


Agenda Summary Report (ASR)

Franklin County Board of Commissioners

DATE SUBMITTED: August 26, 2019	PREPARED BY: Kathleen Neuman, Associate Engineer
Meeting Date Requested: September 10, 2019	PRESENTED BY: Craig Erdman, PE, County Engineer 
ITEM: (Select One) <input checked="" type="checkbox"/> Consent Agenda <input type="checkbox"/> Brought Before the Board Time needed:	
SUBJECT: Resolution and execute the contract provisions and plans for County Road Project (CRP) 618 / Safety - Rumble Strips to Construction Ahead dba Pavement Surface Control of Kennewick, Washington.	
FISCAL IMPACT: Franklin County has obligated \$114,000 of FHWA Highway – Safety Improvement Program (HSIP) grant funds for the construction phase of this project. This phase is 100% funded with grant funds. Any non-eligible expenditures will be funded through 595.12 – Construction Engineering.	
BACKGROUND: August 13 th , the Board of County Commissioners awarded the contract to Construction Ahead dba Pavement Surface Control (PSC) in the amount of \$55,440. PSC has submitted the appropriate insurance forms, performance bond, and payment bond for this contract. Public Works is prepared to execute the contract for the Safety – Rumble Strips project.	
RECOMMENDATION: Approve attached resolution and execute the contract for the construction of CRP 618 – Safety – Rumble Strips project.	
COORDINATION: This agenda item was prepared under the supervision of Craig Erdman, County Engineer, reviewed by Matt Mahoney, Public Works Director, Keith Johnson, County Administrator, and WSDOT Local Programs and Jennifer Johnson, Civil Prosecuting Attorney whom has concurred with our recommendation.	
ATTACHMENTS: (Documents you are submitting to the Board) 1. Resolution executing contract (3 originals) 2. Contract Provisions and Plans for CRP 618 – Safety – Rumble Strips (3 originals)	
HANDLING / ROUTING: (Once document is fully executed it will be imported into Document Manager. Please list <u>name(s)</u> of parties that will need a pdf) Please return two (2) original resolution and two (2) signed contracts to Kathleen Neuman, Public Works	

I certify the above information is accurate and complete.



Matt Mahoney, Public Works Director

FRANKLIN COUNTY RESOLUTION _____

**BEFORE THE BOARD OF COMMISSIONERS OF
FRANKLIN COUNTY, WASHINGTON**

***EXECUTING CONTRACT BETWEEN FRANKLIN COUNTY AND
CONSTRUCTION AHEAD dba PAVEMENT SURFACE CONTROL
FOR CRP 618 – SAFETY – RUMBLE STRIPS***

WHEREAS, pursuant to RCW 36.01.010 and RCW 36.32.120 the legislative authority of each county is authorized to enter into contracts on behalf of the County and have the care of County property and management of County funds and business; and

WHEREAS, the Board of Franklin County Commissioners constitutes the legislative authority of Franklin County and desires to enter into attached contract as being in the best interest of Franklin County,

NOW, THEREFORE, BE IT RESOLVED that the attached contract between Franklin County and Construction Ahead dba Pavement Surface Control of Kennewick, Washington for CRP 618 – Safety – Rumble Strips is hereby approved by the Board.

APPROVED this _____ day of September, 2019.

BOARD OF COUNTY COMMISSIONERS
FRANKLIN COUNTY, WASHINGTON

Chairman

Chairman Pro Tem

Member

Attest:

Clerk of the Board

CONTRACT

THIS AGREEMENT, MADE AND ENTERED INTO THIS 3rd day of September, 2019, between the *COUNTY OF FRANKLIN*, acting through the *BOARD OF COUNTY COMMISSIONERS*, under and by virtue of Title 47 RCW as amended, and *CONSTRUCTION AHEAD, INC dba PAVEMENT SURFACE CONTROL* hereinafter called the Contractor.

WITNESSETH, this 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:

- I. The Contractor shall do all work and furnish all tools, materials, and equipment for **CRP 618 / Safety – Rumble Strips**, in accordance with and as described in the attached plans and specifications and the Standard Specifications of the Washington State Department of Transportation, which are by this reference incorporated herein and made part hereof, and shall perform any changes in the work in accord with Contract Documents.

The Contractor shall provide and bear the expense of all equipment, work, and labor 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, except those items mentioned therein to be furnished by the County of Franklin.

- II. The County of Franklin 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 accord with the attached plans, specifications, and 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, in the manner, and upon the conditions provided for in this contract.
- III. 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 required of the Contractor in the contract.
- IV. It is further provided that no liability shall attach the County by reason of entering into this contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Contractor has executed this instrument in the day and year first below written; and the board of County Commissioners has caused this instrument to be executed by and in the name of said County of Franklin the day and year first above written.

Executed by the Contractor

Construction Ahead Inc, dba /
Pavement Surface Control

Date

August 19, 2019

Contractor

BOARD OF COUNTY COMMISSIONERS
Franklin County, Washington

Chairman

Chairman Pro Tem

Member

ATTEST:

Clerk of the Board

Deputy Prosecuting Attorney, Franklin County

CONTRACT

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- III. 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 required of the Contractor in the contract.
- IV. It is further provided that no liability shall attach the County by reason of entering into this contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Contractor has executed this instrument in the day and year first below written; and the board of County Commissioners has caused this instrument to be executed by and in the name of said County of Franklin the day and year first above written.

Executed by the Contractor:

August 19, 2019
Date Constructors Ahead Inc. Inc.
Lawrence-Surface Control
[Signature]
Contractor

BOARD OF COUNTY COMMISSIONERS
Franklin County, Washington

Chairman

Chairman Pro Tem

Member

ATTEST:

Clerk of the Board

Deputy Prosecuting Attorney, Franklin County

**PUBLIC WORKS PAYMENT BOND
to Franklin County, WA**

Bond No. 67S202170

Construction Ahead, Inc.

Franklin County, Washington, (County) has awarded to dba Pavement Surface Control (Principal) a contract for the construction of the project designated as **CRP 618 / Safety - Rumble Strips**, in Franklin County, Washington (Contract), and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principal, and The Ohio Casualty Insurance Company (Surety), a corporation organized under the laws of the State of New Hampshire and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the County, in the sum of Fifty Five Thousand Four Hundred Forty and 00/100 US Dollars (\$ 55,440.00) Total Contract Amount, subject to the provisions herein.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW Titles 60.28, 39.08, and 39.12 including all workers, laborers, mechanics, subcontractors, and material suppliers, and all persons who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Title 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, except as provided herein, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the officer executing on behalf of the surety.

PRINCIPAL Construction Ahead, Inc. dba Pavement
Surface Control

SURETY The Ohio Casualty Insurance Company

[Signature] August 16, 2019
Principal Signature Date

[Signature] August 16, 2019
Surety Signature Date

Brother J. McDaniel
Printed Name

Kirsten K Jordan

Printed Name

President
Title

Attorney-In-Fact

Title

Name, address, and telephone of local office/agent of Surety Company is:

Conover Insurance Services, LLC
1804 W. Lewis St.
Pasco, WA 99301
509-545-3800



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8201798-974308**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Jodi Clayton; Kimberley A. Fall; Jacqueline F. Hernandez; Charles E. Hudon; Kirsten K. Jordan; Kristina Schrader

all of the city of Pasco state of WA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 8th day of August, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 8th day of August, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16th day of August, 2019.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

**PUBLIC WORKS PERFORMANCE BOND
to Franklin County, WA**

Bond No. 67S202170

Franklin County, Washington, (County) has awarded to Construction Ahead, Inc. dba Pavement Surface Control, (Principal), a contract for the construction of the project designated as **CRP 618 / Safety - Rumble Strips**, in Franklin County, Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principal, and The Ohio Casualty Insurance Company (Surety), a corporation organized under the laws of the State of New Hampshire and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of Fifty Five Thousand Four Hundred Forty and 00/100 US Dollars (\$ 55,440.00) Total Contract Amount, subject to the provisions herein.

This statutory performance bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all the terms and conditions of all duly authorized modifications, additions, and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the officer executing on behalf of the surety.

PRINCIPAL Construction Ahead, Inc. dba Pavement Surface Control

SURETY The Ohio Casualty Insurance Company

[Signature] August 16, 2019
Principal Signature Date

[Signature] August 16, 2019
Surety Signature Date

Dorothy J McDaniel
Printed Name

Kirsten K Jordan
Printed Name

President
Title

Attorney-In-Fact
Title

Name, address, and telephone of local office/agent of Surety Company is:

Conover Insurance Services, LLC
1804 W. Lewis St.
Pasco, WA 99301
509-545-3800



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8201798-974308**

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all of the city of Pasco state of WA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 8th day of August, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 8th day of August, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

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I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16th day of August, 2019.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CONTRACT DOCUMENTS

CRP 618/ SAFETY – RUMBLE STRIPS

HSIP-000S(494)
LA-9349





FRANKLIN COUNTY

PUBLIC WORKS DEPARTMENT



CRP 618

SAFETY – RUMBLE STRIPS

Federal Aid No. HSIP-000S(494)
LA-9349

TABLE OF CONTENTS

**CRP 618 – FRANKLIN COUNTY
SAFETY – RUMBLE STRIPS
Federal Aid No. HSIP-000S(494)**

INVITATION TO BID

VICINITY MAP

PROPOSAL

- Bid Proposal
- Non-Collusion Declaration
- Certification for Federal-Aid Contracts
- Proposal Bond
- Contractor Certification of Wage Law Compliance - Responsibility Criteria

CONTRACT

- Contract
- Public Works Payment Bond
- Public Works Performance Bond

PROVISIONS

- Franklin County Special Provisions
- Required Federal-Aid Contract Provisions

AMENDMENTS

- WSDOT Amendments to 2018 Standard Specifications

WAGE RATES

- Federal Wage Rates
- State Wage Rates
- Benefit Code Key
- Washington L&I Policy Statement

STANDARD PLAN

CONSTRUCTION PLAN SHEETS

TRAFFIC CONTROL PLAN

INVITATION TO BID

CRP 618 – SAFETY – RUMBLE STRIPS Federal Aid No. – HSIP-000S(494)

Franklin County Public Works is inviting and requesting bid proposals for the above referenced project. This safety project provides for the construction of 13.7 miles of centerline/shoulder rumble strips, 25,100 linear feet of pavement striping, temporary traffic control and other work. The project is located on two (2) separate sections of roadway – Glade North Road from the Pasco City Limits to Selph Landing (approx. 3.68 miles) and the Pasco-Kahlotus Road from the Pasco City Limits to MP 1.40 (approx. 0.78 miles).

Sealed bids shall be marked with the project name and number and be addressed to the Franklin County Commissioners. Bids will be received at the Office of the Board of County Commissioners, Franklin County Courthouse, 1016 N. 4th Ave, Pasco, Washington, 99301 **until 8:45 AM, Tuesday, August 6th, 2019**, and will then and there be opened and publicly read aloud during the regular County Commissioners meeting after 9:00 AM. Bids shall be submitted only on the proposal form provided with the specifications.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check, or surety bond in an amount equal to five percent (5%) of the total contract amount.

Complete digital project bidding documents are available at www.questcdn.com. Interested bidders may view the plans and specifications at no charge by signing up for an account and inputting Quest Project #6435536 on the websites Projects Search Page. Firms who intend to submit a bid should download the digital plan documents, specifications, contract documents and bid proposal for fifteen dollars (\$15.00). Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership, registration, downloading, and working with this digital project information.

Informational copies of maps, plans and specifications are on file for inspection in the Office of the County Engineer of Franklin County and the Office of the Franklin County Commissioners both in Pasco, Washington.

The following is applicable to Federal-aid projects:

The Franklin County Public Works Department in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 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 Franklin County Commissioners reserve the right to reject any and all bids and to waive technicalities or irregularities, and after careful consideration of all bids and factors involved make the award to best serve the interests of Franklin County.

Signed this 8th day of July, 2019.

FRANKLIN COUNTY ENGINEER
FRANKLIN COUNTY, WASHINGTON


Craig B. Erdman, PE, County Engineer



FALLS RD

MP 0.32

MP 1.40

MP 0.62

 City Boundaries

PROPOSAL

BID PROPOSAL

NON-COLLUSION DECLARATION

CERTIFICATION FOR FEDERAL-AID CONTRACTS

PROPOSAL BOND

CONTRACTOR CERTIFICATION WAGE LAW COMPLIANCE

PROPOSAL

TO: THE BOARD OF COUNTY COMMISSIONERS
Franklin County, Washington

This certifies that the undersigned has examined the location of the project and that the plans, specifications, and contract governing the work embraced in this improvement 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 by this improvement, or as much thereof as can be completed with the money available, in accordance with the said plans, specifications, contract, and the following schedule of rates and prices.

(Note: Unit prices for all items, all extensions, and total amount of bid shall be shown. Show unit price and total amounts in figures only. Figures written to the right of the dot (decimal) shall be interpreted as cents.)

