-05.3(17).

35

36 **5-01.3(5) Partial Depth Spall Repair**

37 The second sentence of the third paragraph is revised to read:

38

39 All sandblasting residue shall be removed.

40

41 **5-01.3(7) Sealing Existing Concrete Random Cracks**

42 The second sentence of the second paragraph is revised to read:

43

44 Immediately prior to sealing, the cracks shall be clean.

45

46 **5-01.3(8) Sealing Existing Longitudinal and Transverse Joint**

47 The first sentence of the fifth paragraph is revised to read:

48

49 Immediately prior to sealing, the cracks shall be clean.

1 **5-01.3(10) Pavement Smoothness**

2 This section is revised to read:

3

4 Pavement surface smoothness for cement concrete pavement grinding on this project will
5 include International Roughness Index (IRI) testing. Ride quality will be evaluated using
6 the Mean Roughness Index (MRI) calculated by averaging the IRI data for the left and
7 right wheel path within the section.

8

9 **Smoothness Testing Equipment and Operator Certification**

10 Use an inertial profiler and operator that meet the requirements of Section 5-05.3(3)E.

11

12 **Surface Smoothness**

13 Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal
14 traces, one in each wheel path. Collect the control profile at locations designated in Table
15 2 prior to any pavement rehabilitation Work on the areas to be tested. Collect an
16 acceptance profile at locations designated in Table 2 after completion of all cement
17 concrete pavement grinding on the project. Profiles shall be collected in a continuous
18 pass including areas excluded from pay adjustments. Provide notice to the Engineer a
19 minimum of seven calendar days prior to testing.

20

Table 2 Locations Requiring MRI Testing	
Travel lanes where cement concrete grinding is shown in the plans	Control profile
Additional locations designated by the Engineer	Control profile
Travel lanes with completed cement concrete pavement grinding	Acceptance profile
Bridges, approach panels and 0.02 miles before and after bridges and approach panels and other excluded areas within lanes requiring testing	Control and acceptance profile
Ramps, Shoulders and Tapers	Do not test

21

22 Within 30 calendar days after the Contractor’s testing, the Engineer may perform
23 verification testing. If the verification testing shows a difference in MRI greater than the
24 10 percent, the following resolution process will be followed:

25

- 26 1. The profiles, equipment and procedures will be evaluated to determine the
27 cause of the difference.
- 28
- 29 2. If the cause of the discrepancy cannot be resolved the pavement shall be
30 retested with both profilers at a mutually agreed time. The two profilers will test
31 the section within 30 minutes of each other. If the retest shows a difference in
32 MRI equal or greater than the percentages shown in Table 2 of AASHTO R 54
33 the Engineer’s test results will be used for pavement smoothness acceptance.

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The Contractor shall evaluate profiles for acceptance or corrective action using the current version of ProVAL and provide the results including the profile data in unfiltered electronic Engineering Research Division (ERD) file format to the Engineer within 3 calendar days of completing each days profile testing. If the profile data files are created using an export option in the manufacturer's software where filter settings can be specified, use the filter settings that were used to create data files for certification.

Analyze the entire profile. Exclude areas listed in Table 3.

Table 3	
Areas Excluded from MRI Acceptance Requirements	
Location	Exclude
Beginning and end of grinding	Pavement within 0.02 mile
Bridges and approach slabs	The bridge and approach slab and 0.02 mile from the ends of the bridge or approach slab
Defects in the existing roadway identified by the Contractor that adversely affect the MRI such as dips, depressions and wheel path longitudinal joints. ¹	0.01-mile section containing the defect and the 0.01-mile section following the section with the defect.
¹ The presence of defects is subject to verification by the Engineer	

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Report the MRI results in inches per mile for each 0.01-mile section and each 0.10-mile section. Do not truncate 0.10-mile sections for areas excluded from MRI acceptance requirements. MRI requirements will not apply to 0.10-mile sections with more than three 0.01 mile-sections excluded. MRI requirements for the individual 0.01-mile sections shall still apply. The Engineer will verify the analysis.

The MRI for each 0.10 mile of ground lane will comply with the following:

Control Profile MRI per 0.10 Mile	Maximum MRI of Acceptance Profile per 0.10 Mile
≤130 inches/mile	78 inches/mile
>130 inches/mile	0.6 x Control Profile MRI

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The MRI for each 0.01 mile of the completed cement concrete grinding shall not exceed 160 inches/mile.

All Work is subject to parallel and transverse 10-foot straightedge requirements, corrective work and disincentive adjustments.

Surface smoothness of travel lanes including areas subject to MRI testing shall not vary more than 1/8 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline.

1 The smoothness perpendicular to the centerline will be measured with a 10-foot
2 straightedge within the lanes. There shall be not vertical elevation difference of more than
3 a ¼ inch between lanes.
4

5 Pavement that does not meet these requirements will be subject to corrective Work. All
6 corrective Work shall be completed at no additional expense, including traffic control, to
7 the Contracting Agency. Pavement shall be repaired by one or more of the following
8 methods:
9

- 10 1. Diamond grinding.
- 11
- 12 2. By other method accepted by the Engineer.
- 13

14 Repair areas shall be re-profiled to ensure they no longer require corrective Work. With
15 concurrence of the Engineer, a 10-foot straight edge may be used in place of the inertial
16 profiler.
17

18 If correction of the roadway as listed above either will not or does not produce satisfactory
19 results as to smoothness or serviceability the Engineer may accept the completed
20 pavement and a credit will be calculated in accordance with Section 5-01.5. Under these
21 circumstances, the decision whether to accept the completed pavement or to require
22 corrective work as described above shall be vested entirely in the Engineer.
23

24 **5-01.5 Payment**

25 This section is supplemented with the following:
26

27 "Grinding Smoothness Compliance Adjustment", by calculation.
28 Grinding Smoothness Compliance Adjustments will be based on the requirements in
29 Section 5-01.3(10) and the following calculations:
30

31 A smoothness compliance adjustment will be calculated in the sum of minus \$100
32 for each and every section of single traffic lane 0.01 mile in length and \$1,000 for
33 each and every section of single traffic lane 0.10 mile in length that does not meet
34 the requirements in Section 5-01.3(10) after corrective Work.
35

36 **Section 5-04, Hot Mix Asphalt**
37 **January 7, 2019**

38 **5-04.1 Description**

39 The last sentence of the first paragraph is revised to read:
40

41 The manufacture of HMA may include additives or processes that reduce the optimum
42 mixing temperature (Warm Mix Asphalt) or serve as a compaction aid in accordance with
43 these Specifications.
44

45 **5-04.2 Materials**

46 The reference to "Warm Mix Asphalt Additive" is revised to read "HMA Additive".
47

48 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

49 The last bullet in the first paragraph is revised to read:
50

- 1 • Do not include HMA additives that reduce the optimum mixing temperature or serve
2 as a compaction aid when developing a mix design or submitting a mix design for
3 QPL evaluation. The use of HMA additives is not part of the process for obtaining
4 approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.
5

6 In the table, "WSDOT Standard Practice QC-8" is revised to read "WSDOT Standard Practice
7 QC-8 located in the WSDOT Materials Manual M 46-01".
8

9 **5-04.2(1)C Mix Design Resubmittal for QPL Approval**

10 Item number 3 of the first paragraph is revised to read:

- 11
12 3. Changes in modifiers used in the asphalt binder.
13

14 **5-04.2(2)B Using Warm Mix Asphalt Processes**

15 This section, including title, is revised to read:

16
17 **5-04.2(2)B Using HMA Additives**

18 The Contractor may, at the Contractor's discretion, elect to use additives that reduce the
19 optimum mixing temperature or serve as a compaction aid for producing HMA. Additives
20 include organic additives, chemical additives and foaming processes. The use of
21 Additives is subject to the following:

- 22
23 • Do not use additives that reduce the mixing temperature in accordance with
24 Section 5-04.3(6) in the production of High RAP/Any RAS mixtures.
25
26 • Before using additives, obtain the Engineer's approval using WSDOT Form 350-
27 076 to describe the proposed additive and process.
28

29 **5-04.3(3)A Mixing Plant**

30 In item number 5 of the first paragraph, "WSDOT T 168" is revised to read "FOP for AASHTO
31 T 168".
32

33 **5-04.3(4) Preparation of Existing Paved Surfaces**

34 The first sentence of the fourth paragraph is revised to read:

35
36 Unless otherwise allowed by the Engineer, use cationic emulsified asphalt CSS-1, CSS-
37 1h, or Performance Graded (PG) asphalt for tack coat.
38

39 **5-04.3(6) Mixing**

40 The first paragraph is revised to read:

41
42 The asphalt supplier shall introduce recycling agent and anti-stripping additive, in the
43 amount designated on the QPL for the mix design, into the asphalt binder prior to
44 shipment to the asphalt mixing plant.
45

46 The seventh paragraph is revised to read:

47
48 Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed
49 the optimum mixing temperature shown on the accepted Mix Design Report by more than
50 25°F, or as allowed by the Engineer. When an additive is included in the manufacture of
51 HMA, do not heat the additive (at any stage of production including in binder storage

1 tanks) to a temperature higher than the maximum recommended by the manufacturer of
2 the additive.

3
4 **5-04.3(7) Spreading and Finishing**

5 The last row of the table is revised to read:

6

3/8 inch	0.25 feet	0.30 feet
----------	-----------	-----------

7

8 **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

9 The following new paragraph is inserted after the first paragraph:

10

11 The Contracting Agency's combined aggregate bulk specific gravity (Gsb) blend as shown
12 on the HMA Mix Design will be used for VMA calculations until the Contractor submits a
13 written request for a Gsb test. The new Gsb will be used in the VMA calculations for HMA
14 from the date the Engineer receives the written request for a Gsb retest. The Contractor
15 may request aggregate specific gravity (Gsb) testing be performed by the Contracting
16 Agency twice per project. The Gsb blend of the combined stockpiles will be used to
17 calculate voids in mineral aggregate (VMA) of any HMA produced after the new Gsb is
18 determined.

19

20 **5-04.3(9)A1 Test Section – When Required, When to Stop**

21 The following new row is inserted after the second row in Table 9:

22

VMA	Minimum PF _i of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
-----	---	-------------------

23

24 **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

25 In Table 9a, the test property "Gradation, Asphalt Binder, and V_a" is revised to read "Gradation,
26 Asphalt Binder, VMA, and V_a"

27

28 In Table 9a, the first column of the third row is revised to read:

29

Aggregates: Sand Equivalent Uncompacted Void Content Fracture

30

31 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

32 In Table 11, "V_a" is revised to read "VMA and V_a"

33

34 **5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

35 The following new row is inserted above the last row in Table 12:

36

Voids in Mineral Aggregate (VMA)	2
-------------------------------------	---

37

38 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

39 The second to last sentence is revised to read:

40

1 The sample will be tested for a complete gradation analysis, asphalt binder content, VMA
2 and V_a , and the results of the retest will be used for the acceptance of the HMA mixture
3 in place of the original mixture subplot sample test results.
4

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

6 The bulleted item in the fourth paragraph is revised to read:
7

- 8 • For a compaction lot in progress with a compaction CPF less than 0.75 using an LSL
9 = 91.5, a new compaction lot will begin at the Contractor’s request after the Engineer
10 is satisfied that material conforming to the Specifications can be produced. See also
11 Section 5-04.3(11)F.
12

13 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**

14 In the table, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO T 355”.
15

16 **5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments**

17 In the first paragraph, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO
18 T 355”.
19

20 The first sentence in the second paragraph is revised to read:
21

22 For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not
23 meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in
24 accordance with Section 1-06.2(2)D5 to determine the appropriate Composite Pay Factor
25 (CPF).
26

27 The last two paragraphs are revised to read:
28

29 Determine the Compaction Price Adjustment (CPA) from the table below, selecting the
30 equation for CPA that corresponds to the value of CPF determined above.
31

Calculating HMA Compaction Price Adjustment (CPA)	
Value of CPF	Equation for Calculating CPA
When CPF > 1.00	$CPA = [1.00 \times (CPF - 1.00)] \times Q \times UP$
When CPF = 1.00	CPA = \$0
When CPF < 1.0	$CPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$

32

33 Where
34 CPA = Compaction Price Adjustment for the compaction lot (\$)
35 CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
36 Q = Quantity in the compaction lot (tons)
37 UP = Unit price of the HMA in the compaction lot (\$/ton)
38

39 **5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting**

40 The first sentence is revised to read:
41

42 For a compaction subplot that has been tested with a nuclear density gauge that did not
43 meet the minimum of 91.5 percent of the theoretical maximum density in a compaction
44 lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor

1 may request that a core, taken at the same location as the nuclear density test, be used
2 for determination of the relative density of the compaction subplot.

3

4 **5-04.3(13) Surface Smoothness**

5 The second to last paragraph is revised to read:

6

7 When concrete pavement is to be placed on HMA, the surface tolerance of the HMA shall
8 be such that no surface elevation lies above the Plan grade minus the specified Plan
9 depth of concrete pavement. Prior to placing the concrete pavement, bring any such
10 irregularities to the required tolerance by grinding or other means allowed by the Engineer.

11

12 **5-04.5 Payment**

13 The paragraph following the Bid item "Crack Sealing-LF", per linear foot is revised to read:

14

15 The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for all
16 costs incurred to perform the Work described in Section 5-04.3(4)A.

17

18 **Section 5-05, Cement Concrete Pavement**
19 **January 7, 2019**

20 **5-05.1 Description**

21 In the first paragraph, "portland cement concrete" is revised to read "cement concrete".

22

23 **5-05.2 Materials**

24 In the first paragraph, the reference to "Portland Cement" is revised to read:

25

26 Cement 9-01

27

28 In the first paragraph, the section reference for Concrete Patching Material is revised to read
29 "9-20.1".

30

31 **5-05.3(1) Concrete Mix Design for Paving**

32 The table title in item number 4 is revised to read **Concrete Batch Weights**.

33

34 In item 4a, "Portland Cement" is revised to read "Cement".

35

36 **5-05.3(3)E Smoothness Testing Equipment**

37 This section is revised to read:

38

39 Inertial profilers shall meet all requirements of AASHTO M 328 and be certified in
40 accordance with AASHTO R 56 within the preceding 12 months.

41

42 The inertial profiler operator shall be certified as required by AASHTO R 56 within three
43 years preceding profile measurement.

44

45 Equipment or operator certification by other states or a profiler certification facility will be
46 accepted provided the certification meets the requirements of AASHTO R 56.
47 Documentation verifying certification by another state shall be submitted to the Engineer
48 a minimum of 14 calendar days prior to profile measurement. Equipment certification
49 documentation shall include the information required by part 8.5 and 8.6 of AASHTO R
50 56. Operator documentation shall include a statement from the certifying state that

1 indicates the operator is certified to operate the inertial profiler to be used on the project.
2 The decision whether another state's certification meets the requirements of AASHTO R
3 56 shall be vested entirely in the Engineer.
4

5 **5-05.3(4) Measuring and Batching Materials**

6 Item number 2 is revised to read:
7

8 2. **Batching Materials** – On all projects requiring more than 2,500 cubic yards of
9 concrete for paving, the batching plant shall be equipped to proportion aggregates
10 and cement by weight by means of automatic and interlocked proportioning devices
11 of accepted type.
12

13 **5-05.3(4)A Acceptance of Portland Cement Concrete Pavement**

14 This section's title is revised to read:
15

16 **Acceptance of Portland Cement or Blended Hydraulic Cement Concrete** 17 **Pavement**

18
19 The first sentence is revised to read:
20

21 Acceptance of portland cement or blended hydraulic cement concrete pavement shall be
22 as provided under statistical or nonstatistical acceptance.
23

24 **5-05.3(7) Placing, Spreading, and Compacting Concrete**

25 This section's content is deleted.
26

27 **5-05.3(10) Tie Bars and Corrosion Resistant Dowel Bars**

28 The first sentence of the last paragraph is revised to read:
29

30 The tie bar holes shall be clean before grouting.
31

32 **5-05.3(12) Surface Smoothness**

33 This section is revised to read:
34

35 Pavement surface smoothness for this project will include International Roughness Index
36 (IRI) testing. The Contractor shall perform IRI testing on each through lane, climbing lane,
37 and passing lane, greater than 0.25 mile in length and these lanes will be subject to
38 incentive/disincentive adjustments. Ride quality will be evaluated using the Mean
39 Roughness Index (MRI) calculated by averaging the IRI data for the left and right wheel
40 path within the section.
41

42 Ramps, shoulders and tapers will not be included in MRI testing for pavement
43 smoothness and will not be subject to incentive adjustments. All Work is subject to parallel
44 and transverse 10-foot straightedge requirements, corrective work and disincentive
45 adjustments.
46

47 Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal
48 traces, one in each wheel path. Collect profile data after completion of all concrete paving
49 on the project in a continuous pass including areas excluded from pay adjustments.
50 Provide notice to the Engineer a minimum of seven calendar days prior to testing.
51

1 Within 30 calendar days after the Contractor's testing, the Engineer may perform
2 verification testing. If the verification testing shows a difference in MRI greater than the
3 percentages shown in Table 2 of AASHTO R 54 the following resolution process will be
4 followed:

- 5
6 1. The profiles, equipment and procedures will be evaluated to determine the
7 cause of the difference.
8
- 9 2. If the cause of the discrepancy cannot be resolved the pavement shall be
10 retested with both profilers at a mutually agreed time. The two profilers will test
11 the section within 30 minutes of each other. If the retest shows a difference in
12 MRI equal or greater than the percentages shown in Table 2 of AASHTO R 54
13 the Engineer's test results will be used to establish pay adjustments.
14

15 Surface smoothness of travel lanes not subject to MRI testing will be measured with a 10-
16 foot straightedge no later than 5:00 p.m. of the day following the placing of the concrete.
17 The completed surface of the wearing course shall not vary more than $\frac{1}{8}$ inch from the
18 lower edge of a 10-foot straightedge placed on the surface parallel to the centerline.
19

20 Smoothness perpendicular to the centerline will be measured with a 10-foot straightedge
21 across all lanes with the same cross slope, including shoulders when composed of
22 cement concrete pavement. The overlapping 10-foot straightedge measurement shall be
23 discontinued at a point 6 inches from the most extreme outside edge of the finished
24 cement concrete pavement. The completed surface of the wearing course shall not vary
25 more than $\frac{1}{4}$ inch from the lower edge of a 10-foot straightedge placed on the surface
26 perpendicular to the centerline. Any deviations in excess of the above tolerances shall be
27 corrected.
28

29 The Contractor shall evaluate profiles for acceptance, incentive payments, disincentive
30 payments, or corrective action using the current version of ProVAL and provide the results
31 including the profile data in unfiltered electronic Engineering Research Division (ERD) file
32 format to the Engineer within 2 calendar days of completing testing each section of
33 pavement. If the profile data files are created using an export option in the manufacturer's
34 software where filter settings can be specified, use the filter settings that were used to
35 create data files for certification. Analyze the entire profile. Exclude any areas specifically
36 identified in the Contract. Exclude from the analysis the first 100 feet after the start of the
37 paving operations and last 100 feet prior to the end of the paving operation, the first 100
38 feet on either side of bridge Structures and bridge approach slab. Report the MRI results
39 in inches per mile for each 52.8 foot section and horizontal distance measurements in
40 project stationing to the nearest foot. Include pay adjustments in the results. The Engineer
41 will verify the analysis.
42

43 Corrective work for pavement smoothness may be taken by the Contractor prior to MRI
44 testing. After completion of the MRI testing the Contractor shall measure the smoothness
45 of each 52.8-foot section with an MRI greater than 125 inches per mile with a 10-foot
46 straightedge within 14 calendar days or as allowed by the Engineer. The Contractor shall
47 identify all locations that require corrective work and provide the straight edge
48 measurements at each location that exceeds the allowable limit to the Engineer. If all
49 measurements in a 52.8-foot section comply with smoothness requirements, the
50 Contractor shall provide the maximum measurement to the Engineer and a statement that
51 corrective work is not required. Unless allowed by the Engineer, corrective work shall be

1 taken by the Contractor for pavement identified by the Contractor or Engineer that does
2 not meet the following requirements:

- 3
- 4 1. The completed surface shall be of uniform texture, smooth, uniform as to crown
5 and grade, and free from defects of all kinds.
- 6
- 7 2. The completed surface shall not vary more than $\frac{1}{8}$ inch from the lower edge of
8 a 10-foot straightedge placed on the surface parallel to the centerline.
- 9
- 10 3. The completed surface shall vary not more than $\frac{1}{4}$ inch in 10 feet from the rate
11 of transverse slope shown in the Plans.
- 12

13 All corrective work shall be completed at no additional expense, including traffic control,
14 to the Contracting Agency. Corrective work shall not begin until the concrete has reached
15 its design strength unless allowed by the Engineer. Pavement shall be repaired by one or
16 more of the following methods:

- 17
- 18 1. Diamond grinding; repairs shall not reduce pavement thickness by more than $\frac{1}{4}$
19 inch less than the thickness shown in the Plans. When required by the Engineer,
20 the Contractor shall verify the thickness of the concrete pavement by coring.
21 Thickness reduction due to corrective work will not be included in thickness
22 measurements for calculating the Thickness Deficiency in Section 5-05.5(1)A.
- 23
- 24 2. Removal and replacement of the cement concrete pavement.
- 25
- 26 3. By other method allowed by the Engineer.
- 27

28 For repairs following MRI testing the repaired area shall be checked by the Contractor
29 with a 10-foot straightedge to ensure it no longer requires corrective work. With
30 concurrence of the Engineer an inertial profiler may be used in place of the 10-foot straight
31 edge.

32
33 If correction of the roadway as listed above either will not or does not produce satisfactory
34 results as to smoothness or serviceability the Engineer may accept the completed
35 pavement and a credit will be calculated in accordance with Section 5-05.5. The credit
36 will be in addition to the price adjustment for MRI. Under these circumstances, the
37 decision whether to accept the completed pavement or to require corrective work as
38 described above shall be vested entirely in the Engineer.

39 40 **5-05.3(22) Repair of Defective Pavement Slabs**

41 The last sentence of the fourth paragraph is revised to read:

42
43 All sandblasting residue shall be removed.

44 45 **5-05.4 Measurement**

46 Item number 3 of the second paragraph is revised to read:

- 47
- 48 3. The depth shall be determined in accordance with Section 5-05.5(1). The depth
49 utilized to calculate the volume shall not exceed the Plan depth plus 0.04 feet.
- 50

51 The third paragraph is revised to read:

1 The volume of cement concrete pavement in each thickness lot shall equal the measured
2 length × width × thickness measurement.

3
4 The last paragraph is revised to read:

5
6 The calculation for cement concrete compliance adjustment is the volume of concrete
7 represented by the CPF and the Thickness deficiency adjustment.

8
9 **5-05.5 Payment**

10 The paragraph following the Bid item “Cement Conc. Pavement”, per cubic yard is
11 supplemented with the following:

12
13 All costs associated with performing the magnetic pulse induction thickness testing shall
14 be included in the unit Contract price per cubic yard for “Cement Conc. Pavement”.

15
16 The Bid item “Ride Smoothness Compliance Adjustment”, by calculation, and the paragraph
17 following this bid item are revised to read:

18
19 “Ride Smoothness Compliance Adjustment”, by calculation.

20
21 Smoothness Compliance Adjustments will be based on the requirements in Section 5-
22 05.3(12) and the following calculations:

- 23
24 1. Final MRI acceptance and incentive/disincentive payments for pavement
25 smoothness will be calculated as the average of the ten 52.8-foot sections in
26 each 528 feet in accordance with the price adjustment schedule.
27
28 a. For sections of a lane that are a minimum of 52.8 feet and less than 528
29 feet, the price adjustment will be calculated using the average of the 52.8
30 foot MRI values and the price adjustment prorated for the length of the
31 section.
32
33 b. MRI values per 52.8-feet that were measured prior to corrective work will
34 be included in the 528 foot price adjustment for sections with corrective
35 work.
36
37 2. In addition to the price adjustment for MRI a smoothness compliance adjustment
38 will be calculated in the sum of minus \$1000.00 for each and every section of
39 single traffic lane 52.8 feet in length in that does not meet the 10-foot straight
40 edge requirements in Section 5-05.3(12) after corrective Work.

41

Price Adjustment Schedule

MRI for each 528 ft. section	Pay Adjustment Schedule
in. / mi.	\$ / 0.10 mi.
< 30	2400
30	2400
31	2320
32	2240
33	2160
34	2080
35	2000

36	1920
37	1840
38	1760
39	1680
40	1600
41	1520
42	1440
43	1360
44	1280
45	1200
46	1120
47	1040
48	960
49	880
50	800
51	720
52	640
53	560
54	480
55	400
56	320
57	240
58	160
59	80
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	-80
77	-160
78	-240
79	-320
80	-400
81	-480
82	-560
83	-640
84	-720
85	-800

86	-880
87	-960
88	-1040
89	-1120
90	-1200
91	-1280
92	-1360
93	-1440
94	-1520
95	-1600
96	-1680
97	-1760
98	-1840
99	-1920
100	-2000
101	-2080
102	-2160
103	-2240
104	-2320
105	-2400
106	-2480
107	-2560
108	-2640
109	-2720
110	-2800
111	-2880
112	-2960
113	-3040
114	-3120
115	-3200
116	-3280
117	-3360
118	-3440
119	-3520
120	-3600
121	-3680
122	-3760
123	-3840
124	-3920
≥125	-4000

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The bid item "Portland Cement Concrete Compliance Adjustment", by calculation, and the paragraph following this bid item are revised to read:

"Cement Concrete Compliance Adjustment", by calculation.

Payment for "Cement Concrete Compliance Adjustment" will be calculated by multiplying the unit Contract price for the cement concrete pavement, times the volume for adjustment, times the percent of adjustment determined from the calculated CPF and the Deficiency Adjustment listed in Section 5-05.5(1)A.

1 **5-05.5(1) Pavement Thickness**

2 This section is revised to read:

3
4
5
6
7
8
9
10

Cement concrete pavement shall be constructed in accordance with the thickness requirements in the Plans and Specifications. Tolerances allowed for Subgrade construction and other provisions, which may affect thickness, shall not be construed to modify such thickness requirements.

Thickness measurements in each lane paved shall comply with the following:

Thickness Testing of Cement Concrete Pavement	
Thickness Lot Size	15 panels maximum
Thickness test location determined by	Engineer will select testing locations in accordance with WSDOT TM 716 method B.
Sample method	AASHTO T 359
Sample preparation performed by	Contractor provides, places, and secures disks in the presence of the Engineer ¹
Measurement method	AASHTO T 359
Thickness measurement performed by	Contractor, in the presence of the Engineer ²
¹ Reflectors shall be located at within 0.5 feet of the center of the panel. The Contractor shall supply a sufficient number of 300 mm-diameter round reflectors meeting the requirements of AASHTO T 359 to accomplish the required testing. ² The Contractor shall provide all equipment and materials needed to perform the testing.	

11
12
13
14
15
16

Thickness measurements shall be rounded to the nearest 0.01 foot.

Each thickness test location where the pavement thickness is deficient by more than 0.04 foot, shall be subject to price reduction or corrective action as shown in Table 2.

Table 2 Thickness Deficiency	
0.04' < Thickness Deficiency ≤ 0.06'	10
0.06' < Thickness deficiency ≤ 0.08'	25
Thickness deficiency > 0.08'	Remove and replace the panels or the panels may be accepted with no payment at the discretion of the Engineer.

17
18
19
20
21
22
23
24

The price reduction shall be computed by multiplying the percent price reduction in Table 2 by the unit Contract price by the volume of pavement represented by the thickness test lot.

Additional cores may be taken by the Contractor to determine the limits of an area that has a thickness deficiency greater than 0.04 feet. Cores shall be taken at the approximate center of the panel. Only the panels within the limits of the deficiency area as determined

1 by the cores will be subject to a price reduction or corrective action. The cores shall be
2 taken in the presence of the Engineer and delivered to the Engineer for measurement. All
3 costs for the additional cores including filling the core holes with patching material meeting
4 the requirements of Section 9-20 will be the responsibility of the Contractor.
5

6 **5-05.5(1)A Thickness Deficiency of 0.05 Foot or Less**

7 This section, including title, is revised to read:
8

9 **5-05.5(1)A Vacant**
10

11 **5-05.5(1)B Thickness Deficiency of More Than 0.05 Foot**

12 This section, including title, is revised to read:
13

14 **5-05.5(1)B Vacant**
15

16 **Section 6-01, General Requirements for Structures**
17 **January 7, 2019**

18 This section is supplemented with the following new subsections:
19

20 **6-01.16 Repair of Defective Work**

21 **6-01.16(1) General**

22 When using repair procedures that are described elsewhere in the Contract
23 Documents, the Working Drawing submittal requirements of this Section shall not
24 apply to those repairs unless noted otherwise.
25

26 Repair procedures for defective Work shall be submitted as Type 2 Working
27 Drawings. Type 2E Working Drawings shall be submitted when required by the
28 Engineer. As an alternative to submitting Type 2 or 2E Working Drawings, defective
29 Work within the limits of applicability of a pre-approved repair procedure may be
30 repaired using that procedure. Repairs using a pre-approved repair procedure shall
31 be submitted as a Type 1 Working Drawing.
32

33 Pre-approved repair procedures shall consist of the following:
34

- 35 • The procedures listed in Section 6-01.16(2)
- 36
- 37 • For precast concrete, repair procedures in the annual plant approval
38 process documents that have been approved for use by the Contracting
39 Agency.
40

41 All Working Drawings for repair procedures shall include:
42

- 43 • A description of the defective Work including location, extent and pictures
44
- 45 • Materials to be used in the repair. Repairs using manufactured products
46 shall include written manufacturer recommendations for intended uses of
47 the product, surface preparation, mixing, aggregate extension (if
48 applicable), ambient and surface temperature limits, placement methods,
49 finishing and curing.
50
- 51 • Construction procedures

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- Plan details of the area to be repaired
- Calculations for Type 2E Working Drawings

Material manufacturer's instructions and recommendations shall supersede any conflicting requirements in pre-approved repair procedures.

The Engineer shall be notified prior to performing any repair procedure and shall be given an opportunity to inspect the repair work being performed.

6-01.16(2) Pre-Approved Repair Procedures

6-01.16(2)A Concrete Spalls and Poor Consolidation (Rock Pockets, Honeycombs, Voids, etc.)

This repair shall be limited to the following areas:

- Areas that are not on top Roadway surfaces (with or without an overlay) including but not limited to concrete bridge decks, bridge approach slabs or cement concrete pavement
- Areas that are not underwater
- Areas that are not on precast barrier, except for the bottom 4 inches (but not to exceed 1 inch above blockouts)
- Areas that do not affect structural adequacy as determined by the Engineer.

The repair procedure is as follows:

1. Remove all loose and unsound concrete. Impact breakers shall not exceed 15 pounds in weight when removing concrete adjacent to reinforcement or other embedments and shall not exceed 30 pounds in weight otherwise. Operate impact breakers at angles less than 45 degrees as measured from the surface of the concrete to the tool and moving away from the edge of the defective Work. Concrete shall be completely removed from exposed surfaces of existing steel reinforcing bars. If half or more of the circumference of any steel reinforcing bar is exposed, if the reinforcing bar is loose or if the bond to existing concrete is poor then concrete shall be removed at least ¾ inch behind the reinforcing bar. Do not damage any existing reinforcement. Stop work and allow the Engineer to inspect the repair area after removing all loose and unsound concrete. Submit a modified repair procedure when required by the Engineer.
2. Square the edges of the repair area by cutting an edge perpendicular to the concrete surface around the repair area. The geometry of the repair perimeter shall minimize the edge length and shall be rectangular with perpendicular edges, avoiding reentrant corners. The depth of the cut shall be a minimum of ¾ inch, but shall be reduced if necessary to avoid damaging any reinforcement. For repairs on vertical

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surfaces, the top edge shall slope up toward the front at a 1-vertical-to-3-horizontal slope.

3. Remove concrete within the repair area to a depth at least matching the cut depth at the edges. Large variations in the depth of removal within short distances shall be avoided. Roughen the concrete surface. The concrete surface should be roughened to at least Concrete Surface Profile (CSP) 5 in accordance with ICRI Guideline No. 310.2R, unless a different CSP is recommended by the patching material manufacturer.
4. Inspect the concrete repair surface for delaminations, debonding, microcracking and voids using hammer tapping or a chain drag. Remove any additional loose or unsound concrete in accordance with steps 1 through 3.
5. Select a patching material in accordance with Section 9-20.2 that is appropriate for the repair location and thickness. The concrete patching material shall be pumpable or self-consolidating as required for the type of placement that suits the repair. The patching material shall have a minimum compressive strength at least equal to the specified compressive strength of the concrete.
6. Prepare the concrete surface and reinforcing steel in accordance with the patching material manufacturer's recommendations. At a minimum, clean the concrete surfaces (including perimeter edges) and reinforcing steel using oil-free abrasive blasting or high-pressure (minimum 5,000 psi) water blasting. All dirt, dust, loose particles, rust, laitance, oil, film, microcracked/bruised concrete or foreign material of any sort shall be removed. Damage to the epoxy coating on steel reinforcing bars shall be repaired in accordance with Section 6-02.3(24)H.
7. Construct forms if necessary, such as for patching vertical or overhead surfaces or where patching extends to the edge or corner of a placement.
8. When recommended by the patching material manufacturer, saturate the concrete in the repair area and remove any free water at the concrete surface to obtain a saturated surface dry (SSD) substrate. When recommended by the patching material manufacturer, apply a primer, scrub coat or bonding agent to the existing surfaces. Epoxy bonding agents, if used, shall be Type II or Type V in accordance with Section 9-26.1.
9. Place and consolidate the patching material in accordance with the manufacturer's recommendations. Work the material firmly into all surfaces of the repair area with sufficient pressure to achieve proper bond to the concrete.
10. The patching material shall be textured, cured and finished in accordance with the patching material manufacturer's recommendations and/or the requirements for the repaired component.

1 Protect the newly placed patch from vibration in accordance with
2 Section 6-02.3(6)D.

3
4 11. When the completed repair does not match the existing concrete color
5 and will be visible to the public, a sand and cement mixture that is color
6 matched to the existing concrete shall be rubbed, brushed, or applied
7 to the surface of the patching material and the concrete.

8
9 **6-01.10 Utilities Supported by or Attached to Bridges**
10 In the third paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".

11
12 **6-01.12 Final Cleanup**
13 The second sentence of the first paragraph is revised to read:

14
15 Structure decks shall be clean.

16
17 The second paragraph is deleted.

18
19 **Section 6-02, Concrete Structures**
20 **January 7, 2019**

21 **6-02.1 Description**
22 The first sentence is revised to read:
23
24 This Work consists of the construction of all Structures (and their parts) made of portland
25 cement or blended hydraulic cement concrete with or without reinforcement, including
26 bridge approach slabs.

27
28 **6-02.2 Materials**
29 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
30 Cement Concrete" are revised to read:

31

32	Cement	9-01
33	Aggregates for Concrete	9-03.1

34

35 **6-02.3(2) Proportioning Materials**
36 The second paragraph is revised to read:
37
38 Unless otherwise specified, the Contractor shall use Type I or II portland cement or
39 blended hydraulic cement in all concrete as defined in Section 9-01.2(1).

40
41 **6-02.3(2)A Contractor Mix Design**
42 The last sentence of the last paragraph is revised to read:
43
44 For all other concrete, air content shall be a minimum of 4.5 percent and a maximum of
45 7.5 percent for all concrete placed above the finished ground line unless noted otherwise.

46
47 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**
48 Item number 5 of the first paragraph is deleted.

49

1 Item number 6 of the first paragraph (after the preceding Amendment is applied) is
2 renumbered to 5.

3
4 **6-02.3(2)B Commercial Concrete**

5 The second paragraph is revised to read:

6
7 Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging
8 culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB and
9 RM signal standards, pedestals, cabinet bases, guardrail anchors, fence post footings,
10 sidewalks, concrete curbs, curbs and gutters, and gutters, the Contractor may use
11 commercial concrete. If commercial concrete is used for sidewalks, concrete curbs, curbs
12 and gutters, and gutters, it shall have a minimum cementitious material content of 564
13 pounds per cubic yard of concrete, shall be air entrained, and the tolerances of Section
14 6-02.3(5)C shall apply.

15
16 **6-02.3(4) Ready-Mix Concrete**

17 The first sentence of the first paragraph is revised to read:

18
19 All concrete, except lean concrete, shall be batched in a prequalified manual, semi-
20 automatic, or automatic plant as described in Section 6-02.3(4)A.

21
22 **6-02.3(4)D Temperature and Time For Placement**

23 The following is inserted after the first sentence of the first paragraph:

24
25 The upper temperature limit for placement for Class 4000D concrete may be increased
26 to a maximum of 80°F if allowed by the Engineer.