BID

Item No.	Plan Quantity	Item	Unit Price	Total Amount
1.	Lump Sum	Mobilization	<u>4650⁰⁰</u> per L.S.	<u>4650⁰⁰</u>
2.	3	ESC Lead	<u>250⁰⁰</u> per Day	<u>750⁰⁰</u>
3.	25100	Paint Line	<u>0.25</u> per L.F.	<u>6275⁰⁰</u>
4.	4.75	Centerline Rumble Strip	<u>1300⁰⁰</u> per MI.	<u>6175⁰⁰</u>
5.	8.95	Shoulder Rumble Strip Type 2	<u>1300⁰⁰</u> per MI.	<u>11,635⁰⁰</u>
6.	240	Flaggers	<u>60⁰⁰</u> per HR.	<u>14400⁰⁰</u>
7.	125	Other Traffic Control Labor	<u>65⁰⁰</u> per HR.	<u>8125⁰⁰</u>
8.	81	Construction Signs Class "A"	<u>30⁰⁰</u> per S.F.	<u>2430⁰⁰</u>
9.	Lump Sum	SPCC Plan	<u>1000⁰⁰</u> per L.S.	<u>1000⁰⁰</u>
TOTAL BID \$			<u><u>55,440⁰⁰</u></u>	

**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 have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report bid 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.

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

Local Agency Certification for Federal-Aid Contracts

The prospective participant certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is material representation of the fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

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.

A proposal guaranty in the 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:

CASH ☐ IN THE AMOUNT OF _____
CASHIER'S CHECK ☐ _____ DOLLARS
CERTIFIED CHECK ☐ (\$_____) Payable to the County Treasurer
PROPOSAL BOND ☒ IN THE AMOUNT OF 5% OF THE BID

** Receipt is hereby acknowledged of addendum(s) 1, -, -, -, -

SIGNATURE OF AUTHORIZED OFFICIAL (S)

Proposal must be signed >



FIRM NAME

Construction Ahead Inc. 166
Pavement Surface Control

CONTRACTOR'S LICENSE NO.

CONSTA1083LS

WASHINGTON STATE L&I NO:

472 399 02

REVENUE TAX NUMBER:

601 378 957

UBI NUMBER:

601 378 957

ADDRESS

307 N Dayton St Kennewick WA 99326

PHONE NO.

509-586-1969

- Note: (1) This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.
- (2) Please refer to Section 1-02.6 of the Standard Specifications regarding "Preparation of Proposal"
- (3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communication CRP 618 / Safety – Rumble Strips

PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, that we, Construction Ahead, Inc. dba Pavement Surface Control
Of Kennewick, Washington as principal, and the The Ohio Casualty Insurance Company
New Hampshire, a corporation duly organized to do business in
the State of New Hampshire, as surety, are held and firmly bound unto
Franklin County in the full and penal sum of five (5) percent of the total amount of the bid
proposal of said principal for the work herein after described, for the payment of which, well
and truly to be made, we bind our heirs, executors, administrators and assigns, and
successors and assigns firmly by these presents.

The condition of this bond is such that whereas the principal herein is herewith submitting
his or its sealed proposal for the County Road project, to wit:

CRP 618 / SAFETY – RUMBLE STRIPS

said bid and proposal, by reference thereto, being made a part hereof.

NOW THEREFORE, if the said proposal bid by said principal be accepted and the contract
be awarded to said principal, and if said principal shall duly make and enter into and execute
said contract and shall furnish bond as required by Franklin County within a period of ten
(10) days from and after said award, otherwise it shall remain and be in full force and effect.

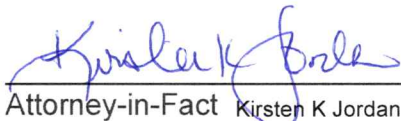
IN TESTIMONY WHEREOF, the principal and surety have caused these presents to be
signed the

6th day of August, 2019.

Construction Ahead, Inc. dba Pavement Surface Control


Principal

The Ohio Casualty Insurance Company
Surety


Attorney-in-Fact Kirsten K Jordan

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 7993003

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Karen Alley; Jodi Clayton; Jacqueline F. Hernandez; Charles E. Hudon; Kirsten K Jordan; Sarah Scott

all of the city of Pasco, state of WA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 29th day of January, 2018.



STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 29th day of January, 2018, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 10th day of August, 2019.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary



**Contractor Certification
Wage Law Compliance - Responsibility Criteria
Washington State Public Works Contracts**

**FAILURE TO RETURN THIS CERTIFICATION AS PART OF THE BID PROPOSAL PACKAGE WILL
MAKE THIS BID NONRESPONSIVE AND INELIGIBLE FOR AWARD**

I hereby certify, under penalty of perjury under the laws of the State of Washington, on behalf of the firm identified below that, to the best of my knowledge and belief, this firm has NOT been determined by a final and binding citation and notice of assessment issued by the Washington State Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the Call for Bids.

Bidder Name: Construction Ahead Inc dba
Pavement Surface Control

Name of Contractor/Bidder - Print full legal entity name of firm

By: [Signature]

Signature of authorized person

Dorothy J McDaniel

Print Name of person making certifications for firm

Title: President

Title of person signing certificate

Place: Kennecott WA

Print city and state where signed

Date: 8/6/2019

ATTENTION: ALL BIDDERS AND PLANHOLDERS

**FRANKLIN COUNTY, WASHINGTON
CRP 618 – SAFETY – RUMBLE STRIPS
HSIP-000S(494)**

ADDENDUM No 1

To the Wage Rates for this project are amended as follows:

This addendum will be incorporated into the contract when awarded and formally executed.

Bidders are to acknowledge receipt of this addendum in the space provided on the Bid Proposal. Failure to do so may subject bidder to disqualification.

WAGE RATES

FEDERAL WAGE RATES

- Delete WA20190001 Modification 7 Federal Wage Determinations for Highway Construction in its entirety; and replace with the new attached *WA20190001 Modification 8 Federal Wage Determinations for Highway Construction dated 07/19/19.*


CRAIG ERDMAN
FRANKLIN COUNTY ENGINEER


DATE



CONTRACT

CONTRACT

PUBLIC WORKS PAYMENT BOND

PUBLIC WORKS PERFORMANCE BOND

CONTRACT

THIS AGREEMENT, MADE AND ENTERED INTO THIS 3rd day of September, 2019, between the *COUNTY OF FRANKLIN*, acting through the *BOARD OF COUNTY COMMISSIONERS*, under and by virtue of Title 47 RCW as amended, and *CONSTRUCTION AHEAD, INC dba PAVEMENT SURFACE CONTROL* hereinafter called the Contractor.

WITNESSETH, this 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:

- I. The Contractor shall do all work and furnish all tools, materials, and equipment for **CRP 618 / Safety – Rumble Strips**, in accordance with and as described in the attached plans and specifications and the Standard Specifications of the Washington State Department of Transportation, which are by this reference incorporated herein and made part hereof, and shall perform any changes in the work in accord with Contract Documents.

The Contractor shall provide and bear the expense of all equipment, work, and labor 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, except those items mentioned therein to be furnished by the County of Franklin.

- II. The County of Franklin 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 accord with the attached plans, specifications, and 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, in the manner, and upon the conditions provided for in this contract.
- III. 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 required of the Contractor in the contract.
- IV. It is further provided that no liability shall attach the County by reason of entering into this contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Contractor has executed this instrument in the day and year first below written; and the board of County Commissioners has caused this instrument to be executed by and in the name of said County of Franklin the day and year first above written.

Executed by the Contractor:

August 19, 2019
Date Construction Ahead Inc, LLC
Pavement Surface Center
[Signature]
Contractor Dorothy J. McDowell

BOARD OF COUNTY COMMISSIONERS
Franklin County, Washington

Chairman

Chairman Pro Tem

Member

ATTEST:

Clerk of the Board

Deputy Prosecuting Attorney, Franklin County

PUBLIC WORKS PAYMENT BOND
to Franklin County, WA

Bond No. 67S202170

Construction Ahead, Inc.

Franklin County, Washington, (County) has awarded to dba Pavement Surface Control (Principal) a contract for the construction of the project designated as **CRP 618 / Safety - Rumble Strips**, in Franklin County, Washington (Contract), and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principal, and The Ohio Casualty Insurance Company (Surety), a corporation organized under the laws of the State of New Hampshire and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the County, in the sum of Fifty Five Thousand Four Hundred Forty and 00/100 US Dollars (\$ 55,440.00) Total Contract Amount, subject to the provisions herein.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW Titles 60.28, 39.08, and 39.12 including all workers, laborers, mechanics, subcontractors, and material suppliers, and all persons who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Title 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, except as provided herein, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the officer executing on behalf of the surety.

PRINCIPAL Construction Ahead, Inc. dba Pavement Surface Control

[Signature] August 16, 2019
Principal Signature Date

Brooklyn J. McDowell
Printed Name

President
Title

SURETY The Ohio Casualty Insurance Company

[Signature] August 16, 2019
Surety Signature Date

Kirsten K Jordan

Printed Name

Attorney-In-Fact

Title

Name, address, and telephone of local office/agent of Surety Company is:

Conover Insurance Services, LLC
1804 W. Lewis St.
Pasco, WA 99301
509-545-3800



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8201798-974308**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Jodi Clayton; Kimberley A. Fall; Jacqueline F. Hernandez; Charles E. Hudon; Kirsten K. Jordan; Kristina Schrader

all of the city of Pasco state of WA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 8th day of August, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 8th day of August, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16th day of August, 2019.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

**PUBLIC WORKS PERFORMANCE BOND
to Franklin County, WA**

Bond No. 67S202170

Franklin County, Washington, (County) has awarded to Construction Ahead, Inc. dba Pavement Surface Control, (Principal), a contract for the construction of the project designated as **CRP 618 / Safety - Rumble Strips**, in Franklin County, Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principal, and The Ohio Casualty Insurance Company (Surety), a corporation organized under the laws of the State of New Hampshire and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of Fifty Five Thousand Four Hundred Forty and 00/100 US

Dollars (\$ 55,440.00) Total Contract Amount, subject to the provisions herein.

This statutory performance bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all the terms and conditions of all duly authorized modifications, additions, and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the officer executing on behalf of the surety.

PRINCIPAL Construction Ahead, Inc. dba Pavement Surface Control

SURETY The Ohio Casualty Insurance Company

[Signature] August 16, 2019
Principal Signature Date

[Signature] August 16, 2019
Surety Signature Date

Dorothy J. McDermott
Printed Name

Kirsten K Jordan
Printed Name

President
Title

Attorney-In-Fact
Title

Name, address, and telephone of local office/agent of Surety Company is:

Conover Insurance Services, LLC
1804 W. Lewis St.
Pasco, WA 99301
509-545-3800



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8201798-974308**

POWER OF ATTORNEY

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all of the city of Pasco state of WA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 8th day of August, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By:

David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 8th day of August, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By:

Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16th day of August, 2019.



By:

Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

AMENDMENTS

WSDOT AMENDMENTS TO 2018 STANDARD SPECIFICATIONS

1 INTRO.AP1
2 **INTRODUCTION**

3 The following Amendments and Special Provisions shall be used in conjunction with the
4 2018 Standard Specifications for Road, Bridge, and Municipal Construction.

5
6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**
7

8 The following Amendments to the Standard Specifications are made a part of this contract
9 and 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 1-01.AP1
17 **Section 1-01, Definitions and Terms**
18 **August 6, 2018**

19 **1-01.3 Definitions**

20 The following new term and definition is inserted before the definition for “Shoulder”:

21
22 **Sensitive Area** – Natural features, which may be previously altered by human activity,
23 that are present on or adjacent to the project location and protected, managed, or
24 regulated by local, tribal, state, or federal agencies.

25
26 The following new term and definition is inserted after the definition for “Working Drawings”:

27
28 **WSDOT Form** – Forms developed and maintained by WSDOT that are required or
29 available for use on a project. These forms can be downloaded from the forms
30 catalogue at:

31
32 <http://wsdot.wa.gov/forms/pdfForms.html>
33

34 1-02.AP1
35 **Section 1-02, Bid Procedures and Conditions**
36 **June 3, 2019**

37 **1-02.4(1) General**

38 This section is supplemented with the following:

39
40 Prospective Bidders are advised that the Contracting Agency may include a partially
41 completed Washington State Department of Ecology (Ecology) Transfer of Coverage
42 (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit
43 (CSWGP) as part of the Bid Documents. When the Contracting Agency requires the
44 transfer of coverage of the CSWGP to the Contractor, an informational copy of the
45 Transfer of Coverage and the associated CSWGP will be included in the appendices.
46 As a condition of Section 1-03.3, the Contractor is required to complete sections I, III,
47 and VIII of the Transfer of Coverage and return the form to the Contracting Agency.
48

1 The Contracting Agency is responsible for compliance with the CSWGP until the end of
2 day that the Contract is executed. Beginning on the day after the Contract is executed,
3 the Contractor shall assume complete legal responsibility for compliance with the
4 CSWGP and full implementation of all conditions of the CSWGP as they apply to the
5 Contract Work.
6

7 **1-02.5 Proposal Forms**

8 The first sentence of the first paragraph is revised to read:
9

10 At the request of a Bidder, the Contracting Agency will provide a physical Proposal
11 Form for any project on which the Bidder is eligible to Bid.
12

13 **1-02.6 Preparation of Proposal**

14 Item number 1 of the second paragraph is revised to read:
15

- 16 1. A unit price for each item (omitting digits more than two places to the right of the
17 decimal point),
18

19 In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised to read
20 "WSDOT Form 422-031U".
21

22 The following new paragraph is inserted before the last paragraph:
23

24 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
25 Compliance form (WSDOT Form 272-009). Failure to return this certification as part of
26 the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A
27 Contractor Certification of Wage Law Compliance form is included in the Proposal
28 Forms.
29

30 **1-02.13 Irregular Proposals**

31 Item 1(h) is revised to read:
32

- 33 h. The Bidder fails to submit Underutilized Disadvantaged Business Enterprise Good
34 Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the
35 documentation that is submitted fails to demonstrate that a Good Faith Effort to
36 meet the Condition of Award was made;
37

38 Item 1(i) is revised to read the following three items:
39

- 40 i. The Bidder fails to submit a UDBE Bid Item Breakdown form, if applicable, as
41 required in Section 1-02.6, or if the documentation that is submitted fails to meet
42 the requirements of the Special Provisions;
43
- 44 j. The Bidder fails to submit UDBE Trucking Credit Forms, if applicable, as required in
45 Section 1-02.6, or if the documentation that is submitted fails to meet the
46 requirements of the Special Provisions; or
47
- 48 k. The Bid Proposal does not constitute a definite and unqualified offer to meet the
49 material terms of the Bid invitation.
50

1 1-03.AP1
2 **Section 1-03, Award and Execution of Contract**
3 **January 2, 2018**

4 **1-03.3 Execution of Contract**

5 The first paragraph is revised to read:

6
7 Within 20 calendar days after the Award date, the successful Bidder shall return the
8 signed Contracting Agency-prepared Contract, an insurance certification as required by
9 Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer
10 of Coverage form for the Construction Stormwater General Permit with sections I, III,
11 and VIII completed when provided, and shall be registered as a contractor in the state of
12 Washington.
13

14 **1-03.5 Failure to Execute Contract**

15 The first sentence is revised to read:

16
17 Failure to return the insurance certification and bond with the signed Contract as
18 required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's
19 Business Enterprise information if required in the Contract, or failure or refusal to sign
20 the Contract, or failure to register as a contractor in the state of Washington, or failure to
21 return the completed Transfer of Coverage for the Construction Stormwater General
22 Permit to the Contracting Agency when provided shall result in forfeiture of the proposal
23 bond or deposit of this Bidder.
24

25 1-05.AP1

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

28 **1-05.5 Vacant**

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

30
31 **1-05.5 Tolerances**

32 Geometrical tolerances shall be measured from the points, lines, and surfaces defined
33 in Contract documents.
34

35 A plus (+) tolerance increases the amount or dimension to which it applies, or raises a
36 deviation from level. A minus (-) tolerance decreases the amount or dimension to which
37 it applies, or lowers a deviation from level. Where only one signed tolerance is specified
38 (+ or -), there is no specified tolerance in the opposing direction.
39

40 Tolerances shall not be cumulative. The most restrictive tolerance shall control.
41

42 Tolerances shall not extend the Work beyond the Right of Way or other legal
43 boundaries identified in the Contract documents. If application of tolerances causes the
44 extension of the Work beyond the Right of Way or legal boundaries, the tolerance shall
45 be reduced for that specific instance.
46

47 Tolerances shall not violate other Contract requirements. If application of tolerances
48 causes the Work to violate other Contract requirements, the tolerance shall be reduced
49 for that specific instance. If application of tolerances causes conflicts with other

1 components or aspects of the Work, the tolerance shall be reduced for that specific
2 instance.

3 4 **1-05.9 Equipment**

5 The following new paragraph is inserted before the first paragraph:
6

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

10
11 This section is supplemented with the following:
12

13 Upon completion of the Work, the Contractor shall completely remove all loose dirt and
14 vegetative debris from equipment before removing it from the job site.
15

16 1-06.AP1

17 **Section 1-06, Control of Material** 18 **January 7, 2019**

19 **1-06.1(3) Aggregate Source Approval (ASA) Database**

20 This section is supplemented with the following:
21

22 Regardless of status of the source, whether listed or not listed in the ASA database the
23 source owner may be asked to provide testing results for toxicity in accordance with
24 Section 9-03.21(1).
25

26 **1-06.2(2)D Quality Level Analysis**

27 This section is supplemented with the following new subsection:
28

29 **1-06.2(2)D5 Quality Level Calculation – HMA Compaction**

30 The procedures for determining the quality level and pay factor for HMA compaction are
31 as follows:
32

- 33 1. Determine the arithmetic mean, X_m , for compaction of the lot:
34

35
$$X_m = \frac{\sum x}{n}$$

36
37 Where:

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

39 $\sum x$ = summation of individual compaction test values

40 n = total number test values
41

- 42 2. Compute the sample standard deviation, “S”, for each constituent:
43

44
$$S = \left[\frac{n \sum x^2 - (\sum x)^2}{n(n-1)} \right]^{\frac{1}{2}}$$

45
46 Where:

1 $\sum x^2 =$ summation of the squares of individual compaction test values
2 $(\sum x)^2 =$ summation of the individual compaction test values squared
3

4 3. Compute the lower quality index (Q_L):
5

6
$$Q_L = \frac{X_m - LSL}{S}$$

7
8 Where:
9 LSL = 92.0
10

11 4. Determine P_L (the percent within the lower Specification limit which
12 corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is equal
13 to 100 minus the table P_L . If the value of Q_L does not correspond exactly to a
14 figure in the table, use the next higher value.
15

16 5. Determine the quality level (the total percent within Specification limits):
17

18 Quality Level = P_L
19

20 6. Using the quality level from step 5, determine the composite pay factor (CPF)
21 from Table 2.
22

23 7. If the CPF determined from step 6 is 1.00 or greater: use that CPF for the
24 compaction lot; however, the maximum HMA compaction CPF using an LSL =
25 92.0 shall be 1.05.
26

27 8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an
28 LSL = 91.5. The value thus determined shall be the HMA compaction CPF for
29 that lot; however, the maximum HMA compaction CPF using an LSL = 91.5
30 shall be 1.00.
31

32 **1-06.2(2)D1 Quality Level Analysis**

33 The following new sentence is inserted after the first sentence:
34

35 The quality level calculations for HMA compaction are completed using the formulas in
36 Section 1-06.2(2)D5.
37

38 **1-06.2(2)D4 Quality Level Calculation**

39 The first paragraph (excluding the numbered list) is revised to read:
40

41 The procedures for determining the quality level and pay factors for a material, other
42 than HMA compaction, are as follows:
43

44 **1-06.6 Recycled Materials**

45 The first three sentences of the second paragraph are revised to read:
46

47 The Contractor shall submit a Recycled Material Utilization Plan on WSDOT Form 350-
48 075A within 30 calendar days after the Contract is executed. The plan shall provide the
49 Contractor's anticipated usage of recycled concrete aggregates for meeting the
50 requirements of these Specifications. The quantity of recycled concrete aggregate will

1 be provided in tons and as a percentage of the Plan quantity for eligible material listed
2 in Section 9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled
3 Material.
4

5 The last paragraph is revised to read:
6

7 Within 30 calendar days after Physical Completion, the Contractor shall report the
8 quantity of recycled concrete aggregates that were utilized in the construction of the
9 project for each eligible item listed in Section 9-03.21(1)E. The Contractor's report shall
10 be provided on WSDOT Form 350-075A, Recycled Materials Reporting.
11

12 **1-06.6(1)A General**

13 Item 1(a) in the second paragraph is revised to read:
14

- 15 a. The estimated costs for the Work for each material with 25 percent recycled
16 concrete aggregate. The cost estimate shall include for each material a
17 documented price quote from the supplier with the lowest total cost for the Work.
18

19 1-07.AP1

20 **Section 1-07, Legal Relations and Responsibilities to the Public** 21 **April 1, 2019**

22 **1-07.5 Environmental Regulations**

23 This section is supplemented with the following new subsections:
24

25 **1-07.5(5) U.S. Army Corps of Engineers**

26 When temporary fills are permitted, the Contractor shall remove fills in their entirety and
27 the affected areas returned to pre-construction elevations.
28

29 If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special
30 Provisions, the Contractor shall retain a copy of the permit or the verification letter (in
31 the case of a Nationwide Permit) on the worksite for the life of the Contract. The
32 Contractor shall provide copies of the permit or verification letter to all subcontractors
33 involved with the authorized work prior to their commencement of any work in waters of
34 the U.S.
35

36 **1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service**

37 The Contracting Agency will provide fish exclusion and handling services if the Work
38 dictates. However, if the Contractor discovers any fish stranded by the project and a
39 Contracting Agency biologist is not available, they shall immediately release the fish into
40 a flowing stream or open water.
41

42 **1-07.5(1) General**

43 The first sentence is deleted and replaced with the following:
44

45 No Work shall occur within areas under the jurisdiction of resource agencies unless
46 authorized in the Contract.
47

48 The third paragraph is deleted.
49

50 **1-07.5(2) State Department of Fish and Wildlife**

51 This section is revised to read:

1
2 In doing the Work, the Contractor shall:

- 3
4 1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
5
6 2. Not place materials below or remove them from the ordinary high water line
7 except as may be specified in the Contract.
8
9 3. Not allow equipment to enter waters of the State except as specified in the
10 Contract.
11
12 4. Revegetate in accordance with the Plans, unless the Special Provisions permit
13 otherwise.
14
15 5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of
16 water.
17
18 6. Ensure continuous stream flow downstream of the Work area.
19
20 7. Dispose of any project debris by removal, burning, or placement above high-
21 water flows.
22
23 8. Immediately notify the Engineer and stop all work causing impacts, if at any
24 time, as a result of project activities, fish are observed in distress or a fish kill
25 occurs.
26

27 If the Work in (1) through (3) above differs little from what the Contract requires, the
28 Contracting Agency will measure and pay for it at unit Contract prices. But if Contract
29 items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-
30 09.4. Work in (4) through (8) above shall be incidental to Contract pay items.
31

32 **1-07.5(3) State Department of Ecology**

33 This section is revised to read:

34
35 In doing the Work, the Contractor shall:

- 36
37 1. Comply with Washington State Water Quality Standards.
38
39 2. Perform Work in such a manner that all materials and substances not
40 specifically identified in the Contract documents to be placed in the water do
41 not enter waters of the State, including wetlands. These include, but are not
42 limited to, petroleum products, hydraulic fluid, fresh concrete, concrete
43 wastewater, process wastewater, slurry materials and waste from shaft drilling,
44 sediments, sediment-laden water, chemicals, paint, solvents, or other toxic or
45 deleterious materials.
46
47 3. Use equipment that is free of external petroleum-based products.
48
49 4. Remove accumulations of soil and debris from drive mechanisms (wheels,
50 tracks, tires) and undercarriage of equipment prior to using equipment below
51 the ordinary high water line.
52

- 1 5. Clean loose dirt and debris from all materials placed below the ordinary high
2 water line. No materials shall be placed below the ordinary high water line
3 without the Engineer's concurrence.
4
- 5 6. When a violation of the Construction Stormwater General Permit (CSWGP)
6 occurs, immediately notify the Engineer and fill out WSDOT Form 422-011,
7 Contractor ECAP Report, and submit the form to the Engineer within 48 hours
8 of the violation.
9
- 10 7. Once Physical Completion has been given, prepare a Notice of Termination
11 (Ecology Form ECY 020-87) and submit the Notice of Termination
12 electronically to the Engineer in a PDF format a minimum of 7 calendar days
13 prior to submitting the Notice of Termination to Ecology.
14
- 15 8. Transfer the CSWGP coverage to the Contracting Agency when Physical
16 Completion has been given and the Engineer has determined that the project
17 site is not stabilized from erosion.
18
- 19 9. Submit copies of all correspondence with Ecology electronically to the
20 Engineer in a PDF format within four calendar days.
21

22 **1-07.5(4) Air Quality**

23 This section is revised to read:

24
25 The Contractor shall comply with all regional clean air authority and/or State
26 Department of Ecology rules and regulations.
27

28 The air quality permit process may include additional State Environment Policy Act
29 (SEPA) requirements. Contractors shall contact the appropriate regional air pollution
30 control authority well in advance of beginning Work.
31

32 When the Work includes demolition or renovation of any existing facility or structure that
33 contains Asbestos Containing Material (ACM) and/or Presumed Asbestos-Containing
34 Material (PACM), the Contractor shall comply with the National Emission Standards for
35 Hazardous Air Pollutants (NESHAP).
36

37 Any requirements included in Federal and State regulations regarding air quality that
38 applies to the "owner or operator" shall be the responsibility of the Contractor.
39

40 **1-07.7(1) General**

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

42
43 When the Contractor moves equipment or materials on or over Structures, culverts or
44 pipes, the Contractor may operate equipment with only the load-limit restrictions in
45 Section 1-07.7(2).
46

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

48
49 Unit prices shall cover all costs for operating over Structures, culverts and pipes.
50

51 **1-07.9(1) General**

52 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:

The revision dates are deleted from all items in the numbered list.