27
28 **6-02.3(5)C Conformance to Mix Design**

29 Item number 1 of the second paragraph is revised to read:

- 30
31 1. Cement weight plus 5 percent or minus 1 percent of that specified in the mix design.

32
33 **6-02.3(6)A1 Hot Weather Protection**

34 The first paragraph is revised to read:

35
36 The Contractor shall provide concrete within the specified temperature limits. Cooling of
37 the coarse aggregate piles by sprinkling with water is permitted provided the moisture
38 content is monitored, the mixing water is adjusted for the free water in the aggregate and
39 the coarse aggregate is removed from at least 1 foot above the bottom of the pile.
40 Sprinkling of fine aggregate piles with water is not allowed. Refrigerating mixing water or
41 replacing all or part of the mixing water with crushed ice is permitted, provided the ice is
42 completely melted by placing time.

43
44 The second sentence of the second paragraph is revised to read:

45
46 These surfaces include forms, reinforcing steel, steel beam flanges, and any others that
47 touch the concrete.

48
49 **6-02.3(7) Vacant**

50 This section, including title, is revised to read:

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6-02.3(7) Tolerances

Unless noted otherwise, concrete construction tolerances shall be in accordance with this section. Tolerances in this section do not apply to cement concrete pavement.

Horizontal deviation of roadway crown points, cross-slope break points, and curb, barrier or railing edges from alignment or work line: ± 1.0 inch

Deviation from plane: ± 0.5 inch in 10 feet

Deviation from plane for roadway surfaces: ± 0.25 inch in 10 feet

Deviation from plumb or specified batter: ± 0.5 inch in 10 feet, but not to exceed a total of ± 1.5 inches

Vertical deviation from profile grade for roadway surfaces: ± 1 inch

Vertical deviation of top surfaces (except roadway surfaces): ± 0.75 inch

Thickness of bridge decks and other structural slabs not at grade: ± 0.25 inch

Length, width and thickness of elements such as columns, beams, crossbeams, diaphragms, corbels, piers, abutments and walls, including dimensions to construction joints in initial placements: $+0.5$ inch, -0.25 inch

Length, width and thickness of spread footing foundations: $+2$ inches, -0.5 inch

Horizontal location of the as-placed edge of spread footing foundations: The greater of $\pm 2\%$ of the horizontal dimension of the foundation perpendicular to the edge and ± 0.5 inch. However, the tolerance shall not exceed ± 2 inches.

Location of opening, insert or embedded item at concrete surface: ± 0.5 inch

Cross-sectional dimensions of opening: ± 0.5 inch

Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint gaps with a specified temperature range, measured at a stable temperature: ± 0.25 inch

Horizontal deviation of centerline of bearing pad, oak block or other bearing assembly: ± 0.125 inch

Horizontal deviation of centerline of supported element from centerline of bearing pad, oak block or other bearing assembly ± 0.25 inch

Vertical deviation of top of bearing pad, oak block or other bearing assembly: ± 0.125 inch

6-02.3(10)C Finishing Equipment

The first paragraph is revised to read:

The finishing machine shall be self-propelled and be capable of forward and reverse movement under positive control. The finishing machine shall be equipped with augers and a rotating cylindrical single or double drum screed. The finishing machine shall have the necessary adjustments to produce the required cross section, line, and grade. The

1 finishing machine shall be capable of raising the screeds, augers, and any other parts of
2 the finishing mechanical operation to clear the screeded surface, and returning to the
3 specified grade under positive control. Unless otherwise allowed by the Engineer, a
4 finishing machine manufacturer technical representative shall be on site to assist the first
5 use of the machine on the Contract.
6

7 The first sentence of the second paragraph is revised to read:
8

9 For bridge deck widening of 20 feet or less, and for bridge approach slabs, or where
10 jobsite conditions do not allow the use of the conventional configuration finishing
11 machines, or modified conventional machines as described above; the Contractor may
12 submit a Type 2 Working Drawing proposing the use of a hand-operated motorized power
13 screed such as a "Texas" or "Bunyan" screed.
14

15 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement**

16 This section, including title, is revised to read:
17

18 **6-02.3(10)D4 Vacant**

19 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

20 In the third subparagraph of the first paragraph, the last sentence is revised to read:
21

22 The Contractor shall texture the bridge deck surface to within 3-inches minimum and 24-
23 inches maximum of the edge of concrete at expansion joints, within 1-foot minimum and
24 2-foot maximum of the curb line, and within 3-inches minimum and 9-inches maximum of
25 the perimeter of bridge drain assemblies.
26
27

28 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

29 The second to last paragraph is revised to read:
30

31 The compression seal shall be a 2½ inch wide gland and shall conform to Section 9-
32 04.1(4).
33

34 The last paragraph is deleted.
35

36 **6-02.3(13)A Strip Seal Expansion Joint System**

37 In item number 3 of the third paragraph, "Federal Standard 595" is revised to read "SAE AMS
38 Standard 595".
39

40 **6-02.3(13)B Compression Seal Expansion Joint System**

41 The first paragraph is revised to read:
42

43 Compression seal glands shall conform to Section 9-04.1(4) and be sized as shown in
44 the Plans.
45

46 **6-02.3(14)C Pigmented Sealer for Concrete Surfaces**

47 This section is supplemented with the following new paragraph:
48

49 Pigmented Sealer Materials shall be a product listed in the current WSDOT Qualified
50 Products List (QPL). If the pigmented sealer material is not listed in the current WSDOT
51 QPL, a sample shall be submitted to the State Materials Laboratory in Tumwater for
52 evaluation and acceptance in accordance with Section 9-08.3.

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6-02.3(20) Grout for Anchor Bolts and Bridge Bearings

The second, third and fourth paragraphs are revised to read:

Grout shall be a workable mix with a viscosity that is suitable for the intended application. Grout shall not be placed outside of the manufacturer recommended range of thickness. The Contractor shall receive concurrence from the Engineer before using the grout.

Field grout cubes and cylinders shall be fabricated and tested in accordance with Section 9-20.3 when requested by the Engineer, but not less than once per bridge pier or once per day.

Before placing grout, the substrate on which it is to be placed shall be prepared as recommended by the manufacturer to ensure proper bonding. The grout shall be cured as recommended by the manufacturer. The grout may be loaded when a minimum of 4,000 psi compressive strength is attained.

The fifth paragraph is deleted.

6-02.3(23) Opening to Traffic

This section is supplemented with the following new paragraph:

After curing bridge approach slabs in accordance with Section 6-02.3(11), the bridge approach slabs may be opened to traffic when a minimum compressive strength of 2,500 psi is achieved.

6-02.3(24)C Placing and Fastening

This section is revised to read:

The Contractor shall position reinforcing steel as the Plans require and shall ensure that the steel is set within specified tolerances. Adjustments to reinforcing details outside of specified tolerances to avoid interferences and for other purposes are acceptable when approved by the Engineer.

When spacing between bars is 1 foot or more, they shall be tied at all intersections. When spacing is less than 1 foot, every other intersection shall be tied. If the Plans require bundled bars, they shall be tied together with wires at least every 6 feet. All epoxy-coated bars in the top mat of the bridge deck shall be tied at all intersections, however they may be tied at alternate intersections when spacing is less than 1 foot in each direction and they are supported by continuous supports meeting all other requirements of supports for epoxy-coated bars. Other epoxy-coated bars shall also be tied at all intersections, but shall be tied at alternate intersections when spacing is less than 1 foot in each direction. Wire used for tying epoxy-coated reinforcing steel shall be plastic coated. **Tack welding is not permitted on reinforcing steel.**

Abrupt bends in the steel are permitted only when one steel member bends around another. Vertical stirrups shall pass around main reinforcement or be firmly attached to it.

For slip-formed concrete, the reinforcing steel bars shall be tied at all intersections and cross braced to keep the cage from moving during concrete placement. Cross bracing shall be with additional reinforcing steel. Cross bracing shall be placed both longitudinally and transversely.

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After reinforcing steel bars are placed in a traffic or pedestrian barrier and prior to slip-form concrete placement, the Contractor shall check clearances and reinforcing steel bar placement. This check shall be accomplished by using a template or by operating the slip-form machine over the entire length of the traffic or pedestrian barrier. All clearance and reinforcing steel bar placement deficiencies shall be corrected by the Contractor before slip-form concrete placement.

Precast concrete supports (or other accepted devices) shall be used to maintain the concrete coverage required by the Plans. The precast concrete supports shall:

1. Have a bearing surface measuring not greater than 2 inches in either dimension, and
2. Have a compressive strength equal to or greater than that of the concrete in which they are embedded.

In slabs, each precast concrete support shall have either: (1) a grooved top that will hold the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to the reinforcing steel. If this wire is used around epoxy-coated bars, it shall be coated with plastic.

Precast concrete supports may be accepted based on a Manufacturer's Certificate of Compliance.

In lieu of precast concrete supports, the Contractor may use metal or all-plastic supports to hold uncoated bars. Any surface of a metal support that will not be covered by at least 1/2 inch of concrete shall be one of the following:

1. Hot-dip galvanized after fabrication in keeping with AASHTO M232 Class D;
2. Coated with plastic firmly bonded to the metal. This plastic shall be at least 3/32 inch thick where it touches the form and shall not react chemically with the concrete when tested in the State Materials Laboratory. The plastic shall not shatter or crack at or above -5°F and shall not deform enough to expose the metal at or below 200°F; or
3. Stainless steel that meet the requirements of ASTM A493, Type 302. Stainless steel chair supports are not required to be galvanized or plastic coated.

In lieu of precast concrete supports, epoxy-coated reinforcing bars may be supported by one of the following:

1. Metal supports coated entirely with a dielectric material such as epoxy or plastic,
2. Other epoxy-coated reinforcing bars, or
3. All-plastic supports.

Damaged coatings on metal bar supports shall be repaired prior to placing concrete.

All-plastic supports shall be lightweight, non-porous, and chemically inert in concrete. All-plastic supports shall have rounded seatings, shall not deform under load during normal

1 temperatures, and shall not shatter or crack under impact loading in cold weather. All-
2 plastic supports shall be placed at spacings greater than 1 foot along the bar and shall
3 have at least 25 percent of their gross place area perforated to compensate for the
4 difference in the coefficient of thermal expansion between plastic and concrete. The
5 shape and configuration of all-plastic supports shall permit complete concrete
6 consolidation in and around the support.

7
8 A "mat" is two adjacent and perpendicular layers of reinforcing steel. In bridge decks, top
9 and bottom mats shall be supported adequately enough to hold both in their proper
10 positions. If bar supports directly support, or are directly supported on No. 4 bars, they
11 shall be spaced at not more than 3-foot intervals (or not more than 4-foot intervals for
12 bars No. 5 and larger). Wire ties to girder stirrups shall not be considered as supports. To
13 provide a rigid mat, the Contractor shall add other supports and tie wires to the top mat
14 as needed.

15
16 Unless noted otherwise, the minimum concrete cover for main reinforcing bars shall be:

- 17 3 inches to a concrete surface deposited against earth without intervening forms.
- 18
- 19 2½ inches to the top surface of a concrete bridge deck or bridge approach slab.
- 20
- 21 2 inches to a concrete surface when not specified otherwise in this section or in the
- 22 Contract documents.
- 23
- 24 1½ inches to a concrete barrier or curb surface.
- 25
- 26

27 Except for top cover in bridge decks and bridge approach slabs, minimum concrete cover
28 to ties and stirrups may be reduced by ½ inch but shall not be less than 1 inch. Minimum
29 concrete cover shall also be provided to the outermost part of mechanical splices and
30 headed steel reinforcing bars.

31
32 Reinforcing steel bar location, concrete cover and clearance shall not vary more than the
33 following tolerances from what is specified in the Contract documents:

- 34 Reinforcing bar location for members 12 inches or less in thickness: ±0.25 inch
- 35
- 36 Reinforcing bar location for members greater than 12 inches in thickness: ±0.375
- 37 inch
- 38
- 39 Reinforcing bar location for bars placed at equal spacing within a plane: the greater
- 40 of either ±1 inch or ±1 bar diameter within the plane. The total number of bars shall
- 41 not be fewer than that specified.
- 42
- 43 The clearance between reinforcement shall not be less than the greater of the bar
- 44 diameter or 1 inch for unbundled bars. For bundled bars, the clearance between
- 45 bundles shall not be less than the greater of 1 inch or a bar diameter derived from
- 46 the equivalent total area of all bars in the bundle.
- 47
- 48 Longitudinal location of bends and ends of bars: ±1 inch
- 49
- 50 Embedded length of bars and length of bar lap splices:
- 51
- 52

- 1 No. 3 through No. 11: -1 inch
- 2
- 3 No. 14 through No. 18: -2 inches
- 4
- 5 Concrete cover measured perpendicular to concrete surface (except for the top
- 6 surface of bridge decks, bridge approach slabs and other roadway surfaces): ±0.25
- 7 inch
- 8
- 9 Concrete cover measured perpendicular to concrete surface for the top surface of
- 10 bridge decks, bridge approach slabs and other roadway surfaces: +0.25 inch, -0 inch
- 11

12 Before placing any concrete, the Contractor shall:

- 13
- 14 1. Clean all mortar from reinforcement, and
- 15
- 16 2. Obtain the Engineer’s permission to place concrete after the Engineer has
- 17 inspected the placement of the reinforcing steel. (Any concrete placed without
- 18 the Engineer’s permission shall be rejected and removed.)
- 19

20 **6-02.3(25)H Finishing**

21 The last paragraph is revised to read:

22

23 The Contractor may repair defects in prestressed concrete girders in accordance with

24 Section 6-01.16.

25

26 **6-02.3(25)I Fabrication Tolerances**

27 Item number 12 of the first paragraph is revised to read:

- 28
- 29 12. Stirrup Projection from Top of Girder:
- 30
- 31 Wide flange thin deck and slab girders: ± ½ inch
- 32
- 33 All other girders: ± ¾ inch
- 34

35 **6-02.3(27) Concrete for Precast Units**

36 The last sentence of the first paragraph is revised to read:

37

38 Type III portland cement or blended hydraulic cement is permitted to be used in precast

39 concrete units.

40

41 **6-02.3(28)B Casting**

42 In the second paragraph, the reference to Section 6-02.3(25)B is revised to read Section 6-

43 02.3(25)C.

44

45 **6-02.3(28)D Contractors Control Strength**

46 In the first paragraph, “WSDOT FOP for AASHTO T 23” is revised to read “FOP for AASHTO

47 T 23”.

48

49 **6-02.3(28)E Finishing**

50 This section is supplemented with the following:

51

1 The Contractor may repair defects in precast panels in accordance with Section 6-01.16.

2

3 **Section 6-03, Steel Structures**

4 **January 7, 2019**

5 **6-03.2 Materials**

6 In the first paragraph, the material reference for Paints is revised to read:

7

8 Paints and Related Materials 9-08

9

10 **6-03.3(25)A3 Ultrasonic Inspection**

11 The first paragraph (up until the colon) is revised to read:

12

13 Complete penetration groove welds on plates 5/16 inch and thicker in the following welded
14 assemblies or Structures shall be 100 percent ultrasonically inspected:

15

16 **6-03.3(33) Bolted Connections**

17 The first paragraph is supplemented with the following:

18

19 After final tightening of the fastener components, the threads of the bolts shall at a
20 minimum be flush with the end of the nut.

21

22 The following is inserted after the third sentence of the fourth paragraph:

23

24 When galvanized bolts are specified, tension-control galvanized bolts are not permitted.

25

26 **Section 6-05, Piling**

27 **January 2, 2018**

28 **6-05.3(9)A Pile Driving Equipment Approval**

29 The fourth sentence of the second paragraph is revised to read:

30

31 For prestressed concrete piles, the allowable driving stress in kips per square inch shall
32 be $0.095 \cdot \sqrt{f'_c}$ plus prestress in tension, and $0.85f'_c$ minus prestress in compression,
33 where f'_c is the concrete compressive strength in kips per square inch.

34

35 **Section 6-07, Painting**

36 **January 7, 2019**

37 **6-07.1 Description**

38 The first sentence is revised to read:

39

40 This work consists of containment, surface preparation, shielding adjacent areas from
41 work, testing and disposing of debris, furnishing and applying paint, and cleaning up after
42 painting is completed.

43

44 **6-07.2 Materials**

45 The material reference for Paint is revised to read:

46

47 Paint and Related Materials 9-08

48

1 **6-07.3(1)A Work Force Qualifications for Shop Application of Paint**

2 This section is supplemented with the following new sentence:

3
4 The work force may be accepted based on the approved facility.

5
6 **6-07.3(1)B Work Force Qualifications for Field Application of Paint**

7 The first two paragraphs are revised to read:

8
9 The Contractor preparing the surface and applying the paint shall be certified under
10 SSPC-QP 1 or NACE International Institute Contractor Accreditation Program (NIICAP)
11 AS 1.

12
13 The Contractor removing and otherwise disturbing existing paint containing lead and
14 other hazardous materials shall be certified under SSPC-QP 2, Category A or NIICAP AS
15 2.

16
17 The third paragraph (up until the colon) is revised to read:

18
19 In lieu of the above SSPC or NIICAP certifications, the Contractor performing the specified
20 work shall complete both of the following actions:

21
22 Item number 2 of the third paragraph is revised to read:

- 23
24 2. The Contractor's quality control inspector(s) for the project shall be NACE-certified
25 CIP Level 3 or SSPC Protective Coating Inspector (PCI) Level 3.

26
27 **6-07.3(2) Submittals**

28 The first paragraph is supplemented with the following:

29
30 Each component of the plan shall identify the specification section it represents.

31
32 **6-07.3(2)B Contractor's Quality Control Program Submittal Component**

33 The numbered list in the first paragraph is revised to read:

- 34
35 1. Description of the inspection procedures, tools, techniques and the acceptance
36 criteria for all phases of work.
37
38 2. Procedure for implementation of corrective action for non-conformance work.
39
40 3. The paint system manufacturer's recommended methods of preventing defects.
41
42 4. The Contractor's frequency of quality control inspection for each phase of work.
43
44 5. Example of each completed form(s) of the daily quality control report used to
45 document the inspection work and tests performed by the Contractor's quality control
46 personnel.
47

48 **6-07.3(2)C Paint System Manufacturer and Paint System Information Submittal**
49 **Component**

50 Item number 1 is revised to read:

51

- 1 1. Product data sheets and Safety Data Sheets (SDS) on the paint materials, paint
2 preparation, and paint application, as specified by the paint manufacturer, including:
3
4 a. All application instructions, including the mixing and thinning directions.
5
6 b. Recommended spray nozzles and pressures.
7
8 c. Minimum and maximum drying time between coats.
9
10 d. Restrictions on temperature and humidity.
11
12 e. Repair procedures for shop and field applied coatings.
13
14 f. Maximum dry film thickness for each coat.
15
16 g. Minimum wet film thickness for each coat to achieve the specified minimum dry
17 film thickness.
18

19 **6-07.3(2)D Hazardous Waste Containment, Collection, Testing, and Disposal**
20 **Submittal Component**

21 The first paragraph (up until the colon) is revised to read:

22
23 The hazardous waste containment, collection, testing, and disposal shall meet all Federal
24 and State requirements, and the submittal component of the painting plan shall include
25 the following:
26

27 **6-07.3(2)E Cleaning and Surface Preparation Submittal Component**

28 Item 1(b) of the first paragraph is revised to read::

- 29
30 b. Type, manufacturer, and brand of abrasive blast material and all associated
31 additives, including Safety Data Sheets (SDS).
32

33 **6-07.3(3)B Quality Control and Quality Assurance for Field Application of Paint**

34 The last sentence of the first paragraph (excluding the numbered list) is revised to read:

35
36 The Contractor's quality control operations shall include a minimum monitoring and
37 documenting the following for each working day:
38

39 Item number 1 in the fourth paragraph is revised to read:

- 40
41 1. Environmental conditions for painting in accordance with ASTM E 337.
42

43 Item number 4 in the fourth paragraph is revised to read:

- 44
45 4. Pictorial of surface preparation guides in accordance with SSPC-VIS 1, 3, 4, and 5.
46

47 Item number 5 in the fourth paragraph is revised to read:

- 48
49 5. Surface profile by Keanne-Tator comparator in accordance with ASTM D 4417 and
50 SSPC PA17.
51

1 **6-07.3(4) Paint System Manufacturer’s Technical Representative**

2 This section is revised to read:

3

4 The paint system manufacturer’s representative shall be present at the jobsite for the pre-
5 painting conference and for the first day of paint application, and shall be available to the
6 Contractor and Contracting Agency for consultation for the full project duration.

7

8 **6-07.3(5) Pre-Painting Conference**

9 The second paragraph is revised to read:

10

11 If the Contractor’s key personnel change between any work operations, an additional
12 conference shall be held if requested by the Engineer.

13

14 **6-07.3(6)A Paint Containers**

15 In item number 2 of the first paragraph, “Federal Standard 595” is revised to read “SAE AMS
16 Standard 595”.

17

18 **6-07.3(6)B Paint Storage**

19 Item number 2 of the second paragraph is revised to read:

20

21 2. The Contractor shall monitor and document daily the paint material storage facility
22 with a high-low recording thermometer device.

23

24 **6-07.3(7) Paint Sampling and Testing**

25 The first two paragraphs are revised to read:

26

27 The Contractor shall provide the Engineer 1 quart of each paint representing each lot.
28 Samples shall be accompanied with a Safety Data Sheet.

29

30 If the quantity of paint required for each component of the paint system for the entire
31 project is 20 gallons or less, then the paint system components will be accepted as
32 specified in Section 9-08.1(7).

33

34 **6-07.3(8)A Paint Film Thickness Measurement Gages**

35 The first paragraph is revised to read:

36

37 Paint dry film thickness measurements shall be performed with either a Type 1 pull-off
38 gage or a Type 2 electronic gage as specified in SSPC Paint Application Specification No.
39 2, Procedure for Determining Conformance to Dry Coating Thickness Requirements.

40

41 **6-07.3(9) Painting New Steel Structures**

42 The last sentence of the second paragraph is revised to read:

43

44 Welded shear connectors are not required to painted.

45

46 The last paragraph is revised to read:

47

48 Temporary attachments or supports for scaffolding, containment or forms shall not
49 damage the paint system.

50

1 **6-07.3(9)A Paint System**

2 The first paragraph is revised to read:

3

4 The paint system applied to new steel surfaces shall consist of the following:

5

6 Option 1 (component based paint system):

7

8 Primer Coat – Inorganic Zinc Rich 9-08.1(2)C

9 Intermediate Coat – Moisture Cured Polyurethane 9-08.1(2)G

10 Intermediate Stripe Coat – Moisture Cured Polyurethane 9-08.1(2)G

11 Top Coat – Moisture Cured Polyurethane 9-08.1(2)H

12

13 Option 2 (performance based paint system):

14

15 Primer Coat – Inorganic Zinc Rich 9-08.1(2)M

16 Intermediate Coat – Epoxy 9-08.1(2)M

17 Intermediate Stripe Coat – Epoxy 9-08.1(2)M

18 Top Coat – Polyurethane 9-08.1(2)M

19

20 The following new paragraph is inserted after the first paragraph:

21

22 Paints and related materials shall be products listed in the current WSDOT Qualified
23 Products List (QPL). Component based paint systems shall be listed on the QPL in the
24 applicable sections of Section 9-08. Performance based systems shall be listed on the
25 current Northeast Protective Coatings Committee (NEPCOAT) Qualified Products List “A”
26 as listed on the WSDOT QPL in Section 9-08.1(2)M. If the paint and related materials for
27 the component based system is not listed in the current WSDOT QPL, a sample shall be
28 submitted to the State Materials Laboratory in Tumwater for evaluation and acceptance
29 in accordance with Section 9-08.

30

31 **6-07.3(9)C Mixing and Thinning Paint**

32 This section is revised to read:

33

34 The Contractor shall thoroughly mix paint in accordance with the manufacturer’s written
35 recommendations and by mechanical means to ensure a uniform and lump free
36 composition. Paint shall not be mixed by means of air stream bubbling or boxing. Paint
37 shall be mixed in the original containers and mixing shall continue until all pigment or
38 metallic powder is in suspension. Care shall be taken to ensure that the solid material that
39 has settled to the bottom of the container is thoroughly dispersed. After mixing, the
40 Contractor shall inspect the paint for uniformity and to ensure that no unmixed pigment or
41 lumps are present.

42

43 Catalysts, curing agents, hardeners, initiators, or dry metallic powders that are packaged
44 separately may be added to the base paint in accordance with the paint manufacturer’s
45 written recommendations and only after the paint is thoroughly mixed to achieve a uniform
46 mixture with all particles wetted. The Contractor shall then add the proper volume of
47 curing agent to the correct volume of base and mix thoroughly. The mixture shall be used
48 within the pot life specified by the manufacturer. Unused portions shall be discarded at
49 the end of each work day. Accelerants are not permitted except as allowed by the
50 Engineer.

51

1 The Contractor shall not add additional thinner at the application site except as allowed
2 by the Engineer. The amount and type of thinner, if allowed, shall conform to the
3 manufacturer's specifications. If recommended by the manufacturer and allowed by the
4 Engineer, a measuring cup shall be used for the addition of thinner to any paint with
5 graduations in ounces. No un-measured addition of thinner to paint will be allowed. Any
6 paint found to be thinned by unacceptable methods will be rejected.

7
8 When recommended by the manufacturer, the Contractor shall constantly agitate paint
9 during application by use of paint pots equipped with mechanical agitators.

10
11 The Contractor shall strain all paint after mixing to remove undesirable matter, but without
12 removing the pigment or metallic powder.

13
14 Paint shall be stored and mixed in a secure, contained location to eliminate the potential
15 for spills into State waters and onto the ground and highway surfaces.

16
17 **6-07.3(9)D Coating Thickness**

18 This section is revised to read:

19
20 Dry film thickness shall be measured in accordance with SSPC Paint Application
21 Specification No. 2, *Procedure for Determining Conformance to Dry Coating Thickness*
22 *Requirements*.

23
24 The minimum dry film thickness of the primer coat shall not be less than 2.5 mils.

25
26 The minimum dry film thickness of each coat (combination of intermediate and
27 intermediate stripe, and top) shall be not less than 3.0 mils.

28
29 The dry film thickness of each coat shall not be thicker than the paint manufacturer's
30 recommended maximum thickness.

31
32 The minimum wet film thickness of each coat shall be specified by the paint manufacturer
33 to achieve the minimum dry film thickness.

34
35 Film thickness, wet and dry, will be measured by gages conforming to Section 6-07.3(8)A.

36
37 Wet measurements will be taken immediately after the paint is applied in accordance with
38 ASTM D4414. Dry measurements will be taken after the coating is dry and hard in
39 accordance with SSPC Paint Application Specification No. 2.

40
41 Each painter shall be equipped with wet film thickness gages and shall be responsible for
42 performing frequent checks of the paint film thickness throughout application.

43
44 Coating thickness measurements may be made by the Engineer after the application of
45 each coat and before the application of the succeeding coat. In addition, the Engineer
46 may inspect for uniform and complete coverage and appearance. One hundred percent
47 of all thickness measurements shall meet or exceed the minimum wet film thickness. In
48 areas where wet film thickness measurements are impractical, dry film thickness
49 measurements may be made. If a question arises about an individual coat's thickness or
50 coverage, it may be verified by the use of a Tooke gage in accordance with ASTM D4138.
51

1 If the specified number of coats does not produce a combined dry film thickness of at
2 least the sum of the thicknesses required per coat, if an individual coat does not meet the
3 minimum thickness, or if visual inspection shows incomplete coverage, the coating
4 system will be rejected and the Contractor shall discontinue painting and surface
5 preparation operations and shall submit a Type 2 Working Drawing of the repair proposal.
6 The repair proposal shall include documentation demonstrating the cause of the less-
7 than-minimum thickness, along with physical test results, as necessary, and modifications
8 to Work methods to prevent similar results. The Contractor shall not resume painting or
9 surface preparation operations until receiving the Engineer's acceptance of the
10 completed repair.

11

12 **6-07.3(9)E Surface Temperature Requirements Prior to Application of Paint**

13 This section, including title, is revised to read:

14

15 **6-07.3(9)E Environmental Condition Requirements Prior to Application of** 16 **Paint**

17 Paint shall be applied only during periods when:

18

- 19 1. Air and steel temperatures are in accordance with the paint manufacturer's
20 recommendations but in no case less than 35°F nor greater than 115°F.
- 21 2. Steel surface temperature is a minimum of 5°F above the dew point.
- 22 3. Steel surface is not wet.
- 23 4. Relative humidity is within the manufacturer's recommended range.
- 24 5. The anticipated ambient temperature will remain above 35°F or the
25 manufacturer's minimum temperature, whichever is greater, during the paint
26 drying and curing period.

27

28 Application will not be allowed if conditions are not favorable for proper application and
29 performance of the paint.

30

31 Paint shall not be applied when weather conditions are unfavorable to proper curing. If a
32 paint system manufacturer's recommendations allow for application of a paint under
33 environmental conditions other than those specified, the Contractor shall submit a Type
34 2 Working Drawing consisting of a letter from the paint manufacturer specifying the
35 environmental conditions under which the paint can be applied. Application of paint under
36 environmental conditions other than those specified in this section will not be allowed
37 without the Engineer's concurrence.

38

39

40 **6-07.3(9)F Shop Surface Cleaning and Preparation**

41 The last sentence is revised to read:

42

43 The entire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G
44 to receive a mist coat of primer, shall be cleaned to a near white condition in accordance
45 with SSPC-SP 10, *Near-white Metal Blast Cleaning*, and shall be in this condition
46 immediately prior to paint application.

47

48

49

50

51

1 **6-07.3(9)G Application of Shop Primer Coat**

2 The first paragraph is supplemented with the following:

3
4 Repairs of the shop primer coat shall be prepared in accordance with the painting plan.
5 Shop primer coat repair paint shall be selected from the approved component based or
6 performance based paint system in accordance with Section 6-07.3(10)H.
7

8 **6-07.3(9)H Containment for Field Coating**

9 This section is revised to read:

10
11 The Contractor shall use a containment system in accordance with Section 6-07.3(10)A
12 for surface preparation and prime coating of all uncoated areas remaining, including bolts,
13 nuts, washers, and splice plates.
14

15 During painting operations of the intermediate, stripe and top coats the Contractor shall
16 furnish, install, and maintain drip tarps below the areas to be painted to contain all spilled
17 paint, buckets, brushes, and other deleterious material, and prevent such materials from
18 reaching the environment below or adjacent to the structure being painted. Drip tarps
19 shall be absorbent material and hung to minimize puddling. The Contractor shall evaluate
20 the project-specific conditions to determine the specific type and extent of containment
21 needed to control the paint emissions and shall submit a containment plan in accordance
22 with Section 6-07.3(2).
23

24 **6-07.3(9)I Application of Field Coatings**

25 This section is revised to read:

26
27 An on-site supervisor shall be present for each work shift at the bridge site.
28

29 Upon completion of erection Work, all uncoated or damaged areas remaining, including
30 bolts, nuts, washers, and splice plates, shall be prepared in accordance with Section 6-
31 07.3(9)F, followed by a field primer coat of a zinc-rich primer and final coats of paint
32 selected from the approved component or performance based paint system in
33 accordance with Section 6-07.3(10)H. . The intermediate, intermediate stripe, and top
34 coats shall be applied in accordance with the manufacturer's written recommendations.
35

36 Upon completion of erection Work, welds for steel column jackets may be prepared in
37 accordance with SSPC-SP 15, Commercial Grade Power Tool Cleaning.
38

39 The minimum drying time between coats shall be as shown in the product data sheets,
40 but not less than 12 hours. The Contractor shall determine whether the paint has cured
41 sufficiently for proper application of succeeding coats.
42

43 The maximum time between intermediate and top coats shall be in accordance with the
44 manufacturer's written recommendations. If the maximum time between coats is
45 exceeded, all newly coated surfaces shall be prepared to SSPC-SP 7, *Brush-off Blast*
46 *Cleaning*, and shall be repainted with the same paint that was cleaned, at no additional
47 cost to the Contracting Agency.
48

49 Each coat shall be applied in a uniform layer, completely covering the preceding coat.
50 The Contractor shall correct runs, sags, skips, or other deficiencies before application of
51 succeeding coats. Such corrective work may require re-cleaning, application of additional

1 paint, or other means as determined by the Engineer, at no additional cost to the
2 Contracting Agency.

3
4 Dry film thickness measurements will be made in accordance with Section 6-07.3(9)D.

5
6 All paint damage that occurs shall be repaired in accordance with the manufacturer's
7 written recommendations. On bare areas or areas of insufficient primer thickness, the
8 repair shall include field-applied zinc-rich primer and the final coats of paint selected from
9 the approved component or performance based paint system in accordance with Section
10 6-07.3(10)H. On areas where the primer is at least equal to the minimum required dry film
11 thickness, the repair shall include the application of the final two coats of the paint system.
12 All paint repair operations shall be performed by the Contractor at no additional cost or
13 time to the Contracting Agency.

14

15 **6-07.3(10)A Containment**

16 The first sentence of the third paragraph is revised to read:

17

18 Emissions shall be assessed by Visible Emission Observations (Method A) in SSPC
19 Technology Update No. 7, *Conducting Ambient Air, Soil, and Water Sampling of Surface*
20 *Preparation and Paint Disturbance Activities*, Section 6.2 and shall be limited to the Level
21 A Acceptance Criteria Option Level 0 Emissions standard.

22

23 **6-07.3(10)D Surface Preparation Prior to Overcoat Painting**

24 The first paragraph is revised to read:

25

26 The Contractor shall remove any visible oil, grease, and road tar in accordance with
27 SSPC-SP 1, *Solvent Cleaning*.

28

29 The second paragraph is revised to read:

30

31 Following any preparation by SSPC-SP1, all steel surfaces to be painted shall be
32 prepared in accordance with SSPC-SP 7, *Brush-off Blast Cleaning*. Surfaces inaccessible
33 to brush-off blast shall be prepared in accordance with SSPC-SP 3, *Power Tool Cleaning*,
34 as allowed by the Engineer.

35

36 The first sentence of the third paragraph is revised to read:

37

38 Following brush-off blast cleaning, the Contractor shall perform spot abrasive blast
39 cleaning in accordance with SSPC-SP 6, *Commercial Blast Cleaning*.

40

41 The second to last sentence of the third paragraph is revised to read:

42

43 For small areas, as allowed by the Engineer, the Contractor may substitute cleaning in
44 accordance with SSPC-SP 15, *Commercial Grade Power Tool Cleaning*.