The following new items are inserted after item number 1:

2. **Mandatory Supplement to EEOC P/E-1** published by US Department of Labor. Post for projects with federal-aid funding.

3. **Pay Transparency Nondiscrimination Provision** published by US Department of Labor. Post for projects with federal-aid funding.

Item number 2 through 12 are renumbered to 4 through 14, respectively.

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.

b. Conduct that is considered to be hazing.

c. Jokes about race, gender, or sexuality that are offensive.

d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual nature which interferes with a person’s ability to perform their job or creates an intimidating, hostile, or offensive work environment.

e. Language or conduct that is offensive, threatening, intimidating or hostile based on race, gender, or sexual orientation.

f. Repeating rumors about individuals in the Work Site that are considered to be harassing or harmful to the individual’s reputation.

1-07.11(5) Sanctions

This section is supplemented with the following:

1
2 Immediately upon the Engineer's request, the Contractor shall remove from the Work
3 site any employee engaging in behaviors that promote harassment, humiliation, fear or
4 intimidation including but not limited to those described in these specifications.
5

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

7 The first sentence is revised to read:
8

9 The Contractor shall include the provisions of Section 1-07.11(2) Contractual
10 Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract
11 including procurement of materials and leases of equipment.
12

13 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

14 The last sentence of the first paragraph is revised to read:
15

16 An SPCC Plan template and guidance information is available at
17 [http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-](http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-prevent-report)
18 [prevent-report](http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-prevent-report).
19

20 **1-07.16(2)A Wetland and Sensitive Area Protection**

21 The first sentence of the first paragraph is revised to read:
22

23 Existing wetland and other sensitive areas, where shown in the Plans or designated by
24 the Engineer, shall be saved and protected through the life of the Contract.
25

26 **1-07.18 Public Liability and Property Damage Insurance**

27 Item number 1 is supplemented with the following new sentence:
28

29 This policy shall be kept in force from the execution date of the Contract until the
30 Physical Completion Date.
31

32 1-08.AP1

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

34 **1-08.1 Subcontracting**

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

37 All Work that is not performed by the Contractor will be considered as subcontracting
38 except: (1) purchase of sand, gravel, crushed stone, crushed slag, batched concrete
39 aggregates, ready-mix concrete, off-site fabricated structural steel, other off-site
40 fabricated items, and any other materials supplied by established and recognized
41 commercial plants; or (2) delivery of these materials to the Work site in vehicles owned
42 or operated by such plants or by recognized independent or commercial hauling
43 companies hired by those commercial plants.
44

45 The following new paragraph is inserted after the seventh paragraph:
46

47 The Contractor shall not use businesses (material suppliers, vendors, subcontractors,
48 etc.) with federal purchasing exclusions. Businesses with exclusions are identified using
49 the System for Award Management web page at www.SAM.gov.
50

1 **1-08.5 Time for Completion**

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

- 3
- 4 f. A copy of the Notice of Termination sent to the Washington State Department of
5 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
6 Notice of Termination by Ecology; and no rejection of the Notice of Termination by
7 Ecology. This requirement will not apply if the Construction Stormwater General
8 Permit is transferred back to the Contracting Agency in accordance with Section 8-
9 01.3(16).

10

11 **1-08.7 Maintenance During Suspension**

12 The fifth paragraph is revised to read:

13

14 The Contractor shall protect and maintain all other Work in areas not used by traffic. All
15 costs associated with protecting and maintaining such Work shall be the responsibility
16 of the Contractor.

17

18 1-09.AP1

19 **Section 1-09, Measurement and Payment**

20 **August 6, 2018**

21 **1-09.2(1) General Requirements for Weighing Equipment**

22 The last paragraph is supplemented with the following:

23

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

28

29 **1-09.2(2) Specific Requirements for Batching Scales**

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

31

32 Batching scales used for concrete or hot mix asphalt shall not be used for batching
33 other materials.

34

35 **1-09.10 Payment for Surplus Processed Materials**

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

37

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

40

41 2-01.AP2

42 **Section 2-01, Clearing, Grubbing, and Roadside Cleanup**

43 **April 1, 2019**

44 **2-01.2(3) Disposal Method No. 3 – Chipping**

45 Item number 2 of the first paragraph is revised to read:

- 46
- 47 2. Chips shall be disposed outside of sensitive areas, and in areas that aren't in
48 conflict with permanent Work.

1 2-02.AP2
2 **Section 2-02, Removal of Structures and Obstructions**
3 **April 2, 2018**

4 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters**

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

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

10
11 2-03.AP2
12 **Section 2-03, Roadway Excavation and Embankment**
13 **April 1, 2019**

14 **2-03.3(14)F Displacement of Unsuitable Foundation Materials**

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

16
17 **2-03.3(14)F Vacant**

18
19 2-09.AP2
20 **Section 2-09, Structure Excavation**
21 **April 1, 2019**

22 **2-09.2 Materials**

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

25
26 Cement 9-01
27 Fine Aggregate for Concrete 9-03.1(2)

28
29 **2-09.3(3)B Excavation Using Open Pits – Extra Excavation**

30 The last two paragraphs are deleted and replaced with the following:

31
32 The excavation height (Ht) shall be calculated within a vertical plane as the difference
33 between the lowest elevation in the excavation and the highest elevation of the ground
34 surface immediately adjacent to the excavation. Pavement thickness and other surface
35 treatments existing at the time of the excavation shall be included in the height
36 calculation.

37
38 **Submittals and Design Requirements**

39 Excavations 4-feet and less in height do not require design and submittals. The
40 Contractor shall provide a safe work environment and shall execute the work in a
41 manner that does not damage adjacent pavements, utilities, or structures. If the
42 Engineer determines the Contractor’s work may potentially affect adjacent traffic,
43 pavements, utilities, or structures, the Engineer may request a Type 1 Working Drawing
44 from the Contractor. The Contractor shall explain in the Type 1 Working Drawing how
45 the Engineer’s concerns will be addressed, why infrastructure will not be damaged by
46 the work, and how worker safety will be preserved.

47

1 For excavations that have soil types and slope geometries defined in WAC 296-155 part
2 N and are between 4-feet and 20-feet in height, the Contractor shall submit Type 2
3 Working Drawings. Required submittal elements include, at a minimum, the following:
4

- 5 1. A plan view showing the limits of the excavation and its relationship to traffic,
6 structures, utilities and other pertinent project elements. If the stability of the
7 excavation requires no-load zones or equipment setback distances, those shall
8 be shown on the plan view.
9
- 10 2. A typical or controlling cross section showing the proposed excavation, original
11 ground line, and locations of traffic, existing structures, utilities, site
12 constraints, surcharge loads, or other conditions that could affect the stability
13 of the slope. If the stability of the excavation requires no-load zones or
14 equipment setback distances, those shall be shown in cross section.
15
- 16 3. A summary clearly describing subsurface conditions, soil type for WAC 296-
17 155 part N, and groundwater conditions, sequencing considerations, and
18 governing assumptions.
19

20 Where WAC 296-155 part N requires an engineer's design, the Contractor shall submit
21 Type 2E Working Drawings. Required submittal elements include, at a minimum, the
22 three items above and the following additional items:
23

- 24 4. Supporting calculations for the design of the excavation, the soil and material
25 properties selected for design, and the justification for the selection for those
26 properties, in accordance with the WSDOT *Geotechnical Design Manual* M 46-
27 03.
28
- 29 5. Safety factors, or load and resistance factors used, and justification for their
30 selection, in accordance with the WSDOT *Geotechnical Design Manual* M 46-
31 03, and referenced AASHTO design manuals.
32
- 33 6. A monitoring plan to evaluate the excavation performance throughout its
34 design life.
35
- 36 7. Any supplemental subsurface explorations made by the Contractor to meet the
37 requirements for geotechnical design of excavation slopes, in accordance with
38 the WSDOT *Geotechnical Design Manual* M 46-03.
39

40 **2-09.3(3)D Shoring and Cofferdams**

41 The first sentence of the sixth paragraph is revised to read:
42

43 Structural shoring and cofferdams shall be designed for conditions stated in this Section
44 using methods shown in Division I Section 5 of the AASHTO *Standard Specifications for*
45 *Highway Bridges* Seventeenth Edition – 2002 for allowable stress design, or the
46 AASHTO *LRFD Bridge Design Specifications* for load and resistance factor design.
47

1 3-01.AP3
2 **Section 3-01, Production from Quarry and Pit Sites**
3 **April 2, 2018**

4 **3-01.1 Description**

5 The first paragraph is revised to read:

6
7 This Work shall consist of manufacturing and producing crushed and screened
8 aggregates including pit run aggregates of the kind, quality, and grading specified for
9 use in the construction of concrete, hot mix asphalt, crushed surfacing, maintenance
10 rock, ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface
11 treatments of all descriptions.

12
13 4-04.AP4
14 **Section 4-04, Ballast and Crushed Surfacing**
15 **April 2, 2018**

16 **4-04.3(5) Shaping and Compaction**

17 This section is supplemented with the following new paragraph:

18
19 When using 100% Recycled Concrete Aggregate, the Contractor may submit a written
20 request to use a test point evaluation for compaction acceptance testing in lieu of
21 compacting to 95% of the standard density as determined by the requirements of
22 Section 2-03.3(14)D. The test point evaluation shall be performed in accordance with
23 SOP 738.

24
25 5-01.AP5
26 **Section 5-01, Cement Concrete Pavement Rehabilitation**
27 **January 7, 2019**

28 **5-01.2 Materials**

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

30
31 Concrete Patching Material, Grout, and Mortar 9-20.1

32
33 **5-01.3(1)A1 Concrete Patching Materials**

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

35
36 **5-01.3(4) Replace Cement Concrete Panel**

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

38
39 **5-01.3(4)A General**

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

44
45 **5-01.3(4)B Sawing and Dimensional Requirements**

46 Concrete slabs to be replaced as shown in the Plans or staked by the Engineer shall be
47 at least 6.0 feet long and full width of an existing pavement panel. The portion of the
48 panel to remain in place shall have a minimum dimension of 6 feet in length and full

panel width; otherwise the entire panel shall be removed and replaced. There shall be no new joints closer than 3.0 feet to an existing transverse joint or crack. A vertical full depth saw cut is required along all longitudinal joints and at transverse locations and, unless the Engineer allows otherwise, an additional vertical full depth relief saw cut located 12 to 18 inches from and parallel to the initial longitudinal and transverse saw cut locations is also required. Removal of existing cement concrete pavement shall not cause damage to adjacent slabs that are to remain in place. In areas that will be ground, slab replacements shall be performed prior to pavement grinding.

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

5-01.3(4)C Dowel Bars and Tie Bars

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

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

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

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

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.

1 Dowel bars to be drilled into existing concrete or at a new transverse contraction joint
2 shall have a parting compound, such as curing compound, grease, or other Engineer
3 accepted equal, applied to them prior to placement.
4

5 Clean the drilled holes in accordance with the epoxy or grout manufacturer's
6 instructions. Holes shall be clean and dry at the time of placing the epoxy, or grout and
7 tie bars. Completely fill the void between the tie bar and the outer limits of the drilled
8 hole with epoxy or grout. Use retention rings to prevent leakage of the epoxy or grout
9 and support the tie bar to prevent movement until the epoxy or grout has cured the
10 minimum time recommended by the manufacturer.
11

12 **5-01.3(4)D Foundation Preparation**

13 The Contractor shall smooth the surfacing below the removed panel and compact it to
14 the satisfaction of the Engineer. Crushed surfacing base course, or hot mix asphalt may
15 be needed to bring the surfacing to grade prior to placing the new concrete.
16

17 If the material under the removed panel is uncompactable and the Engineer requires it,
18 the Contractor shall excavate the Subgrade 2 feet, place a soil stabilization construction
19 geotextile meeting the requirements of Section 9-33, and backfill with crushed surfacing
20 base course. This Work may include:
21

- 22 1. Furnishing and hauling crushed surfacing base course to the project site.
- 23 2. Excavating uncompactable material.
- 24 3. Furnishing and placing a soil stabilization construction geotextile.
- 25 4. Backfilling and compacting crushed surfacing base course.
- 26 5. Removing, hauling and restocking any unused crushed surfacing base course.
- 27
- 28
- 29
- 30
- 31

32 **5-01.3(4)E Concrete Finishing**

33 Grade control shall be the responsibility of the Contractor.
34

35 All panels shall be struck off level with the adjacent panels and floated to a smooth
36 surface.
37

38 Final finish texturing shall meet the requirements of Section 5-05.3(11).
39

40 In areas where the Plans do not require grinding, the surface smoothness will be
41 measured with a 10-foot straightedge by the Engineer in accordance with Section 5-
42 05.3(12). If the replacement panel is located in an area that will be ground as part of
43 concrete pavement grinding in accordance with Section 5-01.3(9), the surface
44 smoothness shall be measured, by the Contractor, in conjunction with the smoothness
45 measurement done in accordance with Section 5-01.3(10).
46