45

46 **6-07.3(10)G Treatment of Pack and Rust Gaps**

47 The second paragraph is revised to read:

48

49 Pack rust forming a gap between steel surfaces of $\frac{1}{16}$ to $\frac{1}{4}$ inch shall be cleaned to a
50 depth of at least one half of the gap width. The gaps shall be cleaned and prepared in
51 accordance with SSPC-SP6. The cleaned gap shall be treated with rust penetrating
52 sealer, prime coated, and then caulked to form a watertight seal along the top edge and

1 the two sides of the steel pieces involved, using the rust penetrating sealer and caulk as
2 accepted by the Engineer. The bottom edge or lowest edge of the steel pieces involved
3 shall not be caulked.
4

5 The third paragraph is supplemented with the following:
6

7 Caulk shall be a single-component urethane sealant conforming to Section 9-08.7.
8

9 The fifth paragraph is revised to read:
10

11 At locations where gaps between steel surfaces exceed ¼ inch, the Contractor shall clean
12 and prepare the gap in accordance SSPC-SP6, apply the rust penetrating sealer, apply
13 the prime coat, and then fill the gap with foam backer rod material as accepted by the
14 Engineer. The foam backer rod material shall be of sufficient diameter to fill the crevice or
15 gap. The Contractor shall apply caulk over the foam backer rod material to form a
16 watertight seal.
17

18 This section is supplemented with the following new paragraph:
19

20 Caulk and backer rod, if needed, shall be placed prior to applying the top coat. The
21 Contractor, with the concurrence of the Engineer, may apply the rust penetrating sealer
22 after application of the prime coat provided the primer is removed in the areas to be
23 sealed. The areas to be sealed shall be re-cleaned and re-prepared in accordance with
24 SSPC-SP6.
25

26 **6-07.3(10)H Paint System**

27 The first paragraph is revised to read:
28

29 The paint system applied to existing steel surfaces shall consist of the following five-coat
30 system:
31

32 Option 1 (component based system):
33

34	Primer Coat – Zinc-filled Moisture Cured Polyurethane	9-08.1(2)F
35	Primer Stripe Coat - Moisture Cured Polyurethane	9-08.1(2)F
36	Intermediate Coat - Moisture Cured Polyurethane	9-08.1(2)G
37	Intermediate Stripe Coat - Moisture Cured Polyurethane	9-08.1(2)G
38	Top Coat - Moisture Cured Polyurethane	9-08.1(2)H

39
40 Option 2 (performance based system):
41

42	Primer Coat – Zinc-rich Epoxy	9-08.1(2)N
43	Primer Stripe Coat – Epoxy	9-08.1(2)N
44	Intermediate Coat – Epoxy	9-08.1(2)N
45	Intermediate Stripe Coat – Epoxy	9-08.1(2)N
46	Top Coat – Polyurethane	9-08.1(2)N

47
48 The following new paragraph is inserted after the first paragraph:
49

50 Paints and related materials shall be a product listed in the current WSDOT Qualified
51 Products List (QPL). Component based paint systems shall be listed on the QPL in the
52 applicable sections of Section 9-08. Performance based systems shall be listed on the

1 current Northeast Protective Coatings Committee (NEPCOAT) Qualified Products List "B"
2 as listed on the WSDOT QPL in Section 9-08.1(2)N. If the paint and related material for
3 the component based system is not listed in the current WSDOT QPL, a sample shall be
4 submitted to the State Materials Laboratory in Tumwater for evaluation and acceptance
5 in accordance with Section 9-08.
6

7 **6-07.3(10)J Mixing and Thinning Paint**

8 This section is revised to read:
9

10 Mixing and thinning paint shall be in accordance with Section 6-07.3(9)C.
11

12 **6-07.3(10)K Coating Thickness**

13 This section is revised to read:
14

15 Coating thickness shall be in accordance with Section 6-07.3(9)D except the minimum
16 dry film thickness of each coat (combination of primer and primer stripe, combination of
17 intermediate and intermediate stripe, and top) shall not be less than 3.0 mils.
18

19 **6-07.3(10)L Environmental Condition Requirements Prior to Application of
20 Paint**

21 This section is revised to read:
22

23 Environmental conditions shall be in accordance with Section 6-07.3(9)E.
24

25 **6-07.3(10)M Steel Surface Condition Requirements Prior to Application of
26 Paint**

27 The third paragraph is revised to read:
28

29 Edges of existing paint shall be feathered in accordance with SSPC-PA 1, *Shop, Field,
30 and Maintenance Coating of Metals*, Note 15.20.
31

32 **6-07.3(10)N Field Coating Application Methods**

33 The third sentence is revised to read:
34

35 The Contractor may apply stripe coat paint using spray or brush but shall follow spray
36 application using a brush to ensure complete coverage around structural geometric
37 irregularities and to push the paint into gaps between existing steel surfaces and around
38 rivets and bolts.
39

40 **6-07.3(10)O Applying Field Coatings**

41 The second to last paragraph is revised to read:
42

43 Each application of primer, primer stripe, intermediate, intermediate stripe, and top coat
44 shall be considered as separately applied coats. The Contractor shall not use a preceding
45 or subsequent coat to remedy a deficiency in another coat. The Contractor shall apply the
46 top coat to at least the minimum specified top coat thickness, to provide a uniform
47 appearance and consistent finish coverage.
48

49 **6-07.3(10)P Field Coating Repair**

50 The second sentence is revised to read:
51

1 Repair areas shall be cleaned of all damaged paint and the system reapplied using all
2 coats typical to the paint system and shall meet the minimum coating thickness.
3

4 **6-07.3(11)A Painting of Galvanized Surfaces**

5 This section is revised to read:
6

7 All galvanized surfaces receiving paint shall be prepared for painting in accordance with
8 the ASTM D 6386. The method of preparation shall be brush-off in accordance with
9 SSPC-SP16 *Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals* or as otherwise allowed by the Engineer. The
10 Contractor shall not begin painting until receiving the Engineer's acceptance of the
11 prepared galvanized surface. For galvanized bolts used for replacement of deteriorated
12 existing rivets, the Contractor, with the concurrence of the Engineer and after successful
13 demonstration testing, may prepare galvanized surfaces in accordance with SSPC-SP1
14 followed by SSPC-SP2, *Hand Tool Cleaning* or SSPC-SP3, *Power Tool Cleaning*. The
15 demonstration testing shall include adhesion testing of the first coat of paint over
16 galvanized bolts, nuts, and washers or a representative galvanized surface. Adhesion
17 testing shall be performed in accordance with ASTM D 4541 for 600 psi minimum
18 adhesion. A minimum of 3 successful tests shall be performed on the galvanized surface
19 prepared and painted using the same methods and materials to be used on the
20 galvanized bolts, nuts and washers in the field.
21

22

23 **6-07.3(11)A2 Paint Coat Materials**

24 This section is revised to read:
25

26

27 The Contractor shall paint the dry surface as follows:

28

- 29 1. The first coat over a galvanized surface shall be an epoxy polyamide conforming
30 to Section 9-08.1(2)E . In the case of galvanized bolts used for replacement of
31 deteriorated existing rivets and for small surface areas less than or equal to one
32 square foot, an intermediate moisture cured polyurethane conforming to Section
33 9-08.1(2)G may be used as a first coat. In both cases the first coat shall be
34 compatible with galvanizing and as recommended by the top coat manufacturer.
- 35 2. The second coat shall be a top coat moisture cured aliphatic polyurethane
36 conforming to Section 9-08.1(2)H or a top coat polyurethane conforming to
37 Section 6-07.3(10)H Option 2 NEPCOAT performance based paint specification
38 compatible with the first coat as recommended by the manufacturer.
39

40

41 Each coat shall be dry before the next coat is applied. All coats applied in the shop shall
42 be dried hard before shipment.

43

43 **6-07.3(11)B Powder Coating of Galvanized Surfaces**

44 This section is revised to read:
45

46

47 Powder coating of galvanized surfaces shall consist of the following coats:

48

- 49 1. The first coat shall be an epoxy powder primer coat conforming to Section 9-
50 08.2.
- 51 2. The second coat shall be a polyester finish coat conforming to Section 9-08.2.
52

1 **6-07.3(11)B3 Galvanized Surface Cleaning and Preparation**

2 The first three paragraphs are revised to read:

3

4 Galvanized surfaces receiving the powder coating shall be cleaned and prepared for
5 coating in accordance with ASTM D 7803, and the project-specific powder coating plan.

6

7 Assemblies conforming to the ASTM D 7803 definition for newly galvanized steel shall
8 receive surface smoothing and surface cleaning in accordance with ASTM D 7803,
9 Section 5, and surface preparation in accordance with ASTM D 7803, Section 5.1.3.

10

11 Assemblies conforming to the ASTM D 7803 definition for partially weathered galvanized
12 steel shall be checked and prepared in accordance with ASTM D 7803, Section 6, before
13 then receiving surface smoothing and surface cleaning in accordance with ASTM D 7803,
14 Section 5, and surface preparation in accordance with ASTM D 7803, Section 5.1.3.

15

16 The fourth paragraph (up until the colon) is revised to read:

17

18 Assemblies conforming to the ASTM D 7803 definition for weathered galvanized steel
19 shall be prepared in accordance with ASTM D 7803, Section 7 before then receiving
20 surface smoothing and surface cleaning in accordance with ASTM D 7803, Section 5, and
21 surface preparation in accordance with ASTM D 7803, Section 5.3 except as follows:

22

23 **6-07.3(11)B5 Testing**

24 Item number 4 in the first paragraph is revised to read:

25

26 4. Adhesion testing in accordance with ASTM D 4541 for 600 psi minimum adhesion
27 for the complete two-component system.

28

29 The second sentence of the fourth paragraph is revised to read:

30

31 Rejected assemblies shall be repaired or recoated by the Contractor, at no additional
32 expense to the Contracting Agency, in accordance with the powder coating
33 manufacturer's recommendation as detailed in the project-specific powder coating plan,
34 until the assemblies satisfy the acceptance testing requirements.

35

36 **6-07.3(12) Painting Ferry Terminal Structures**

37 This section is revised to read:

38

39 Painting of ferry terminal Structures shall be in accordance with Section 6-07.3 as
40 supplemented below.

41

42 This section is supplemented with the following new subsections:

43

44 **6-07.3(12)A Painting New Steel Ferry Terminal Structures**

45 Painting of new steel Structures shall be in accordance with Section 6-07.3(9) except that
46 all coatings (primer, intermediate, intermediate stripe, and top) shall be applied in the shop
47 with the following exceptions:

48

49 1. Steel surfaces to be field welded.

50

51 2. Steel surfaces to be greased.

52

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3. The length of piles designated in the Plans not requiring painting.

The minimum drying time between coats shall be as shown in the product data sheets, but not less than 12 hours. The Contractor shall determine whether the paint has cured sufficiently for proper application of succeeding coats.

6-07.3(12)A1 Paint Systems

Paint systems for Structural Steel, which includes vehicle transfer spans and towers, pedestrian overhead loading structures and towers, upland structural steel and other elements as designated in the Special Provisions shall be as specified in Section 6-07.3(9)A.

Paint systems for Piling, Landing Aids and Life Ladders shall be as specified in the Special Provisions.

6-07.3(12)A2 Paint Color

Paint colors shall be as specified in the Special Provisions.

6-07.3(12)A3 Coating Thickness

Coating thicknesses shall be as specified in the Special Provisions.

6-07.3(12)A4 Application of Field Coatings

An on-site supervisor shall be present for each work shift at the project site.

Upon completion of erection Work, all uncoated or damaged areas remaining, including bolts, nuts, washers, splice plates, and field welds shall be prepared in accordance with SSPC-SP 1, Solvent Cleaning, followed by SSPC-SP 11, *Power Tool Cleaning to Bare Metal*. Surface preparation shall be measured according to SSPC-VIS 3. SSPC-SP 11 shall be performed for a minimum distance of 1 inch from the uncoated or damaged area. In addition, intact shop-applied coating surrounding the area shall be abraded or sanded for a distance of 6 inches out from the properly prepared clean/bare metal areas to provide adequate roughness for application of field coatings. All sanding dust and contamination shall be removed prior to application of field coatings.

Field applied paint for Structural Steel shall conform to Section 6-07.3(10)H, as applicable. Field applied paint for Piling, Landing Aids and Life Ladders shall be as specified in the Special Provisions.

For areas above the tidal zone, the minimum drying time between coats shall be as shown in the product data sheets, but not less than 12 hours. For areas within the tidal zone, the minimum drying time between coats shall be as recommended by the paint system manufacturer. The Contractor shall determine whether the paint has cured sufficiently for proper application of succeeding coats.

The maximum time between intermediate and top coats shall be in accordance with the manufacturer's written recommendations. If the maximum time between coats is exceeded, all newly coated surfaces shall be prepared to SSPC-SP 3, *Power Tool Cleaning*, and shall be repainted with the same paint that was cleaned, at no additional cost to the Contracting Agency.

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Each coat shall be applied in a uniform layer, completely covering the preceding coat. The Contractor shall correct runs, sags, skips, or other deficiencies before application of succeeding coats. Such corrective work may require re-cleaning, application of additional paint, or other means as determined by the Engineer, at no additional cost to the Contracting Agency.

Surface preparation for underwater locations shall consist of removing all dirt, oil, grease, loose paint, loose rust, and marine growth from the area that is to be repaired. The sound paint surrounding the damaged area shall be roughened to meet the requirements of the manufacturer. Paint for underwater applications shall be as specified in the Special Provisions and shall be applied in accordance with the manufacturer's recommendations.

6-07.3(12)B Painting Existing Steel Ferry Terminal Structures

Painting of existing steel structures shall be in accordance with Section 6-07.3(10) as supplemented by the following.

6-07.3(12)B1 Containment

Containment for full removal shall be in accordance with Section 6-07.3(10)A. Containment for overcoat systems shall be in accordance with all applicable Permits as required in the Special Provisions.

Prior to cleaning the Contractor shall enclose all exposed electrical and mechanical equipment to seal out dust, water, and paint. Non-metallic surfaces shall not be abrasive blasted or painted. Unless otherwise specified, the following metallic surfaces shall not be painted and shall be protected from abrasive blasting and painting:

1. Galvanized and stainless steel surfaces not previously painted,
2. Non-skid surfaces,
3. Unpainted intentionally greased surfaces,
4. Equipment labels, identification plates, tags, etc.,
5. Fire and emergency containers or boxes,
6. Mechanical hardware such as hoist sheaves, hydraulic cylinders, gear boxes, wire rope, etc.

The Contractor shall submit a Type 2 Working Drawing consisting of materials and equipment used to shield components specified to not be cleaned and painted. The Contractor shall shut off the power prior to working around electrical equipment. The Contractor shall follow the lock-out/tag-out safety provisions of the WAC 296-803 and all other applicable safety standards.

6-07.3(12)B2 Surface Preparation

For applications above high water and within the tidal zone, surface preparation for overcoat painting shall be in accordance with SSPC-SP 1, *Solvent Cleaning*, followed by SSPC-SP 3, *Power Tool Cleaning*. Use of wire brushes is not allowed. After SP 3 cleaning has been completed all surfaces exhibiting coating failure down to the steel

1 substrate, and those exhibiting visible corrosion, shall be prepared down to clean
2 bare steel in accordance with SSPC-SP 15, Commercial Grade *Power Tool*
3 *Cleaning*. Surface preparation shall be measured according to SSPC-VIS 3. SSPC-
4 SP 15 shall be performed for a minimum distance of 1 inch from the area exhibiting
5 failure or visible corrosion. In addition, intact shop-applied coating surrounding the
6 repair area shall be abraded or sanded for a distance of 6 inches out from the
7 properly prepared clean/bare metal areas to provide adequate roughness for
8 application of repair coatings. All sanding dust and contamination shall be removed
9 prior to application of repair coatings. Surface preparation for full paint removal shall
10 be in accordance with Section 6-07.3(10)E except SSPC-SP 11 will be permitted as
11 detailed in the Contractor's painting plan and as allowed by the Engineer.

12
13 Surface preparation for underwater locations shall consist of removing all dirt, oil,
14 grease, loose paint, loose rust, and marine growth from the area that is to be
15 repaired. The sound paint surrounding the damaged area shall be roughened as
16 required by the coating manufacturer.

17
18 Removed marine growth may be released to state waters provided the marine growth
19 is not mixed with contaminants (paint, oil, rust, etc.) and it shall not accumulate on
20 the sea bed. All marine growth containing contaminants shall be collected for proper
21 disposal.

22
23 Surface preparation for the underside of bridge decks (consisting of either a steel
24 grid system of main bars or tees and a light gauge metal form, in-filled with concrete
25 or a corrugated light gauge metal form, infilled with concrete) shall be in accordance
26 with SSPC-SP 2, *Hand Tool Cleaning* or SSPC-SP 3, *Power Tool Cleaning* with the
27 intent of not causing further damage to the light gauge metal form. Following removal
28 of any pack rust and corroded sections from the underside of the bridge deck,
29 cleaning and flushing to remove salts and prior to applying the primer coat, the
30 Contractor shall seal the entire underside of the deck system with rust-penetrating
31 sealer. Damage to galvanized metal forms and/or grids shall be repaired in
32 accordance with ASTM A 780, with the preferred method of repair using paints
33 containing zinc dust.

34
35 **6-07.3(12)B3 Paint Systems**

36 Paints systems for Structural Steel, which includes vehicle transfer spans and
37 towers, pedestrian overhead loading structures and towers, upland structural steel
38 and other elements as designated in the Special Provisions shall be as specified in
39 Section 6-07.3(10)H.

40
41 Paint systems for Piling, Landing Aids, Life Ladders, underside of vehicle transfer
42 span bridge decks, non-skid surface treated areas, and anti-graffiti coatings shall be
43 as specified in the Special Provisions.

44
45 **6-07.3(12)B4 Paint Color**

46 Paint colors shall be as specified in the Special Provisions.

47
48 **6-07.3(12)B5 Coating Thickness**

49 Coating thicknesses shall be as specified in the Special Provisions.
50

1 **6-07.3(12)B6 Application of Field Coatings**

2 Application of field coatings shall be in accordance with Section 6-07.3(10)O and
3 Section 6-07.3(12)A2 except for the following:

- 4
- 5 1. All coatings applied in the field shall be applied using a brush or roller. Spray
6 application methods may be used if allowed by the Engineer.
 - 7
 - 8 2. Applied coatings shall not be immersed until the coating has been cured as
9 required by the coating manufacturer.
 - 10
 - 11 3. Non-skid surface treatment products shall be applied in accordance with
12 the manufacturer's recommendations.
 - 13
 - 14 4. Anti-graffiti coatings shall be applied in one coat following application of the
15 top coat, where specified in the Plans.
 - 16

17 **6-07.3(14)B Reference Standards**

18 The second standard reference (to SSPC CS 23.00), and its accompanying title, is revised to
19 read:

20

21 SSPC CS 23.00	21 Specification for the Application of Thermal Spray Coatings 22 (Metallizing) of Aluminum, Zinc, and Their Alloys and 23 Composites for the Corrosion Protection of Steel
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24

25 **Section 6-08, Bituminous Surfacing on Structure Decks**

26 **January 7, 2019**

27 **6-08.3(7)A Concrete Deck Preparation**

28 The first sentence of the first paragraph is revised to read:

29

30 The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish
31 the extent of bridge deck repair in accordance with Section 6-09.3(6).

32

33 **6-08.3(8)A Structure Deck Preparation**

34 The second sentence of the last paragraph is revised to read:

35

36 Prior to applying the primer or sheet membrane, all dust and loose material shall be
37 removed from the Structure Deck.

38

39 **Section 6-09, Modified Concrete Overlays**

40 **January 7, 2019**

41 **6-09.3 Construction Requirements**

42 This section is supplemented with the following new subsection:

43

44 **6-09.3(15) Sealing and Texturing Concrete Overlay**

45 After the requirements for checking for bond have been met, all joints and visible cracks
46 shall be filled and sealed with a high molecular weight methacrylate resin (HMWM).
47 Cracks 1/16 inch and greater in width shall receive two applications of HMWM.
48 Immediately following the application of HMWM, the wetted surface shall be coated with
49 sand for abrasive finish.

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After all cracks have been filled and sealed and the HMWM resin has cured, the concrete overlay surface shall receive a longitudinally sawn texture in accordance with Section 6-02.3(10)D5.

Traffic shall not be permitted on the finished concrete until it has reached a minimum compressive strength of 3,000 psi as verified by rebound number determined in accordance with ASTM C805 and the longitudinally sawn texture is completed.

6-09.3(1)B Rotary Milling Machines

This section is revised to read:

Rotary milling machines used to remove an upper layer of existing concrete overlay, when present, shall have a maximum operating weight of 50,000 pounds and conform to Section 6-08.3(5)B.

6-09.3(1)C Hydro-Demolition Machines

The first sentence of this section is revised to read:

Hydro-demolition machines shall consist of filtering and pumping units operating in conjunction with a remote-controlled robotic device, using high-velocity water jets to remove sound concrete to the nominal scarification depth shown in the Plans with a single pass of the machine, and with the simultaneous removal of deteriorated concrete.

6-09.3(1)D Shot Blasting Machines

This section, including title, is revised to read:

6-09.3(1)D Vacant

6-09.3(1)E Air Compressor

This section is revised to read:

Air compressors shall be equipped with oil traps to eliminate oil from being blown onto the bridge deck.

6-09.3(1)J Finishing Machine

This section is revised to read:

The finishing machine shall meet the requirements of Section 6-02.3(10) and the following requirements:

The finishing machine shall be equipped with augers, followed by an oscillating, vibrating screed, vibrating roller tamper, or a vibrating pan, followed by a rotating cylindrical double drum screed. The vibrating screed, roller tamper or pan shall be of sufficient length and width to properly consolidate the mixture. The vibrating frequency of the vibrating screed, roller tamper or pan shall be variable with positive control.

6-09.3(2) Submittals

Item number 1 and 2 are revised to read:

- 1 1. A Type 1 Working Drawing consisting of catalog cuts and operating parameters of
2 the hydro-demolition machine selected by the Contractor for use in this project to
3 scarify concrete surfaces.
4
5 2. A Type 1 Working Drawing consisting of catalog cuts, operating parameters, axle
6 loads, and axle spacing of the rotary milling machine (if used to remove an upper
7 layer of existing concrete overlay when present).
8

9 The first sentence of item number 3 is revised to read:

10
11 A Type 2 Working Drawing of the Runoff Water Disposal Plan.
12

13 **6-09.3(5)A General**

14 The first sentence of the fourth paragraph is revised to read:

15
16 All areas of the deck that are inaccessible to the selected scarifying machine shall be
17 scarified to remove the concrete surface matrix to a maximum nominal scarification depth
18 shown in the Plans by a method acceptable to the Engineer.
19

20 This section is supplemented with the following:

21
22 Concrete process water generated by scarifying concrete surface and removing existing
23 concrete overlay operations shall be contained, collected, and disposed of in accordance
24 with Section 5-01.3(11) and Section 6-09.3(5)C, and the Section 6-09.3(2) Runoff Water
25 Disposal Plan.
26

27 **6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines**

28 This section's title is revised to read:

29
30 **Testing of Hydro-Demolition Machines**
31

32 The second paragraph is revised to read:

33
34 In the "sound" area of concrete, the equipment shall be programmed to remove concrete
35 to the nominal scarification depth shown in the Plans with a single pass of the machine.
36

37 **6-09.3(5)D Shot Blasting**

38 This section, including title, is revised to read:

39
40 **6-09.3(5)D Vacant**
41

42 **6-09.3(5)E Rotomilling**

43 This section, including title, is revised to read:

44
45 **6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling**

46 When the Contractor elects to remove the upper layer of existing concrete overlay, when
47 present, by rotomilling prior to final scarifying, the entire concrete surface of the bridge
48 deck shall be milled to remove the surface matrix to the depth specified in the Plans with
49 a tolerance as specified in Section 6-08.3(5)B. The operating parameters of the rotary
50 milling machine shall be monitored in order to prevent the unnecessary removal of
51 concrete below the specified removal depth.
52

1 **6-09.3(6) Further Deck Preparation**

2 The first paragraph is revised to read::

3
4 Once the lane or strip being overlaid has been cleaned of debris from scarifying, the
5 Contractor, with the Engineer, shall perform a visual inspection of the scarified surface.
6 The Contractor shall mark those areas of the existing bridge deck that are authorized by
7 the Engineer for further deck preparation by the Contractor.

8
9 Item number 4 of the second paragraph is deleted.

10
11 The first sentence of the third paragraph is deleted.

12
13 **6-09.3(6)A Equipment for Further Deck Preparation**

14 This section is revised to read:

15
16 Further deck preparation shall be performed using either power driven hand tools
17 conforming to Section 6-09.3(1)A, or hydro-demolition machines conforming to Section
18 6-09.3(1)C.

19
20 **6-09.3(6)B Deck Repair Preparation**

21 The second paragraph is deleted.

22
23 The last sentence of the second paragraph (after the preceding Amendment is applied) is
24 revised to read:

25
26 In no case shall the depth of a sawn vertical cut exceed $\frac{3}{4}$ inch or to the top of the top
27 steel reinforcing bars, whichever is less.

28
29 The first sentence of the third to last paragraph is revised to read:

30
31 Where existing steel reinforcing bars inside deck repair areas show deterioration greater
32 than 20-percent section loss, the Contractor shall furnish and place steel reinforcing bars
33 alongside the deteriorated bars in accordance with the details shown in the Standard
34 Plans.

35
36 The last paragraph is deleted.

37
38 **6-09.3(7) Surface Preparation for Concrete Overlay**

39 The first seven paragraphs are deleted and replaced with the following:

40
41 Following the completion of any required further deck preparation the entire lane or strip
42 being overlaid shall be cleaned to be free from oil and grease, rust and other foreign
43 material that may still be present. These materials shall be removed by detergent-cleaning
44 or other method accepted by the Engineer followed by sandblasting.

45
46 After detergent cleaning and sandblasting is completed, the entire lane or strip being
47 overlaid shall be cleaned in final preparation for placing concrete.

48
49 Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or strip being
50 cleaned in final preparation for placing concrete shall be discontinued when final
51 preparation is begun. Scarifying and hand tool chipping shall remain suspended until the
52 concrete has been placed and the requirement for curing time has been satisfied.

1 Sandblasting and cleaning shall remain suspended for the first 24 hours of curing time
2 after the completion of concrete placing.

3

4 Scarification, and removal of the upper layer of concrete overlay when present, may
5 proceed during the final cleaning and overlay placement phases of the Work on adjacent
6 portions of the Structure so long as the scarification and concrete overlay removal
7 operations are confined to areas which are a minimum of 100 feet away from the defined
8 limits of the final cleaning or overlay placement in progress. If the scarification and
9 concrete overlay removal impedes or interferes in any way with the final cleaning or
10 overlay placement as determined by the Engineer, the scarification and concrete overlay
11 removal Work shall be terminated immediately and the scarification and concrete overlay
12 removal equipment removed sufficiently away from the area being prepared or overlaid
13 to eliminate the conflict. If the grade is such that water and contaminants from the
14 scarification and concrete overlay removal operation will flow into the area being prepared
15 or overlaid, the scarification and concrete overlay removal operation shall be terminated
16 and shall remain suspended for the first 24 hours of curing time after the completion of
17 concrete placement.

18

19 **6-09.3(11) Placing Concrete Overlay**

20 The first sentence of item number 3 in the fourth paragraph is revised to read:

21

22 Concrete shall not be placed when the temperature of the concrete surface is less than
23 45°F or greater than 75°F, and wind velocity at the construction site is in excess of 10
24 mph.

25

26 **6-09.3(12) Finishing Concrete Overlay**

27 The third paragraph is deleted.

28

29 The last paragraph is deleted.

30

31 **6-09.3(13) Curing Concrete Overlay**

32 The first sentence of the first paragraph is revised to read:

33

34 As the finishing operation progresses, the concrete shall be immediately covered with a
35 single layer of clean, new or used, wet burlap.

36

37 The last sentence of the second paragraph is deleted.

38

39 The following two new paragraphs are inserted after the second paragraph:

40

41 As an alternative to the application of burlap and fog spraying described above, the
42 Contractor may propose a curing system using proprietary curing blankets specifically
43 manufactured for bridge deck curing. The Contractor shall submit a Type 2 Working
44 Drawing consisting of details of the proprietary curing blanket system, including product
45 literature and details of how the system is to be installed and maintained.

46

47 The wet curing regimen as described shall remain in place for a minimum of 42-hours.

48

49 The last paragraph is deleted.

50

51 **6-09.3(14) Checking for Bond**

52 The first sentence of the first paragraph is revised to read:

1
2 After the requirements for curing have been met, the entire overlaid surface shall be
3 sounded by the Contractor, in a manner accepted by and in the presence of the Engineer,
4 to ensure total bond of the concrete to the bridge deck.
5

6 The last sentence of the first paragraph is deleted.
7

8 The second paragraph is deleted.
9

10 **Section 6-10, Concrete Barrier**
11 **August 6, 2018**

12 **6-10.2 Materials**

13 In the first paragraph, the reference to "Portland Cement" is revised to read:
14

15 Cement 9-01
16

17 **6-10.3(6) Placing Concrete Barrier**

18 The first two sentences of the first paragraph are revised to read:
19

20 Precast concrete barriers Type 2, Type 4, Type F, precast single slope barrier, and
21 transitions shall rest on a paved foundation shaped to a uniform grade and section. The
22 foundation surface for precast concrete barriers Type 2, Type 4, Type F, precast single
23 slope barrier, and transitions shall meet this test for uniformity: When a 10-foot
24 straightedge is placed on the surface parallel to the centerline for the barrier, the surface
25 shall not vary more than ¼ inch from the lower edge of the straightedge.
26

27 **Section 6-11, Reinforced Concrete Walls**
28 **April 2, 2018**

29 **6-11.2 Materials**

30 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
31 to read:
32

33 Aggregates for Concrete 9-03.1
34

35 **Section 6-12, Noise Barrier Walls**
36 **August 6, 2018**

37 **6-12.2 Materials**

38 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
39 to read:
40

41 Aggregates for Concrete 9-03.1
42

43 The first paragraph is supplemented with the following new material reference:
44

45 Noise Barrier Wall Access Door 9-06.17
46

47 **6-12.3(9) Access Doors and Concrete Landing Pads**

48 The second paragraph is deleted and replaced with the following:

1
2 All frame and door surfaces, except stainless steel surfaces, shall be painted in
3 accordance with Section 6-07.3(9). Primer shall be applied to all non-stainless steel
4 surfaces. All primer coated exposed metal surfaces shall be field painted with the
5 remaining Section 6-07.3(9)A paint system coats. The top coat, when dry, shall match the
6 color specified in the Plans or Special Provisions.
7

8 This section is supplemented with the following:
9

10 Access door deadbolt locks shall be capable of accepting a Best CX series core. The
11 Contractor shall furnish and install a spring-loaded construction core lock with each lock.
12 The Engineer will furnish the permanent Best CX series core for the Contractor to install
13 at the conclusion of the project.
14

15 **Section 6-13, Structural Earth Walls**
16 **August 6, 2018**

17 **6-13.2 Materials**

18 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
19 to read:
20

21 Aggregates for Concrete 9-03.1
22

23 **6-13.3(4) Precast Concrete Facing Panel and Concrete Block Fabrication**

24 Item number 1 of the sixth paragraph is revised to read:
25

- 26 1. Vertical dimensions shall be $\pm 1/16$ inch of the Plan dimension, and the rear height
27 shall not exceed the front height.
28

29 Item number 3 of the sixth paragraph is revised to read:
30

- 31 3. All other dimensions shall be $\pm 1/4$ inch of the Plan dimension.
32

33 **Section 6-14, Geosynthetic Retaining Walls**
34 **April 2, 2018**

35 **6-14.2 Materials**

36 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
37 Cement Concrete" are revised to read:
38

39 Cement 9-01
40 Aggregates for Concrete 9-03.1
41

42 **Section 6-15, Soil Nail Walls**
43 **January 7, 2019**

44 **6-15.3(7) Shotcrete Facing**

45 The last paragraph is supplemented with the following:
46

47 After final tightening of the nut, the threads of the soil nail shall at a minimum be flush with
48 the end of the nut.

1
2 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**
3 **April 2, 2018**

4 **6-16.2 Materials**

5 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
6 to read:

7
8 Aggregates for Concrete 9-03.1
9

10 **Section 6-18, Shotcrete Facing**
11 **January 2, 2018**

12 **6-18.3(3) Testing**

13 In the last sentence of the first paragraph, “AASHTO T 24” is revised to read “ASTM C1604”.

14
15 **6-18.3(3)B Production Testing**

16 In the last sentence, “AASHTO T 24” is revised to read “ASTM C1604”.

17
18 **6-18.3(4) Qualifications of Contractor’s Personnel**

19 In the last sentence of the second paragraph, “AASHTO T 24” is revised to read “ASTM
20 C1604”.

21
22 **Section 6-19, Shafts**
23 **January 7, 2019**

24 **6-19.2 Materials**

25 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
26 Cement Concrete” are revised to read:

27
28 Cement 9-01
29 Aggregates for Concrete 9-03.1
30

31 **6-19.3(1)A Shaft Construction Tolerances**

32 The last paragraph is supplemented with the following:

33
34 The elevation of the top of the reinforcing cage for drilled shafts shall be within +6 inches
35 and -3 inches from the elevation shown in the Plans.
36

37 **6-19.3(2)D Nondestructive QA Testing Organization and Personnel**

38 Item number 4 in the first paragraph is revised to read:

39
40 4. Personnel preparing test reports shall be a Professional Engineer, licensed under
41 Title 18 RCW, State of Washington, and shall seal the report in accordance with WAC
42 196-23-020.
43

44 **6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft**
45 **Excavation Operations**

46 The first paragraph is supplemented with the following:

47

1 In no case shall shaft excavation and casing placement extend below the bottom of shaft
2 excavation as shown in the Plans.

3
4 **6-19.3(6)E Thermal Wire and Thermal Access Point (TAPS)**

5 The third sentence of the third paragraph is revised to read:

6
7 The thermal wire shall extend from the bottom of the reinforcement cage to the top of the
8 shaft, with a minimum of 5-feet of slack wire provided above the top of shaft.

9
10 The following new sentence is inserted after the third sentence of the third paragraph:

11
12 All thermal wires in a shaft shall be equal lengths.

13
14 **6-19.3(9)D Nondestructive QA Testing Results Submittal**

15 The last sentence of the first paragraph is revised to read:

16
17 Results shall be a Type 2E Working Drawing presented in a written report.

18
19 **Section 7-02, Culverts**

20 **April 2, 2018**

21 **7-02.2 Materials**

22 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
23 Cement Concrete" are revised to read:

24
25 Cement 9-01
26 Aggregates for Concrete 9-03.1

27
28 **7-02.3(6)A4 Excavation and Bedding Preparation**

29 The first sentence of the third paragraph is revised to read:

30
31 The bedding course shall be a 6-inch minimum thickness layer of culvert bedding material,
32 defined as granular material either conforming to Section 9-03.12(3) or to AASHTO
33 Grading No. 57 as specified in Section 9-03.1(4)C.

34
35 **Section 7-05, Manholes, Inlets, Catch Basins, and Drywells**

36 **August 6, 2018**

37 **7-05.3 Construction Requirements**

38 The fourth sentence of the third paragraph is deleted.

39
40 **Section 7-08, General Pipe Installation Requirements**

41 **April 2, 2018**

42 **7-08.3(3) Backfilling**

43 The fifth sentence of the fourth paragraph is revised to read:

44
45 All compaction shall be in accordance with the Compaction Control Test of Section 2-
46 03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.

47
48 The following new sentences are inserted after the fifth sentence of the fourth paragraph:

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When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written request to use a test point evaluation for compaction acceptance. Test Point evaluation shall be performed in accordance with SOP 738.

Section 8-01, Erosion Control and Water Pollution Control
April 2, 2018

8-01.1 Description

This section is revised to read:

This Work consists of furnishing, installing, maintaining, removing and disposing of best management practices (BMPs), as defined in the Washington Administrative Code (WAC) 173-201A, to manage erosion and water quality in accordance with these Specifications and as shown in the Plans or as designated by the Engineer.

The Contracting Agency may have a National Pollution Discharge Elimination System Construction Stormwater General Permit (CSWGP) as identified in the Contract Special Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP to the Contractor when a CSWGP has been obtained. The Contracting Agency may not have a CSWGP for the project but may have another water quality related permit as identified in the Contract Special Provisions or the Contracting Agency may not have water quality related permits but the project is subject to applicable laws for the Work. Section 8-01 covers all of these conditions.

8-01.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Corrugated Polyethylene Drain Pipe	9-05.1(6)
Quarry Spalls	9-13
Erosion Control and Roadside Planting	9-14
Construction Geotextile	9-33

8-01.3(1) General

This section is revised to read:

Adaptive management shall be employed throughout the duration of the project for the implementation of erosion and water pollution control permit requirements for the current condition of the project site. The adaptive management includes the selection and utilization of BMPs, scheduling of activities, prohibiting unacceptable practices, implementing maintenance procedures, and other managerial practices that when used singularly or in combination, prevent or reduce the release of pollutants to waters of the State. The adaptive management shall use the means and methods identified in this section and means and methods identified in the Washington State Department of Transportation's Temporary Erosion and Sediment Control Manual or the Washington State Department of Ecology's Stormwater Management Manuals for construction stormwater.

The Contractor shall install a high visibility fence along the site preservation lines shown in the Plans or as instructed by the Engineer.

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Throughout the life of the project, the Contractor shall preserve and protect the delineated preservation area, acting immediately to repair or restore any fencing damaged or removed.

All discharges to surface waters shall comply with surface water quality standards as defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to the ground shall comply with groundwater quality standards WAC Chapter 173-200.

The Contractor shall comply with the CSWGP when the project is covered by the CSWGP. Temporary Work, at a minimum, shall include the implementation of:

1. Sediment control measures prior to ground disturbing activities to ensure all discharges from construction areas receive treatment prior to discharging from the site.
2. Flow control measures to prevent erosive flows from developing.
3. Water management strategies and pollution prevention measures to prevent contamination of waters that will be discharged to surface waters or the ground.
4. Erosion control measures to stabilize erodible earth not being worked.
5. Maintenance of BMPs to ensure continued compliant performance.
6. Immediate corrective action if evidence suggests construction activity is not in compliance. Evidence includes sampling data, olfactory or visual evidence such as the presence of suspended sediment, turbidity, discoloration, or oil sheen in discharges.

To the degree possible, the Contractor shall coordinate this temporary Work with permanent drainage and erosion control Work the Contract requires.

Clearing, grubbing, excavation, borrow, or fill within the Right of Way shall never expose more erodible earth than as listed below:

Western Washington (West of the Cascade Mountain Crest)		Eastern Washington (East of the Cascade Mountain Crest)	
May 1 through September 30	17 Acres	April 1 through October 31	17 Acres
October 1 through April 30	5 Acres	November 1 through March 31	5 Acres

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The Engineer may increase or decrease the limits based on project conditions.

Erodible earth is defined as any surface where soils, grindings, or other materials may be capable of being displaced and transported by rain, wind, or surface water runoff.

Erodible earth not being worked, whether at final grade or not, shall be covered within the specified time period (see the table below), using BMPs for erosion control.

1

Western Washington (West of the Cascade Mountain Crest)	
October 1 through April 30	2 days maximum
May 1 to September 30	7 days maximum

Eastern Washington (East of the Cascade Mountain Crest)	
October 1 through June 30	5 days maximum
November 1 through March 31	10 days maximum

2

3

When applicable, the Contractor shall be responsible for all Work required for compliance with the CSWGP including annual permit fees.

4

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6

If the Engineer, under Section 1-08.6, orders the Work suspended, the Contractor shall continue to comply with this division during the suspension.

7

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Nothing in this Section shall relieve the Contractor from complying with other Contract requirements.

10

11

8-01.3(1)A Submittals

This section's content is deleted.

12

13

14

This section is supplemented with the following new subsection:

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16

8-01.3(1)A1 Temporary Erosion and Sediment Control

A Temporary Erosion and Sediment Control (TESC) plan consists of a narrative section and plan sheets that meets the Washington State Department of Ecology's Stormwater Pollution Prevention Plan (SWPPP) requirement in the CSWGP. Abbreviated TESC plans are not required to include plan sheets and are used on small projects that disturb soil and have the potential to discharge but are not covered by the CSWGP. The contract uses the term "TESC plan" to describe both TESC plans and abbreviated TESC plans. When the Contracting Agency has developed a TESC plan for a Contract, the narrative is included in the appendix to the Special Provisions and the TESC plan sheets, when required, are included in the Contract Plans. The Contracting Agency TESC plan will not include off-site areas used to directly support construction activity.

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The Contractor shall either adopt the TESC Plan in the Contract or develop a new TESC Plan. If the Contractor adopts the Contracting Agency TESC Plan, the Contractor shall modify the TESC Plan to meet the Contractor's schedule, method of construction, and to include off-site areas that will be used to directly support construction activity such as equipment staging yards, material storage areas, or borrow areas. Contractor TESC Plans shall include all high visibility fence delineation shown on the Contracting Agency Contract Plans. All TESC Plans shall meet the requirements of the current edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109 and be adaptively managed as needed throughout construction based on site inspections and discharge samples to maintain compliance with the CSWGP. The Contractor shall develop a schedule for implementation of the TESC work and incorporate it into the Contractor's progress schedule.

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1 The Contractor shall submit their TESC Plan (either the adopted plan or new plan) and
2 implementation schedule as Type 2 Working Drawings. At the request of the Engineer,
3 updated TESC Plans shall be submitted as Type 1 Working Drawings.
4

5 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**

6 This section is revised to read:
7

8 The Contractor shall identify the ESC Lead at the preconstruction discussions and in the
9 TESC Plan. The ESC Lead shall have, for the life of the Contract, a current Certificate of
10 Training in Construction Site Erosion and Sediment Control from a course approved by
11 the Washington State Department of Ecology. The ESC Lead must be onsite or on call at
12 all times throughout construction. The ESC Lead shall be listed on the Emergency
13 Contact List required under Section 1-05.13(1).
14

15 The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not
16 limited to:
17

- 18 1. Installing, adaptively managing, and maintaining temporary erosion and
19 sediment control BMPs to assure continued performance of their intended
20 function. Damaged or inadequate BMPs shall be corrected immediately.
21
- 22 2. Updating the TESC Plan to reflect current field conditions.
23
- 24 3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to
25 the Washington State Department of Ecology in accordance with the CSWGP.
26
- 27 4. Develop and maintain the Site Log Book as defined in the CSWGP. When the
28 Site Log Book or portion thereof is electronically developed, the electronic
29 documentation must be accessible onsite. As a part of the Site Log Book, the
30 Contractor shall develop and maintain a tracking table to show that identified
31 TESC compliance issues are fully resolved within 10 calendar days. The table
32 shall include the date an issue was identified, a description of how it was
33 resolved, and the date the issue was fully resolved.
34

35 The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site
36 erosion and sediment control BMPs, and all stormwater discharge points at least once
37 every calendar week and within 24-hours of runoff events in which stormwater discharges
38 from the site. Inspections of temporarily stabilized, inactive sites may be reduced to once
39 every calendar month. The Washington State Department of Ecology's Erosion and
40 Sediment Control Site Inspection Form, located at <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit>, shall be completed for each inspection and a copy shall be submitted to the
41 Engineer no later than the end of the next working day following the inspection.
42
43
44

45 **8-01.3(1)C Water Management**

46 This section is supplemented with the following new subsections:
47

48 **8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High 49 Water Mark (OHWM)**

50 Work over surface waters of the state (defined in WAC 173-201A-010) or below the
51 OHWM (defined in RCW 90.58.030) must comply with water quality standards for surface
52 waters of the state of Washington.

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8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid

All equipment containing hydraulic fluid that extends from a bridge deck over surface waters of the state or below the OHWM, shall be equipped with an environmentally acceptable hydraulic fluid. The fluid shall meet specific requirements for biodegradability, aquatic toxicity, and bioaccumulation in accordance with the United States Environmental Protection Agency (EPA) publication EPA800-R-11-002. Acceptance shall be in accordance with Section 1-06.3, Manufacturer’s Certification of Compliance.

The designation of environmentally acceptable hydraulic fluid does not mean fluid spills are acceptable. The Contractor shall respond to spills to land or water in accordance with the Contract.

8-01.3(1)C7 Turbidity Curtain

All Work for the turbidity curtain shall be in accordance with the manufacturer’s recommendations for the site conditions. Removal procedures shall be developed and used to minimize silt release and disturbance of silt. The Contractor shall submit a Type 2 Working Drawing, detailing product information, installation and removal procedures, equipment and workforce needs, maintenance plans, and emergency repair/replacement plans.

Turbidity curtain materials, installation, and maintenance shall be sufficient to comply with water quality standards.

The Contractor shall notify the Engineer 10 days in advance of removing the turbidity curtain. All components of the turbidity curtain shall be removed from the project.

8-01.3(1)C1 Disposal of Dewatering Water

This section is revised to read:

When uncontaminated groundwater is encountered in an excavation on a project it may be infiltrated within vegetated areas of the right of way not designated as Sensitive Areas or incorporated into an existing stormwater conveyance system at a rate that will not cause erosion or flooding in any receiving surface water.

Alternatively, the Contractor may pursue independent disposal and treatment alternatives that do not use the stormwater conveyance system provided it is in compliance with the applicable WACs and permits.

8-01.3(1)C2 Process Wastewater

This section is revised to read:

Wastewater generated on-site as a byproduct of a construction process shall not be discharged to surface waters of the State. Some sources of process wastewater may be infiltrated in accordance with the CSWGP with concurrence from the Engineer. Some sources of process wastewater may be disposed via independent disposal and treatment alternatives in compliance with the applicable WACs and permits.

8-01.3(1)C3 Shaft Drilling Slurry Wastewater

This section is revised to read:

1 Wastewater generated on-site during shaft drilling activity shall be managed and disposed
2 of in accordance with the requirements below. No shaft drilling slurry wastewater shall be
3 discharged to surface waters of the State. Neither the sediment nor liquid portions of the
4 shaft drilling slurry wastewater shall be contaminated, as detectable by visible or olfactory
5 indication (e.g., chemical sheen or smell).
6

- 7 1. Water-only shaft drilling slurry or water slurry with accepted flocculants may be
8 infiltrated on-site. Flocculants used shall meet the requirements of Section 9-
9 14.5(1) or shall be chitosan products listed as General Use Level Designation
10 (GULD) on the Washington State Department of Ecology's stormwater treatment
11 technologies webpage for construction treatment. Infiltration is permitted if the
12 following requirements are met:
13
 - 14 a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.
 - 15
 - 16 b. The amount of flocculant added to the slurry shall be kept to the minimum
17 needed to adequately settle out solids. The flocculant shall be thoroughly
18 mixed into the slurry.
 - 19
 - 20 c. The slurry removed from the shaft shall be contained in a leak proof cell or
21 tank for a minimum of 3 hours.
 - 22
 - 23 d. The infiltration rate shall be reduced if needed to prevent wastewater from
24 leaving the infiltration location. The infiltration site shall be monitored
25 regularly during infiltration activity. All wastewater discharged to the ground
26 shall fully infiltrate and discharges shall stop before the end of each work
27 day.
 - 28
 - 29 e. Drilling spoils and settled sediments remaining in the containment cell or
30 tank shall be disposed of in accordance with Section 6-19.3(4)F.
 - 31
 - 32 f. Infiltration locations shall be in upland areas at least 150 feet away from
33 surface waters, wells, on-site sewage systems, aquifer sensitive recharge
34 areas, sole source aquifers, well head protection areas, and shall be
35 marked on the plan sheets before the infiltration activity begins.
 - 36
 - 37 g. Prior to infiltration, the Contractor shall submit a Shaft Drilling Slurry
38 Wastewater Management and Infiltration Plan as a Type 2 Working
39 Drawing. This Plan shall be kept on-site, adapted if needed to meet the
40 construction requirements, and updated to reflect what is being done in the
41 field. The Working Drawing shall include, at a minimum, the following
42 information:
43
 - 44 i. Plan sheet showing the proposed infiltration location and all surface
45 waters, wells, on-site sewage systems, aquifer-sensitive recharge
46 areas, sole source aquifers, and well-head protection areas within 150
47 feet.
 - 48
 - 49 ii. The proposed elevation of soil surface receiving the wastewater for
50 infiltration and the anticipated phreatic surface (i.e., saturated soil).
 - 51
 - 52 iii. The source of the water used to produce the slurry.

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- iv. The estimated total volume of wastewater to be infiltrated.
- v. The accepted flocculant to be used (if any).
- vi. The controls or methods used to prevent surface wastewater runoff from leaving the infiltration location.
- vii. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.
- viii. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.
- ix. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.
- x. The strategy for cleaning up the infiltration location after the infiltration activity is done. Cleanup shall include stabilizing any loose sediment on the surface within the infiltration area generated as a byproduct of suspended solids in the infiltrated wastewater or soil disturbance associated with BMP placement and removal.

2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not allowed for infiltration shall be contained and disposed of by the Contractor at an accepted disposal facility in accordance with Section 2-03.3(7)C. Spoils that have come into contact with mineral slurry shall be disposed of in accordance with Section 6-19.3(4)F.

8-01.3(1)C4 Management of Off-Site Water

This section is revised to read:

Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site surface water and overland flow that will run-on to the project. Off-site surface water run-on shall be diverted through or around the project in a way that does not introduce construction related pollution. It shall be diverted to its preconstruction discharge location in a manner that does not increase preconstruction flow rate and velocity and protects contiguous properties and waterways from erosion. The Contractor shall submit a Type 2 Working Drawing consisting of the method for performing this Work.

8-01.3(1)E Detention/Retention Pond Construction

This section is revised to read:

Whether permanent or temporary, ponds shall be constructed before beginning other grading and excavation Work in the area that drains into that pond. Detention/retention ponds may be constructed concurrently with grading and excavation when allowed by the Engineer. Temporary conveyances shall be installed concurrently with grading in accordance with the TESC Plan so that newly graded areas drain to the pond as they are exposed.

1 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

2 In the table, the second column heading is revised to read:

3

4 **Eastern Washington¹**
5 **(East of the Cascade Mountain Crest)**

6

7 Footnote 1 in the table is revised to read:

8

9 Seeding may be allowed outside these dates when allowed or directed by the Engineer.

10

11 **8-01.3(5) Plastic Covering**

12 The first sentence of the first paragraph is revised to read:

13

14 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled materials,
15 slopes or bare soils shall be installed and maintained in a way that prevents water from
16 intruding under the plastic and prevents the plastic cover from being damaged by wind.

17

18 **8-01.3(7) Stabilized Construction Entrance**

19 The first paragraph is revised to read:

20

21 Temporary stabilized construction entrance shall be constructed in accordance with the
22 *Standard Plans*, prior to construction vehicles entering the roadway from locations that
23 generate sediment track out on the roadway. Material used for stabilized construction
24 entrance shall be free of extraneous materials that may cause or contribute to track out.

25

26 **8-01.3(8) Street Cleaning**

27 This section is revised to read:

28

29 Self-propelled pickup street sweepers shall be used to remove and collect dirt and other
30 debris from the Roadway. The street sweeper shall effectively collect these materials and
31 prevent them from being washed or blown off the Roadway or into waters of the State.
32 Street sweepers shall not generate fugitive dust and shall be designed and operated in
33 compliance with applicable air quality standards. Material collected by the street sweeper
34 shall be disposed of in accordance with Section 2-03.3(7)C.

35

36 When allowed by the Engineer, power broom sweepers may be used in non-
37 environmentally sensitive areas. The broom sweeper shall sweep dirt and other debris
38 from the roadway into the work area. The swept material shall be prevented from entering
39 or washing into waters of the State.

40

41 Street washing with water will require the concurrence of the Engineer.

42

43 **8-01.3(12) Compost Socks**

44 The first two sentences of the first paragraph are revised to read:

45

46 Compost socks are used to disperse flow and sediment. Compost socks shall be installed
47 as soon as construction will allow but before flow conditions create erosive flows or
48 discharges from the site. Compost socks shall be installed prior to any mulching or
49 compost placement.

50

51 **8-01.3(13) Temporary Curb**

52 The second to last sentence of the second paragraph is revised to read:

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Temporary curbs shall be a minimum of 4 inches in height.

8-01.3(14) Temporary Pipe Slope Drain

The third and fourth paragraphs are revised to read:

The pipe fittings shall be water tight and the pipe secured to the slope with metal posts, wood stakes, sand bags, or as allowed by the Engineer.

The water shall be discharged to a stabilized conveyance, sediment trap, stormwater pond, rock splash pad, or vegetated strip, in a manner to prevent erosion and maintain water quality compliance.

The last paragraph is deleted.

8-01.3(15) Maintenance

This section is revised to read:

Erosion and sediment control BMPs shall be maintained or adaptively managed as required by the CSWGP until the Engineer determines they are no longer needed. When deficiencies in functional performance are identified, the deficiencies shall be rectified immediately.

The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B for damage and sediment deposits. Damage to or undercutting of BMPs shall be repaired immediately.

In areas where the Contractor's activities have compromised the erosion control functions of the existing grasses, the Contractor shall overseed at no additional cost to the Contracting Agency.

The quarry spalls of construction entrances shall be refreshed, replaced, or screened to maintain voids between the spalls for collecting mud and dirt.

Unless otherwise specified, when the depth of accumulated sediment and debris reaches approximately 1/3 the height of the BMP the deposits shall be removed. Debris or contaminated sediment shall be disposed of in accordance with Section 2-03.3(7)C. Clean sediments may be stabilized on-site using BMPs as allowed by the Engineer.

8-01.3(16) Removal

This section is revised to read:

The Contractor shall remove all temporary BMPs, all associated hardware and associated accumulated sediment deposition from the project limits prior to Physical Completion unless otherwise allowed by the Engineer. When the temporary BMP materials are made of natural plant fibers unaltered by synthetic materials the Engineer may allow leaving the BMP in place.

The Contractor shall remove BMPs and associated hardware in a way that minimizes soil disturbance. The Contractor shall permanently stabilize all bare and disturbed soil after removal of BMPs. If the installation and use of the erosion control BMPs have compacted or otherwise rendered the soil inhospitable to plant growth, such as construction

1 entrances, the Contractor shall take measures to rehabilitate the soil to facilitate plant
2 growth. This may include, but is not limited to, ripping the soil, incorporating soil
3 amendments, or seeding with the specified seed.
4

5 At the request of the Contractor and at the sole discretion of the Engineer the CSWGP
6 may be transferred back to the Contracting Agency. Approval of the Transfer of Coverage
7 request will require the following:
8

- 9 1. All other Work required for Contract Completion has been completed.
- 10 2. All Work required for compliance with the CSWGP has been completed to the
11 maximum extent possible. This includes removal of BMPs that are no longer
12 needed and the site has undergone all Stabilization identified for meeting the
13 requirements of Final Stabilization in the CSWGP.
14
- 15 3. An Equitable Adjustment change order for the cost of Work that has not been
16 completed by the Contractor.
17
- 18 4. Submittal of the Washington State Department of Ecology Transfer of Coverage
19 form (Ecology form ECY 020-87a) to the Engineer.
20
21

22 If the Engineer approves the transfer of coverage back to the Contracting Agency, the
23 requirement in Section 1-07.5(3) for the Contractor's submittal of the Notice of
24 Termination form to the Washington State Department of Ecology will not apply.
25

26 **8-01.4 Measurement**

27 This section's content is deleted and replaced with the following new subsections:
28

29 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

30 When the Bid Proposal contains the item "Erosion Control and Water Pollution
31 Prevention" there will be no measurement of unit or force account items for Work defined
32 in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also, except as
33 described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are deleted.
34

35 **8-01.4(2) Item Bids**

36 When the Proposal does not contain the items "Erosion Control and Water Pollution
37 Prevention", Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will contain
38 some or all of the following items measured as noted.
39

40 ESC lead will be measured per day for each day that an inspection is made and a
41 report is filed.
42

43 Biodegradable erosion control blanket and plastic covering will be measured by the
44 square yard along the ground slope line of surface area covered and accepted.
45

46 Turbidity curtains will be measured by the linear foot along the ground line of the
47 installed curtain.
48

49 Check dams will be measured per linear foot one time only along the ground line of
50 the completed check dam. No additional measurement will be made for check dams
51 that are required to be rehabilitated or replaced due to wear.
52

1 Stabilized construction entrances will be measured by the square yard by ground
2 slope measurement for each entrance constructed.
3
4 Tire wash facilities will be measured per each for each tire wash installed.
5
6 Street cleaning will be measured by the hour for the actual time spent cleaning
7 pavement, refilling with water, dumping and transport to and from cleaning locations
8 within the project limits, as authorized by the Engineer. Time to mobilize the
9 equipment to or from the project limits on which street cleaning is required will not be
10 measured.
11
12 Inlet protections will be measured per each for each initial installation at a
13 drainage structure.
14
15 Silt fence, gravel filter, compost berms, and wood chip berms will be measured by
16 the linear foot along the ground line of the completed barrier.
17
18 Wattles and compost socks will be measured by the linear foot.
19
20 Temporary curbs will be measured by the linear foot along the ground line of the
21 completed installation.
22
23 Temporary pipe slope drains will be measured by the linear foot along the flow line
24 of the pipe.
25
26 Coir logs will be measured by the linear foot along the ground line of the completed
27 installation.
28
29 Outlet protections will be measured per each initial installation at an outlet location.
30
31 Tackifiers will be measure by the acre by ground slope measurement.
32
33 **8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and**
34 **Water Pollution Prevention**
35 The Contract Provisions may establish the project as lump sum, in accordance with
36 Section 8-01.4(1) and also include one or more of the items included above in Section 8-
37 01.4(2). When that occurs, the corresponding measurement provision in Section 8-
38 01.4(2) is not deleted and the Work under that item will be measured as specified.
39
40 **8-01.4(4) Items not included with Lump Sum Erosion Control and Water**
41 **Pollution Prevention**
42 Compost blanket will be measured by the square yard by ground slope surface area
43 covered and accepted.
44
45 Mulching will be measured by the acre by ground slope surface area covered and
46 accepted.
47
48 Seeding, fertilizing, liming, mulching, and mowing, will be measured by the acre by ground
49 slope measurement.
50

1 Seeding and fertilizing by hand will be measured by the square yard by ground slope
2 measurement. No adjustment in area size will be made for the vegetation free zone
3 around each plant.
4

5 Fencing will be measured by the linear foot along the ground line of the completed fence.
6

7 **8-01.5 Payment**

8 This section's content is deleted and replaced with the following new subsections:
9

10 **8-01.5(1) Lump Sum Bid for Project (No Unit Items)**

11 Payment will be made for the following Bid item when it is included in the Proposal:

12 "Erosion Control and Water Pollution Prevention", lump sum.
13

14
15 The lump sum Contract price for "Erosion Control and Water Pollution Prevention"
16 shall be full pay to perform the Work as described in Section 8-01 except for costs
17 compensated by Bid Proposal items inserted through Contract Provisions as
18 described in Section 8-01.4(2). Progress payments for the lump sum item "Erosion
19 Control and Water Pollution Prevention" will be made as follows:
20

- 21 1. The Contracting Agency will pay 15 percent of the bid amount for the initial
22 set up for the item. Initial set up includes the following:
 - 23 a. Acceptance of the TESC Plan provided by the Contracting Agency or
24 submittal of a new TESC Plan,
 - 25 b. Submittal of a schedule for the installation of the BMPs, and
 - 26 c. Identifying water quality sampling locations.
- 27 2. 70 percent of the bid amount will be paid in accordance with Section 1-09.9.
28
- 29 3. Once the project is physically complete and copies of the all reports
30 submitted to the Washington State Department of Ecology have been
31 submitted to the Engineer, and, if applicable, transference of the CSWGP
32 back to the Contracting Agency is complete, the remaining 15 percent of
33 the bid amount shall be paid in accordance with Section 1-09.9.
34
35
36
37
38

39 **8-01.5(2) Item Bids**

- 40 "ESC Lead", per day.
- 41
- 42 "Turbidity Curtain", per linear foot.
- 43
- 44 "Biodegradable Erosion Control Blanket", per square yard.
- 45
- 46 "Plastic Covering", per square yard.
- 47
- 48 "Check Dam", per linear foot.
- 49
- 50 "Inlet Protection", per each.
- 51
- 52 "Gravel Filter Berm", per linear foot.

- 1
- 2 "Stabilized Construction Entrance", per square yard.
- 3
- 4 "Street Cleaning", per hour.
- 5
- 6 "Silt Fence", per linear foot.
- 7
- 8 "Wood Chip Berm", per linear foot.
- 9
- 10 "Compost Berm", per linear foot.
- 11
- 12 "Wattle", per linear foot.
- 13
- 14 "Compost Sock", per linear foot.
- 15
- 16 "Coir Log", per linear foot.
- 17
- 18 "Temporary Curb", per linear foot.
- 19
- 20 "Temporary Pipe Slope Drain", per linear foot.
- 21
- 22 "Temporary Seeding", per acre.
- 23
- 24 "Outlet Protection", per each.
- 25
- 26 "Tackifier", per acre.
- 27
- 28 "Erosion/Water Pollution Control", by force account as provided in Section 1-09.6.

29
30 Maintenance and removal of erosion and water pollution control devices including
31 removal and disposal of sediment, stabilization and rehabilitation of soil disturbed
32 by these activities, and any additional Work deemed necessary by the Engineer to
33 control erosion and water pollution will be paid by force account in accordance with
34 Section 1-09.6.

35
36 To provide a common Proposal for all Bidders, the Contracting Agency has entered an
37 amount in the Proposal to become a part of the Contractor's total Bid.

38
39 **8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and**
40 **Water Pollution Prevention**

41 The Contract may establish the project as lump sum, in accordance with Section 8-01.4(1)
42 and also reinstate the measurement of one or more of the items described in Section 8-
43 01.4(2), except for Erosion/Water Pollution Control, by force account. When that occurs,
44 the corresponding payment provision in Section 8-01.5(2) is not deleted and the Work
45 under that item will be paid as specified.

46
47 **8-01.5(4) Items not included with Lump Sum Erosion Control and Water**
48 **Pollution Prevention**

49 Payment will be made for each of the following Bid items when they are included in the
50 Proposal:

- 51
- 52 "Compost Blanket", per square yard.

- 1
- 2 "Mulching", per acre
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- 4 "Mulching with PAM", per acre
- 5
- 6 "Mulching with Short-Term Mulch", per acre.
- 7
- 8 "Mulching with Moderate-Term Mulch", per acre.
- 9
- 10 "Mulching with Long-Term Mulch", per acre.
- 11
- 12 "Seeding, Fertilizing and Mulching", per acre.
- 13
- 14 "Seeding and Fertilizing", per acre.
- 15
- 16 "Seeding and Fertilizing by Hand", per square yard.
- 17
- 18 "Second Application of Fertilizer", per acre.
- 19
- 20 "Liming", per acre.
- 21
- 22 "Mowing", per acre.
- 23
- 24 "Seeding and Mulching", per acre.
- 25
- 26 "High Visibility Fence", per linear foot.
- 27

28 **Section 8-02, Roadside Restoration**
29 **January 2, 2018**

30 **8-02.2 Materials**

31 The reference to the material "Soil" is revised to read "Topsoil".

32

33 **8-02.5 Payment**

34 The following new paragraph is inserted following the Bid item "Plant Selection ____", per each:

35

36 The unit Contract price for "Plant Selection ____", per each shall be full pay for all Work to
37 perform the work as specified within the planting area prior to planting for weed control,
38 planting area preparation and installation of plants with initial watering.

39

40 The paragraph following the Bid item "PSIPE ____", per each is revised to read:

41

42 The unit Contract price for "PSIPE ____", per each, shall be full pay for all Work to perform
43 the work as specified within the planting area for weed control and planting area
44 preparation, planting, cleanup, and water necessary to complete planting operations as
45 specified to the end of first year plant establishment.

46

47 **Section 8-04, Curbs, Gutters, and Spillways**
48 **April 2, 2018**

49 **8-04.2 Materials**

50 In the first paragraph, the reference to "Portland Cement" is revised to read:

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Cement 9-01

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

The first paragraph is supplemented with the following:

Roundabout truck apron cement concrete curb and gutter shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02.

**Section 8-06, Cement Concrete Driveway Entrances
April 2, 2018**

8-06.2 Materials

In the first paragraph, the reference to "Portland Cement" is revised to read:

Cement 9-01

8-06.3 Construction Requirements

The first paragraph is revised to read:

Cement concrete driveway approaches shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02 or Portland Cement or Blended Hydraulic Cement Concrete Pavement conforming to the requirements of Section 5-05.

**Section 8-07, Precast Traffic Curb
April 2, 2018**

8-07.3(1) Installing Curbs

The first sentence of the first paragraph is revised to read:

The curb shall be firmly bedded for its entire length and breadth on a mortar bed conforming to Section 9-20.4(3) composed of one part Portland cement or blended hydraulic cement and two parts sand.

The fourth paragraph is revised to read:

All joints between adjacent pieces of curb except joints for expansion and/or drainage as designated by the Engineer shall be filled with mortar composed of one part Portland cement or blended hydraulic cement and two parts sand.

**Section 8-11, Guardrail
August 6, 2018**

8-11.3(1)C Terminal and Anchor Installation

The first paragraph is revised to read:

All excavation and backfilling required for installation of anchors shall be performed in accordance with Section 2-09, except that the costs thereof shall be included in the unit Contract price for the anchor installed.

1 The first sentence of the second to last paragraph is revised to read:
2
3 Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail
4 shall be supervised at all times by a manufacturer's representative, or an installer who
5 has been trained and certified by the manufacturer.
6

7 The last paragraph is revised to read:
8
9 Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test and
10 evaluation criteria in the Manual for Assessing Safety Hardware (MASH).
11

12 **8-11.4 Measurement**

13 The third paragraph is revised to read:
14
15 Measurement of beam guardrail _____ terminal will be per each for the
16 completed terminal.
17

18 The fourth paragraph is revised to read:
19
20 Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot for
21 the completed terminal.
22

23 The sixth paragraph is revised to read:
24
25 Measurement of beam guardrail anchor Type 10 will be per each for the completed
26 anchor, including the attachment of the anchor to the guardrail.
27

28 **8-11.5 Payment**

29 The Bid item "Beam Guardrail Anchor Type ____", per each is revised to read "Beam Guardrail
30 Anchor Type 10", per each.
31

32 The Bid item "Beam Guardrail Buried Terminal Type 1", per each is deleted from this section.
33

34 The Bid item "Beam Guardrail Buried Terminal Type 2", per linear foot and the following
35 paragraph are revised to read:
36

37 "Beam Guardrail Type 31 Buried Terminal Type 2", per linear foot.
38
39 The unit Contract price per linear foot for "Beam Guardrail Type 31 Buried Terminal Type
40 2" shall be full payment for all costs to obtain and provide materials and perform the Work
41 as described in Section 8-11.3(1)C.
42

43 **Section 8-14, Cement Concrete Sidewalks**
44 **April 2, 2018**

45 **8-14.2 Materials**

46 In the first paragraph, the reference to "Portland Cement" is revised to read:
47
48 Cement 9-01
49
50 In the second paragraph, each reference to "Federal Standard 595" is revised to read "SAE
51 AMS Standard 595".

1
2 **Section 8-16, Concrete Slope Protection**
3 **April 2, 2018**

4 **8-16.2 Materials**

5 In the first paragraph, the last two material references are revised to read:

6
7 Poured Portland Cement or Blended Hydraulic Cement
8 Concrete Slope Protection 9-13.5(2)
9 Pneumatically Placed Portland Cement or Blended
10 Hydraulic Cement Concrete Slope Protection 9-13.5(3)
11

12 **Section 8-17, Impact Attenuator Systems**
13 **January 7, 2019**

14 **8-17.3 Construction Requirements**

15 This section is supplemented with the following:

16
17 Permanent impact attenuators shall meet the crash test and evaluation criteria of the
18 Manual for Assessing Safety Hardware (MASH), except as otherwise noted in the Plans
19 or Special Provisions.
20

21 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**
22 **Systems, and Electrical**
23 **August 6, 2018**

24 **8-20.1(1) Regulations and Code**

25 The last paragraph is revised to read:

26
27 Persons performing electrical Work shall be certified in accordance with and supervised
28 as required by RCW 19.28.161. Proof of certification shall be worn at all times in
29 accordance with WAC 296-46B-942. Persons failing to meet these certification
30 requirements may not perform any electrical work, and shall stop any active electrical
31 work, until their certification is provided and worn in accordance with this Section.
32

33 **8-20.2(2) Equipment List and Drawings**

34 This section is renumbered:

35
36 **8-20.2(1) Equipment List and Drawings**
37

38 **8-20.3(4) Foundations**

39 The second sentence of the first paragraph is revised to read:

40
41 Concrete for Type II, III, IV, V, and CCTV signal standards and light standard foundations
42 shall be Class 4000P and does not require air entrainment.
43

44 **8-20.3(5)A General**

45 The last two sentences of the last paragraph is deleted.

46
47 This section is supplemented with the following:
48

1 All conduits shall include a pull tape with the equipment grounding conductor. The pull
2 tape shall be attached to the conduit near the end bell or grounded end bushing, or to
3 duct plugs or caps if present, at both ends of the conduit.
4

5 **8-20.3(8) Wiring**

6 The seventeenth paragraph is supplemented with the following:
7

8 Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string may not be
9 used.
10

11 **8-20.3(14)C Induction Loop Vehicle Detectors**

12 Item number 2 is deleted.
13

14 Item numbers 3 through 12 are renumbered to 2 through 11, respectively.
15

16 **Section 8-21, Permanent Signing**

17 **January 7 2019**

18 **8-21.3(5) Sign Relocation**

19 The second sentence of the first paragraph is revised to read:
20

21 Where the existing sign Structure is mounted on concrete pedestals, the Contractor shall
22 remove the pedestal to a minimum of 2 feet below finished grade and backfill the
23 remaining hole with material similar to that surrounding the hole.
24

25 **8-21.3(9)F Foundations**

26 Item number 3 of the twelfth paragraph is supplemented with the following new sentence:
27

28 Class 4000P concrete for roadside sign structures does not require air entrainment.
29

30 **Section 8-22, Pavement Marking**

31 **January 7, 2019**

32 **8-22.3(2) Preparation of Roadway Surfaces**

33 The second paragraph is revised to read:
34

35 Remove all other contaminants from pavement surfaces that may adversely affect the
36 installation of new pavement marking.
37

38 **8-22.3(3)F Application Thickness**

39 The second to last sentence of the last paragraph is revised to read:
40

41 After grinding, clean the groove.
42

43 **Section 9-00, Definitions and Tests**

44 **January 7, 2019**

45 **9-00.4 Sieves for Testing Purposes**

46 This section is revised to read:
47

1 Test sieves shall be made of either: (1) woven wire cloth conforming to ASTM E11, or (2)
2 square-hole, perforated plates conforming to ASTM E323.
3

4 **9-00.7 Galvanized Hardware, AASHTO M 232**

5 The first sentence is revised to read:
6

7 An acceptable alternate to hot-dip galvanizing in accordance with AASHTO M 232 will be
8 zinc coatings mechanically deposited in accordance with ASTM B695, providing the
9 minimum thickness of zinc coating is not less than that specified in AASHTO M 232, and
10 the process will not produce hydrogen embrittlement in the base metal.
11

12 **Section 9-02, Bituminous Materials**
13 **January 7, 2019**

14 **9-02.1 Asphalt Material, General**

15 The second paragraph is revised to read:
16

17 The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified asphalt
18 shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2 "Standard
19 Practice for Asphalt Suppliers That Certify Performance Graded and Emulsified Asphalts".
20 The Asphalt Supplier's QCP shall be submitted and receive the acceptance of the
21 WSDOT State Materials Laboratory. Once accepted, any change to the QCP will require
22 a new QCP to be submitted for acceptance. The Asphalt Supplier of PG asphalt binder
23 and emulsified asphalt shall certify through the Bill of Lading that the PG asphalt binder
24 or emulsified asphalt meets the Specification requirements of the Contract.
25

26 **9-02.1(4) Performance Graded Asphalt Binder (PGAB)**

27 This section's title is revised to read:
28

29 **Performance Graded (PG) Asphalt Binder**

30
31 The first paragraph is revised to read:
32

33 PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades
34 specified in the Contract shall be used in the production of HMA. For HMA with greater
35 than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt
36 binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the
37 proportions of the mix design shall meet the PG asphalt binder requirements of AASHTO
38 M 332 Table 1 for the grade of asphalt binder specified by the Contract.
39

40 The second paragraph, including the table, is revised to read:
41

42 In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders
43 shall meet the following requirements:
44

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Proper ty	Test Method	PG58S -22	PG58H -22	PG58V -22	PG64S- 28	PG64H -28	PG64V -28
RTFO Residu e:	AASHT O T 350 ¹			30% Min.	20% Min.	25% Min.	30% Min.

Average Percent Recovery @ 3.2 kPa							
¹Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

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The third paragraph is revised to read:

The RTFO $J_{nr\text{diff}}$ and the PAV direct tension specifications of AASHTO M 332 are not required.

9-02.1(6) Cationic Emulsified Asphalt

This section is revised to read:

Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208 Table 1 of the grades specified in the Contract shall be used.

9-02.5 Warm Mix Asphalt (WMA) Additive

This section, including title, is revised to read:

9-02.5 HMA Additive

Additives for HMA shall be accepted by the Engineer.

**Section 9-03, Aggregates
January 7, 2019**

9-03.1 Aggregates for Portland Cement Concrete

This section's title is revised to read:

Aggregates for Concrete

9-03.1(1) General Requirements

The first two sentences of the first paragraph are revised to read:

Concrete aggregates shall be manufactured from ledge rock, talus, or sand and gravel in accordance with the provisions of Section 3-01. Reclaimed aggregate may be used if it complies with the specifications for concrete.

The second paragraph (up until the colon) is revised to read:

Aggregates for concrete shall meet the following test requirements:

The second sentence of the second to last paragraph is revised to read:

The Contractor shall submit test results according to ASTM C1567 through the Engineer to the State Materials Laboratory that demonstrate that the proposed fly ash when used with the proposed aggregates and cement will control the potential expansion to 0.20 percent or less before the fly ash and aggregate sources may be used in concrete.

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9-03.1(2) Fine Aggregate for Portland Cement Concrete

This section's title is revised to read:

Fine Aggregate for Concrete

9-03.1(4) Coarse Aggregate for Portland Cement Concrete

This section's title is revised to read:

Coarse Aggregate for Concrete

9-03.1(4)C Grading

The first paragraph (up until the colon) is revised to read:

Coarse aggregate for concrete when separated by means of laboratory sieves shall conform to one or more of the following gradings as called for elsewhere in these Specifications, Special Provisions, or in the Plans:

9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete

This section's title is revised to read:

Combined Aggregate Gradation for Concrete

9-03.1(5)B Grading

In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read "FOP for WAQTC/AASHTO T 27/T 11".

9-03.2 Aggregate for Job-Mixed Portland Cement Mortar

This section's title is revised to read:

Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar

The first sentence of the first paragraph is revised to read:

Fine aggregate for portland cement or blended hydraulic cement mortar shall consist of sand or other inert materials, or combinations thereof, accepted by the Engineer, having hard, strong, durable particles free from adherent coating.