47 **5-01.3(4)F Joints**

48 All transverse and longitudinal joints shall be sawed and sealed in accordance with
49 Section 5-05.3(8). The Contractor may use a hand pushed single blade saw for sawing
50 joints.
51

1 **5-01.3(4)G Cracked Panels**
2 Replacement panels that crack shall be repaired as specified in Section 5-05.3(22) at
3 no cost to the Contracting Agency. When repairing replacement panels that have
4 cracked, epoxy-coated dowel bars meeting the requirements of Section 9-07.5(1) may
5 be substituted for the corrosion resistant dowel bars specified.
6

7 **5-01.3(4)H Opening to Traffic**
8 Opening to traffic shall meet the requirements of Section 5-05.3(17).
9

10 **5-01.3(5) Partial Depth Spall Repair**
11 The second sentence of the third paragraph is revised to read:
12

13 All sandblasting residue shall be removed.
14

15 **5-01.3(7) Sealing Existing Concrete Random Cracks**
16 The second sentence of the second paragraph is revised to read:
17

18 Immediately prior to sealing, the cracks shall be clean.
19

20 **5-01.3(8) Sealing Existing Longitudinal and Transverse Joint**
21 The first sentence of the fifth paragraph is revised to read:
22

23 Immediately prior to sealing, the cracks shall be clean.
24

25 **5-01.3(10) Pavement Smoothness**
26 This section is revised to read:
27

28 Pavement surface smoothness for cement concrete pavement grinding on this project
29 will include International Roughness Index (IRI) testing. Ride quality will be evaluated
30 using the Mean Roughness Index (MRI) calculated by averaging the IRI data for the left
31 and right wheel path within the section.
32

33 **Smoothness Testing Equipment and Operator Certification**
34 Use an inertial profiler and operator that meet the requirements of Section 5-05.3(3)E.
35

36 **Surface Smoothness**
37 Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal
38 traces, one in each wheel path. Collect the control profile at locations designated in
39 Table 2 prior to any pavement rehabilitation Work on the areas to be tested. Collect an
40 acceptance profile at locations designated in Table 2 after completion of all cement
41 concrete pavement grinding on the project. Profiles shall be collected in a continuous
42 pass including areas excluded from pay adjustments. Provide notice to the Engineer a
43 minimum of seven calendar days prior to testing.
44

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	Acceptance profile

concrete pavement grinding	
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

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

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

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	

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

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.

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

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

1. Diamond grinding.

2. By other method accepted by the Engineer.

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

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

5-01.5 Payment

This section is supplemented with the following:

“Grinding Smoothness Compliance Adjustment”, by calculation.

Grinding Smoothness Compliance Adjustments will be based on the requirements in Section 5-01.3(10) and the following calculations:

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

1 5-02.AP5
2 **Section 5-02, Bituminous Surface Treatment**
3 **April 1, 2019**

4 **5-02.3(5) Application of Aggregates**

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

6
7 The Contractor shall use a pickup broom in all curbed areas, on all bridges, within city
8 limits, within sensitive areas, and where shown in the Plans both before the application
9 of emulsified asphalt and during the final brooming operation.

10

11 5-04.AP5

12 **Section 5-04, Hot Mix Asphalt**

13 **April 1, 2019**

14 **5-04.1 Description**

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

16

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

20

21 **5-04.2 Materials**

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

23

24 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

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

26

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

31

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

34

35 **5-04.2(1)C Mix Design Resubmittal for QPL Approval**

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

37

- 38 3. Changes in modifiers used in the asphalt binder.

39

40 **5-04.2(2)B Using Warm Mix Asphalt Processes**

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

42

43 **5-04.2(2)B Using HMA Additives**

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

48

- 1 • Do not use additives that reduce the mixing temperature in accordance with
2 Section 5-04.3(6) in the production of High RAP/Any RAS mixtures.
3
4 • Before using additives, obtain the Engineer's approval using WSDOT Form
5 350-076 to describe the proposed additive and process.
6

7 **5-04.3(3)A Mixing Plant**

8 Item number 5 of the first paragraph is revised to read:
9

- 10 5. Provide HMA sampling equipment that complies with FOP for AASHTO T 168:
11
12 • Use a mechanical sampling device accepted by the Engineer, or
13
14 • Platforms or devices to enable sampling from the truck transport without
15 entering the truck transport for sampling HMA.
16

17 **5-04.3(4) Preparation of Existing Paved Surfaces**

18 The first sentence of the fourth paragraph is revised to read:
19

20 Unless otherwise allowed by the Engineer, use cationic emulsified asphalt CSS-1, CSS-
21 1h, or Performance Graded (PG) asphalt for tack coat.
22

23 **5-04.3(6) Mixing**

24 The first paragraph is revised to read:
25

26 The asphalt supplier shall introduce recycling agent and anti-stripping additive, in the
27 amount designated on the QPL for the mix design, into the asphalt binder prior to
28 shipment to the asphalt mixing plant.
29

30 The seventh paragraph is revised to read:
31

32 Upon discharge from the mixer, ensure that the temperature of the HMA does not
33 exceed the optimum mixing temperature shown on the accepted Mix Design Report by
34 more than 25°F, or as allowed by the Engineer. When an additive is included in the
35 manufacture of HMA, do not heat the additive (at any stage of production including in
36 binder storage tanks) to a temperature higher than the maximum recommended by the
37 manufacturer of the additive.
38

39 **5-04.3(7) Spreading and Finishing**

40 The last row of the table is revised to read:
41

$\frac{3}{8}$ inch	0.25 feet	0.30 feet
--------------------	-----------	-----------

42
43 **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

44 The following new paragraph is inserted after the first paragraph:
45

46 The Contracting Agency's combined aggregate bulk specific gravity (Gsb) blend as
47 shown on the HMA Mix Design will be used for VMA calculations until the Contractor
48 submits a written request for a Gsb test. The new Gsb will be used in the VMA
49 calculations for HMA from the date the Engineer receives the written request for a Gsb
50 retest. The Contractor may request aggregate specific gravity (Gsb) testing be
51 performed by the Contracting Agency twice per project. The Gsb blend of the combined

1 stockpiles will be used to calculate voids in mineral aggregate (VMA) of any HMA
2 produced after the new Gsb is determined.

3
4 **5-04.3(9)A1 Test Section – When Required, When to Stop**

5 The following new row is inserted after the second row in Table 9:
6

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

7
8 **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

9 In Table 9a, the test property “Gradation, Asphalt Binder, and V_a” is revised to read
10 “Gradation, Asphalt Binder, VMA, and V_a”
11

12 In Table 9a, the first column of the third row is revised to read:
13

Aggregates: Sand Equivalent Uncompacted Void Content Fracture
--

14
15 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

16 In Table 11, “V_a” is revised to read “VMA and V_a”
17

18 **5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

19 The following new row is inserted above the last row in Table 12:
20

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

21
22 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

23 The second to last sentence is revised to read:
24

25 The sample will be tested for a complete gradation analysis, asphalt binder content,
26 VMA and V_a, and the results of the retest will be used for the acceptance of the HMA
27 mixture in place of the original mixture subplot sample test results.
28

29 **5-04.3(10)A HMA Compaction – General Compaction Requirements**

30 The last paragraph is revised to read:
31

32 On bridge decks and on roadway approaches within five feet of a bridge/back of
33 pavement seat, rollers shall not be operated in a vibratory mode, defined as a mode in
34 which the drum vibrates vertically. However, unless otherwise noted on the plans,
35 rollers may be operated in an oscillatory mode, defined as a mode in which the drum
36 vibrates in the horizontal direction only.
37

38 **5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots**

39 The bulleted item in the fourth paragraph is revised to read:
40

- 41 • For a compaction lot in progress with a compaction CPF less than 0.75 using an
42 LSL = 91.5, a new compaction lot will begin at the Contractor’s request after the

1 Engineer is satisfied that material conforming to the Specifications can be
2 produced. See also Section 5-04.3(11)F.
3
4 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**
5 In the table, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO T 355”.
6
7 **5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments**
8 In the first paragraph, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for
9 AASHTO T 355”.
10
11 The first sentence in the second paragraph is revised to read:
12
13 For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not
14 meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in
15 accordance with Section 1-06.2(2)D5 to determine the appropriate Composite Pay
16 Factor (CPF).
17
18 The last two paragraphs are revised to read:
19
20 Determine the Compaction Price Adjustment (CPA) from the table below, selecting the
21 equation for CPA that corresponds to the value of CPF determined above.
22

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	$CPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$

23
24 Where
25 CPA = Compaction Price Adjustment for the compaction lot (\$)
26 CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
27 Q = Quantity in the compaction lot (tons)
28 UP = Unit price of the HMA in the compaction lot (\$/ton)
29

30 **5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting**
31 The first sentence is revised to read:
32

33 For a compaction subplot that has been tested with a nuclear density gauge that did not
34 meet the minimum of 91.5 percent of the theoretical maximum density in a compaction
35 lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the
36 Contractor may request that a core, taken at the same location as the nuclear density
37 test, be used for determination of the relative density of the compaction subplot.
38

39 **5-04.3(13) Surface Smoothness**
40 The second to last paragraph is revised to read:
41

42 When concrete pavement is to be placed on HMA, the surface tolerance of the HMA
43 shall be such that no surface elevation lies above the Plan grade minus the specified
44 Plan depth of concrete pavement. Prior to placing the concrete pavement, bring any

1 such irregularities to the required tolerance by grinding or other means allowed by the
2 Engineer.

3
4 **5-04.5 Payment**

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

6
7 The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for all
8 costs incurred to perform the Work described in Section 5-04.3(4)A.

9
10 5-05.AP5

11 **Section 5-05, Cement Concrete Pavement**

12 **April 1, 2019**

13 **5-05.1 Description**

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

15
16 **5-05.2 Materials**

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

18
19 Cement 9-01

20
21 In the first paragraph, the section reference for Concrete Patching Material is revised to read
22 "9-20.1".

23
24 The second paragraph is revised to read:

25
26 Cementitious materials are considered to be the following: portland cement, blended
27 hydraulic cement, fly ash, ground granulated blast furnace slag and microsilica fume.

28
29 **5-05.3(1) Concrete Mix Design for Paving**

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

31
32 In item 4a, "Portland Cement" is revised to read "Cement".

33
34 **5-05.3(3)E Smoothness Testing Equipment**

35 This section is revised to read:

36
37 Inertial profilers shall meet all requirements of AASHTO M 328 and be certified in
38 accordance with AASHTO R 56 within the preceding 12 months.

39
40 The inertial profiler operator shall be certified as required by AASHTO R 56 within three
41 years preceding profile measurement.

42
43 Equipment or operator certification by other states or a profiler certification facility will be
44 accepted provided the certification meets the requirements of AASHTO R 56.

45 Documentation verifying certification by another state shall be submitted to the Engineer
46 a minimum of 14 calendar days prior to profile measurement. Equipment certification
47 documentation shall include the information required by part 8.5 and 8.6 of AASHTO R
48 56. Operator documentation shall include a statement from the certifying state that
49 indicates the operator is certified to operate the inertial profiler to be used on the project.
50 The decision whether another state's certification meets the requirements of AASHTO R
51 56 shall be vested entirely in the Engineer.

5-05.3(4) Measuring and Batching Materials

Item number 2 is revised to read:

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

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

This section's title is revised to read:

Acceptance of Portland Cement or Blended Hydraulic Cement Concrete Pavement

The first sentence is revised to read:

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

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

This section's content is deleted.

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

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

The tie bar holes shall be clean before grouting.

5-05.3(12) Surface Smoothness

This section is revised to read:

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

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

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

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

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

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

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

The Contractor shall evaluate profiles for acceptance, incentive payments, disincentive payments, 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 2 calendar days of completing testing each section of pavement. 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 any areas specifically identified in the Contract. Exclude from the analysis the first 100 feet after the start of the paving operations and last 100 feet prior to the end of the paving operation, the first 100 feet on either side of bridge Structures and bridge approach slab. Report the MRI results in inches per mile for each 52.8 foot section and horizontal distance measurements in project stationing to the nearest foot. Include pay adjustments in the results. The Engineer will verify the analysis.

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

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

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

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

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

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

5-05.3(22) Repair of Defective Pavement Slabs

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

All sandblasting residue shall be removed.

5-05.4 Measurement

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

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

The third paragraph is revised to read:

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

The last paragraph is revised to read:

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

5-05.5 Payment

The paragraph following the Bid item "Cement Conc. Pavement", per cubic yard is supplemented with the following:

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

The Bid item "Ride Smoothness Compliance Adjustment", by calculation, and the paragraph following this bid item are revised to read:

"Ride Smoothness Compliance Adjustment", by calculation.

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

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

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

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.

5-05.5(1) Pavement Thickness

This section is revised to read:

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.	

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.