9-03.4(1) General Requirements

The first paragraph (up until the colon) is revised to read:

Aggregate for bituminous surface treatment shall be manufactured from ledge rock, talus, or gravel, in accordance with Section 3-01. Aggregates for Bituminous Surface Treatment shall meet the following test requirements:

9-03.8(1) General Requirements

The first paragraph (up until the colon) is revised to read:

Aggregates for Hot Mix Asphalt shall meet the following test requirements:

1 **9-03.8(2) HMA Test Requirements**

2 The two tables in the second paragraph are replaced with the following three tables:

3

Mix Criteria	HMA Class							
	3/8 inch		1/2 inch		3/4 inch		1 inch	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Voids in Mineral Aggregate (VMA), %	15.0		14.0		13.0		12.0	
Voids Filled With Asphalt (VFA), %								
ESAL's (millions)	VFA							
< 0.3	70	80	70	80	70	80	67	80
0.3 to < 3	65	78	65	78	65	78	65	78
≥ 3	73	76	65	75	65	75	65	75
Dust/Asphalt Ratio	0.6	1.6	0.6	1.6	0.6	1.6	0.6	1.6

4

Test Method	ESAL's (millions)	Number of Passes
Hamburg Wheel-Track Testing, FOP for AASHTO T 324 Minimum Number of Passes with no Stripping Inflection Point and Maximum Rut Depth of 10mm	< 0.3	10,000
	0.3 to < 3	12,500
	≥ 3	15,000
Indirect Tensile (IDT) Strength (psi) of Bituminous Materials FOP for ASTM D6931	175 Maximum	

5

	ESAL's (millions)	N initial	N design	N maximum
% Gmm	< 0.3	≤ 91.5	96.0	≤ 98.0
	0.3 to < 3	≤ 90.5	96.0	≤ 98.0
	≥ 3	≤ 89.0	96.0	≤ 98.0
Gyratory Compaction (number of gyrations)	< 0.3	6	50	75
	0.3 to < 3	7	75	115
	> 3	8	100	160

6

7 **9-03.8(7) HMA Tolerances and Adjustments**

8 In the table in item number 1, the fifth row is revised to read:

9

Asphalt binder	-0.4% to 0.5%		±0.7%
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10

11 In the table in item number 1, the following new row is inserted before the last row:

12

Voids in Mineral Aggregate, VMA	-1.0%		
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13

14 **9-03.9(1) Ballast**

15 The second paragraph (up until the colon) is revised to read:

16

17 Aggregates for ballast shall meet the following test requirements:

18

1 **9-03.14(4) Gravel Borrow for Structural Earth Wall**

2 The second sentence of the first paragraph is revised to read:

3

4 The material shall be substantially free of shale or other soft, poor durability particles, and
 5 shall not contain recycled materials, such as glass, shredded tires, concrete rubble, or
 6 asphaltic concrete rubble.

7

8 **9-03.21(1)B Recycled Concrete Aggregate Approval and Acceptance**

9 The first sentence of the second paragraph is revised to read:

10

11 Recycled concrete aggregate may be used as coarse aggregate or blended with coarse
 12 aggregate for Commercial Concrete, Class 3000 concrete, or Cement Concrete
 13 Pavement.

14

15 Item number 4 of the second paragraph is revised to read:

16

- 17 4. For Cement Concrete Pavement mix designs using recycled concrete aggregates,
 18 the Contractor shall submit evidence that ASR mitigating measures control
 19 expansion in accordance with Section 9-03.1(1).

20

21 This section is supplemented with the following new subsection:

22

23 **9-03.21(1)B1 Recycled Concrete Aggregate Approval and Acceptance**

24 Recycled concrete aggregate may be approved through a three tiered system that
 25 consists of the following:

26

Tier 1	
Approval Requirements	Approval of the Reclamation Facility is not required.
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1). Field acceptance testing in accordance with Section 3-04.
Approved to provide the following Aggregate Materials:	
9-03.10 Aggregate for Gravel Base 9-03.12(1)B Gravel Backfill for Foundations Class B 9-03.12(2) Gravel Backfill for Walls 9-03.12(3) Gravel Backfill for Pipe Zone Bedding 9-03.14(1) Gravel Borrow 9-03.14(2) Select Borrow 9-03.14(2) Select Borrow (greater than 3 feet below subgrade and side slope) 9-03.14(3) Common Borrow 9-03.14(3) Common Borrow (greater than 3 feet below subgrade and side slope) 9-03.17 Foundation Material Class A and Class B 9-03.18 Foundation Material Class C 9-03.19 Bank Run Gravel for Trench Backfill	

27

Tier 2	
Approval Requirements	The Reclamation Facility shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 9 "Standard Practice for Approval of Reclamation Facilities of WSDOT Recycled

	Concrete and Returned Concrete". The Reclamation Facility's QCP shall be submitted and approved by the WSDOT State Materials Laboratory. Once accepted, any changes to the QCP will require a new QCP to be submitted for acceptance. Evaluation of aggregate source properties (LA Wear and Degradation) for the recycled concrete aggregate is not required.
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1), required if requested. Field acceptance testing in accordance with Section 3-04 is required. Provide certification in accordance with WSDOT QC 9 for every lot. A lot shall be no larger than 10,000 tons.
Approved to provide the following Aggregate Materials:	
Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commercial Concrete or Concrete class 3000 9-03.9(1) Ballast 9-03.9(2) Permeable Ballast 9-03.9(3) Crushed Surfacing 9-03.12(1)A Gravel Backfill for Foundations Class A	

1

Tier 3	
Approval Requirements	The Reclamation Facility shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 10 "Standard Practice for Approval of Reclamation Facilities of Recycled Concrete Aggregates from Stockpiles of Unknown Sources". The Reclamation Facility's QCP shall be submitted and approved by the WSDOT State Materials Laboratory. Once accepted, any changes to the QCP will require a new QCP to be submitted for acceptance. Evaluation of aggregate source properties (LA Wear and Degradation) for the recycled concrete aggregate is required.
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1) is required. Field acceptance testing in accordance with Section 3-04 is required. Provide certification in accordance with WSDOT QC 10 for every lot. A lot shall be no larger than 10,000 tons
Approved to provide the following Aggregate Materials:	
Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commercial Concrete or Concrete class 3000 9-03.9(1) Ballast	

9-03.9(2) Permeable Ballast
9-03.9(3) Crushed Surfacing
9-03.12(1)A Gravel Backfill for Foundations Class A

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For Reclamation Facilities that do not participate in Tier 2 and Tier 3, approval of recycled concrete aggregate will be in accordance with Section 9-03.21(1), and acceptance will be in accordance with Section 3-04.

9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled Material

“Portland Cement” is deleted from the first two rows in the table.

The following new row is inserted after the second row:

Coarse Aggregate for Concrete Pavement	9-03.1(4)	0	100	0	0
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The first column of the fourth row (after the preceding Amendment is applied) is revised to read:

Coarse Aggregate for Commercial Concrete and Class 3000 Concrete

**Section 9-04, Joint and Crack Sealing Materials
January 7, 2019**

This section’s title is revised to read:

Joint Sealing Materials

9-04.1(2) Premolded Joint Filler for Expansion Joints

In this section, each reference to “AASHTO T 42” is revised to read “ASTM D 545”.

9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement

This section is supplemented with the following:

Hot poured sealant for cement concrete pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.

9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement

This section is supplemented with the following:

Hot poured sealant for bituminous pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.

9-04.2(1)B Sand Slurry for Bituminous Pavement

Item number 2 of the first paragraph is revised to read:

- 2. Two percent portland cement or blended hydraulic cement, and

9-04.3 Joint Mortar

The first paragraph is revised to read:

1
2 Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one part
3 portland cement or blended hydraulic cement, three parts fine sand, and sufficient water
4 to allow proper workability.
5

6 **9-04.5 Flexible Plastic Gaskets**

7 In the table, the Test Method value for **Specific Gravity at 77°F** is revised to read “ASTM
8 D71”.

9
10 In the table, the Test Method value for **Flash Point COC, F** is revised to read “ASTM D93 REV
11 A”.

12
13 In the table, the Test Method value for **Volatile Matter** is revised to read “ASTM D6”.

14
15 **Section 9-05, Drainage Structures and Culverts**
16 **January 7, 2019**

17 **9-05.3(1)A End Design and Joints**

18 The second sentence of the first paragraph is revised to read:

19
20 The joints and gasket material shall meet the requirements of ASTM C990.
21

22 **9-05.3(1)C Age at Shipment**

23 The last sentence of the first paragraph is revised to read:

24
25 Unless it is tested and accepted at an earlier age, it shall not be considered ready for
26 shipment sooner than 28 days after manufacture when made with Type II portland cement
27 or blended hydraulic cement, nor sooner than 7 days when made with Type III portland
28 cement.
29

30 **9-05.7(3) Concrete Storm Sewer Pipe Joints**

31 The second sentence is revised to read:

32
33 The joints and gasket material shall meet the requirements of ASTM C990.
34

35 **9-05.7(4)A Hydrostatic Pressure on Pipes in Straight Alignment**

36 The first sentence is revised to read:

37
38 Hydrostatic pressure tests on pipes in straight alignment shall be made in accordance
39 with the procedure outlined in Section 10 of ASTM C990, except that they shall be
40 performed on an assembly consisting of not less than three nor more than five pipe
41 sections selected from stock by the Engineer and assembled in accordance with standard
42 installation instructions issued by the manufacturer.
43

44 **9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe**

45 This section is revised to read:

46
47 Polypropylene culvert and storm sewer pipe shall conform to the following requirements:

- 48
49 1. For dual wall pipe sizes up to 60 inches: ASTM F2881 or AASHTO M 330, Type
50 S or Type D.

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2. For double or triple wall pipe sizes up to 60 inches: ASTM F2764.
3. Fittings shall be factory welded, injection molded, or PVC.

9-05.24(2) Polypropylene Sanitary Sewer Pipe

This section is revised to read:

Polypropylene sanitary sewer pipe shall conform to the following requirements:

1. For pipe sizes up to 60 inches: ASTM F2764.
2. Fittings shall be factory welded, injection molded, or PVC.

**Section 9-06, Structural Steel and Related Materials
January 7, 2019**

9-06.5 Bolts

This section's title is revised to read:

Bolts and Rods

9-06.5(4) Anchor Bolts

This section, including title, is revised to read:

9-06.5(4) Anchor Bolts and Anchor Rods

Anchor bolts and anchor rods shall meet the requirements of ASTM F1554 and, unless otherwise specified, shall be Grade 105 and shall conform to Supplemental Requirements S2, S3, and S4.

Nuts for ASTM F1554 Grade 105 black anchor bolts and anchor rods shall conform to ASTM A563, Grade D or DH. Nuts for ASTM F1554 Grade 105 galvanized anchor bolts and anchor rods shall conform to either ASTM A563, Grade DH, or AASHTO M292, Grade 2H, and shall conform to the overtapping, lubrication, and rotational testing requirements in Section 9-06.5(3). Nuts for ASTM F1554 Grade 36 or 55 black or galvanized anchor bolts and anchor rods shall conform to ASTM A563, Grade A or DH. Washers shall conform to ASTM F436.

The bolts and rods shall be tested by the manufacturer in accordance with the requirements of the pertinent Specification and as specified in these Specifications. Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the project site. The Contractor shall submit to the Engineer for acceptance a Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and washers, as defined in Section 1-06.3. If the Engineer deems it appropriate, the Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for testing.

All bolts, rods, nuts, and washers shall be marked and identified as required in the pertinent Specification.

9-06.15 Welded Shear Connectors

The third paragraph is revised to read:

1
2 Mechanical properties shall be determined in accordance with AASHTO T 244.
3

4 **9-06.17 Vacant**

5 This section, including title, is revised to read:
6

7 **9-06.17 Noise Barrier Wall Access Door**

8 Access door frames shall be formed of 14-gauge steel to the size and dimensions shown
9 in the Plans. The access door frame head and jamb members shall be mitered, securely
10 welded, and ground smooth. Each head shall have two anchors and each jamb shall have
11 three anchors. The hinges shall be reinforced with ¼-inch by 12-inch plate, width equal
12 to the full inside width of the frame.
13

14 Access doors shall be full flush 1-¾-inch thick seamless doors with a polystyrene core.
15 Door faces shall be constructed with smooth seamless 14-gauge roller-levered, cold-
16 rolled steel sheet conforming to ASTM A 792 Type SS, Grade 33 minimum, Coating
17 Designation AZ55 minimum. The vertical edges shall be neat interlocked hemmed edge
18 seam. The top and bottom of the door shall be enclosed with 14-gauge channels. Mortise
19 and reinforcement for locks and hinges shall be 10-gauge steel. Welded top cap shall be
20 ground and filled for exterior applications. The bottom channel shall have weep holes.
21

22 Each access door shall have three hinges. Access door hinges shall be ASTM A 276 Type
23 316 stainless steel, 4-½-inches square, with stainless steel ball bearing and non-
24 removable pins.
25

26 Each access door shall have two pull plates. The pull plates shall be ASTM A 240 Type
27 316 stainless steel, with a grip handle of one-inch diameter and 8 to 10-inches in length.
28

29 The door assembly shall be fabricated and assembled as a complete unit including all
30 hardware specified prior to shipment.
31

32 **9-06.18 Metal Bridge Railing**

33 The second sentence of the first paragraph is revised to read:
34

35 Steel used for metal railings, when galvanized after fabrication in accordance with
36 AASHTO M111, shall have a controlled silicon content of either 0.00 to 0.06 percent or
37 0.15 to 0.25 percent.
38

39 **Section 9-07, Reinforcing Steel**
40 **January 7, 2019**

41 **9-07.5(1) Epoxy-Coated Dowel Bars (for Cement Concrete Rehabilitation)**

42 This section (including title) is revised to read:
43

44 **9-07.5(1) Dowel Bars for Cement Concrete Pavement Rehabilitation**

45 Dowel bars for Cement Concrete Pavement Rehabilitation shall be 1½ inch outside
46 diameter plain round steel bars or tubular bars 18 inches in length and meet the
47 requirements of one of the following dowel bar types:
48

- 49 1. Epoxy-coated dowel bars shall be round plain steel bars of the dimensions
50 shown in the Standard Plans. They shall conform to AASHTO M31, Grade 60 or
51 ASTM A615, Grade 60 and shall be coated in accordance with ASTM A1078

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Type 2 coating, except that the bars may be cut to length after being coated. Cut ends shall be coated in accordance with ASTM A1078 with a patching material that is compatible with the coating, inert in concrete and recommended by the coating manufacturer. The thickness of the epoxy coating shall be 10 mils plus or minus 2 mils. The Contractor shall furnish a written certification that properly identifies the coating material, the number of each batch of coating material used, quantity represented, date of manufacture, name and address of manufacturer, and a statement that the supplied coating material meets the requirements of ASTM A1078 Type 2 coating. Patching material, compatible with the coating material and inert in concrete and recommended by the manufacturer shall be supplied with each shipment for field repairs by the Contractor.

- 2. ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a 1.625 inch outside diameter and a 0.120 inch wall thickness. Both the inside and outside of the tube shall be zinc coated with G40 galvanizing in accordance with ASTM A653. Following zinc coating the tubes shall be coated in accordance with Section 9-07.5(1) item 1. The ends of the tube shall be capped to prevent intrusion of concrete or other materials.

9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and Cement Concrete Pavement Rehabilitation)

The first paragraph (up until the colon) is revised to read:

Corrosion resistant dowel bars shall be 1½ inch outside diameter plain round steel bars or tubular bars 18 inches in length and meet the requirements of one of the following:

Item number 4 and 5 of the first paragraph are revised to read:

- 4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete reinforcement meeting all the requirements of ASTM A 1035 Alloy Type CS Grade 100 or Alloy Type CS Grade 120.
- 5. Zinc Clad dowel bars shall be 1½ inch solid bars or 1.625 inch outside diameter by 0.120 inch wall tubular bars meeting the chemical and physical properties of AASHTO M 31, Grade 60, or AASHTO M 255, Grade 60. The bars shall have a minimum of 0.035 inches A710 Zinc alloy clad to the plain steel inner bar or tube. A710 Zinc shall be composed of: zinc: 99.5 percent, by weight, minimum; copper: 0.1-0.25 percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each end of tubular bars shall be plugged using a snug-fitting insert to prohibit any intrusion of concrete or other materials.

The numbered list in the first paragraph is supplemented with the following:

- 6. Multicoated fusion bonded epoxy bars shall consist of an ASTM A615 bar with alternating layers of ASTM A934 coating and an abrasion resistant overcoat (ARO). The ASTM A934 coating shall form the base and there shall be two layers of each coating material. The minimum thickness of the combined layers of the ASTM A934 coating and ARO coating shall be 20 mils. The ARO shall meet the following requirements:

Test	Method	Specification
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Gouge Resistance	NACE TM0215, 30 kg wt., LS-1 bit @ 25°C	< 0.22 mm
Gouge Resistance	NACE TM0215, 50 kg wt., LS-1 bit @ 25°C	< 0.44 mm

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- 7. ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a 1.625 inch outside diameter and a 0.120 inch wall thickness. Both the inside and outside of the tube shall be zinc coated with G90 galvanizing in accordance with ASTM A653. Following zinc coating the tubes shall be coated in accordance with Section 9-07.5(1) item 1. The ends of the tube shall be capped to prevent intrusion of concrete or other materials.

The last paragraph is revised to read:

Stainless Steel Clad and Stainless Steel Tube Dowel bar ends shall be sealed with a patching material (primer and finish coat) used for patching epoxy-coated reinforcing steel as required in Section 9-07.3, item 6.

9-07.7 Wire Mesh

This section is supplemented with the following:

Welded wire manufacturers shall participate in the NTPEP Audit Program for Reinforcing Steel (rebar) Manufacturers and shall be listed on the NTPEP audit program website displaying that they are NTPEP compliant.

**Section 9-08, Paints and Related Materials
January 7, 2019**

9-08.1(1) Description

The first sentence is revised to read:

Paint used for highway and bridge structure applications shall be made from materials meeting the requirements of the applicable Federal and State Paint Specifications, Department of Defense (DOD), American Society of Testing of Materials (ASTM), and The Society for Protective Coatings (SSPC) specifications in effect at time of manufacture.

9-08.1(2) Paint Types

This section is supplemented with the following new subsections:

9-08.1(2)M NEPCOAT Qualified Products List A

Qualified products used shall be part of a NEPCOAT system supplied by the same manufacturer.

9-08.1(2)N NEPCOAT Qualified Products List B

Qualified products used shall be part of a NEPCOAT system supplied by the same manufacturer.

9-08.1(2)D Organic Zinc-Rich Primer

This section, including title, is revised to read:

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Vacant

9-08.1(2)E Epoxy Polyamide

This section is revised to read:

Epoxy polyamide shall be a two-component system conforming to MIL-DTL-24441 or SSPC Coating Standard No. 42.

9-08.1(2)H Top Coat, Single-Component, Moisture-Cured Polyurethane

This section is revised to read:

- Vehicle Type: Moisture-cured aliphatic polyurethane.
- Color and Gloss: Meet the SAE AMS Standard 595 Color as specified in the table below.

The Top Coat shall meet the following requirements:

- The resin shall be an aliphatic urethane.
- Minimum-volume solids 50 percent.
- The top coat shall be semi-gloss.

Color	Semi-Gloss
Washington Gray	26357
Mt. Baker Gray	26134
Mt. St. Helens Gray	26306
Cascade Green	24158

9-08.1(2)I Rust-Penetrating Sealer

This section is revised to read:

Rust-penetrating sealer shall be a two-component, chemically-cured, 100 percent solids epoxy.

9-08.1(2)J Black Enamel

This section is revised to read:

The enamel shall conform to Federal Specification MIL PRF 24635E Type II Class 2.

9-08.1(2)K Orange Equipment Enamel

The first paragraph is revised to read:

The enamel shall be an alkyd gloss enamel conforming to Federal Specification MIL-PRF-24635E Type II Class 1. The color, when dry, shall match that of SAE AMS Standard 595, color number 12246.

9-08.1(2)L Exterior Acrylic Latex Paint-White

The first paragraph is revised to read:

1 This paint shall conform to Federal Specification MIL-PRF-24635E Type II Class 1, 2 or
2 3.

4 **9-08.1(7) Acceptance**

5 This section is revised to read:

6

7 For projects with moisture-cured polyurethane quantities less than 20 gallons, acceptance
8 will be by the Manufacturer's Certificate of Compliance.

9

10 For projects with moisture-cured polyurethane quantities greater than 20 gallons, the
11 product shall be listed in the current WSDOT Qualified Products List (QPL). If the lot
12 number is listed on the QPL, it may be accepted without additional testing. If the lot
13 number is not listed on the QPL, a 1 quart sample shall be submitted to the State Materials
14 Laboratory for testing and acceptance.

15

16 For all other paint types, acceptance will be based on visual inspection.

17

18 **9-08.1(8) Standard Colors**

19 In the first paragraph, the reference to "Federal Standard 595" is revised to read "SAE AMS
20 Standard 595".

21

22 The second paragraph is revised to read:

23

24 Unless otherwise specified, all top or finish coats shall be semi-gloss, with the paint falling
25 within the range of 35 to 70 on the 60-degree gloss meter.

26

27 **9-08.2 Powder Coating Materials for Coating Galvanized Surfaces**

28 The last paragraph is revised to read:

29

30 Repair materials shall be as recommended by the powder coating manufacturer and as
31 specified in the Contractor's powder coating plan as accepted by the Engineer.

32

33 **9-08.3 Pigmented Sealer Materials for Coating of Concrete Surfaces**

34 This section, including title, is revised to read:

35

36 **9-08.3 Concrete Surface Treatments**

37 **9-08.3(1) Pigmented Sealer Materials**

38 The pigmented sealer shall be a semi-opaque, colored toner containing only methyl
39 methacrylate-ethyl acrylate copolymer resins, toning pigments suspended in solution
40 at all times by a chemical suspension agent, and solvent. Toning pigments shall be
41 laminar silicates, titanium dioxide, and inorganic oxides only. There shall be no
42 settling or color variation. Tinting shall occur at the factory at the time of manufacture
43 and placement in containers, prior to initial shipment. Use of vegetable or marine oils,
44 paraffin materials, stearates, or organic pigments in any part of coating formulation
45 will not be permitted. The color of pigmented sealer shall be as specified by the
46 Contracting Agency. The Contractor shall submit a 1-quart wet sample, a drawdown
47 color sample, and spectrophotometer or colorimeter readings taken in accordance
48 with ASTM D2244, for each batch and corresponding standard color card. The
49 calculated Delta E shall not exceed 1.5 from the Commission Internationale de
50 l'Eclairage (CIELAB) when measured at 10 degrees Standard Observer and
51 Illuminant D 65.

52

1 The 1-quart wet sample shall be submitted in the manufacturer's labeled container
2 with product number, batch number, and size of batch. The companion drawdown
3 color sample shall be labeled with the product number, batch number, and size of
4 batch. The Contractor shall submit the specified samples and readings to the
5 Engineer at least 14 calendar days prior to the scheduled application of the sealer.
6 The Contractor shall not begin applying pigmented sealer until receiving the
7 Engineer's written approval of the pigmented sealer color samples.
8

9 **9-08.3(2) Exposed Aggregate Concrete Coatings and Sealers**

10 **9-08.3(2)A Retardant Coating**

11 Retardant coating shall exhibit the following properties:

- 12
- 13 1. Retards the set of the surface mortar of the concrete without preventing
14 the concrete to reach the specified 28 day compressive strength.
- 15
- 16 2. Leaves the aggregate with its original color and luster, and firmly
17 embedded in the concrete matrix.
- 18
- 19 3. Allows the removal of the surface mortar in accordance with the
20 methods specified in Section 6-02.3(14)E without the use of acidic
21 washing compounds.
- 22
- 23 4. Allows for uniform removal of the surface mortar.
- 24

25 If the Contractor proposes use of a retardant coating that is not listed in the
26 current WSDOT QPL, the Contractor shall submit a Type 2 Working Drawing
27 consisting of a one quart product sample from a current lot along with supporting
28 product information, Safety Data Sheet, and a Manufacturer's Certificate of
29 Compliance stating that the product conforms to the above performance
30 requirements.

31 **9-08.3(2)B Clear Sealer**

32 The sealer for concrete surfaces with exposed aggregate finish shall be a clear,
33 non-gloss, penetrating sealer of either a silane, siloxane, or silicone based
34 formulation.
35

36 **9-08.3(3) Permeon Treatment**

37 Permeon treatment shall be a product of known consistent performance in producing
38 the SAE AMS Standard 595 Color No. 30219 target color hue established by
39 WSDOT, either selected from the WSDOT Qualified Products List (QPL), or an
40 equivalent product accepted by the Engineer. For acceptance of products not listed
41 in the current WSDOT QPL, the Contractor shall submit Type 3 Working Drawings
42 consisting of a one quart product sample from a current lot, supporting product
43 information and a Safety Data Sheet.
44

45 **Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion** 46 **and Scour Protection and Rock Walls** 47 **April 2, 2018** 48

49 **9-13.1(1) General**

50 The last paragraph is revised to read:
51

1 Riprap and quarry spalls shall be free from segregation, seams, cracks, and other defects
2 tending to destroy its resistance to weather and shall meet the following test requirements:
3

4 **9-13.5 Concrete Slope Protection**

5 This section is revised to read:
6

7 Concrete slope protection shall consist of reinforced portland cement or blended hydraulic
8 cement concrete poured or pneumatically placed upon the slope with a rustication joint
9 pattern or semi-open concrete masonry units placed upon the slope closely adjoining
10 each other.
11

12 **9-13.5(2) Poured Portland Cement Concrete Slope Protection**

13 This section's title is revised to read:
14

15 **Poured Portland Cement or Blended Hydraulic Cement Concrete Slope** 16 **Protection** 17

18 **9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection**

19 This section's title is revised to read:
20

21 **Pneumatically Placed Portland Cement or Blended Hydraulic Cement** 22 **Concrete Slope Protection** 23

24 The first paragraph is revised to read:
25

26 **Cement** – This material shall be portland cement or blended hydraulic cement as
27 specified in Section 9-01.
28

29 **9-13.7(1) Rock for Rock Walls and Chinking Material**

30 The first paragraph (up until the colon) is revised to read:
31

32 Rock for rock walls and chinking material shall be hard, sound and durable material,
33 free from seams, cracks, and other defects tending to destroy its resistance to weather,
34 and shall meet the following test requirements:
35

36 **Section 9-14, Erosion Control and Roadside Planting** 37 **August 6, 2018**

38 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

39 In Table 1, the last four rows are deleted.
40

41 **9-14.4(2)A Long-Term Mulch**

42 The first paragraph is supplemented with the following:
43

44 Products containing cellulose fiber produced from paper or paper components will not be
45 accepted.
46

47 Table 2 is supplemented with the following new rows:
48

Water Holding Capacity	ASTM D 7367	800 percent minimum
Organic Matter Content	AASHTO T 267	90 percent minimum

Seed Germination Enhancement	ASTM D 7322	Long Term 420 percent minimum
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9-14.4(2)B Moderate-Term Mulch

This section is revised to read:

Within 48 hours of application, the Moderate-Term Mulch shall bond with the soil surface to create a continuous, absorbent, flexible, erosion-resistant blanket. Moderate-Term Mulch shall effectively perform the intended erosion control function in accordance with Section 8-01.3(1) for a minimum of 3 months, or until temporary vegetation has been established, whichever comes first.

Moderate-Term Mulch shall not be used in conjunction with permanent seeding.

9-14.4(2)C Short-Term Mulch

This section is revised to read:

Short-Term Mulch shall effectively perform the intended erosion control function in accordance with Section 8-01.3(1) for a minimum of 2 months, or until temporary vegetation has been established, whichever comes first. Short-Term Mulch shall not be used in conjunction with permanent seeding.

**Section 9-16, Fence and Guardrail
August 6, 2018**

9-16.3(1) Rail Element

The last sentence of the first paragraph is revised to read:

All rail elements shall be formed from 12-gage steel except for thrie beam reducer sections, reduced length thrie beam rail elements, thrie beams used for bridge rail retrofits, and Design F end sections, which shall be formed from 10-gage steel.

9-16.3(5) Anchors

The last paragraph is revised to read:

Cement grout shall conform to Section 9-20.3(4) and consist of one part portland cement or blended hydraulic cement and two parts sand.

**Section 9-18, Precast Traffic Curb
April 2, 2018**

9-18.1(1) Aggregates and Proportioning

Item number 1 of the first paragraph is revised to read:

1. Portland cement or blended hydraulic cement shall conform to the requirements of Section 9-01 except that it may be Type I portland cement conforming to AASHTO M 85.

1 **Section 9-20, Concrete Patching Material, Grout, and Mortar**
 2 **January 7, 2019**

3 **9-20.1 Patching Material**

4 This section, including title, is revised to read:
 5

6 **9-20.1 Patching Material for Cement Concrete Pavement**

7 Concrete patching material shall be prepackaged mortar extended with aggregate. The
 8 amount of aggregate for extension shall conform to the manufacturer's recommendation.
 9

10 Patching mortar and patching mortar extended with aggregate shall contain cementitious
 11 material and conform to Sections 9-20.1(1) and 9-20.1(2). The Manufacturer shall use the
 12 services of a laboratory that has an equipment calibration verification system and a
 13 technician training and evaluation process in accordance with AASHTO R 18 to perform
 14 all tests specified in Section 9-20.1.
 15

16 **9-20.1(1) Patching Mortar**

17 Patching mortar shall conform to the following requirements:
 18

Compressive Strength	ASTM Test Method	Specification
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		
at 28 days	C 157	0.15 percent maximum
Total Chloride Ion Content	C 1218	1 lb/yd ³ maximum
Bond Strength		
at 24 hours	C 882 (As modified by C 928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672 (As modified by C 928, Section 9.4)	1 lb/ft ² maximum

19 **9-20.1(2) Patching Mortar Extended with Aggregate**

20 Patching mortar extended with aggregate shall meet the following requirements:
 21
 22

Compressive Strength	ASTM Test Method	Specification
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		
at 28 days	C 157	0.15 percent maximum
Bond Strength		
at 24 hours	C 882 (As modified by ASTM C928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672	2 Maximum Visual Rating

Freeze thaw	C 666	Maximum expansion 0.10%	durability
		Minimum 90.0%	

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9-20.1(3) Aggregate

Aggregate used to extend the patching mortar shall conform to Section 9-03.1(4) and be AASHTO Grading No. 8. A Manufacturer’s Certificate of Compliance shall be submitted showing the aggregate source and the gradation. Mitigation for Alkali Silica Reaction (ASR) will not be required for the extender aggregate used for concrete patching material.

9-20.1(4) Water

Water shall meet the requirements of Section 9-25.1. The quantity of water shall be within the limits recommended by the repair material manufacturer.

9-20.2 Specifications

This section, including title, is revised to read:

9-20.2 Patching Material for Concrete Structure Repair

Concrete patching material shall be a prepackaged mixture of portland or blended hydraulic cement, aggregate, and admixtures. Fly ash, ground granulated blast furnace slag and microsilica fume may be used. The concrete patching material may be shrinkage compensated. The concrete patching material shall also meet the following requirements:

- Compressive strength of 6000 psi or higher at 28 days in accordance with AASHTO T 22 (ASTM C 39), unless noted otherwise
- Bond strength of 250 psi or higher at 28 days or less in accordance with ASTM C 1583 or ICRI 210.3R
- Shrinkage shall be 0.05 percent (500 microstrain) or lower at 28 days in accordance with AASHTO T 160 (ASTM C 157) as modified by ICRI 320.3R
- Permeability shall be 2,000 coulombs or lower at 28 days in accordance with AASHTO T 277 (ASTM C 1202)
- Freeze-thaw resistance shall have a durability factor of 90 percent or higher after a minimum of 300 cycles in accordance with AASHTO T 161 Procedure A (ASTM C 666)
- Soluble chloride ion limits in Section 6-02.3(2) shall be satisfied

9-20.2(1) Patching Mortar

This section, including title, is deleted in its entirety.

9-20.2(2) Patching Mortar Extended with Aggregate

This section, including title, is deleted in its entirety.

9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications

This section is revised to read:

1 Grout Type 3 shall be a prepackaged material that does not include expansive admixtures
2 meeting the following requirements:

- 3
- 4 • Compressive strength shall be 4000 psi or higher at 28 days in accordance with
5 AASHTO T 22 (ASTM C 39) for grout extended with coarse aggregate or
6 AASHTO T 106 (ASTM C109) otherwise.
 - 7
 - 8 • Bond strength shall meet one of the following:
 - 9
 - 10 ◦ 250 psi or higher at 28 days or less in accordance with ASTM C1583.
 - 11
 - 12 ◦ 2000 psi or higher at 28 days or less in accordance with ASTM C882. The
13 following modification to ASTM C882 is acceptable: use Type 3 Grout in lieu
14 of epoxy resin base bonding system and freshly mixed portland-cement
15 mortar in the procedure for testing Type II and V systems.
 - 16
 - 17 • Drying shrinkage shall be 0.08 percent (800 microstrain) or lower at 28 days in
18 accordance with AASHTO T 160 (ASTM C157). The following modification to
19 AASHTO T 160 is acceptable: use a standard specimen size of 3 x 3 x 11-¼
20 inches.
 - 21

22 **9-20.5 Bridge Deck Repair Material**

23 Item number 3 of the first paragraph is revised to read:

- 24
- 25 3. Permeability of less than 2,000 coulombs at 28-days or more in accordance with
26 AASHTO T 277.
 - 27

28 **Section 9-21, Raised Pavement Markers (RPM)** 29 **January 2, 2018**

30 **9-21.2 Raised Pavement Markers Type 2**

31 This section's content is deleted.

32 **9-21.2(1) Physical Properties**

33 This section, including title, is revised to read:

34 **9-21.2(1) Standard Raised Pavement Markers Type 2**

35 The marker housing shall contain reflective faces as shown in the Plans to reflect incident
36 light from either a single or opposite directions and meet the requirements of ASTM D
37 4280 including Flexural strength requirements.

38 **9-21.2(2) Optical Requirements**

39 This section, including title, is revised to read:

40 **9-21.2(2) Abrasion Resistant Raised Markers Type 2**

41 Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and meet
42 the requirements of ASTM D 4280 with the following additional requirement: The
43 coefficient of luminous intensity of the markers shall be measured after subjecting the
44 entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop
45 apparatus. After the exposure described above, retroreflected values shall not be less
46 than 0.5 times a nominal unblemished sample.

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9-21.2(3) Strength Requirements

This section is deleted in its entirety.

Section 9-26, Epoxy Resins January 7, 2019

9-26.1(1) General

The following new sentence is inserted after the first sentence of the first paragraph:

For pre-packaged cartridge kits, the epoxy bonding agent shall meet the requirements of ASTM C881 when mixed according to manufacturer instructions, utilizing the manufacturer's mixing nozzle.

9-26.1(2) Packaging and Marking

The first sentence of the first paragraph is revised to read:

The components of the epoxy system furnished under these Specifications shall be supplied in separate containers or pre-packaged cartridge kits that are non-reactive with the materials contained.

The second paragraph is revised to read:

Separate containers shall be marked by permanent marking that identify the formulator, "Component A" (contains the Epoxy Resin) and "Component B" (Contains the Curing Agent), type, grade, class, lot or batch number, mixing instructions and the quantity contained in pounds or gallons as defined by these Specifications.

The following new paragraph is inserted after the second paragraph:

Pre-packaged cartridge kits shall be marked by permanent marking that identify the formulator, type, grade, class, lot or batch number, mixing instructions and the quantity contained in ounces or milliliters as defined by these Specifications.

Section 9-28, Signing Materials and Fabrication April 2, 2018

9-28.10 Vacant

This section, including title, is revised to read:

9-28.10 Digital Printing

Transparent and opaque durable inks used in digital printed sign messages shall be as recommended by the manufacturer. When properly applied, digital printed colors shall have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall present a smooth surface, free from foreign material, and all messages and borders shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective minimum values established for its type and color. Digitally printed signs shall meet the daytime color and luminance, and nighttime color requirements of ASTM D 4956. No variations in color or overlapping of colors will be permitted. Digital printed permanent traffic signs shall have an integrated engineered match component clear protective overlay recommended by the sheeting manufacturer applied to the entire face of the sign.