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

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

This section, including title, is revised to read:

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

2

3 **5-05.5(1)B Thickness Deficiency of More Than 0.05 Foot**

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

5

6 **5-05.5(1)B Vacant**

7

8 6-01.AP6

9 **Section 6-01, General Requirements for Structures**

10 **January 7, 2019**

11 This section is supplemented with the following new subsections:

12

13 **6-01.16 Repair of Defective Work**

14 **6-01.16(1) General**

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

18

19 Repair procedures for defective Work shall be submitted as Type 2 Working
20 Drawings. Type 2E Working Drawings shall be submitted when required by the
21 Engineer. As an alternative to submitting Type 2 or 2E Working Drawings, defective
22 Work within the limits of applicability of a pre-approved repair procedure may be
23 repaired using that procedure. Repairs using a pre-approved repair procedure shall
24 be submitted as a Type 1 Working Drawing.

25

26 Pre-approved repair procedures shall consist of the following:

27

- 28 • The procedures listed in Section 6-01.16(2)
- 29
- 30 • For precast concrete, repair procedures in the annual plant approval
31 process documents that have been approved for use by the Contracting
32 Agency.

33

34 All Working Drawings for repair procedures shall include:

35

- 36 • A description of the defective Work including location, extent and pictures
- 37
- 38 • Materials to be used in the repair. Repairs using manufactured products
39 shall include written manufacturer recommendations for intended uses of
40 the product, surface preparation, mixing, aggregate extension (if
41 applicable), ambient and surface temperature limits, placement methods,
42 finishing and curing.
- 43
- 44 • Construction procedures
- 45
- 46 • Plan details of the area to be repaired
- 47
- 48 • Calculations for Type 2E Working Drawings

49

50 Material manufacturer's instructions and recommendations shall supersede any
51 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 $\frac{3}{4}$ 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 $\frac{3}{4}$ inch, but shall be reduced if necessary to avoid damaging any reinforcement. For repairs on vertical 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

- 1 No. 310.2R, unless a different CSP is recommended by the patching
2 material manufacturer.
- 3
- 4 4. Inspect the concrete repair surface for delaminations, debonding,
5 microcracking and voids using hammer tapping or a chain drag.
6 Remove any additional loose or unsound concrete in accordance with
7 steps 1 through 3.
- 8
- 9 5. Select a patching material in accordance with Section 9-20.2 that is
10 appropriate for the repair location and thickness. The concrete
11 patching material shall be pumpable or self-consolidating as required
12 for the type of placement that suits the repair. The patching material
13 shall have a minimum compressive strength at least equal to the
14 specified compressive strength of the concrete.
- 15
- 16 6. Prepare the concrete surface and reinforcing steel in accordance with
17 the patching material manufacturer's recommendations. At a
18 minimum, clean the concrete surfaces (including perimeter edges)
19 and reinforcing steel using oil-free abrasive blasting or high-pressure
20 (minimum 5,000 psi) water blasting. All dirt, dust, loose particles, rust,
21 laitance, oil, film, microcracked/bruised concrete or foreign material of
22 any sort shall be removed. Damage to the epoxy coating on steel
23 reinforcing bars shall be repaired in accordance with Section 6-
24 02.3(24)H.
- 25
- 26 7. Construct forms if necessary, such as for patching vertical or
27 overhead surfaces or where patching extends to the edge or corner
28 of a placement.
- 29
- 30 8. When recommended by the patching material manufacturer, saturate
31 the concrete in the repair area and remove any free water at the
32 concrete surface to obtain a saturated surface dry (SSD) substrate.
33 When recommended by the patching material manufacturer, apply a
34 primer, scrub coat or bonding agent to the existing surfaces. Epoxy
35 bonding agents, if used, shall be Type II or Type V in accordance with
36 Section 9-26.1.
- 37
- 38 9. Place and consolidate the patching material in accordance with the
39 manufacturer's recommendations. Work the material firmly into all
40 surfaces of the repair area with sufficient pressure to achieve proper
41 bond to the concrete.
- 42
- 43 10. The patching material shall be textured, cured and finished in
44 accordance with the patching material manufacturer's
45 recommendations and/or the requirements for the repaired
46 component. Protect the newly placed patch from vibration in
47 accordance with Section 6-02.3(6)D.
- 48
- 49 11. When the completed repair does not match the existing concrete
50 color and will be visible to the public, a sand and cement mixture that
51 is color matched to the existing concrete shall be rubbed, brushed, or
52 applied to the surface of the patching material and the concrete.

1
2 **6-01.10 Utilities Supported by or Attached to Bridges**

3 In the third paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".
4

5 **6-01.12 Final Cleanup**

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

8 Structure decks shall be clean.
9

10 The second paragraph is deleted.
11

12 6-02.AP6

13 **Section 6-02, Concrete Structures**

14 **April 1, 2019**

15 **6-02.1 Description**

16 The first sentence is revised to read:
17

18 This Work consists of the construction of all Structures (and their parts) made of
19 portland cement or blended hydraulic cement concrete with or without reinforcement,
20 including bridge approach slabs.
21

22 **6-02.2 Materials**

23 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
24 Cement Concrete" are revised to read:
25

26 Cement	9-01
27 Aggregates for Concrete	9-03.1

28

29 The reference to metakaolin is deleted.
30

31 **6-02.3(2) Proportioning Materials**

32 The second paragraph is revised to read:
33

34 Unless otherwise specified, the Contractor shall use Type I or II portland cement or
35 blended hydraulic cement in all concrete as defined in Section 9-01.2(1).
36

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

39 With the Engineer's written concurrence, microsilica fume may be used in all
40 classifications of Class 4000, Class 3000, and commercial concrete and is limited to a
41 maximum of 10 percent of the cementitious material.
42

43 **6-02.3(2)A Contractor Mix Design**

44 The last sentence of the last paragraph is revised to read:
45

46 For all other concrete, air content shall be a minimum of 4.5 percent and a maximum of
47 7.5 percent for all concrete placed above the finished ground line unless noted
48 otherwise.
49

1 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

2 Item number 5 of the first paragraph is deleted.

3
4 Item number 6 of the first paragraph (after the preceding Amendment is applied) is
5 renumbered to 5.

6
7 **6-02.3(2)B Commercial Concrete**

8 The second paragraph is revised to read:

9
10 Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging
11 culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB
12 and RM signal standards, pedestals, cabinet bases, guardrail anchors, fence post
13 footings, sidewalks, concrete curbs, curbs and gutters, and gutters, the Contractor may
14 use commercial concrete. If commercial concrete is used for sidewalks, concrete curbs,
15 curbs and gutters, and gutters, it shall have a minimum cementitious material content of
16 564 pounds per cubic yard of concrete, shall be air entrained, and the tolerances of
17 Section 6-02.3(5)C shall apply.

18
19 **6-02.3(4) Ready-Mix Concrete**

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

21
22 All concrete, except lean concrete, shall be batched in a prequalified manual, semi-
23 automatic, or automatic plant as described in Section 6-02.3(4)A.

24
25 **6-02.3(4)D Temperature and Time For Placement**

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

27
28 The upper temperature limit for placement for Class 4000D concrete may be increased
29 to a maximum of 80°F if allowed by the Engineer.

30
31 **6-02.3(5)C Conformance to Mix Design**

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

- 33
34 1. Cement weight plus 5 percent or minus 1 percent of that specified in the
35 mix design.

36
37 **6-02.3(6)A1 Hot Weather Protection**

38 The first paragraph is revised to read:

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

47
48 The second sentence of the second paragraph is revised to read:

49
50 These surfaces include forms, reinforcing steel, steel beam flanges, and any others that
51 touch the concrete.

1 **6-02.3(7) Vacant**

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

3
4 **6-02.3(7) Tolerances**

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

7
8 Horizontal deviation of roadway crown points, cross-slope break points, and curb,
9 barrier or railing edges from alignment or work line: ± 1.0 inch

10
11 Deviation from plane: ± 0.5 inch in 10 feet

12
13 Deviation from plane for roadway surfaces: ± 0.25 inch in 10 feet

14
15 Deviation from plumb or specified batter: ± 0.5 inch in 10 feet, but not to exceed a total
16 of ± 1.5 inches

17
18 Vertical deviation from profile grade for roadway surfaces: ± 1 inch

19
20 Vertical deviation of top surfaces (except roadway surfaces): ± 0.75 inch

21
22 Thickness of bridge decks and other structural slabs not at grade: ± 0.25 inch

23
24 Length, width and thickness of elements such as columns, beams, crossbeams,
25 diaphragms, corbels, piers, abutments and walls, including dimensions to construction
26 joints in initial placements: $+0.5$ inch, -0.25 inch

27
28 Length, width and thickness of spread footing foundations: $+2$ inches, -0.5 inch

29
30 Horizontal location of the as-placed edge of spread footing foundations: The greater of
31 $\pm 2\%$ of the horizontal dimension of the foundation perpendicular to the edge and ± 0.5
32 inch. However, the tolerance shall not exceed ± 2 inches.

33
34 Location of opening, insert or embedded item at concrete surface: ± 0.5 inch

35
36 Cross-sectional dimensions of opening: ± 0.5 inch

37
38 Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint gaps with a
39 specified temperature range, measured at a stable temperature: ± 0.25 inch

40
41 Horizontal deviation of centerline of bearing pad, oak block or other bearing assembly:
42 ± 0.125 inch

43
44 Horizontal deviation of centerline of supported element from centerline of bearing pad,
45 oak block or other bearing assembly ± 0.25 inch

46
47 Vertical deviation of top of bearing pad, oak block or other bearing assembly: ± 0.125
48 inch

49
50 **6-02.3(10)C Finishing Equipment**

51 The first paragraph is revised to read:

1 The finishing machine shall be self-propelled and be capable of forward and reverse
2 movement under positive control. The finishing machine shall be equipped with augers
3 and a rotating cylindrical single or double drum screed. The finishing machine shall
4 have the necessary adjustments to produce the required cross section, line, and grade.
5 The finishing machine shall be capable of raising the screeds, augers, and any other
6 parts of the finishing mechanical operation to clear the screeded surface, and returning
7 to the specified grade under positive control. Unless otherwise allowed by the Engineer,
8 a finishing machine manufacturer technical representative shall be on site to assist the
9 first use of the machine on the Contract.

10

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

12

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

18

19 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement**

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

21

22 **6-02.3(10)D4 Vacant**

23

24 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

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

26

27 The Contractor shall texture the bridge deck surface to within 3-inches minimum and
28 24-inches maximum of the edge of concrete at expansion joints, within 1-foot minimum
29 and 2-feet maximum of the curb line, and within 3-inches minimum and 9-inches
30 maximum of the perimeter of bridge drain assemblies.

31

32 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

33 The second to last paragraph is revised to read:

34

35 The compression seal shall be a 2½ inch wide gland and shall conform to Section 9-
36 04.1(4).

37

38 The last paragraph is deleted.

39

40 **6-02.3(13)A Strip Seal Expansion Joint System**

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

43

44 **6-02.3(13)B Compression Seal Expansion Joint System**

45 The first paragraph is revised to read:

46

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

49

50 **6-02.3(14)C Pigmented Sealer for Concrete Surfaces**

51 This section is supplemented with the following new paragraph:

52

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

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.**

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

4
5 For slip-formed concrete, the reinforcing steel bars shall be tied at all intersections and
6 cross braced to keep the cage from moving during concrete placement. Cross bracing
7 shall be with additional reinforcing steel. Cross bracing shall be placed both
8 longitudinally and transversely.

9
10 After reinforcing steel bars are placed in a traffic or pedestrian barrier and prior to slip-
11 form concrete placement, the Contractor shall check clearances and reinforcing steel
12 bar placement. This check shall be accomplished by using a template or by operating
13 the slip-form machine over the entire length of the traffic or pedestrian barrier. All
14 clearance and reinforcing steel bar placement deficiencies shall be corrected by the
15 Contractor before slip-form concrete placement.

16
17 Precast concrete supports (or other accepted devices) shall be used to maintain the
18 concrete coverage required by the Plans. The precast concrete supports shall:

- 19
20 1. Have a bearing surface measuring not greater than 2 inches in either dimension,
21 and
22
23 2. Have a compressive strength equal to or greater than that of the concrete in which
24 they are embedded.

25
26 In slabs, each precast concrete support shall have either: (1) a grooved top that will hold
27 the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to the
28 reinforcing steel. If this wire is used around epoxy-coated bars, it shall be coated with
29 plastic.

30
31 Precast concrete supports may be accepted based on a Manufacturer's Certificate of
32 Compliance.

33
34 In lieu of precast concrete supports, the Contractor may use metal or all-plastic supports
35 to hold uncoated bars. Any surface of a metal support that will not be covered by at
36 least ½ inch of concrete shall be one of the following:

- 37
38 1. Hot-dip galvanized after fabrication in keeping with AASHTO M232 Class D;
39
40 2. Coated with plastic firmly bonded to the metal. This plastic shall be at least
41 3/32 inch thick where it touches the form and shall not react chemically with the
42 concrete when tested in the State Materials Laboratory. The plastic shall not
43 shatter or crack at or above -5°F and shall not deform enough to expose the
44 metal at or below 200°F; or
45
46 3. Stainless steel that meet the requirements of ASTM A493, Type 302. Stainless
47 steel chair supports are not required to be galvanized or plastic coated.

48
49 In lieu of precast concrete supports, epoxy-coated reinforcing bars may be supported by
50 one of the following:
51

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

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

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

3 inches to a concrete surface deposited against earth without intervening forms.

2½ inches to the top surface of a concrete bridge deck or bridge approach slab.

2 inches to a concrete surface when not specified otherwise in this section or in the Contract documents.

1½ inches to a concrete barrier or curb surface.

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

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

Reinforcing bar location for members 12 inches or less in thickness: ±0.25 inch

Reinforcing bar location for members greater than 12 inches in thickness: ±0.375 inch

- 1 Reinforcing bar location for bars placed at equal spacing within a plane: the greater
2 of either ± 1 inch or ± 1 bar diameter within the plane. The total number of bars shall
3 not be fewer than that specified.
4
5 The clearance between reinforcement shall not be less than the greater of the bar
6 diameter or 1 inch for unbundled bars. For bundled bars, the clearance between
7 bundles shall not be less than the greater of 1 inch or a bar diameter derived from
8 the equivalent total area of all bars in the bundle.
9
10 Longitudinal location of bends and ends of bars: ± 1 inch
11
12 Embedded length of bars and length of bar lap splices:
13
14 No. 3 through No. 11: -1 inch
15
16 No. 14 through No. 18: -2 inches
17
18 Concrete cover measured perpendicular to concrete surface (except for the top
19 surface of bridge decks, bridge approach slabs and other roadway surfaces): ± 0.25
20 inch
21
22 Concrete cover measured perpendicular to concrete surface for the top surface of
23 bridge decks, bridge approach slabs and other roadway surfaces: +0.25 inch, -0
24 inch
25
26 Before placing any concrete, the Contractor shall:
27
28 1. Clean all mortar from reinforcement, and
29
30 2. Obtain the Engineer's permission to place concrete after the Engineer has
31 inspected the placement of the reinforcing steel. (Any concrete placed without
32 the Engineer's permission shall be rejected and removed.)
33

34 **6-02.3(25)H Finishing**

35 The last paragraph is revised to read:

36
37 The Contractor may repair defects in prestressed concrete girders in accordance with
38 Section 6-01.16.
39

40 **6-02.3(25)I Fabrication Tolerances**

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

- 42
43 12. Stirrup Projection from Top of Girder:
44
45 Wide flange thin deck and slab girders: $\pm \frac{1}{2}$ inch
46
47 All other girders: $\pm \frac{3}{4}$ inch
48

49 **6-02.3(27) Concrete for Precast Units**

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

51

1 Type III portland cement or blended hydraulic cement is permitted to be used in precast
2 concrete units.
3

4 **6-02.3(28)B Casting**
5 In the second paragraph, the reference to Section 6-02.3(25)B is revised to read Section 6-
6 02.3(25)C.
7

8 **6-02.3(28)D Contractors Control Strength**
9 In the first paragraph, "WSDOT FOP for AASHTO T 23" is revised to read "FOP for AASHTO
10 T 23".
11

12 **6-02.3(28)E Finishing**
13 This section is supplemented with the following:
14

15 The Contractor may repair defects in precast panels in accordance with Section 6-
16 01.16.
17

18 6-03.AP6
19 **Section 6-03, Steel Structures**
20 **January 7, 2019**

21 **6-03.2 Materials**
22 In the first paragraph, the material reference for Paints is revised to read:
23

24 Paints and Related Materials 9-08
25

26 **6-03.3(25)A3 Ultrasonic Inspection**
27 The first paragraph (up until the colon) is revised to read:
28

29 Complete penetration groove welds on plates 5/16 inch and thicker in the following
30 welded assemblies or Structures shall be 100 percent ultrasonically inspected:
31

32 **6-03.3(33) Bolted Connections**
33 The first paragraph is supplemented with the following:
34

35 After final tightening of the fastener components, the threads of the bolts shall at a
36 minimum be flush with the end of the nut.
37

38 The following is inserted after the third sentence of the fourth paragraph:
39

40 When galvanized bolts are specified, tension-control galvanized bolts are not permitted.
41

42 6-05.AP6
43 **Section 6-05, Piling**
44 **January 2, 2018**

45 **6-05.3(9)A Pile Driving Equipment Approval**
46 The fourth sentence of the second paragraph is revised to read:
47

1 For prestressed concrete piles, the allowable driving stress in kips per square inch shall
2 be $0.095 \cdot \sqrt{f'_c}$ plus prestress in tension, and $0.85f'_c$ minus prestress in compression,
3 where f'_c is the concrete compressive strength in kips per square inch.
4

5 6-07.AP6

6 **Section 6-07, Painting**

7 **January 7, 2019**

8 **6-07.1 Description**

9 The first sentence is revised to read:

10

11 This work consists of containment, surface preparation, shielding adjacent areas from
12 work, testing and disposing of debris, furnishing and applying paint, and cleaning up
13 after painting is completed.
14

15 **6-07.2 Materials**

16 The material reference for Paint is revised to read:

17

18 Paint and Related Materials 9-08
19

20 **6-07.3(1)A Work Force Qualifications for Shop Application of Paint**

21 This section is supplemented with the following new sentence:

22

23 The work force may be accepted based on the approved facility.
24

25 **6-07.3(1)B Work Force Qualifications for Field Application of Paint**

26 The first two paragraphs are revised to read:

27

28 The Contractor preparing the surface and applying the paint shall be certified under
29 SSPC-QP 1 or NACE International Institute Contractor Accreditation Program (NIICAP)
30 AS 1.
31

32 The Contractor removing and otherwise disturbing existing paint containing lead and
33 other hazardous materials shall be certified under SSPC-QP 2, Category A or NIICAP
34 AS 2.
35

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

37

38 In lieu of the above SSPC or NIICAP certifications, the Contractor performing the
39 specified work shall complete both of the following actions:
40

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

42

43 2. The Contractor's quality control inspector(s) for the project shall be NACE-certified
44 CIP Level 3 or SSPC Protective Coating Inspector (PCI) Level 3.
45

46 **6-07.3(2) Submittals**

47 The first paragraph is supplemented with the following:

48

49 Each component of the plan shall identify the specification section it represents.
50

1 **6-07.3(2)B Contractor's Quality Control Program Submittal Component**

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

- 3
- 4 1. Description of the inspection procedures, tools, techniques and the acceptance
 - 5 criteria for all phases of work.
 - 6
 - 7 2. Procedure for implementation of corrective action for non-conformance work.
 - 8
 - 9 3. The paint system manufacturer's recommended methods of preventing defects.
 - 10
 - 11 4. The Contractor's frequency of quality control inspection for each phase of work.
 - 12
 - 13 5. Example of each completed form(s) of the daily quality control report used to
 - 14 document the inspection work and tests performed by the Contractor's quality
 - 15 control personnel.
 - 16

17 **6-07.3(2)C Paint System Manufacturer and Paint System Information Submittal**

18 **Component**

19 Item number 1 is revised to read:

- 20
- 21 1. Product data sheets and Safety Data Sheets (SDS) on the paint materials, paint
 - 22 preparation, and paint application, as specified by the paint manufacturer,
 - 23 including:
 - 24
 - 25 a. All application instructions, including the mixing and thinning directions.
 - 26
 - 27 b. Recommended spray nozzles and pressures.
 - 28
 - 29 c. Minimum and maximum drying time between coats.
 - 30
 - 31 d. Restrictions on temperature and humidity.
 - 32
 - 33 e. Repair procedures for shop and field applied coatings.
 - 34
 - 35 f. Maximum dry film thickness for each coat.
 - 36
 - 37 g. Minimum wet film thickness for each coat to achieve the specified minimum
 - 38 dry film thickness.
 - 39

40 **6-07.3(2)D Hazardous Waste Containment, Collection, Testing, and Disposal**

41 **Submittal Component**

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

43

44 The hazardous waste containment, collection, testing, and disposal shall meet all

45 Federal and State requirements, and the submittal component of the painting plan shall

46 include the following:

47

48 **6-07.3(2)E Cleaning and Surface Preparation Submittal Component**

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

- 50
- 51 b. Type, manufacturer, and brand of abrasive blast material and all associated
 - 52 additives, including Safety Data Sheets (SDS).

1
2 **6-07.3(3)B Quality Control and Quality Assurance for Field Application of Paint**

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

4
5 The Contractor's quality control operations shall include a minimum monitoring and
6 documenting the following for each working day:

7
8 Item number 1 in the fourth paragraph is revised to read:

- 9
10 1. Environmental conditions for painting in accordance with ASTM E 337.

11
12 Item number 4 in the fourth paragraph is revised to read:

- 13
14 4. Pictorial of surface preparation guides in accordance with SSPC-VIS 1, 3, 4, and 5.

15
16 Item number 5 in the fourth paragraph is revised to read:

- 17
18 5. Surface profile by Keanne-Tator comparator in accordance with ASTM D 4417 and
19 SSPC PA17.

20
21 **6-07.3(4) Paint System Manufacturer's Technical Representative**

22 This section is revised to read:

23
24 The paint system manufacturer's representative shall be present at the jobsite for the
25 pre-painting conference and for the first day of paint application, and shall be available
26 to the Contractor and Contracting Agency for consultation for the full project duration.

27
28 **6-07.3(5) Pre-Painting Conference**

29 The second paragraph is revised to read:

30
31 If the Contractor's key personnel change between any work operations, an additional
32 conference shall be held if requested by the Engineer.

33
34 **6-07.3(6)A Paint Containers**

35 In item number 2 of the first paragraph, "Federal Standard 595" is revised to read "SAE AMS
36 Standard 595".

37
38 **6-07.3(6)B Paint Storage**

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

- 40
41 2. The Contractor shall monitor and document daily the paint material storage facility
42 with a high-low recording thermometer device.

43
44 **6-07.3(7) Paint Sampling and Testing**

45 The first two paragraphs are revised to read:

46
47 The Contractor shall provide the Engineer 1 quart of each paint representing each lot.
48 Samples shall be accompanied with a Safety Data Sheet.

49
50 If the quantity of paint required for each component of the paint system for the entire
51 project is 20 gallons or less, then the paint system components will be accepted as
52 specified in Section 9-08.1(7).

1
2 **6-07.3(8)A Paint Film Thickness Measurement Gages**

3 The first paragraph is revised to read:

4
5 Paint dry film thickness measurements shall be performed with either a Type 1 pull-off
6 gage or a Type 2 electronic gage as specified in SSPC Paint Application Specification
7 No. 2, Procedure for Determining Conformance to Dry Coating Thickness
8 Requirements.
9

10 **6-07.3(9) Painting New Steel Structures**

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

12
13 Welded shear connectors are not required to painted.
14

15 The last paragraph is revised to read:

16
17 Temporary attachments or supports for scaffolding, containment or forms shall not
18 damage the paint system.
19

20 **6-07.3(9)A Paint System**

21 The first paragraph is revised to read:

22
23 The paint system applied to new steel surfaces shall consist of the following:

24
25 Option 1 (component based paint system):

26	Primer Coat – Inorganic Zinc Rich	9-08.1(2)C
27	Intermediate Coat – Moisture Cured Polyurethane	9-08.1(2)G
28	Intermediate Stripe Coat – Moisture Cured Polyurethane	9-08.1(2)G
29	Top Coat – Moisture Cured Polyurethane	9-08.1(2)H

30
31
32 Option 2 (performance based paint system):

33	Primer Coat – Inorganic Zinc Rich	9-08.1(2)M
34	Intermediate Coat – Epoxy	9-08.1(2)M
35	Intermediate Stripe Coat – Epoxy	9-08.1(2)M
36	Top Coat – Polyurethane	9-08.1(2)M

37
38
39 The following new paragraph is inserted after the first paragraph:

40
41 Paints and related materials shall be products listed in the current WSDOT Qualified
42 Products List (QPL). Component based paint systems shall be listed on the QPL in the
43 applicable sections of Section 9-08. Performance based systems shall be listed on the
44 current Northeast Protective Coatings Committee (NEPCOAT) Qualified Products List
45 “A” as listed on the WSDOT QPL in Section 9-08.1(2)M. If the paint and related
46 materials for the component based system is not listed in the current WSDOT QPL, a
47 sample shall be submitted to the State Materials Laboratory in Tumwater for evaluation
48 and acceptance in accordance with Section 9-08.
49

50 **6-07.3(9)C Mixing and Thinning Paint**

51 This section is revised to read:
52

1 The Contractor shall thoroughly mix paint in accordance with the manufacturer's written
2 recommendations and by mechanical means to ensure a uniform and lump free
3 composition. Paint shall not be mixed by means of air stream bubbling or boxing. Paint
4 shall be mixed in the original containers and mixing shall continue until all pigment or
5 metallic powder is in suspension. Care shall be taken to ensure that the solid material
6 that has settled to the bottom of the container is thoroughly dispersed. After mixing, the
7 Contractor shall inspect the paint for uniformity and to ensure that no unmixed pigment
8 or lumps are present.