1 On Temporary construction/maintenance signs printed with black ink only, the protective
2 overlay film is optional, as long as the finished sign has a warranty of a minimum of three
3 years from sign sheeting manufacturer.
4

5 All digital printed traffic control signs shall be an integrated engineered match component
6 system. The integrated engineered match component system shall consist of
7 retroreflective sheeting, durable ink(s), and clear overlay film all from the same
8 manufacturer applied to aluminum substrate conforming to Section 9-28.8.
9

10 The sign fabricator shall use an approved integrated engineered match component
11 system as listed on the Qualified Products List (QPL). Each approved digital printer shall
12 only use the compatible retroreflective sign sheeting manufacturer's engineered match
13 component system products.
14

15 Each retroreflective sign sheeting manufacturer/integrated engineered match component
16 system listed on the QPL shall certify a department approved sign fabricator is approved
17 to operate their compatible digital printer. The sign fabricator shall re-certify annually with
18 the retroreflective sign manufacturer to ensure their digital printer is still meeting
19 manufacturer's specifications for traffic control signs. Documentation of each re-
20 certification shall be submitted to the QPL Engineer annually.
21

22 **9-28.11 Hardware**

23 The last paragraph is revised to read:
24

25 All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and
26 related connecting hardware shall be galvanized in accordance with ASTM F 2329.
27

28 **9-28.14(2) Steel Structures and Posts**

29 The first sentence of the third paragraph is revised to read:
30

31 Anchor rods for sign bridge and cantilever sign structure foundations shall conform to
32 Section 9-06.5(4), including Supplemental Requirement S4 tested at -20°F.
33

34 In the second sentence of the fourth paragraph, "AASHTO M232" is revised to read "ASTM F
35 2329".
36

37 The first sentence of the fifth paragraph is revised to read:
38

39 Except as otherwise noted, steel used for sign structures and posts shall have a controlled
40 silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.
41

42 The last sentence of the last paragraph is revised to read:
43

44 If such modifications are contemplated, the Contractor shall submit a Type 2 Working
45 Drawing of the proposed modifications.
46

47 **Section 9-29, Illumination, Signal, Electrical** 48 **January 7, 2019**

49 **9-29.1 Conduit, Innerduct, and Outerduct**

50 This section is supplemented with the following new subsections:
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9-29.1(10) Pull Tape

Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a minimum width of ½-inch and a minimum tensile strength of 500 pounds. Pull tape may have measurement marks.

9-29.1(11) Foam Conduit Sealant

Foam conduit sealant shall be self-expanding waterproof foam designed to prevent both water and pest intrusion. The foam shall be designed for use in and around electrical equipment, including both insulated and bare conductors.

9-29.2(1) Junction Boxes

The first paragraph is revised to read:

For the purposes of this Specification concrete is defined as portland cement or blended hydraulic cement concrete and non-concrete is all others.

9-29.2(1)A2 Non-Concrete Junction Boxes

The first paragraph is revised to read:

Material for the non-concrete junction boxes shall be of a quality that will provide for a similar life expectancy as portland cement or blended hydraulic cement concrete in a direct burial application.

9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes

In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

9-29.3(2)A1 Single Conductor Current Carrying

This second sentence is revised to read:

Insulation shall be XLP (cross-linked polyethylene) or EPR (Ethylene Propylene Rubber), Type USE (Underground Service Entrance) or USE-2, and rated for 600-volts or higher.

9-29.6 Light and Signal Standards

In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

Item number 2 of the last paragraph is revised to read:

- 2. The steel light and signal standard fabricator’s shop drawing submittal, including supporting design calculations, submitted as a Type 2E Working Drawing in accordance with Section 8-20.2(1) and the Special Provisions.

9-29.6(1) Steel Light and Signal Standards

In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

The first sentence of the last paragraph is revised to read:

1 Steel used for light and signal standards shall have a controlled silicon content of either
2 0.00 to 0.06 percent or 0.15 to 0.25 percent.

3
4 **9-29.6(5) Foundation Hardware**

5 In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

6
7 **9-29.10(1) Conventional Roadway Luminaires**

8 This section is revised to read:

9
10 All conventional roadway luminaires shall meet 3G vibration requirements as described
11 in ANSI C136.31.

12
13 All luminaires shall have housings fabricated from aluminum. The housing shall be
14 painted flat gray, SAE AMS Standard 595 color chip No. 26280, unless otherwise
15 specified in the Contract. Painted housings shall withstand a 1,000 hour salt spray test as
16 specified in ASTM B117.

17
18 Each housing shall include a four bolt slip-fitter mount capable of accepting a nominal 2"
19 tenon and adjustable within +/- 5 degrees of the axis of the tenon. The clamping bracket(s)
20 and the cap screws shall not bottom out on the housing bosses when adjusted within the
21 +/- 5 degree range. No part of the slipfitter mounting brackets on the luminaires shall
22 develop a permanent set in excess of 0.2 inch when the cap screws used for mounting
23 are tightened to a torque of 32 foot-pounds. Each luminaire shall include leveling
24 reference points for both transverse and longitudinal adjustment.

25
26 All luminaires shall include shorting caps when shipped. The caps shall be removed and
27 provided to the Contracting Agency when an alternate control device is required to be
28 installed in the photocell socket. House side shields shall be included when required by
29 the Contract. Order codes shall be modified to the minimum extent necessary to include
30 the option for house side shields.

31
32 This section is supplemented with the following new subsections:

33
34 **9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway**
35 **Luminaires**

36 HPS conventional roadway luminaires shall meet the following requirements:

- 37
38 1. General shape shall be "cobrahead" style, with flat glass lens and full cutoff
39 optics.
40
41 2. Light pattern distribution shall be IES Type III.
42
43 3. The reflector of all luminaires shall be of a snap-in design or secured with
44 screws. The reflector shall be polished aluminum or prismatic borosilicate glass.
45
46 4. Flat lenses shall be formed from heat resistant, high-impact, molded borosilicate
47 or tempered glass.
48
49 5. The lens shall be mounted in a doorframe assembly, which shall be hinged to
50 the luminaire and secured in the closed position to the luminaire by means of an
51 automatic latch. The lens and doorframe assembly, when closed, shall exert
52 pressure against a gasket seat. The lens shall not allow any light output above

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90 degrees nadir. Gaskets shall be composed of material capable of withstanding the temperatures involved and shall be securely held in place.

- 6. The ballast shall be mounted on a separate exterior door, which shall be hinged to the luminaire and secured in the closed position to the luminaire housing by means of an automatic type of latch (a combination hex/slot stainless steel screw fastener may supplement the automatic-type latch).
- 7. Each luminaire shall be capable of accepting a 150, 200, 250, 310, or 400 watt lamp complete and associated ballast. Lamps shall mount horizontally.

9-29.10(1)B Light Emitting Diode (LED) Conventional Roadway Luminaires

LED Conventional Roadway Luminaires are divided into classes based on their equivalent High Pressure Sodium (HPS) luminaires. Current classes are 200W, 250W, 310W, and 400W. LED luminaires are required to be pre-approved in order to verify their photometric output. To be considered for pre-approval, LED luminaires must meet the requirements of this section.

LED luminaires shall include a removable access door, with tool-less entry, for access to electronic components and the terminal block. The access door shall be removable, but include positive retention such that it can hang freely without disconnecting from the luminaire housing. LED drivers may be mounted either to the interior of the luminaire housing or to the removable door itself.

LED drivers shall be removable for user replacement. All internal modular components shall be connected by means of mechanical plug and socket type quick disconnects. Wire nuts may not be used for any purpose. All external electrical connections to the luminaire shall be made through the terminal block.

LED luminaires shall include a 7-pin NEMA photocell receptacle. The LED driver(s) shall be dimmable from ten volts to zero volts. LED output shall have a Correlated Color Temperature (CCT) of 4000K nominal (4000-4300K) and a Color Rendering Index (CRI) of 70 or greater. LED output shall be a minimum of 85% at 75,000 hours at 25 degrees Celsius.

LED luminaires shall be available for 120V, 240V, and 480V supply voltages. Voltages refer to the supply voltages to the luminaires present in the field. LED power usage shall not exceed the following maximum values for the applicable wattage class:

Class	Max. Wattage
200W	110W
250W	165W
310W	210W
400W	275W

Only one brand of LED conventional roadway luminaire may be used on a Contract. They do not necessarily have to be the same brand as any high-mast, underdeck, or wall-mount luminaires when those types of luminaires are specified in the Contract. LED luminaires shall include a standard 10 year manufacturer warranty.

The list of pre-approved LED Conventional Roadway Luminaires is available at <http://www.wsdot.wa.gov/Design/Traffic/ledluminaires.htm>.

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9-29.10(2) Decorative Luminaires

This section, including title, is revised to read:

9-29.10(2) Vacant

9-29.12 Electrical Splice Materials

This section is supplemented with the following new subsections:

9-29.12(3) Splice Enclosures

9-29.12(3)A Heat Shrink Splice Enclosure

Heat shrink splice enclosures shall be medium or heavy wall cross-linked polyolefin, meeting the requirements of AMS-DTL-23053/15, with thermoplastic adhesive sealant. Heat shrink splices used for “wye” connections require rubber electrical mastic tape.

9-29.12(3)B Molded Splice Enclosure

Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The material used shall be compatible with the insulation material of the insulated conductor or cable. The component materials of the resin insulation shall be packaged ready for convenient mixing without removing from the package.

9-29.12(4) Re-Enterable Splice Enclosure

Re-enterable splice enclosures shall use either dielectric grease or a flexible resin contained in a two-piece plastic mold. The mold shall either snap together or use stainless steel hose clamps.

9-29.12(5) Vinyl Electrical Tape for Splices

Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-24391C.

9-29.12(1) Illumination Circuit Splices

This section is revised to read:

Underground illumination circuit splices shall be solderless crimped connections capable of securely joining the wires, both mechanically and electrically, as defined in Section 8-20.3(8). Aerial illumination splices shall be solderless crimp connectors or split bolt vice-type connectors.

9-29.12(1)A Heat Shrink Splice Enclosure

This section is deleted in its entirety.

9-29.12(1)B Molded Splice Enclosure

This section is deleted in its entirety.

9-29.12(2) Traffic Signal Splice Material

This section is revised to read:

Induction loop splices and magnetometer splices shall use an uninsulated barrel-type crimped connector capable of being soldered.

1 **9-29.13(10)D Cabinets for Type 170E and 2070 Controllers**

2 The first sentence of item number 4 is revised to read:

3
4 A disposable paper filter element with dimensions of 12" × 16" × 1" shall be provided in
5 lieu of a metal filter.

6
7 Item number 6 is revised to read:

8
9 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment
10 breaker on the Power Distribution Assembly. Each LED light strip shall be
11 approximately 12 inches long, have a minimum output of 320 lumens, and have a
12 color temperature of 4100K (cool white) or higher. There shall be three light strips for
13 each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted
14 lighting is not permitted. Light strips shall be installed in the locations shown in the
15 Standard Plans. Lighting shall not interfere with the proper operation of any other
16 ceiling mounted equipment. All lighting fixtures above a rack shall energize
17 automatically when either door to that respective rack is opened. Each door switch
18 shall be labeled "Light".
19

20 Item number 7 is revised to read:

21
22 7. Rack mounted equipment shall be as shown in the Standard Plans. The cabinet
23 shall use PDA #2LX and Output File #1LX. Where an Auxiliary Output File is
24 required, Output File #2LX shall also be included.
25

26 This section is supplemented with the following new item:

27
28 9. The PCB connectors for Field Terminal Blocks FT1 through FT6 on Output Files #1LX
29 and #2LX shall be capable of accepting minimum 14 AWG field wiring, have a pitch
30 of 5.08 mm, and use screw flange type locking to secure the plug and socket
31 connection. The sockets on the Field Terminal Panel shall be secured to the panel
32 such that unplugging a connector will not result in the socket moving or separating
33 from the panel.
34

35 **9-29.13(11) Cabinets for Type 170E and 2070 Controllers**

36 Item number 2 is revised to read:

37
38 2. Rack mounted equipment shall be as shown in the Standard Plans.
39

40 Item number 3 is revised to read:

41
42 3. PDA #3LX shall be furnished with three Model 200 Load Switches installed. PDA
43 #3LX shall be modified to include a second Model 430 transfer relay, mounted on the
44 rear of the PDA and wired as shown in the Standard Plans.
45

46 **9-29.13(12) ITS Cabinet**

47 This section's title is revised to read:

48
49 **Type 331L ITS Cabinet**

50
51 The first paragraph (excluding the numbered list) is revised to read:
52

1 Basic ITS cabinets shall be Model 331L Cabinets, unless otherwise specified in the
2 Contract. Type 331L Cabinets shall be constructed in accordance with the TEES, with the
3 following modifications:
4

5 Item number 6 of the first paragraph is revised to read:
6

7 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment
8 breaker on the Power Distribution Assembly. Each LED light strip shall be
9 approximately 12 inches long, have a minimum output of 320 lumens, and have a
10 color temperature of 4100K (cool white) or higher. There shall be three light strips for
11 each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted
12 lighting is not permitted. Light strips shall be installed in the locations shown in the
13 Standard Plans. Lighting shall not interfere with the proper operation of any other
14 ceiling mounted equipment. All lighting fixtures above a rack shall energize
15 automatically when either door to that respective rack is opened. Each door switch
16 shall be labeled "Light".
17

18 **9-29.16(2)E Painting Signal Heads**

19 In the first sentence, "Federal Standard 595" is revised to read "SAE AMS Standard 595".
20

21 **9-29.17 Signal Head Mounting Brackets and Fittings**

22 In the first paragraph, item number 2 under **Stainless Steel** is revised to read:
23

24 2. Bands or cables for Type N mount.
25

26 **9-29.20 Pedestrian Signals**

27 In item 2C of the second paragraph, "Federal Standard 595" is revised to read "SAE AMS
28 Standard 595".
29

30 **9-29.24 Service Cabinets**

31 The third sentence of item number 6 is revised to read:
32

33 The dead front cover shall have cutouts for the entire breaker array, with blank covers
34 where no circuit breakers are installed.
35

36 Item number 8 is revised to read:
37

38 8. Lighting contactors shall meet the requirements of Section 9-29.24(2).
39

40 The last sentence of item number 10 is revised to read:
41

42 Dead front panels shall prevent access to any exposed, live components, and shall cover
43 all equipment except for circuit breakers (including blank covers), the photocell
44 test/bypass switch, and the GFCI receptacle.
45

46 **9-29.24(2) Electrical Circuit Breakers and Contactors**

47 This section is revised to read:
48

49 All circuit breakers shall be bolt-on type, with the RMS-symmetrical interrupting capacity
50 described in this Section. Circuit breakers for 120/240/277 volt circuits shall be rated at
51 240 or 277 volts, as applicable, with an interrupting capacity of not less than 10,000

1 amperes. Circuit breakers for 480 volt circuits shall be rated at 480 volts, and shall have
2 an interrupting capacity of not less than 14,000 amperes.

3
4 Lighting contactors shall be rated for tungsten or ballasted (such as sodium vapor,
5 mercury vapor, metal halide, and fluorescent) lamp loads. Contactors for 120/240/277 volt
6 circuits shall be rated at 240 volts maximum line to line voltage, or 277 volts maximum
7 line to neutral voltage, as applicable. Contactors for 480 volt circuits shall be rated at 480
8 volt maximum line to line voltage.

9
10 **Section 9-33, Construction Geosynthetic**
11 **August 6, 2018**

12 **9-33.4(1) Geosynthetic Material Approval**

13 The second sentence of the first paragraph is revised to read:

14
15 If the geosynthetics material is not listed in the current WSDOT QPL, a Manufacturer's
16 Certificate of Compliance including Certified Test Reports of each proposed geosynthetic
17 shall be submitted to the State Materials Laboratory in Tumwater for evaluation.

18
19 The last paragraph is revised to read:

20
21 Geosynthetics used as reinforcement in permanent geosynthetic retaining walls,
22 reinforced slopes, reinforced embankments, and other geosynthetic reinforcement
23 applications require proof of compliance with the National Transportation Product
24 Evaluation Program (NTPEP) in accordance with AASHTO Standard Practice R 69,
25 Standard Practice for Determination of Long-Term Strength for Geosynthetic
26 Reinforcement.

27
28 **Section 9-34, Pavement Marking Material**
29 **January 7, 2019**

30 **9-34.2(2) Color**

31 The first sentence is revised to read:

32
33 Paint draw-downs shall be prepared according to ASTM D823.

34
35 Each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".

36
37 **9-34.2(3) Prohibited Materials**

38 This section is revised to read:

39
40 Traffic paint shall not contain mercury, lead, chromium, diarylide pigments, toluene,
41 chlorinated solvents, hydrolysable chlorine derivatives, ethylene-based glycol ethers and
42 their acetates, nor any other EPA hazardous waste material over the regulatory levels in
43 accordance with CFR 40 Part 261.24.

44
45 **9-34.2(5) Low VOC Waterborne Paint**

46 The heading "Standard Waterborne Paint" is supplemented with "Type 1 and 2".

47
48 The heading "High-Build Waterborne Paint" is supplemented with "Type 4".

49
50 The heading "Cold Weather Waterborne Paint" is supplemented with "Type 5".

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In the row beginning with “° @90°F”, each minimum value is revised to read “60”.

In the row beginning with “Fineness of Grind, (Hegman Scale)”, each minimum value is revised to read “3”.

The last four rows are replaced with the following:

Vehicle Composition	ASTM D 2621	100% acrylic emulsion	100% cross-linking acrylic ⁴	100% acrylic emulsion
Freeze-Thaw Stability, KU	ASTM D 2243 and D 562	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 3 cycles show no coagulation or change in viscosity greater than ± 10 KU
Heat Stability	ASTM D 562 ²	± 10 KU from the initial viscosity	± 10 KU from the initial viscosity	± 10 KU from the initial Viscosity
Low Temperature Film Formation	ASTM D 2805 ³	No Cracks*		No Cracks
Cold Flexibility ⁵	ASTM D522	Pass at 0.5 in mandrel*		
Test Deck Durability ⁶	ASTM D913	≥70% paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

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After the preceding Amendments are applied, the following new column is inserted after the “Standard Waterborne Paint Type 1 and 2” column:

Semi-Durable Waterborne Paint Type 3			
White		Yellow	
Min.	Max.	Min.	Max.
Within ± 0.3 of qualification sample			
80	95	80	95
60		60	
77		77	
	65		65
43		43	
	1.25		1.25
3		3	
0.98		0.96	
88		50	
100°		100°	
9.5		9.5	
	10		10
100% acrylic emulsion			
@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU			
± 10 KU from the initial viscosity			

No Cracks
Pass at 0.25 in mandrel
≥70% paint retention in wheel track
No Cracks

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The footnotes are supplemented with the following:

⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F Section 3.1.1.

⁵Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness of 15 mils and allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B) shall be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and immediately tested to according to ASTM D522 to evaluate cold flexibility. Paint must show no evidence of cracking, chipping or flaking when bent 180 degrees over a mandrel bar of specified diameter.

⁶NTPEP test deck, or a test deck conforming to ASTM D713, shall be conducted for a minimum of six months with the following additional requirements: it shall be applied at 15 wet mils to a test deck that is located at 40N latitude or higher with at least 10,000 ADT and which was applied during the months of September through November.

⁷Paint is applied to an approximately 4"x12" aluminum panel using a drawdown bar with a 50 mil gap. The coated panel is allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. Visual evaluation of the dry film shall reveal no cracks.

9-34.3 Plastic

In the first sentence of the last paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".

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

In the last two paragraphs, each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".

9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate

The Test Method value for Adhesion to PCC or HMA, psi is revised to read "ASTM D4541¹".

9-34.4 Glass Beads for Pavement Marking Materials

In the Test Method column of the table titled Metal Concentration Limits, "EPA 3052 SW-846 6010C" is revised to read "EPA 3052 SW-846 6010D".

9-34.5(1) Temporary Pavement Marking Tape – Short Duration

This section, including title, is revised to read:

9-34.5(1) Temporary Pavement Marking Tape – Short Duration (Removable)

Temporary pavement marking tape for short duration (usage is for up to two months) shall conform to ASTM D4592 Type I except that black tape, black mask tape and the black portion of the contrast removable tape, shall be non-reflective.

1 **9-34.5(2) Temporary Pavement Marking Tape – Long Duration**

2 This section's title is revised to read:

3

4 **Temporary Pavement Marking Tape – Long Duration (Non-Removable)**

5

6 The first sentence is revised to read:

7

8 Temporary pavement marking tape for long duration (usage is for greater than two months
9 and less than one year) shall conform to ASTM D4592 Type II.

10

11 ASTM E2176 is deleted from the second sentence.

12

13 **9-34.7(1) Requirements**

14 The first paragraph is revised to read:

15

16 Field performance evaluation is required for low VOC solvent-based paint per Section 9-
17 34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B –
18 preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed
19 tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section
20 9-34.3(4).

21

22 The last paragraph is deleted.

23

24 **9-34.7(1)C Auto No-Track Time**

25 The first paragraph is revised to read:

26

27 Auto No-Track Time will only be required for low VOC solvent-based paint in accordance
28 with Section 9-34.2(4).

29

30 The second and third sentences of the second paragraph are deleted.

31

32

1 **SPECIAL PROVISIONS**

2
3 The following Special Provisions are made a part of this contract and supersede any conflicting
4 provisions of the 2018 Standard Specifications for Road, Bridge and Municipal Construction,
5 and the foregoing Amendments to the Standard Specifications.

6
7 Several types of Special Provisions are included in this contract; General, Region, Bridges
8 and Structures, and Project Specific. Special Provisions types are differentiated as follows:

9		
10	(date)	General Special Provision
11	(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
12		
13		
14	(Regions ¹ date)	Region Special Provision
15	(BSP date)	Bridges and Structures Special Provision
16		

17 **General Special Provisions** are similar to Standard Specifications in that they typically apply
18 to many projects, usually in more than one Region. Usually, the only difference from one
19 project to another is the inclusion of variable project data, inserted as a "fill-in".

20
21 **Region Special Provisions** are commonly applicable within the designated Region. Region
22 designations are as follows:

23		
24	<u>Regions¹</u>	
25	ER	Eastern Region
26	NCR	North Central Region
27	NWR	Northwest Region
28	OR	Olympic Region
29	SCR	South Central Region
30	SWR	Southwest Region
31		
32	WSF	Washington State Ferries Division
33		

34 **Bridges and Structures Special Provisions** are similar to Standard Specifications in that
35 they typically apply to many projects, usually in more than one Region. Usually, the only
36 difference from one project to another is the inclusion of variable project data, inserted as a
37 "fill-in".

38
39 **Project Specific Special Provisions** normally appear only in the contract for which they were
40 developed.

41
42 **Division 1**
43 **General Requirements**

44
45 **DESCRIPTION OF WORK**

46
47 (*****)
48 This Contract provides for the production or supply of 30,000 tons of ½" Special Crushed
49 Coverstone, 20,000 tons of Crushed Surfacing Top Course, 10,000 tons of Special Screened
50 Waste Sand, including haul to stockpile, and other work including Site Reclamation, at one pit
51 site location all in accordance with the attached Contract Plans, these Contract Provisions,
52 and the Standard Specifications.

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1-01.3 Definitions
(January 4, 2016 APWA GSP)

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date

The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date

The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date

The date the Contracting Agency officially binds the Agency to the Contract.

Notice to Proceed Date

The date stated in the Notice to Proceed on which the Contract time begins.

Substantial Completion Date

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

Physical Completion Date

The day all of the Work is physically completed on the project. All documentation required by the Contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date

The day all the Work specified in the Contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required by the Contract and required by law must be furnished by the Contractor before establishment of this date.

Final Acceptance Date

The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions, to the terms "Department of Transportation", "Washington State Transportation Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

All references to the terms "State" or "state" shall be revised to read "Contracting Agency" unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated location".

1 All references to "final contract voucher certification" shall be interpreted to mean the
2 Contracting Agency form(s) by which final payment is authorized, and final completion
3 and acceptance granted.
4

5 **Additive**

6 A supplemental unit of work or group of bid items, identified separately in the Bid
7 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
8 to the base bid.
9

10 **Alternate**

11 One of two or more units of work or groups of bid items, identified separately in the Bid
12 Proposal, from which the Contracting Agency may make a choice between different
13 methods or material of construction for performing the same work.
14

15 **Business Day**

16 A business day is any day from Monday through Friday except holidays as listed in
17 Section 1-08.5.
18

19 **Contract Bond**

20 The definition in the Standard Specifications for "Contract Bond" applies to whatever
21 bond form(s) are required by the Contract Documents, which may be a combination of a
22 Payment Bond and a Performance Bond.
23

24 **Contract Documents**

25 See definition for "Contract".
26

27 **Contract Time**

28 The period of time established by the terms and conditions of the Contract within which
29 the Work must be physically completed.
30

31 **Notice of Award**

32 The written notice from the Contracting Agency to the successful Bidder signifying the
33 Contracting Agency's acceptance of the Bid Proposal.
34

35 **Notice to Proceed**

36 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
37 and directing the Contractor to proceed with the Work and establishing the date on which
38 the Contract time begins.
39

40 **Traffic**

41 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
42 equestrian traffic.
43

44 **Bid Procedures and Conditions**

45

46 **Prequalification of Bidders**

47

48 Section 1-02.1, including title, is deleted and replaced with the following:
49

1 **1-02 BID PROCEDURES AND CONDITIONS**

2

3 **1-02.1 Prequalification of Bidders**

4

5 Delete this section and replace it with the following:

6

7 **1-02.1 Qualifications of Bidder**

8 *(January 24, 2011 APWA GSP)*

9

10 Before award of a public works contract, a bidder must meet at least the minimum
11 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to
12 be awarded a public works project.

13

14 **Examination of Plans, Specifications and Site of Work**

15

16 ***General***

17

18 Section 1-02.4(1) is supplemented with the following:

19

20 *(*****)*

21 Pit site is gated and locked. Bidders may coordinate to view crushing site by contacting Gary
22 George at 509-422-7307

23

24 **Preparation of Proposal**

25

26 **1-02.6 Preparation of Proposal**

27 *(July 11, 2018 APWA GSP)*

28

29 Supplement the second paragraph with the following:

30 4. If a minimum bid amount has been established for any item, the unit or lump sum
31 price must equal or exceed the minimum amount stated.

32 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be
33 initialed by the signer of the bid.

34

35 Delete the last two paragraphs, and replace them with the following:

36

37 If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any
38 Subcontractor to perform those items of work.

39

40 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
41 Compliance form, provided by the Contracting Agency. Failure to return this certification
42 as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for
43 Award. A Contractor Certification of Wage Law Compliance form is included in the
44 Proposal Forms.

45

46 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

47

48 A bid by a corporation shall be executed in the corporate name, by the president or a
49 vice president (or other corporate officer accompanied by evidence of authority to sign).

50

1 A bid by a partnership shall be executed in the partnership name, and signed by a
2 partner. A copy of the partnership agreement shall be submitted with the Bid Form if any
3 UDBE requirements are to be satisfied through such an agreement.

4
5 A bid by a joint venture shall be executed in the joint venture name and signed by a
6 member of the joint venture. A copy of the joint venture agreement shall be submitted
7 with the Bid Form if any UDBE requirements are to be satisfied through such an
8 agreement.

9
10 **1-02.7 Bid Deposit**
11 *(March 8, 2013 APWA GSP)*

12
13 Supplement this section with the following:

14
15 Bid bonds shall contain the following:

- 16 1. Contracting Agency-assigned number for the project;
- 17 2. Name of the project;
- 18 3. The Contracting Agency named as obligee;
- 19 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
20 represents five percent of the maximum bid amount that could be awarded;
- 21 5. Signature of the bidder's officer empowered to sign official statements. The signature
22 of the person authorized to submit the bid should agree with the signature on the
23 bond, and the title of the person must accompany the said signature;
- 24 6. The signature of the surety's officer empowered to sign the bond and the power of
25 attorney.

26
27 If so stated in the Contract Provisions, bidder must use the bond form included in the
28 Contract Provisions.

29
30 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

31
32 **Public Opening of Proposals**

33
34 Section 1-02.12 is supplemented with the following:

35
36 *(*****)*

37 **Date and Time of Bid Opening**

38
39 The Board of County Commissioners of Okanogan County, will open sealed bid proposals
40 and publicly read them aloud after **10:45:00AM Pacific Time on March 26th, 2019**, at the
41 Okanogan County Commissioners Hearing Room, Okanogan County, Washington for the:

42
43 **2019 Gravel Crushing or Supply Project**

44
45 Sealed bids are to be received by mail or hand delivered to the Office of the Board of County
46 Commissioners of Okanogan County located on the first floor of the Grainger Administration
47 Building located at 123 Fifth Ave. North, Room 150, Okanogan, Washington.

48

1 Bid proposals for this project must be received by **10:45:00AM Pacific Time,**
2 **March 26th, 2019.** The official time will be the time as displayed on the computer of the
3 Clerk of the Board according to the Network Time Protocol (NTP) Time Server time display.
4

5 Please note that US Mail delivered the day of bid opening may not arrive in time. Bidders
6 intending to mail their bid proposals may want to arrange for their bid proposals to arrive a
7 day early. Bids delivered in person will only be received by the Clerk of the Board of
8 Okanogan County Commissioners. Bid Proposals and Bid Proposal Bonds must be on the
9 original forms provided by the County.

10
11 Bids received on time will be publicly opened and read immediately after the bid receipt
12 deadline.
13

14 All envelopes containing bids shall be sealed and clearly addressed to:

15
16 **Okanogan County Commissioners**
17 **123 Fifth Avenue North**
18 **Room 150**
19 **Okanogan, Washington 98840**
20

21 And shall have the following clearly marked on the lower left-hand corner:

22
23 **SEALED BID FOR 2019 GRAVEL CRUSHING OR SUPPLY PROJECT**
24

25 Telephone, telephone facsimile (FAX) or electronic e-mailed bids or amendments to bids will
26 not be accepted.
27

28 29 30 **Irregular Proposals**

31
32 **1-02.13 Irregular Proposals**
33 *(June 20, 2017 APWA GSP)*
34

35 Delete this section and replace it with the following:

- 36
37 1. A Proposal will be considered irregular and will be rejected if:
38 a. The Bidder is not prequalified when so required;
39 b. The authorized Proposal form furnished by the Contracting Agency is not
40 used or is altered;
41 c. The completed Proposal form contains any unauthorized additions, deletions,
42 alternate Bids, or conditions;
43 d. The Bidder adds provisions reserving the right to reject or accept the award,
44 or enter into the Contract;
45 e. A price per unit cannot be determined from the Bid Proposal;
46 f. The Proposal form is not properly executed;
47 g. The Bidder fails to submit or properly complete a Subcontractor list, if
48 applicable, as required in Section 1-02.6;
49 h. The Bidder fails to submit or properly complete an Underutilized
50 Disadvantaged Business Enterprise Certification, if applicable, as required in
51 Section 1-02.6;

- 1 i. The Bidder fails to submit written confirmation from each UDBE firm listed on
- 2 the Bidder's completed UDBE Utilization Certification that they are in
- 3 agreement with the bidder's UDBE participation commitment, if applicable, as
- 4 required in Section 1-02.6, or if the written confirmation that is submitted fails
- 5 to meet the requirements of the Special Provisions;
- 6 j. The Bidder fails to submit UDBE Good Faith Effort documentation, if
- 7 applicable, as required in Section 1-02.6, or if the documentation that is
- 8 submitted fails to demonstrate that a Good Faith Effort to meet the Condition
- 9 of Award was made;
- 10 k. The Bid Proposal does not constitute a definite and unqualified offer to meet
- 11 the material terms of the Bid invitation; or
- 12 l. More than one Proposal is submitted for the same project from a Bidder
- 13 under the same or different names.
- 14
- 15 2. A Proposal may be considered irregular and may be rejected if:
- 16 a. The Proposal does not include a unit price for every Bid item;
- 17 b. Any of the unit prices are excessively unbalanced (either above or below the
- 18 amount of a reasonable Bid) to the potential detriment of the Contracting
- 19 Agency;
- 20 c. Receipt of Addenda is not acknowledged;
- 21 d. A member of a joint venture or partnership and the joint venture or
- 22 partnership submit Proposals for the same project (in such an instance, both
- 23 Bids may be rejected); or
- 24 e. If Proposal form entries are not made in ink.
- 25

26 **1-02.14 Disqualification of Bidders**

27 *(May 17, 2018 APWA GSP, Option B)*

28

29 Delete this section and replace it with the following:

30

31 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory

32 bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet

33 Supplemental Criteria 1-7 listed in this Section.

34

35 The Contracting Agency will verify that the Bidder meets the mandatory bidder

36 responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence

37 that the Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as

38 stated later in this Section.

39

40

41 **1. Delinquent State Taxes**

42

43 A. Criterion: The Bidder shall not owe delinquent taxes to the Washington State

44 Department of Revenue without a payment plan approved by the Department

45 of Revenue.

46

47 B. Documentation: The Bidder, if and when required as detailed below, shall sign

48 a statement (on a form to be provided by the Contracting Agency) that the

49 Bidder does not owe delinquent taxes to the Washington State Department of

50 Revenue, or if delinquent taxes are owed to the Washington State

51 Department of Revenue, the Bidder must submit a written payment plan

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approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.

2. **Federal Debarment**

- A. **Criterion:** The Bidder shall not currently be debarred or suspended by the Federal government.
- B. **Documentation:** The Bidder shall not be listed as having an “active exclusion” on the U.S. government’s “System for Award Management” database (www.sam.gov).

3. **Subcontractor Responsibility**

- A. **Criterion:** The Bidder’s standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder’s subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also “responsible” subcontractors as defined by RCW 39.06.020.
- B. **Documentation:** The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Claims Against Retainage and Bonds**

- A. **Criterion:** The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. **Documentation:** The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:
 - Name of project
 - The owner and contact information for the owner;
 - A list of claims filed against the retainage and/or payment bond for any of the projects listed;
 - A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

5. **Public Bidding Crime**

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- A. Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.

- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

6. **Termination for Cause / Termination for Default**

- A. Criterion: The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances. .

7. **Lawsuits**

- A. Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency

- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets the Supplemental Criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets the supplemental criteria together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with the Supplemental Criteria. The Contracting Agency reserves the right to request further documentation as needed from the low Bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that

1 information in their evaluation. The Contracting Agency may consider mitigating
2 factors in determining whether the Bidder complies with the requirements of the
3 supplemental criteria.
4

5 The basis for evaluation of Bidder compliance with these mandatory and supplemental
6 criteria shall include any documents or facts obtained by Contracting Agency (whether
7 from the Bidder or third parties) including but not limited to: (i) financial, historical, or
8 operational data from the Bidder; (ii) information obtained directly by the Contracting
9 Agency from others for whom the Bidder has worked, or other public agencies or
10 private enterprises; and (iii) any additional information obtained by the Contracting
11 Agency which is believed to be relevant to the matter.
12

13 If the Contracting Agency determines the Bidder does not meet the bidder
14 responsibility criteria above and is therefore not a responsible Bidder, the Contracting
15 Agency shall notify the Bidder in writing, with the reasons for its determination. If the
16 Bidder disagrees with this determination, it may appeal the determination within two (2)
17 business days of the Contracting Agency's determination by presenting its appeal and
18 any additional information to the Contracting Agency. The Contracting Agency will
19 consider the appeal and any additional information before issuing its final
20 determination. If the final determination affirms that the Bidder is not responsible, the
21 Contracting Agency will not execute a contract with any other Bidder until at least two
22 business days after the Bidder determined to be not responsible has received the
23 Contracting Agency's final determination.
24

25 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders
26 with concerns about the relevancy or restrictiveness of the Supplemental Bidder
27 Responsibility Criteria may make or submit requests to the Contracting Agency to
28 modify the criteria. Such requests shall be in writing, describe the nature of the
29 concerns, and propose specific modifications to the criteria. Bidders shall submit such
30 requests to the Contracting Agency no later than five (5) business days prior to the bid
31 submittal deadline and address the request to the Project Engineer or such other
32 person designated by the Contracting Agency in the Bid Documents.
33

34 **1-02.15 Pre Award Information**
35 *(August 14, 2013 APWA GSP)*
36

37 Revise this section to read:
38

39 Before awarding any contract, the Contracting Agency may require one or more of these
40 items or actions of the apparent lowest responsible bidder:

- 41 1. A complete statement of the origin, composition, and manufacture of any or all
42 materials to be used,
- 43 2. Samples of these materials for quality and fitness tests,
- 44 3. A progress schedule (in a form the Contracting Agency requires) showing the order
45 of and time required for the various phases of the work,
- 46 4. A breakdown of costs assigned to any bid item,
- 47 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 48 6. Obtain, and furnish a copy of, a business license to do business in the city or county
49 where the work is located.
- 50 7. Any other information or action taken that is deemed necessary to ensure that the
51 bidder is the lowest responsible bidder.

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Award and Execution of Contract

1-03.1 Consideration of Bids

(January 23, 2006 APWA GSP)

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within Seven (7) calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of Three (3) additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1 **1-03.4 Contract Bond**
2 *(July 23, 2015 APWA GSP)*

3
4 Delete the first paragraph and replace it with the following:

- 5
6
7
8 The successful bidder shall provide executed payment and performance bond(s) for the
9 full contract amount. The bond may be a combined payment and performance bond; or
10 be separate payment and performance bonds. In the case of separate payment and
11 performance bonds, each shall be for the full contract amount. The bond(s) shall:
- 12 1. Be on Contracting Agency-furnished form(s);
 - 13 2. Be signed by an approved surety (or sureties) that:
 - 14 a. Is registered with the Washington State Insurance Commissioner, and
 - 15 b. Appears on the current Authorized Insurance List in the State of Washington
16 published by the Office of the Insurance Commissioner,
 - 17 3. Guarantee that the Contractor will perform and comply with all obligations, duties,
18 and conditions under the Contract, including but not limited to the duty and obligation
19 to indemnify, defend, and protect the Contracting Agency against all losses and
20 claims related directly or indirectly from any failure:
 - 21 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
22 subcontractors of the Contractor) to faithfully perform and comply with all contract
23 obligations, conditions, and duties, or
 - 24 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
25 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
26 subcontractors, material person, or any other person who provides supplies or
27 provisions for carrying out the work;
 - 28 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
29 project under titles 50, 51, and 82 RCW; and
 - 30 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign
31 the bond; and
 - 32 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
33 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed
34 by the president or vice president, unless accompanied by written proof of the
35 authority of the individual signing the bond(s) to bind the corporation (i.e., corporate
36 resolution, power of attorney, or a letter to such effect signed by the president or vice
37 president).

38
39 **Scope of the Work**

40
41 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**
42 **Specifications, and Addenda**
43 *(March 13, 2012 APWA GSP)*

44
45 Revise the second paragraph to read:

- 46
47 Any inconsistency in the parts of the contract shall be resolved by following this order of
48 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):
- 49 1. Addenda,
 - 50 2. Proposal Form,

- 1 3. Special Provisions,
- 2 4. Contract Plans,
- 3 5. Amendments to the Standard Specifications,
- 4 6. Standard Specifications,
- 5 7. Contracting Agency's Standard Plans or Details (if any), and
- 6 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

7
8 **Control of Work**

9
10 **1-05.6 Inspection of Work Materials**

11
12 Section 1-02.12 is supplemented with the following:

13
14 (*****)

15 The Contracting Agency has hired a materials testing firm to perform gradation testing
16 on all materials produced by the Contractor for this contract. The Contractor shall
17 cooperate with the materials testing firm to ensure they have access to collect the
18 required samples in accordance with the WSDOT Standard Specifications,
19 Construction Manual and Materials Manual.

20
21
22 Add the following new section:

23
24 **1-05.16 Water and Power**
25 *(October 1, 2005 APWA GSP)*

26
27 The Contractor shall make necessary arrangements, and shall bear the costs for power
28 and water necessary for the performance of the work, unless the contract includes power
29 and water as a pay item.

30
31 **Legal Relations and Responsibilities to the Public**

32
33 **Laws to be Observed**

34
35 Section 1-07.1 is supplemented with the following:

36
37 **1-07.1 Laws to be Observed**

38
39 Section 1-07.1 is supplemented with the following:

40
41 (*****)

42 **Prevention of Environmental Pollution and Preservation of Public Natural**
43 **Resources**

44
45 The Contractor shall comply with all the environmental provisions which include the
46 requirements Department of Natural Resources Mining Permits and Reclamation Plans,
47 Okanogan County Spill Prevention Control and Countermeasure Plan, Okanogan
48 County Ordinance No. 88-1 and other requirements as listed. The Okanogan County
49 Ordinance No. 85-3, an ordinance implementing the State Environmental Policy Act of
50 1971, Chapter 43.21C.120, and Washington Administrative Code (WAC).

51 Copies of these environmental provisions are available to the Contractor at the

1 Okanogan County Public Works Office.

2
3 **Okanogan County Ordinance No. 94-16:**

4 An ordinance amending Section 14.04.220 of the Okanogan County Code Relating
5 to Appeals under the State Environmental Protection Act (SEPA) pursuant to RCW
6 43.21.C075 and WAC 197-11-680.
7

8 **Additional permits and requirements that pertain to operations in County pits.**

- 9 1. DNR Reclamation Plan for the designated County pits. The Contractor is
10 informed that the Department of Natural Resources Mining Permit has been
11 issued. All site operations shall be according to the attached DNR reclamation
12 plan. All costs associated with this work shall be included in the bid item, "Site
13 Reclamation", Lump Sum.
14 2. SEPA for the designated County pit, Greenacres Pit. The contractor is informed
15 that the SEPA process has been completed.
16

17 **1-07.2 State Taxes**

18 Section 1-07.2 is supplemented with the following:

19
20 (*****)

21 The work on this contract is to be performed upon lands whose ownership obligates
22 the Contractor to pay sales tax. The provisions of Section 1-07.2(1) apply.
23
24

25 Delete this section, including its sub-sections, in its entirety and replace it with the following:

26
27 **1-07.2 State Sales Tax**

28 *(June 27, 2011 APWA GSP)*
29

30 The Washington State Department of Revenue has issued special rules on the State
31 sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The
32 Contractor should contact the Washington State Department of Revenue for answers to
33 questions in this area. The Contracting Agency will not adjust its payment if the
34 Contractor bases a bid on a misunderstood tax liability.
35

36 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
37 contract amounts. In some cases, however, state retail sales tax will not be included.
38 Section 1-07.2(2) describes this exception.
39

40 The Contracting Agency will pay the retained percentage (or release the Contract Bond if
41 a FHWA-funded Project) only if the Contractor has obtained from the Washington State
42 Department of Revenue a certificate showing that all contract-related taxes have been
43 paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the
44 Contractor any amount the Contractor may owe the Washington State Department of
45 Revenue, whether the amount owed relates to this contract or not. Any amount so
46 deducted will be paid into the proper State fund.
47

48 **1-07.2(1) State Sales Tax — Rule 171**

49
50 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
51 roads, etc., which are owned by a municipal corporation, or political subdivision of the

1 state, or by the United States, and which are used primarily for foot or vehicular traffic.
2 This includes storm or combined sewer systems within and included as a part of the
3 street or road drainage system and power lines when such are part of the roadway
4 lighting system. For work performed in such cases, the Contractor shall include
5 Washington State Retail Sales Taxes in the various unit bid item prices, or other contract
6 amounts, including those that the Contractor pays on the purchase of the materials,
7 equipment, or supplies used or consumed in doing the work.

8 9 **1-07.2(2) State Sales Tax — Rule 170**

10
11 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
12 existing buildings, or other structures, upon real property. This includes, but is not
13 limited to, the construction of streets, roads, highways, etc., owned by the state of
14 Washington; water mains and their appurtenances; sanitary sewers and sewage
15 disposal systems unless such sewers and disposal systems are within, and a part of, a
16 street or road drainage system; telephone, telegraph, electrical power distribution lines,
17 or other conduits or lines in or above streets or roads, unless such power lines become a
18 part of a street or road lighting system; and installing or attaching of any article of
19 tangible personal property in or to real property, whether or not such personal property
20 becomes a part of the realty by virtue of installation.

21
22 For work performed in such cases, the Contractor shall collect from the Contracting
23 Agency, retail sales tax on the full contract price. The Contracting Agency will
24 automatically add this sales tax to each payment to the Contractor. For this reason, the
25 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
26 contract amount subject to Rule 170, with the following exception.

27
28 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
29 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
30 consumable supplies not integrated into the project. Such sales taxes shall be included
31 in the unit bid item prices or in any other contract amount.

32 33 **1-07.2(3) Services**

34
35 The Contractor shall not collect retail sales tax from the Contracting Agency on any
36 contract wholly for professional or other services (as defined in Washington State
37 Department of Revenue Rules 138 and 244).

38 39 **Permits and Licenses**

40
41 Section 1-07.6 is supplemented with the following:

42
43 (*****)

44 The Contractor must acquire all Air Quality Modification Permits from Washington State
45 Department of Ecology for the operations in the designated County pit.
46 A Temporary Air Quality Permit for Rock Crushing must be approved by WDOE and a
47 copy of the permits shall be submitted to the Contracting Agency before crushing
48 operations may proceed.

49
50 The Contractor must comply with the conditions of the Temporary Air Quality Permit
51 for Rock Crushing. Violation of those conditions **will result in a mandatory shut**
52 **down** in the crushing operation.

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Load Limits

Section 1-07.7 is supplemented with the following:

(March 13, 1995)

Whenever the Contractor obtains materials from a source other than that provided by the Contracting Agency, or provides a source for materials not designated to come from a source provided by the State and the location of the source necessitates hauling on other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

Public Liability and Property Damage Insurance

1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance

(January 4, 2016 APWA GSP)

1-07.18(1) General Requirements

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

- 1 E. The Contractor shall provide the Contracting Agency and all additional insureds with
2 written notice of any policy cancellation, within two business days of their receipt of such
3 notice.
4
- 5 F. The Contractor shall not begin work under the Contract until the required insurance has
6 been obtained and approved by the Contracting Agency
7
- 8 G. Failure on the part of the Contractor to maintain the insurance as required shall
9 constitute a material breach of contract, upon which the Contracting Agency may, after
10 giving five business days' notice to the Contractor to correct the breach, immediately
11 terminate the Contract or, at its discretion, procure or renew such insurance and pay any
12 and all premiums in connection therewith, with any sums so expended to be repaid to the
13 Contracting Agency on demand, or at the sole discretion of the Contracting Agency,
14 offset against funds due the Contractor from the Contracting Agency.
15
- 16 H. All costs for insurance shall be incidental to and included in the unit or lump sum prices
17 of the Contract and no additional payment will be made.
18

19 **1-07.18(2) Additional Insured**

20 All insurance policies, with the exception of Workers Compensation, and of Professional
21 Liability and Builder's Risk (if required by this Contract) shall name the following listed
22 entities as additional insured(s) using the forms or endorsements required herein:

- 23 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and
24 volunteers

25 The above-listed entities shall be additional insured(s) for the full available limits of liability
26 maintained by the Contractor, irrespective of whether such limits maintained by the
27 Contractor are greater than those required by this Contract, and irrespective of whether the
28 Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits
29 lower than those maintained by the Contractor.
30

31 For Commercial General Liability insurance coverage, the required additional insured
32 endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing
33 operations and CG 20 37 10 01 for completed operations.
34

35 **1-07.18(3) Subcontractors**

36 The Contractor shall cause each Subcontractor of every tier to provide insurance coverage
37 that complies with all applicable requirements of the Contractor-provided insurance as set
38 forth herein, except the Contractor shall have sole responsibility for determining the limits of
39 coverage required to be obtained by Subcontractors.
40

41 The Contractor shall ensure that all Subcontractors of every tier add all entities listed in
42 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by
43 that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20
44 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.
45

46 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
47 Agency evidence of insurance and copies of the additional insured endorsements of each
48 Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.
49

50 **1-07.18(4) Verification of Coverage**

51 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
52 endorsements for each policy of insurance meeting the requirements set forth herein when

1 the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to
2 demand such verification of coverage with these insurance requirements or failure of
3 Contracting Agency to identify a deficiency from the insurance documentation provided shall
4 not be construed as a waiver of Contractor's obligation to maintain such insurance.
5

6 Verification of coverage shall include:

- 7 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
- 8 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
9 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may
10 submit a copy of any blanket additional insured clause from its policies instead of a
11 separate endorsement.
- 12 3. Any other amendatory endorsements to show the coverage required herein.
- 13 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy
14 these requirements – actual endorsements must be submitted.
15

16 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
17 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is
18 required on this Project, a full and certified copy of that policy is required when the
19 Contractor delivers the signed Contract for the work.
20

21 **1-07.18(5) Coverages and Limits**

22 The insurance shall provide the minimum coverages and limits set forth below. Contractor's
23 maintenance of insurance, its scope of coverage, and limits as required herein shall not be
24 construed to limit the liability of the Contractor to the coverage provided by such insurance,
25 or otherwise limit the Contracting Agency's recourse to any remedy available at law or in
26 equity.
27

28 All deductibles and self-insured retentions must be disclosed and are subject to approval by
29 the Contracting Agency. The cost of any claim payments falling within the deductible or self-
30 insured retention shall be the responsibility of the Contractor. In the event an additional
31 insured incurs a liability subject to any policy's deductibles or self-insured retention, said
32 deductibles or self-insured retention shall be the responsibility of the Contractor.
33

34 **1-07.18(5)A Commercial General Liability**

35 Commercial General Liability insurance shall be written on coverage forms at least as broad
36 as ISO occurrence form CG 00 01, including but not limited to liability arising from premises,
37 operations, stop gap liability, independent contractors, products-completed operations,
38 personal and advertising injury, and liability assumed under an insured contract. There shall
39 be no exclusion for liability arising from explosion, collapse or underground property
40 damage.
41

42 The Commercial General Liability insurance shall be endorsed to provide a per project
43 general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.
44

45 Contractor shall maintain Commercial General Liability Insurance arising out of the
46 Contractor's completed operations for at least three years following Substantial Completion
47 of the Work.
48

49 Such policy must provide the following minimum limits:

50 \$1,000,000 Each Occurrence

1	\$2,000,000	General Aggregate
2	\$2,000,000	Products & Completed Operations Aggregate
3	\$1,000,000	Personal & Advertising Injury each offence
4	\$1,000,000	Stop Gap / Employers' Liability each accident

5

6 **1-07.18(5)B Automobile Liability**

7 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be
 8 written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the
 9 transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48
 10 endorsements.

11

12 Such policy must provide the following minimum limit:

13 \$1,000,000 Combined single limit each accident

14

15 **1-07.18(5)C Workers' Compensation**

16 The Contractor shall comply with Workers' Compensation coverage as required by the
 17 Industrial Insurance laws of the State of Washington.

18

19 **Prosecution and Progress**

20

21 Add the following new section:

22

23 **1-08.0(2) Hours of Work**

24

25 (*****)

26 All working hours and days are subject to local permit and ordinance conditions (such as
 27 noise ordinances).

28

29 The maximum hours of operation for this pits were established through the State
 30 Environmental Policy Act (SEPA) process.

31

32 Unless otherwise approved by the Engineer, the Contractor shall abide by the following
 33 maximum hours of operation for each pit.

34

35

36 Greenacres Pit – 7:00am to 7:00pm, (Monday through Friday)

37

38 During the contract period, the Contractor shall be charged one full working day for each
 39 day of the work week (Monday through Friday), regardless of the actual hours of work
 40 performed within the restrictions noted above.

41

42 Section 1-08.5 of the standard Specifications apply.

43

44

45

46 **Progress Schedule**

47

48 Section 1-08.3(1) is changed to the following:

49

50 (*****)

The first paragraph is deleted.

1 The second paragraph is revised to read as follows:
2
3 The progress schedule is required to be submitted to the Engineer at least two (2) working
4 days prior to the preconstruction conference. This schedule and any supplemental
5 schedule shall show: (1) physical completion of all work within the specified contract time.
6 (2) the purposed order of work, and (3) projected starting and completion times for major
7 phases of the work and for the total project.
8
9 The Contractor shall use a critical path diagram, bar graph, or similar type method to
10 develop the schedule.
11
12 The Contractor shall provide both paper and electronic copies of the schedule when
13 requested.
14
15 The third paragraph is deleted.

19 **Prosecution of Work**

20
21 The first sentence of Section 1-08.4 is revised to read:
22
23 (*****)
24 The Contractor shall begin work as soon as weather permits, unless otherwise approved
25 by the Engineer.
26
27 All work shall be completed no later than **November 1st, 2019**.

29 **Time for Completion**

30
31 The third paragraph of Section 1-08.5 is revised to read:
32
33 (*****)
34 Contract time shall begin on the first working day. The first working day shall be no
35 later than **September 9th, 2019**, unless otherwise approved by the Engineer.
36
37 Section 1-08.5 is supplemented with the following:
38
39 (March 13, 1995)
40 This project shall be physically completed within **forty (40)** working days

42 **Measurement and Payment**

44 **Weighing Equipment**

46 ***General Requirements for Weighing Equipment***

47
48 Section 1-09.2(1) is revised to read as follows:
49
50 (January 3, 2011)
51 Unless otherwise specified any highway or bridge construction materials to be
52 proportioned or measured and paid for by weight, shall be weighed on scales. The

1 Contractor shall provide, set up, operate and maintain the scales necessary to
2 perform the weighing or shall designate permanently installed, certified commercial
3 scales for the purpose. Each truck to be weighed shall bear a unique identification
4 number. This number shall be legible and in plain view of both the scale operator and
5 the person receiving the material at the jobsite.
6

7 Scales provided or designated by the Contractor shall be accurate to within one-half
8 of one percent of the correct weight throughout the range of use. If platform scales
9 are used, each platform scale shall be able to weigh the entire hauling vehicle or
10 combination of connected vehicles at one time. No part of the vehicle or vehicle
11 combination will be permitted off the platform as it is weighed.
12

13 An agent of the scale manufacturer shall test and service any scale before its use at
14 each new site and then at 6-month intervals. The Contractor shall provide the
15 Engineer a copy of the final results after each test.
16

17 All initial weighing at the dispatch site or at another site approved by the Engineer
18 shall be performed by a Contractor employee or by another person designated by
19 the Contractor. The designated weigher shall prepare a weigh or load ticket to
20 accompany each load. Each ticket shall contain the truck identification number, the
21 date and time of weighing the load, a description of the material being weighed and
22 the signature or initials of the weigher.
23

24 Each weigh or load ticket shall also contain a determination of the net weight of the
25 load. This shall be a reading from any device which weighs as material is loaded or
26 a calculation including gross weight and tare weight when the method of loading does
27 not include weighing. It shall also identify the weighed material. When used, tare
28 weights shall be taken of each hauling vehicle at least once each day. The ticket
29 shall be provided to the inspector at the jobsite immediately after the material is
30 delivered. A record of each day's tare weights shall be furnished to the Engineer daily
31 using Form 422-027 EF, or on an alternate form approved by the Engineer.
32

33 The vehicle operator shall deliver the ticket to the material receiver at the material
34 delivery point. The material delivery point is defined as the location where the
35 material is incorporated into the permanent work.
36

37 Except as noted below, all weighing shall be subject to confirmation testing through
38 random checks made with a second, separate scale. The secondary scale shall be
39 described in the contract provisions, either as a designated independent commercial
40 scale or as a platform scale installed by the Contractor at a location named in the
41 provisions. The inspector will select loaded trucks at random and weigh them with
42 the secondary scale. The same trucks will be weighed empty when the tested load
43 has been delivered.
44

45 The frequency of confirmation testing will be such that at least one test weekly is
46 performed for each weighed contract item of work being performed during that week.
47 Confirmation testing will not be routinely conducted for small quantities of weighed
48 material. A small quantity shall be defined as one who's estimated proposal quantity,
49 multiplied by its unit price, has a value of less than \$20,000. The inspector may
50 choose to apply confirmation testing to a minor quantity item if, in the inspector's
51 judgment, there is reason to suspect that the ticket weight might be incorrect.
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Specific Requirements for Batching and Hopper Scales

(August 6, 2001)
Section 1-09.2(2) is deleted.

Specific Requirements for Platform Scales

(August 6, 2001)
Section 1-09.2(3) is deleted.

Measurement

Section 1-09.2(5) is revised to read as follows:

(January 3, 2011)
If confirmation testing shows the initial scale has been underweighing, the on-site representative of the Contractor shall be notified. The Contractor shall not be compensated for any loss from underweighing.

If the initial scale has been overweighing, the on-site representative of the Contractor shall be notified and the Contracting Agency will calculate a price adjustment as follows:

The combined weight of all materials weighed after the last test showing accurate results through the load preceding the next confirmation test shall be calculated. This combined weight will then be reduced by the percentage of weighing error that exceeds one-half of one percent. If subsequent confirmation tests continue to show overweighing, then the highest correction factor calculated from all tests shall be applied to all loads weighed after the last successful test and before a new confirmation test that shows accurate results.

If the specifications and plans require weight measurement for minor construction items, the Contractor may request permission to convert volume to weight. If the Engineer approves, an agreed factor may be used to make this conversion.

Payment

Section 1-09.2(6) is revised to read as follows:

(January 3, 2011)
Unless otherwise specified, the Contracting Agency will pay for no materials received by weight unless they have been weighed in accordance with the requirements of this section.

Unit contract prices for the various pay items of the project cover all costs related to weighing and proportioning materials for payment. These costs include those for furnishing, installing, certifying, maintaining and operating scales for initial weighing, those for extra haul distance and time involved in complying with confirmation testing requirements, and those for any other related item specified in this section.

Division 2
Earthwork

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2-07 Watering

2-07.2 Vacant
Section 2-07.2 is revised to read:

(*****)
2-07.2 Water Sources and Permits

Water Use Permits

The Contractor shall abide by all requirements of the Washington Department of Ecology in respect to the water permits for sources used on this project.

The Contracting Agency will not pay for the water or the use of these sites. The Contractor shall, at no expense to the Contracting Agency, make all necessary arrangements for obtaining water.

The Contractor shall make arrangements through the water source owner for water use, costs, withdrawal, tank filling, access, and haul roads needed for the delivery of water to the project areas. The Contractor shall leave the areas of water withdrawal clean and free of ruts, mud, debris and litter.

Water sources must be approved by the County prior to use. Proof of water rights granted by the Department of Ecology must be supplied to the County Engineer prior to use. The Contractor shall obtain, at no additional cost to the Contracting Agency, Change Applications for an existing water right holder, temporary permits, or other permits necessary for use of the source.

2-07.3 Construction Requirements
Section 2-07.3 is supplement with the following:

(*****)

The Contractor shall control dust in the delivery and/or crushing operations area, conveyor belts, stockpile sites, and on all haul roads during operations, including roads within the waste areas and stockpile sites. The Contractor shall apply water or shall perform other approved dust control measures whenever dust conditions are present, including weekends and holidays.

Dust control systems must be in place prior to and maintained during operations

When operations result in dust conditions that might, in the opinion of the County Engineer, be detrimental to air quality of adjacent property, or hazardous to public travel on the adjacent public roadways, the Contractor shall increase the dust control measures. In the event of a dispute, the determination of the Engineer or his representative is final. The operations shall be shut down when water is not being supplied to emission points or when the wind is strong enough that best efforts to keep dust from leaving the project area are not effective. The Engineer or designated representative has the right to and will issue a verbal and or written order to stop work when in his opinion the Contractor fails to have adequate dust control.

Precautions shall be taken to prevent fugitive dust from becoming airborne. The plant operator shall maintain and operate the site to minimize emissions. At no time during the

1 operation shall the opacity of any fugitive emission on the job site exceed 10% for more
2 than three minutes in any one-hour.
3 No particulate matter from the job site shall be deposited beyond the property line to
4 interfere with the use and enjoyment of the property upon which the material is deposited.
5 Fugitive dust shall be controlled by watering roads and cleaning around the crusher to
6 prevent the buildup of fine materials.
7
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9

10
11 **Division 3**
12 **Aggregate Production and Acceptance**
13

14 **Production From Quarry and Pit Sites**

15 **Description of Work**

16 Section 3-01.1 shall be supplemented with the following:

17
18 (*****)
19 This contract provides for the manufacture or supply of gravel material. If the
20 Contracting Agency's sources are used for manufacturing gravel material, the work
21 shall include reclamation of the pit sites in accordance with these plans, provisions and
22 the Standard Specifications.

23 The Contractor shall supply or manufacture the gravel materials as shown in the Bid
24 Proposal. Additionally, the Contractor shall supply Special Screened Waste Sand as
25 specified in Section 3-01.3(3) Reject Material. The Contractor shall construct stockpiles
26 in accordance with the specifications and perform required Site Reclamation.
27

28 **State Furnished Material Sources**

29 **3-01.3 Agency Furnished Material Sources**

30 Section 3-01.3 is revised to read:

31
32 (*****)
33 Okanogan County is providing at no cost to the Contractor, the source location for raw
34 material at the following County owned pit site. This location is also displayed on the
35 Vicinity Map. If the Contractor elects to use a separate source for supply this County
36 owned site shall be used for the stockpile location.
37

38 **Greenacres Pit**

39 Located approximately .75 miles southwest of Riverside on Dels Way Road, off of Old
40 Riverside Hwy, in Township 34N, Range 27E W.M., Section 1
41
42
43

1 **Operations Within Pit Sites**
2

3 Upon completion of this crushing campaign, the Contractor shall grade all slopes
4 disturbed as a result of Contractors activity to 3 foot horizontal to 1 foot vertical and shall
5 shape and blend disturbed slopes into adjacent undulating terrain.
6

7 Material stockpiles shall be located as shown on the plans or as field located. The
8 stockpiles shall be constructed so that the top of each stockpile is level and the sides are
9 uniform.
10

11 Reject material shall be placed at a location approved by the engineer so as to not
12 interfere with future development or use of the site.
13

14 The pit site shall be protected from surface water run-off from the pit site and/or run-on
15 into the pit from the surrounding area by creating berms or swales.
16 Adequate provisions shall be made to prevent any surface water from eroding the face of
17 an excavation or fill. All work accomplished according to this specification shall be
18 included in the bid item, "Site Reclamation", Lump Sum.
19

20 It is not mandatory that the Contractor use the source location provided by the Contracting
21 Agency. If the Contractor chooses a different source location the following shall apply:
22

- 23 1. The quantity of material shall be stockpiled at the pit sites identified in these provisions
24 2. The material must meet or exceed the quality of the Contracting Agency furnished
25 source location.
26 3. The Contracting Agency will approve all sources prior to any hauling and stockpiling of
27 material.
28 4. The Contractor shall supply the Contracting Agency with weight tickets for each load
29 hailed.
30

31 In the event the Contractor proposes to provide the aggregate materials from other
32 sources, the Contractor, at no additional cost to the Contracting Agency, shall haul and
33 stockpile the specified quantities, in and to the site identified in these provisions. If the
34 Contractor chooses a different source, belt scales will not be approved. The Contractor's
35 scale shall meet the specifications as described in Section 1-09.2 for platform scales and
36 the Contractor shall provide the Contracting Agency with approved weight tickets.
37

38 **3-01.3(3) Reject Materials**

39 Section 3-01.3(3) is supplemented with the following:
40

41 (*****)

42 **Special Screened Waste Sand**

43 Reject material shall be screened to **contain no particle over 3/8" in any one dimension**
44 and shall be considered Special Screened Waste Sand.
45

46 Special Screened Waste Sand shall be stockpiled in each pit site as shown in the exhibit
47 section of these provisions.
48

49 Special Screened Waste Sand that is hauled from a location other than the County pit sites
50 shall also meet these specifications.
51

52 All Reject Materials over 3/8" in any one dimension shall be stockpiled in the pit site at a

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location designated by the County Engineer.

3-01.5 Measurement

Section 3-01.5 is supplemented with the following:

(*****)
"Special Screened Waste Sand", per ton

3-01.6 Payment

Section 3-01.6 is supplemented with the following:

(*****)
"Special Screened Waste Sand", per ton

The second paragraph of Section 3-01.6 is supplemented with the following:

(June 03, 1996)
If the Contractor elects not to use the Contracting Agency furnished source(s) of material, the following items of work shall not be performed on this project.

*** Site Reclamation ***.

If the Contractor submits unit price(s) in the amount of zero for the above item(s) of work that do not have an estimated amount included in the proposal, the Contracting Agency will accept the Contractor's proposal as being notice of the Contractor's intent not to utilize the Contracting Agency furnished source.

After execution of the contract, should the Contractor decide to utilize the source(s) furnished by the Contracting Agency, the Contractor will be permitted to do so, provided that for those items listed above for which zero has been entered on the proposal, the work required shall be performed at the Contractor's expense.

Stockpiling Aggregates

3-02.2(5) Preparation of Site

Section 3-02.2(5) is supplemented with the following:

(*****)
The Contractor shall prepare a minimum of 0.5 foot thick stockpile base that shall be comprised of the material being manufactured for each stockpile or of such other material as specified by the County. The costs involved in this work shall be included in the various bid items. The Contractor will not be paid separately for the material used to construct the stockpile bases.

Site Reclamation

3-03.5 Payment
Contracting Agency-Provided Sites

Section 3-03.5(1) shall be revised to read:

1 (*****)
 2 All costs in connection with reclaiming sites to the full extent required by these
 3 Special Provisions and the Standard Specifications shall be paid under "Site
 4 Reclamation", Lump Sum.
 5 If the Contractor chooses to use a material source other than the source provided by
 6 the Contracting Agency the bid item "Site Reclamation" will be deleted.
 7
 8

9 **Division 9**
 10 **Materials**

11
 12 **9-03.4(2) Grading and Quality**
 13 Section 9-03.4(2) shall apply, except the table of grading and quality shall be replaced with the
 14 following:
 15

16 (*****)

17 **1/2" SPECIAL CRUSHED COVERSTONE:**

<i>Sieve Size</i>	<i>Percent Passing</i>
% Passing 5/8" square sieve	100%
% Passing 1/2" square sieve	95 to 100%
% Passing 1/4" square sieve	30 to 40%
% Passing U.S. No. 200	0 to 7.5%
% Fracture, by weight, min.	75% minimum
Sand Equivalent	40 minimum
All percentages are by weight	

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(January 7, 2019)
Standard Plans

25 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-
 26 01 transmitted under Publications Transmittal No. PT 16-048, effective August 6, 2018 is made
 27 a part of this contract.
 28

29 The Standard Plans are revised as follows:

30
 31 A-40.10
 32 Section View, PCCP to HMA Longitudinal Joint, callout, was – "Sawed Groove ~ Width
 33 3/16" (IN) MIN. to 5/16" (IN) MAX. ~ Depth 1" (IN) MIN. ~ see Std. Spec. 5-04.3(12)B" is
 34 revised to read; "Sawed Groove ~ Width 3/16" (IN) MIN. to 5/16" (IN) MAX. ~ Depth 1"
 35 (IN) MIN. ~ see Std. Spec. Section 5-04.3(12)A2"
 36 Section View, Transverse Contraction Joint, dimension, was – "D/4" is revised to read:
 37 "D/3 to D/4"
 38

39 A-50.10
 40 Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10
 41

1 A-50.20
2 Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10
3
4 A-50.30
5 Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.1
6
7 B-10.60
8 DELETED
9
10 B-82.20
11 DELETED
12
13 B-90.40
14 Valve Detail - DELETED
15
16 C-2C
17 CASE 9A (typical of 2 callouts): The dimensions were "3'-0" MIN. ~ TO FACE OF
18 GUARDRAIL". are now revised to read "5'-0" MIN ~ TO FACE OF GUARDRAIL".
19
20 C-4b
21 DELETED
22
23 C-4e
24 DELETED
25
26 C-4f
27 Sheet 1, BULLNOSE GRADING PLAN: Slopes shall be not steeper than 10H:1V for the
28 bullnose guardrail system including slopes into the guardrail face to 1 foot behind the
29 guardrail post.
30
31 Sheet 2, POST 1R & 1L, 2R & 2L, 3R TO 8R and 3L TO 8L, 9R TO 12 R and 9L TO 12L
32 elevation view details: Slopes into the guardrail face to 1 foot behind the guardrail post
33 shall not be steeper than 10H:1V.
34
35 Sheet 3, SECTION B, callout – was: "THE NUT SHALL BE ASTM A563D STEEL, AND
36 GALVANIZED ACCORDING TO STANDARD SPEC. 9-16.3(3)." Is revised to read: "THE
37 NUT SHALL BE ASTM A307 STEEL, AND GALVANIZED ACCORDING TO STANDARD
38 SPEC. 9-16.3(3)."
39
40 C-20.14
41 CASE 3-31: The dimension was "5'-0" MIN" from the back of guardrail to the center of
42 railroad signal support is now revised to "5'-0" MIN" from face of guardrail to the front
43 edge of the railroad signal support.
44
45 Note 3, was – "The slope from the edge of the shoulder into the face of the guardrail
46 cannot exceed 10H : 1V when the face of the guardrail is less than 12' – 0" from the edge
47 of the shoulder." is revised to read: "The slope from the edge of the shoulder into the face
48 of the guardrail cannot be steeper than 10H : 1V when the face of the guardrail is less
49 than 12' – 0" from the edge of the shoulder. The slope from the edge of the shoulder into
50 the face of the guardrail cannot be steeper than 6H : 1V when the guardrail is 12' – 0" or
51 more from the edge of the shoulder."
52

1 C-20.18
2 ALL CASES: The dimensions were “3'-0” MIN” from the face of guardrail to the front edge
3 of the fixed feature are now revised to “5'-0” MIN” from the face of guardrail to the front
4 edge of the fixed feature.
5
6 Note 1, was – “The slope from the edge of the shoulder into the face of the guardrail
7 should not exceed 10H : 1V when the guardrail is within 12' – 0” from the edge of the
8 shoulder.” Is revised to read: “The slope from the edge of the shoulder into the face of the
9 guardrail should not be steeper than 10H : 1V when the guardrail is less than 12' – 0”
10 from the edge of the shoulder. The slope from the edge of the shoulder into the face of
11 the guardrail should not be steeper than 6H : 1V when the guardrail is 12' – 0” or more
12 from the edge of shoulder.”
13
14 C-22.14
15 DELETED
16
17 C-22.16
18 Note 3, formula, was: “Elevation G = (Elevation S – D x (0.1) + 31” is revised to read:
19 “Elevation G = (Elevation S – D x (0.1) + 31/12”
20
21 C-22.40
22 PLAN VIEW, MSKT-SP-MGS (TL-3) SHOWN: The dimension was “4'-0” MIN” from the
23 face of the terminal to the edge of the widened embankment is now revised to “4'-0” MIN”
24 from the back of the terminal post to the edge of the widened embankment.
25
26 Elevation View, MSKT-SP-MGS (TL-3), dimension, MSKT-SP-MGS (TL-3) SYSTEM
27 LENGTH = 50' – 0” , dimension is revised to read: 46' – 10 1/2”
28
29 Elevation View, SOFTSTOP (TL-3), dimension, SOFTSTOP (TL-3) SYSTEM
30 LENGTH = 50' – 9 1/2”, dimension is revised to read: 50' – 10 1/2”
31
32 Note 6, was – “...a maximum taper of 25.4 : 1 or flatter is allowed over the system length
33 of 50' – 9 1/2” with a maximum...” is revised to read: “...a maximum taper of 25.44 : 1 or
34 flatter is allowed over the system length of 50' – 10 1/2” with a maximum...”
35
36 C-22.45
37 PLAN VIEW, MSKT-SP-MGS (TL-2) SHOWN: The dimension was “4'-0” MIN” from the
38 face of the terminal to the edge of the widened embankment is now revised to “4'-0” MIN”
39 from the back of the terminal post to the edge of the widened embankment.
40
41
42 Elevation View, MSKT-SP-MGS (TL-2), dimension, MSKT-SP-MGS (TL-2) SYSTEM
43 LENGTH = 25' – 0”, dimension is revised to read 34' – 4 1/2”
44
45 Elevation View, SOFTSTOP (TL-2), dimension, SOFTSTOP (TL-2) SYSTEM
46 LENGTH = 38' – 3 1/2”, dimension is revised to read 38' – 4 1/2”
47
48 Note 6, was – “...flare of 38.29 : 1 or flatter is allowed over the system length of 38' – 3
49 1/2” with a maximum...” is revised to read: “...flare of 38.38 : 1 or flatter is allowed over the
50 system length of 38' – 4 1/2” with a maximum...”
51
52 C-25.26

1 Elevation View, TYPE 23: The guardrail height dimension was 2'-8" from the top of the
2 thrie beam to the top of the bridge curb is now revised to 2'-8" from the top of the thrie
3 beam to the top of the ground line.
4
5 C-25.80
6 Plan View, callout, was – "12" (IN) BLOCKOUT" is revised to read; "12" (IN) or 8" (IN)
7 BLOCKOUT (12" (IN) SHOWN)"
8 Elevation View, add labels to posts (below view); beginning at left side of view – Label
9 Posts as follows; POST 1, POST 2 through POST 6".
10 General Notes, add Note 6. Note reads as follows; "6. Post 1 shall use an 8 inch blockout,
11 and posts 2 through post 6 shall use 12 inch or 8 inch blockouts."
12
13 C-40.14
14 DELETED
15
16 C-90.10
17 DELETED
18
19 D-10.10
20 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
21 barriers attached on top of the wall are considered non-standard and shall be designed
22 in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions
23 stated in the 11/3/15 Bridge Design memorandum.
24
25 D-10.15
26 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
27 barriers attached on top of the wall are considered non-standard and shall be designed
28 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
29 Bridge Design memorandum.
30
31 D-10.20
32 Wall Type 3 may be used in all cases. The last sentence of Note 6 on Wall Type 3 shall
33 be revised to read: The seismic design of these walls has been completed using a site
34 adjusted (effective) peak ground acceleration of 0.32g.
35
36 D-10.25
37 Wall Type 4 may be used in all cases. The last sentence of Note 6 on Wall Type 4 shall
38 be revised to read: The seismic design of these walls has been completed using a site
39 adjusted (effective) peak ground acceleration of 0.32g.
40
41 D-10.30
42 Wall Type 5 may be used in all cases.
43
44 D-10.35
45 Wall Type 6 may be used in all cases.
46
47 D-10.40
48 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
49 barriers attached on top of the wall are considered non-standard and shall be designed
50 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
51 Bridge Design memorandum.
52

1 D-10.45
2 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
3 barriers attached on top of the wall are considered non-standard and shall be designed
4 in accordance with the current WSDOT BDM and the revisions stated in the revisions
5 stated in the 11/3/15 Bridge Design memorandum.
6
7 D-15.10
8 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
9 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
10 in place of these STD Plans.
11
12 D-15.20
13 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
14 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
15 in place of these STD Plans.
16
17 D-15.30
18 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
19 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
20 in place of these STD Plans.
21
22 F-10.12
23 Section Title, was – "Depressed Curb Section" is revised to read: "Depressed Curb and
24 Gutter Section"
25
26 F-10.40
27 "EXTRUDED CURB AT CUT SLOPE", Section detail - Deleted
28
29 F-10.42
30 DELETE – "Extruded Curb at Cut Slope" View
31
32 H-70.20
33 Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is
34 revised to H-70.10
35
36 I-30.30
37 8" Diameter Wattle Spacing Table, lower left corner, was – "Slope:1H : 1V, Maximum
38 Spacing:10' – 0" is revised to read: "Slope:1H : 1V, Maximum Spacing:8' – 0"
39
40 J-10.21
41 Note 18, was – "When service cabinet is installed within right of way fence, see Standard
42 Plan J-10.22 for details." Is revised to read; "When service cabinet is installed within right
43 of way fence, or the meter base is mounted on the exterior of the cabinet, see Standard
44 Plan J-10.22 for details."
45
46 J-10.22
47 Key Note 1, was – "Meter base per serving utility requirements~ as a minimum, the meter
48 base shall be safety socket box with factory-installed test bypass facility that meets the
49 requirements of EUSERC drawing 305." Is revised to read; "Meter base per serving utility
50 requirements~ as a minimum, the meter base shall be safety socket box with factory-
51 installed test bypass facility that meets the requirements of EUSERC drawing 305. When

1 the utility requires meter base to be mounted on the side or back of the service cabinet,
2 the meter base enclosure shall be fabricated from type 304 stainless steel.”
3 Key Note 4, “Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt “T”
4 rated). Is revised to read: “Test Switch (SPDT snap action, positive close 15 amp –
5 120/277 volt “T” rated).”
6 Key Note 14, was – “Hinged dead front with ¼ turn fasteners or slide latch.” Is revised to
7 read; “Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts
8 shall not extend into the vertical limits of the breaker array(s).”
9 Key Note 15, was – “Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper.
10 See Cabinet Main bonding Jumper detail, Standard Plan J-3b.” is revised to read;
11 “Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See
12 Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details.”
13 Note 1, was – “...socket box mounting detail, see Standard Plan J-3b.” is revised to read
14 to read: “...socket box mounting detail, see Standard Plan J-10.20.”
15 Note 6, was – “...See door hinge detail, Standard Plan J-3b.” is revised to read: “...See
16 door hinge detail, Standard Plan J-10.20.”
17
18 J-20.10
19 Add Note 5, “5. One accessible pedestrian signal assembly per pedestrian pushbutton
20 post.”
21
22 J-20.11
23 Sheet 2, Foundation Detail, Elevation, callout – “Type 1 Signal Pole” is revised to read:
24 “Type PS or Type 1 Signal Pole”
25 Sheet 2, Foundation Detail, Elevation, add note below Title, “(Type 1 Signal Pole Shown)”
26 Add Note 6, “6. One accessible pedestrian signal assembly per pedestrian pushbutton
27 post.”
28
29 J-20.26
30 Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton
31 post.”
32
33 J-20.16
34 View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE
35
36 J-21.10
37 Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – “ANCHOR BOLTS
38 ~ ¾” (IN) x 30” (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY” IS REVISED TO
39 READ: “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ FOUR REQ'D. PER
40 ASSEMBLY”
41 Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top
42 of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR.. Delete “(TYP.)” from
43 the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find
44 2 # 4 reinf. Bar.
45 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top
46 of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from
47 the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find
48 1 # 4 reinf. Bar.
49 Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top
50 of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from
51 the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find
52 2 # 4 reinf. Bar.

1 Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top
 2 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
 3 the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
 4 1 # 4 reinf. Bar.
 5 Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping
 6 Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam.
 7 Torque Clamping Bolts (see Note 1)"
 8 Detail F, callout, "3/4" (IN) x 2' - 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is
 9 revised to read; "3/4" (IN) x 2' - 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"

10
 11 J-21.15
 12 Partial View, callout, was - LOCK NIPPLE ~ 1 1/2" DIAM., is revised to read; CHASE
 13 NIPPLE ~ 1 1/2" (IN) DIAM.

14
 15 J-21.16
 16 Detail A, callout, was - LOCKNIPPLE, is revised to read; CHASE NIPPLE

17
 18 J-22.15
 19 Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"
 20 (2x) Detail A, callout, was - LOCK NIPPLE ~ 1 1/2" DIAM. is revised to read; CHASE
 21 NIPPLE ~ 1 1/2" (IN) DIAM.

22
 23 J-40.10
 24 Sheet 2 of 2, Detail F, callout, "12 - 13 x 1 1/2" S.S. PENTA HEAD BOLT AND 12" S. S.
 25 FLAT WASHER" is revised to read; "12 - 13 x 1 1/2" S.S. PENTA HEAD BOLT AND 1/2"
 26 (IN) S. S. FLAT WASHER"

27
 28 J-60.14
 29 All references to J-16b (6x) are revised to read; J-60.11

30
 31 K-80.30
 32 In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan
 33 K-80.35
 34 Plan Title, was "ALTERNATIVE TEMPORARY CONC. BARRIER (F-SHAPE)" is revised
 35 to read: "CONCRETE BARRIER TYPE F"

36
 37 The following are the Standard Plan numbers applicable at the time this project was
 38 advertised. The date shown with each plan number is the publication approval date
 39 shown in the lower right-hand corner of that plan. Standard Plans showing different dates
 40 shall not be used in this contract.

41

A-10.10-00.....8/7/07	A-40.00-00.....8/11/09	A-50.30-00.....11/17/08
A-10.20-00.....10/5/07	A-40.10-03.....12/23/14	A-50.40-00.....11/17/08
A-10.30-00.....10/5/07	A-40.15-00.....8/11/09	A-60.10-03.....12/23/14
A-20.10-00.....8/31/07	A-40.20-04.....1/18/17	A-60.20-03.....12/23/14
A-30.10-00.....11/8/07	A-40.50-02.....12/23/14	A-60.30-01.....6/28/18
A-30.30-01.....6/16/11	A-50.10-00.....11/17/08	A-60.40-00.....8/31/07
A-30.35-00.....10/12/07	A-50.20-01.....9/22/09	

42

B-5.20-02.....1/26/17	B-30.50-03.....2/27/18	B-75.20-02.....2/27/18
B-5.40-02.....1/26/17	B-30.70-04.....2/27/18	B-75.50-01.....6/10/08
B-5.60-02.....1/26/17	B-30.80-01.....2/27/18	B-75.60-00.....6/8/06

B-10.20-02.....3/2/18	B-30.90-02.....1/26/17	B-80.20-00.....6/8/06
B-10.40-01.....1/26/17	B-35.20-00.....6/8/06	B-80.40-00.....6/1/06
B-10.70-00.....1/26/17	B-35.40-00.....6/8/06	B-85.10-01.....6/10/08
B-15.20-01.....2/7/12	B-40.20-00.....6/1/06	B-85.20-00.....6/1/06
B-15.40-01.....2/7/12	B-40.40-02.....1/26/17	B-85.30-00.....6/1/06
B-15.60-02.....1/26/17	B-45.20-01.....7/11/17	B-85.40-00.....6/8/06
B-20.20-02.....3/16/12	B-45.40-01.....7/21/17	B-85.50-01.....6/10/08
B-20.40-04.....2/27/18	B-50.20-00.....6/1/06	B-90.10-00.....6/8/06
B-20.60-03.....3/15/12	B-55.20-02.....2/27/18	B-90.20-00.....6/8/06
B-25.20-02.....2/27/18	B-60.20-01.....6/28/18	B-90.30-00.....6/8/06
B-25.60-02.....2/27/18	B-60.40-01.....2/27/18	B-90.40-01.....1/26/17
B-30.10-03.....2/27/18	B-65.20-01.....4/26/12	B-90.50-00.....6/8/06
B-30.15-00.....2/27/18	B-65.40-00.....6/1/06	B-95.20-01.....2/3/09
B-30.20-04.....2/27/18	B-70.20-00.....6/1/06	B-95.40-01.....6/28/18
B-30.30-03.....2/27/18	B-70.60-01.....1/26/17	
B-30.40-03.....2/27/18		

1

C-1.....6/28/18	C-20.15-02.....6/11/14	C-40.18-03.....7/21/17
C-1a.....7/14/15	C-20.18-02.....6/11/14	C-70.10-01.....6/17/14
C-1b.....7/14/15	C-20.19-02.....6/11/14	C-75.10-01.....6/11/14
C-1d.....10/31/03	C-20.40-06.....7/21/17	C-75.20-01.....6/11/14
C-2c.....6/21/06	C-20.41-01.....7/14/15	C-75.30-01.....6/11/14
C-4f.....7/2/12	C-20.42-05.....7/14/15	C-80.10-01.....6/11/14
C-6a.....10/14/09	C-20.45.01.....7/2/12	C-80.20-01.....6/11/14
C-7.....6/16/11	C-22.16-06.....7/21/17	C-80.30-01.....6/11/14
C-7a.....6/16/11	C-22.40-06.....7/21/17	C-80.40-01.....6/11/14
C-8.....2/10/09	C-22.45-03.....7/21/17	C-80.50-00.....4/8/12
C-8a.....7/25/97	C-23.60-04.....7/21/17	C-85.10-00.....4/8/12
C-8b.....2/29/16	C.24.10-01.....6/11/14	C-85.11-00.....4/8/12
C-8e.....2/21/07	C-25.20-06.....7/14/15	C-85.14-01.....6/11/14
C-8f.....6/30/04	C-25.22-05.....7/14/15	C-85.15-01.....6/30/14
C-16a.....7/21/17	C-25.26-03.....7/14/15	C-85.16-01.....6/17/14
C-20.10-04.....7/21/17	C-25.30-00.....6/28/18	C-85.18-01.....6/11/14
C-20.11-00.....7/21/17	C-25.80-04.....7/15/16	C-85.20-01.....6/11/14
C-20.14-03.....6/11/14	C-40.16-02.....7/2/12	

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D-2.04-00.....11/10/05	D-2.48-00.....11/10/05	D-3.17-02.....5/9/16
D-2.06-01.....1/6/09	D-2.64-01.....1/6/09	D-4.....12/11/98
D-2.08-00.....11/10/05	D-2.66-00.....11/10/05	D-6.....6/19/98
D-2.14-00.....11/10/05	D-2.68-00.....11/10/05	D-10.10-01.....12/2/08
D-2.16-00.....11/10/05	D-2.80-00.....11/10/05	D-10.15-01.....12/2/08
D-2.18-00.....11/10/05	D-2.82-00.....11/10/05	D-10.20-00.....7/8/08
D-2.20-00.....11/10/05	D-2.84-00.....11/10/05	D-10.25-00.....7/8/08
D-2.32-00.....11/10/05	D-2.86-00.....11/10/05	D-10.30-00.....7/8/08
D-2.34-01.....1/6/09	D-2.88-00.....11/10/05	D-10.35-00.....7/8/08
D-2.36-03.....6/11/14	D-2.92-00.....11/10/05	D-10.40-01.....12/2/08
D-2.42-00.....11/10/05	D-3.09-00.....5/17/12	D-10.45-01.....12/2/08
D-2.44-00.....11/10/05	D-3.10-01.....5/29/13	D-15.10-01.....12/2/08
D-2.60-00.....11/10/05	D-3.11-03.....6/11/14	D-15.20-03.....5/9/16
D-2.62-00.....11/10/05	D-3.15-02.....6/10/13	D-15.30-01.....12/02/08
D-2.46-01.....6/11/14	D-3.16-02.....5/29/13	

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	E-1.....2/21/07	E-4.....8/27/03	
	E-2.....5/29/98	E-4a.....8/27/03	
1	F-10.12-03.....6/11/14	F-10.62-02.....4/22/14	F-40.15-03.....6/29/16
	F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-03.....6/29/16
	F-10.18-01.....7/11/17	F-30.10-03.....6/11/14	F-45.10-02.....7/15/16
	F-10.40-03.....6/29/16	F-40.12-03.....6/29/16	F-80.10-04.....7/15/16
	F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	
2	G-10.10-00.....9/20/07	G-25.10-04.....6/10/13	G-90.10-03.....7/11/17
	G-20.10-02.....6/23/15	G-30.10-04.....6/23/15	G-90.11-00.....4/28/16
	G-22.10-04.....6/28/18	G-50.10-03.....6/28/18	G-90.20-05.....7/11/17
	G-24.10-00.....11/8/07	G-60.10-04.....6/28/18	G-90.30-04.....7/11/17
	G-24.20-01.....2/7/12	G-60.20-02.....6/18/15	G-90.40-02.....4/28/16
	G-24.30-02.....6/28/18	G-60.30-02.....6/18/15	G-95.10-02.....6/28/18
	G-24.40-07.....6/28/18	G-70.10-03.....6/18/15	G-95.20-03.....6/28/18
	G-24.50-04.....7/11/17	G-70.20-04.....7/21/17	G-95.30-03.....6/28/18
	G-24.60-05.....6/28/18	G-70.30-04.....7/21/17	
3	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-01.....2/7/12
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-01.....2/16/12
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	H-70.30-02.....2/7/12
4	I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
	I-30.10-02.....3/22/13	I-30.30-01.....6/10/13	I-50.20-01.....6/10/13
	I-30.15-02.....3/22/13	I-30.40-01.....6/10/13	I-60.10-01.....6/10/13
	I-30.16-00.....3/22/13	I-30.60-01.....3/7/18	I-60.20-01.....6/10/13
	I-30.17-00.....3/22/13	I-40.10-00.....9/20/07	I-80.10-02.....7/15/16
5	J-10.....7/18/97	J-28.22-00.....8/07/07	J-50.25-00.....6/3/11
	J-10.10-03.....6/3/15	J-28.24-01.....6/3/15	J-50.30-00.....6/3/11
	J-10.15-01.....6/11/14	J-28.26-01.....12/02/08	J-60.05-01.....7/21/16
	J-10.16-00.....6/3/15	J-28.30-03.....6/11/14	J-60.11-00.....5/20/13
	J-10.17-00.....6/3/15	J-28.40-02.....6/11/14	J-60.12-00.....5/20/13
	J-10.18-00.....6/3/15	J-28.42-01.....6/11/14	J-60.13-00.....6/16/10
	J-10.20-01.....6/1/16	J-28.43-01.....6/28/18	J-60.14-00.....6/16/10
	J-10.21-00.....6/3/15	J-28.45-03.....7/21/16	J-75.10-02.....7/10/15
	J-10.22-00.....5/29/13	J-28.50-03.....7/21/16	J-75.20-01.....7/10/15
	J-10.25-00.....7/11/17	J-28.60-02.....7/21/16	J-75.30-02.....7/10/15
	J-12.15-00.....6/28/18	J-28.70-03.....7/21/17	J-75.40-02.....6/1/16
	J-12.16-00.....6/28/18	J-29.10-01.....7/21/16	J-75.41-01.....6/29/16
	J-15.10-01.....6/11/14	J-29.15-01.....7/21/16	J-75.45-02.....6/1/16
	J-15.15-02.....7/10/15	J-29.16-02.....7/21/16	J-80.10-00.....6/28/18
	J-20.10-03.....6/30/14	J-30.10-00.....6/18/15	J-80.15-00.....6/28/18
	J-20.11-02.....6/30/14	J-40.05-00.....7/21/16	J-81.10-00.....6/28/18
	J-20.15-03.....6/30/14	J-40.10-04.....4/28/16	J-86.10-00.....6/28/18
	J-20.16-02.....6/30/14	J-40.20-03.....4/28/16	J-90.10-03.....6/28/18
	J-20.20-02.....5/20/13	J-40.30-04.....4/28/16	J-90.20-03.....6/28/18
	J-20.26-01.....7/12/12	J-40.35-01.....5/29/13	J-90.21-02.....6/28/18
	J-21.10-04.....6/30/14	J-40.36-02.....7/21/17	J-90.50-00.....6/28/18
	J-21.15-01.....6/10/13	J-40.37-02.....7/21/17	
	J-21.16-01.....6/10/13	J-40.38-01.....5/20/13	

J-21.17-01.....6/10/13	J-40.39-00.....5/20/13
J-21.20-01.....6/10/13	J-40.40-01.....4/28/16
J-22.15-02.....7/10/15	J-45.36-00.....7/21/17
J-22.16-03.....7/10/15	J-50.05-00.....7/21/17
J-26.10-03.....7/21/16	J-50.10-00.....6/3/11
J-26.15-01.....5/17/12	J-50.11-01.....7/21/17
J-26.20-01.....6/28/18	J-50.12-01.....7/21/17
J-27.10-01.....7/21/16	J-50.15-01.....7/21/17
J-27.15-00.....3/15/12	J-50.16-01.....3/22/13
J-28.10-01.....5/11/11	J-50.20-00.....6/3/11

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K-70.20-01.....6/1/16
 K-80.10-01.....6/1/16
 K-80.20-00.....12/20/06
 K-80.30-00.....2/21/07
 K-80.35-00.....2/21/07
 K-80.37-00.....2/21/07

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L-10.10-02.....6/21/12	L-40.10-02.....6/21/12	L-70.10-01.....5/21/08
L-20.10-03.....7/14/15	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
L-30.10-02.....6/11/14	L-40.20-02.....6/21/12	

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M-1.20-03.....6/24/14	M-12.10-01.....6/28/18	M-40.10-03.....6/24/14
M-1.40-02.....6/3/11	M-15.10-01.....2/6/07	M-40.20-00...10/12/07
M-1.60-02.....6/3/11	M-17.10-02.....7/3/08	M-40.30-01.....7/11/17
M-1.80-03.....6/3/11	M-20.10-02.....6/3/11	M-40.40-00.....9/20/07
M-2.20-03.....7/10/15	M-20.20-02.....4/20/15	M-40.50-00.....9/20/07
M-2.21-00.....7/10/15	M-20.30-04.....2/29/16	M-40.60-00.....9/20/07
M-3.10-03.....6/3/11	M-20.40-03.....6/24/14	M-60.10-01.....6/3/11
M-3.20-02.....6/3/11	M-20.50-02.....6/3/11	M-60.20-02.....6/27/11
M-3.30-03.....6/3/11	M-24.20-02.....4/20/15	M-65.10-02.....5/11/11
M-3.40-03.....6/3/11	M-24.40-02.....4/20/15	M-80.10-01.....6/3/11
M-3.50-02.....6/3/11	M-24.50-00.....6/16/11	M-80.20-00.....6/10/08
M-5.10-02.....6/3/11	M-24.60-04.....6/24/14	M-80.30-00.....6/10/08
M-7.50-01.....1/30/07	M-24.65-00.....7/11/17	
M-9.50-02.....6/24/14	M-24.66-00.....7/11/17	
M-9.60-00.....2/10/09		
M-11.10-02.....7/11/17		

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**WASHINGTON STATE
PREVAILING WAGE RATES
SECTION**

State of Washington
 Department of Labor & Industries
 Prevailing Wage Section - Telephone 360-902-5335
 PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 03/26/2019

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Okanogan	Asbestos Abatement Workers	Journey Level	\$38.16	5D	1H	
Okanogan	Boilermakers	Journey Level	\$66.54	5N	1C	
Okanogan	Brick Mason	Journey Level	\$49.04	5A	1M	
Okanogan	Building Service Employees	Janitor	\$12.00		1	
Okanogan	Building Service Employees	Shampooer	\$12.00		1	
Okanogan	Building Service Employees	Waxer	\$12.00		1	
Okanogan	Building Service Employees	Window Cleaner	\$12.00		1	
Okanogan	Cabinet Makers (In Shop)	Journey Level	\$12.00		1	
Okanogan	Carpenters	Bridge, Dock And Wharf Carpenters	\$57.85	5D	4C	
Okanogan	Carpenters	Carpenter	\$45.11	5A	1B	8N
Okanogan	Carpenters	Floor Finisher	\$45.11	5A	1B	8N
Okanogan	Carpenters	Floor Layer	\$45.11	5A	1B	8N
Okanogan	Carpenters	Form Builder	\$45.11	5A	1B	8N
Okanogan	Carpenters	Scaffold Erecting & Dismantling	\$49.80	5A	1B	
Okanogan	Cement Masons	Journey Level	\$43.20	7B	1N	
Okanogan	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$113.60	5D	4C	
Okanogan	Divers & Tenders	Dive Supervisor/Master	\$76.33	5D	4C	
Okanogan	Divers & Tenders	Diver	\$113.60	5D	4C	8V
Okanogan	Divers & Tenders	Diver On Standby	\$71.33	5D	4C	
Okanogan	Divers & Tenders	Diver Tender	\$64.71	5D	4C	
Okanogan	Divers & Tenders	Manifold Operator	\$64.71	5D	4C	
Okanogan	Divers & Tenders	Manifold Operator Mixed Gas	\$69.71	5D	4C	
Okanogan	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$64.71	5D	4C	
Okanogan	Divers & Tenders	Remote Operated Vehicle Tender	\$60.29	5A	4C	
Okanogan	Dredge Workers	Assistant Engineer	\$56.44	5D	3F	

Okanogan	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
Okanogan	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Okanogan	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Okanogan	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Okanogan	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Okanogan	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Okanogan	Drywall Applicator	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Drywall Tapers	Journey Level	\$40.10	<u>7E</u>	<u>1P</u>	
Okanogan	Electrical Fixture Maintenance Workers	Journey Level	\$12.00		<u>1</u>	
Okanogan	Electricians - Inside	Cable Splicer	\$68.69	<u>7H</u>	<u>1E</u>	
Okanogan	Electricians - Inside	Construction Stock Person	\$34.97	<u>7H</u>	<u>1D</u>	
Okanogan	Electricians - Inside	Journey Level	\$64.31	<u>7H</u>	<u>1E</u>	
Okanogan	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>	
Okanogan	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>	
Okanogan	Electricians - Powerline Construction	Cable Splicer	\$79.60	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Certified Line Welder	\$72.98	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Groundperson	\$47.94	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$72.98	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Journey Level Lineperson	\$72.98	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Line Equipment Operator	\$62.06	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Meter Installer	\$47.94	<u>5A</u>	<u>4D</u>	<u>8W</u>
Okanogan	Electricians - Powerline Construction	Pole Sprayer	\$72.98	<u>5A</u>	<u>4D</u>	
Okanogan	Electricians - Powerline Construction	Powderperson	\$54.55	<u>5A</u>	<u>4D</u>	
Okanogan	Electronic Technicians	Electronic Technicians Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Okanogan	Elevator Constructors	Mechanic	\$94.22	<u>7D</u>	<u>4A</u>	
Okanogan	Elevator Constructors	Mechanic In Charge	\$101.73	<u>7D</u>	<u>4A</u>	
Okanogan	Fabricated Precast Concrete Products	Journey Level	\$12.00		<u>1</u>	
Okanogan	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$12.00		<u>1</u>	
Okanogan	Fence Erectors	Fence Erector	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Fence Erectors	Fence Laborer	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Flagger	Journey Level	\$37.19	<u>7B</u>	<u>1M</u>	
Okanogan	Glaziers	Journey Level	\$30.59	<u>7L</u>	<u>4L</u>	
Okanogan	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$73.58	<u>5J</u>	<u>4H</u>	
Okanogan	Heating Equipment Mechanics	Journey Level	\$54.61	<u>6Z</u>	<u>1B</u>	

Okanogan	Hod Carriers & Mason Tenders	Journey Level	\$40.54	<u>7B</u>	<u>1M</u>	
Okanogan	Industrial Power Vacuum Cleaner	Journey Level	\$12.00		<u>1</u>	
Okanogan	Inland Boatmen	Journey Level	\$12.00		<u>1</u>	
Okanogan	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$14.11		<u>1</u>	
Okanogan	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$12.00		<u>1</u>	
Okanogan	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$17.71		<u>1</u>	
Okanogan	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$14.21		<u>1</u>	
Okanogan	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$17.71		<u>1</u>	
Okanogan	Insulation Applicators	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Ironworkers	Journeyman	\$61.21	<u>7N</u>	<u>1O</u>	
Okanogan	Laborers	Air And Hydraulic Track Drill	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Asphalt Raker	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Asphalt Roller, Walking	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Brick Pavers	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Brush Hog Feeder	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Brush Machine	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Caisson Worker, Free Air	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Carpenter Tender	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Cement Finisher Tender	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Cement Handler	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Chain Saw Operator & Faller	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Clean-up Laborer	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Compaction Equipment	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Concrete Crewman	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Concrete Saw, Walking	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Concrete Signalman	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Concrete Stack	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Confined Space Attendant	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Crusher Feeder	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Demolition	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Demolition Torch	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Dope Pot Fireman, Non-mechanical	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Driller Helper (when Required To Move & Position Machine)	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Drills With Dual Masts	\$40.11	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Dry Stack Walls	\$39.29	<u>7B</u>	<u>1M</u>	

Okanogan	Laborers	Powderman	\$41.48	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Powderman Helper	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Power Buggy Operator	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Power Tool Operator, Gas, Electric, Pneumatic	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Railroad Power Spiker Or Puller, Dual Mobile	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Remote Equipment Operator	\$40.11	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Remote Equipment Operator (i.e. Compaction And Demolition)	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Rigger/signal Person	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Riprap Person	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Rodder & Spreader	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Sandblast Tailhoseman	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Scaffold Erector, Wood Or Steel	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Stake Jumper	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Structural Mover	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Tailhoseman (water Nozzle)	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Timber Bucker & Faller (by Hand)	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Track Laborer (rr)	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Traffic Control Laborer	\$37.19	<u>7B</u>	<u>1M</u>	<u>8T</u>
Okanogan	Laborers	Traffic Control Supervisor	\$38.19	<u>7B</u>	<u>1M</u>	<u>8S</u>
Okanogan	Laborers	Trencher, Shawnee	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Trenchless Technology Technician	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Truck Loader	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Tugger Operator	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Vibrators, All	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Wagon Drills	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Water Pipe Liner	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Welder, Electric, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	\$40.11	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Well-point Person	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers	Wheelbarrow, Power Driven	\$39.56	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers - Underground Sewer & Water	General Laborer & Topman	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Laborers - Underground Sewer & Water	Pipe Layer	\$39.83	<u>7B</u>	<u>1M</u>	
Okanogan	Landscape Construction	Landscape Laborer	\$37.19	<u>7B</u>	<u>1M</u>	<u>8T</u>
Okanogan	Landscape Construction	Landscape Operator	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Lathers	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Marble Setters	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>	

Okanogan	Metal Fabrication (In Shop)	Fitter	\$12.76		<u>1</u>	
Okanogan	Metal Fabrication (In Shop)	Laborer	\$12.00		<u>1</u>	
Okanogan	Metal Fabrication (In Shop)	Machine Operator	\$12.66		<u>1</u>	
Okanogan	Metal Fabrication (In Shop)	Painter	\$12.00		<u>1</u>	
Okanogan	Metal Fabrication (In Shop)	Welder	\$12.76		<u>1</u>	
Okanogan	Millwright	Journey Level	\$64.25	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Modular Buildings	Journey Level	\$12.00		<u>1</u>	
Okanogan	Painters	Journey Level	\$34.65	<u>6Z</u>	<u>1W</u>	
Okanogan	Pile Driver	Journey Level	\$58.10	<u>5D</u>	<u>4C</u>	
Okanogan	Plasterers	Journey Level	\$42.88	<u>7K</u>	<u>1N</u>	
Okanogan	Playground & Park Equipment Installers	Journey Level	\$12.00		<u>1</u>	
Okanogan	Plumbers & Pipefitters	Journey Level	\$80.93	<u>6Z</u>	<u>1Q</u>	
Okanogan	Power Equipment Operators	Asphalt Plant Operators	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Assistant Engineer	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Barrier Machine (zipper)	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Batch Plant Operator: concrete	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Bobcat	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Brooms	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Bump Cutter	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cableways	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Chipper	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Compressor	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Concrete Finish Machine - Laser Screed	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Conveyors	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes friction: 200 tons and over	\$65.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>

Okanogan	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$65.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Crusher	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Deck Engineer/Deck Winches (power)	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Derricks, On Building Work	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Dozers D-9 & Under	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Drilling Machine	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Gradechecker/Stakeman	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Guardrail Punch	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Horizontal/Directional Drill Locator	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Horizontal/Directional Drill Operator	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Hydralifts/Boom Trucks, 10 Tons And Under	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>

Okanogan	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Scrapers - Concrete & Carry All	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Service Engineers - Equipment	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shotcrete/Gunite Equipment	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Slipform Pavers	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Spreader, Topsider & Screedman	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Subgrader Trimmer	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Tower Bucket Elevators	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$65.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Transporters, All Track Or Truck Type	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Trenching Machines	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Truck Crane Oiler/Driver Under 100 Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Truck Mount Portable Conveyor	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Welder	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Wheel Tractors, Farmall Type	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators	Yo Yo Pay Dozer	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>

	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons				
Okanogan	Power Equipment Operators-Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Crusher	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/Deck Winches (power)	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Gradechecker/Stakeman	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Locator	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Operator	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Hydralifts/Boom Trucks, 10 Tons And Under	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>

Okanogan	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (Elevators And Manlifts), Air Tuggers, Strato	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Rigger and Bellman	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>

Okanogan	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shotcrete/Gunite Equipment	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$64.47	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$65.13	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$65.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan		Trenching Machines	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>

	Power Equipment Operators-Underground Sewer & Water					
Okanogan	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/Driver Under 100 Tons	\$62.77	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Welder	\$63.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$60.04	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$63.27	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$49.96	<u>5A</u>	<u>4A</u>	
Okanogan	Power Line Clearance Tree Trimmers	Spray Person	\$47.37	<u>5A</u>	<u>4A</u>	
Okanogan	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$49.96	<u>5A</u>	<u>4A</u>	
Okanogan	Power Line Clearance Tree Trimmers	Tree Trimmer	\$44.57	<u>5A</u>	<u>4A</u>	
Okanogan	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$33.60	<u>5A</u>	<u>4A</u>	
Okanogan	Refrigeration & Air Conditioning Mechanics	Journey Level	\$80.93	<u>6Z</u>	<u>1Q</u>	
Okanogan	Residential Brick Mason	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>	
Okanogan	Residential Carpenters	Journey Level	\$42.98	<u>5D</u>	<u>4C</u>	
Okanogan	Residential Cement Masons	Journey Level	\$43.20	<u>7B</u>	<u>1N</u>	
Okanogan	Residential Drywall Applicators	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Residential Drywall Tapers	Journey Level	\$40.10	<u>7E</u>	<u>1P</u>	
Okanogan	Residential Electricians	Journey Level	\$29.00	<u>5I</u>	<u>1E</u>	
Okanogan	Residential Glaziers	Journey Level	\$30.59	<u>7L</u>	<u>4L</u>	
Okanogan	Residential Insulation Applicators	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>
Okanogan	Residential Laborers	Journey Level	\$39.29	<u>7B</u>	<u>1M</u>	
Okanogan	Residential Marble Setters	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>	
Okanogan	Residential Painters	Journey Level	\$34.65	<u>6Z</u>	<u>1W</u>	
Okanogan	Residential Plumbers & Pipefitters	Journey Level	\$58.78	<u>6Z</u>	<u>1Q</u>	
Okanogan	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$58.78	<u>6Z</u>	<u>1Q</u>	
Okanogan	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$54.61	<u>5I</u>	<u>1B</u>	
Okanogan	Residential Soft Floor Layers	Journey Level	\$15.51		<u>1</u>	
Okanogan	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$31.19	<u>7J</u>	<u>1R</u>	
Okanogan	Residential Stone Masons	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>	
Okanogan	Residential Terrazzo Workers	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>	

Okanogan	Residential Terrazzo/Tile Finishers	Journey Level	\$34.33	<u>5A</u>	<u>1M</u>	
Okanogan	Residential Tile Setters	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>	
Okanogan	Roofers	Journey Level	\$40.21	<u>5I</u>	<u>1R</u>	
Okanogan	Roofers	Using Irritable Bituminous Materials	\$42.21	<u>5I</u>	<u>1R</u>	
Okanogan	Sheet Metal Workers	Journey Level (Field or Shop)	\$54.61	<u>6Z</u>	<u>1B</u>	
Okanogan	Sign Makers & Installers (Electrical)	Journey Level	\$69.10	<u>7F</u>	<u>1E</u>	
Okanogan	Sign Makers & Installers (Non-Electrical)	Journey Level	\$16.14		<u>1</u>	
Okanogan	Soft Floor Layers	Journey Level	\$15.79		<u>1</u>	
Okanogan	Solar Controls For Windows	Journey Level	\$12.00		<u>1</u>	
Okanogan	Sprinkler Fitters (Fire Protection)	Journey Level	\$56.82	<u>7J</u>	<u>1R</u>	
Okanogan	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>	
Okanogan	Stone Masons	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>	
Okanogan	Street And Parking Lot Sweeper Workers	Journey Level	\$12.00		<u>1</u>	
Okanogan	Surveyors	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Surveyors	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Surveyors	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
Okanogan	Surveyors	Construction Site Surveyor	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Okanogan	Telecommunication Technicians	Telecom Technician Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Okanogan	Telephone Line Construction - Outside	Cable Splicer	\$41.22	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.12	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Installer (Repairer)	\$39.53	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.22	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.41	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.22	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$38.36	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Telephone Lineperson	\$38.36	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Television Groundperson	\$21.92	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.13	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Television System Technician	\$34.68	<u>5A</u>	<u>2B</u>	

Okanogan	Telephone Line Construction - Outside	Television Technician	\$31.18	<u>5A</u>	<u>2B</u>	
Okanogan	Telephone Line Construction - Outside	Tree Trimmer	\$38.36	<u>5A</u>	<u>2B</u>	
Okanogan	Terrazzo Workers	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>	
Okanogan	Tile Setters	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>	
Okanogan	Tile, Marble & Terrazzo Finishers	Journey Level	\$34.33	<u>5A</u>	<u>1M</u>	
Okanogan	Traffic Control Stripers	Journey Level	\$46.23	<u>7A</u>	<u>1K</u>	
Okanogan	Truck Drivers	Asphalt Mix Over 20 Yards	\$44.69	<u>5D</u>	<u>1V</u>	<u>8M</u>
Okanogan	Truck Drivers	Asphalt Mix To 20 Yards	\$44.52	<u>5D</u>	<u>1V</u>	<u>8M</u>
Okanogan	Truck Drivers	Dump Truck	\$44.52	<u>5D</u>	<u>1V</u>	<u>8M</u>
Okanogan	Truck Drivers	Dump Truck & Trailer	\$44.69	<u>5D</u>	<u>1V</u>	<u>8M</u>
Okanogan	Truck Drivers	Other Trucks	\$44.41	<u>5D</u>	<u>1V</u>	<u>8M</u>
Okanogan	Truck Drivers - Ready Mix	Journey Level	\$17.86		<u>1</u>	
Okanogan	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$12.00		<u>1</u>	
Okanogan	Well Drillers & Irrigation Pump Installers	Oiler	\$12.00		<u>1</u>	
Okanogan	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.00		<u>1</u>	

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Overtime Codes Continued

3.
 - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
 - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
 - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

- I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

- K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

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4. L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.
- M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.
- N. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.
- O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.
- P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.
- Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- R. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- S. All hours worked on Saturdays and Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.
- T. The first two (2) hours of overtime for hours worked Monday-Friday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.
- U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).

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Holiday Codes Continued

- 5. C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- 6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-

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Day On Christmas Eve Day. (9 1/2).

Holiday Codes Continued

6. G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

7. H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

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Holiday Codes Continued

7. T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.
- Z. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8) Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)
- C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)
- D. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.

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Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.

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Note Codes Continued

8. V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.

- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

- X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.

When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

APPENDIX A

VICINITY MAP

COUNTY PIT STOCKPILE LAYOUT