9
10 Catalysts, curing agents, hardeners, initiators, or dry metallic powders that are
11 packaged separately may be added to the base paint in accordance with the paint
12 manufacturer's written recommendations and only after the paint is thoroughly mixed to
13 achieve a uniform mixture with all particles wetted. The Contractor shall then add the
14 proper volume of curing agent to the correct volume of base and mix thoroughly. The
15 mixture shall be used within the pot life specified by the manufacturer. Unused portions
16 shall be discarded at the end of each work day. Accelerants are not permitted except as
17 allowed by the Engineer.

18
19 The Contractor shall not add additional thinner at the application site except as allowed
20 by the Engineer. The amount and type of thinner, if allowed, shall conform to the
21 manufacturer's specifications. If recommended by the manufacturer and allowed by the
22 Engineer, a measuring cup shall be used for the addition of thinner to any paint with
23 graduations in ounces. No un-measured addition of thinner to paint will be allowed. Any
24 paint found to be thinned by unacceptable methods will be rejected.

25
26 When recommended by the manufacturer, the Contractor shall constantly agitate paint
27 during application by use of paint pots equipped with mechanical agitators.

28
29 The Contractor shall strain all paint after mixing to remove undesirable matter, but
30 without removing the pigment or metallic powder.

31
32 Paint shall be stored and mixed in a secure, contained location to eliminate the potential
33 for spills into State waters and onto the ground and highway surfaces.

34 35 **6-07.3(9)D Coating Thickness**

36 This section is revised to read:

37
38 Dry film thickness shall be measured in accordance with SSPC Paint Application
39 Specification No. 2, *Procedure for Determining Conformance to Dry Coating Thickness*
40 *Requirements*.

41
42 The minimum dry film thickness of the primer coat shall not be less than 2.5 mils.

43
44 The minimum dry film thickness of each coat (combination of intermediate and
45 intermediate stripe, and top) shall be not less than 3.0 mils.

46
47 The dry film thickness of each coat shall not be thicker than the paint manufacturer's
48 recommended maximum thickness.

49
50 The minimum wet film thickness of each coat shall be specified by the paint
51 manufacturer to achieve the minimum dry film thickness.

1 Film thickness, wet and dry, will be measured by gages conforming to Section 6-
2 07.3(8)A.

3
4 Wet measurements will be taken immediately after the paint is applied in accordance
5 with ASTM D4414. Dry measurements will be taken after the coating is dry and hard in
6 accordance with SSPC Paint Application Specification No. 2.

7
8 Each painter shall be equipped with wet film thickness gages and shall be responsible
9 for performing frequent checks of the paint film thickness throughout application.

10
11 Coating thickness measurements may be made by the Engineer after the application of
12 each coat and before the application of the succeeding coat. In addition, the Engineer
13 may inspect for uniform and complete coverage and appearance. One hundred percent
14 of all thickness measurements shall meet or exceed the minimum wet film thickness. In
15 areas where wet film thickness measurements are impractical, dry film thickness
16 measurements may be made. If a question arises about an individual coat's thickness
17 or coverage, it may be verified by the use of a Tooke gage in accordance with ASTM
18 D4138.

19
20 If the specified number of coats does not produce a combined dry film thickness of at
21 least the sum of the thicknesses required per coat, if an individual coat does not meet
22 the minimum thickness, or if visual inspection shows incomplete coverage, the coating
23 system will be rejected and the Contractor shall discontinue painting and surface
24 preparation operations and shall submit a Type 2 Working Drawing of the repair
25 proposal. The repair proposal shall include documentation demonstrating the cause of
26 the less-than-minimum thickness, along with physical test results, as necessary, and
27 modifications to Work methods to prevent similar results. The Contractor shall not
28 resume painting or surface preparation operations until receiving the Engineer's
29 acceptance of the completed repair.

30
31 **6-07.3(9)E Surface Temperature Requirements Prior to Application of Paint**

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

33
34 **6-07.3(9)E Environmental Condition Requirements Prior to Application of Paint**

35 Paint shall be applied only during periods when:

- 36
37 1. Air and steel temperatures are in accordance with the paint manufacturer's
38 recommendations but in no case less than 35°F nor greater than 115°F.
39
40 2. Steel surface temperature is a minimum of 5°F above the dew point.
41
42 3. Steel surface is not wet.
43
44 4. Relative humidity is within the manufacturer's recommended range.
45
46 5. The anticipated ambient temperature will remain above 35°F or the
47 manufacturer's minimum temperature, whichever is greater, during the paint
48 drying and curing period.

49
50 Application will not be allowed if conditions are not favorable for proper application and
51 performance of the paint.
52

1 Paint shall not be applied when weather conditions are unfavorable to proper curing. If a
2 paint system manufacturer's recommendations allow for application of a paint under
3 environmental conditions other than those specified, the Contractor shall submit a Type
4 2 Working Drawing consisting of a letter from the paint manufacturer specifying the
5 environmental conditions under which the paint can be applied. Application of paint
6 under environmental conditions other than those specified in this section will not be
7 allowed without the Engineer's concurrence.
8
9

10 **6-07.3(9)F Shop Surface Cleaning and Preparation**

11 The last sentence is revised to read:

12
13 The entire steel surface to be painted, including surfaces specified in Section 6-
14 07.3(9)G to receive a mist coat of primer, shall be cleaned to a near white condition in
15 accordance with SSPC-SP 10, *Near-white Metal Blast Cleaning*, and shall be in this
16 condition immediately prior to paint application.
17

18 **6-07.3(9)G Application of Shop Primer Coat**

19 The first paragraph is supplemented with the following:

20
21 Repairs of the shop primer coat shall be prepared in accordance with the painting plan.
22 Shop primer coat repair paint shall be selected from the approved component based or
23 performance based paint system in accordance with Section 6-07.3(10)H.
24

25 **6-07.3(9)H Containment for Field Coating**

26 This section is revised to read:

27
28 The Contractor shall use a containment system in accordance with Section 6-07.3(10)A
29 for surface preparation and prime coating of all uncoated areas remaining, including
30 bolts, nuts, washers, and splice plates.
31

32 During painting operations of the intermediate, stripe and top coats the Contractor shall
33 furnish, install, and maintain drip tarps below the areas to be painted to contain all
34 spilled paint, buckets, brushes, and other deleterious material, and prevent such
35 materials from reaching the environment below or adjacent to the structure being
36 painted. Drip tarps shall be absorbent material and hung to minimize puddling. The
37 Contractor shall evaluate the project-specific conditions to determine the specific type
38 and extent of containment needed to control the paint emissions and shall submit a
39 containment plan in accordance with Section 6-07.3(2).
40

41 **6-07.3(9)I Application of Field Coatings**

42 This section is revised to read:

43
44 An on-site supervisor shall be present for each work shift at the bridge site.
45

46 Upon completion of erection Work, all uncoated or damaged areas remaining, including
47 bolts, nuts, washers, and splice plates, shall be prepared in accordance with Section 6-
48 07.3(9)F, followed by a field primer coat of a zinc-rich primer and final coats of paint
49 selected from the approved component or performance based paint system in
50 accordance with Section 6-07.3(10)H. . The intermediate, intermediate stripe, and top
51 coats shall be applied in accordance with the manufacturer's written recommendations.
52

1 Upon completion of erection Work, welds for steel column jackets may be prepared in
2 accordance with SSPC-SP 15, Commercial Grade Power Tool Cleaning.
3
4 The minimum drying time between coats shall be as shown in the product data sheets,
5 but not less than 12 hours. The Contractor shall determine whether the paint has cured
6 sufficiently for proper application of succeeding coats.
7
8 The maximum time between intermediate and top coats shall be in accordance with the
9 manufacturer's written recommendations. If the maximum time between coats is
10 exceeded, all newly coated surfaces shall be prepared to SSPC-SP 7, *Brush-off Blast*
11 *Cleaning*, and shall be repainted with the same paint that was cleaned, at no additional
12 cost to the Contracting Agency.
13
14 Each coat shall be applied in a uniform layer, completely covering the preceding coat.
15 The Contractor shall correct runs, sags, skips, or other deficiencies before application of
16 succeeding coats. Such corrective work may require re-cleaning, application of
17 additional paint, or other means as determined by the Engineer, at no additional cost to
18 the Contracting Agency.
19
20 Dry film thickness measurements will be made in accordance with Section 6-07.3(9)D.
21
22 All paint damage that occurs shall be repaired in accordance with the manufacturer's
23 written recommendations. On bare areas or areas of insufficient primer thickness, the
24 repair shall include field-applied zinc-rich primer and the final coats of paint selected
25 from the approved component or performance based paint system in accordance with
26 Section 6-07.3(10)H. On areas where the primer is at least equal to the minimum
27 required dry film thickness, the repair shall include the application of the final two coats
28 of the paint system. All paint repair operations shall be performed by the Contractor at
29 no additional cost or time to the Contracting Agency.
30
31 **6-07.3(10)A Containment**
32 The first sentence of the third paragraph is revised to read:
33
34 Emissions shall be assessed by Visible Emission Observations (Method A) in SSPC
35 Technology Update No. 7, *Conducting Ambient Air, Soil, and Water Sampling of*
36 *Surface Preparation and Paint Disturbance Activities*, Section 6.2 and shall be limited to
37 the Level A Acceptance Criteria Option Level 0 Emissions standard.
38
39 **6-07.3(10)D Surface Preparation Prior to Overcoat Painting**
40 The first paragraph is revised to read:
41
42 The Contractor shall remove any visible oil, grease, and road tar in accordance with
43 SSPC-SP 1, *Solvent Cleaning*.
44
45 The second paragraph is revised to read:
46
47 Following any preparation by SSPC-SP1, all steel surfaces to be painted shall be
48 prepared in accordance with SSPC-SP 7, *Brush-off Blast Cleaning*. Surfaces
49 inaccessible to brush-off blast shall be prepared in accordance with SSPC-SP 3, *Power*
50 *Tool Cleaning*, as allowed by the Engineer.
51
52 The first sentence of the third paragraph is revised to read:

1
2 Following brush-off blast cleaning, the Contractor shall perform spot abrasive blast
3 cleaning in accordance with SSPC-SP 6, *Commercial Blast Cleaning*.
4
5 The second to last sentence of the third paragraph is revised to read:
6
7 For small areas, as allowed by the Engineer, the Contractor may substitute cleaning in
8 accordance with SSPC-SP 15, *Commercial Grade Power Tool Cleaning*.
9
10 **6-07.3(10)G Treatment of Pack and Rust Gaps**
11 The second paragraph is revised to read:
12
13 Pack rust forming a gap between steel surfaces of $\frac{1}{16}$ to $\frac{1}{4}$ inch shall be cleaned to a
14 depth of at least one half of the gap width. The gaps shall be cleaned and prepared in
15 accordance with SSPC-SP6. The cleaned gap shall be treated with rust penetrating
16 sealer, prime coated, and then caulked to form a watertight seal along the top edge and
17 the two sides of the steel pieces involved, using the rust penetrating sealer and caulk as
18 accepted by the Engineer. The bottom edge or lowest edge of the steel pieces involved
19 shall not be caulked.
20
21 The third paragraph is supplemented with the following:
22
23 Caulk shall be a single-component urethane sealant conforming to Section 9-08.7.
24
25 The fifth paragraph is revised to read:
26
27 At locations where gaps between steel surfaces exceed $\frac{1}{4}$ inch, the Contractor shall
28 clean and prepare the gap in accordance SSPC-SP6, apply the rust penetrating sealer,
29 apply the prime coat, and then fill the gap with foam backer rod material as accepted by
30 the Engineer. The foam backer rod material shall be of sufficient diameter to fill the
31 crevice or gap. The Contractor shall apply caulk over the foam backer rod material to
32 form a watertight seal.
33
34 This section is supplemented with the following new paragraph:
35
36 Caulk and backer rod, if needed, shall be placed prior to applying the top coat. The
37 Contractor, with the concurrence of the Engineer, may apply the rust penetrating sealer
38 after application of the prime coat provided the primer is removed in the areas to be
39 sealed. The areas to be sealed shall be re-cleaned and re-prepared in accordance with
40 SSPC-SP6.
41
42 **6-07.3(10)H Paint System**
43 The first paragraph is revised to read:
44
45 The paint system applied to existing steel surfaces shall consist of the following five-
46 coat system:
47
48 Option 1 (component based system):
49
50 Primer Coat – Zinc-filled Moisture Cured Polyurethane 9-08.1(2)F
51 Primer Stripe Coat - Moisture Cured Polyurethane 9-08.1(2)F
52 Intermediate Coat - Moisture Cured Polyurethane 9-08.1(2)G

1	Intermediate Stripe Coat - Moisture Cured Polyurethane	9-08.1(2)G
2	Top Coat - Moisture Cured Polyurethane	9-08.1(2)H
3		
4	Option 2 (performance based system):	
5		
6	Primer Coat – Zinc-rich Epoxy	9-08.1(2)N
7	Primer Stripe Coat – Epoxy	9-08.1(2)N
8	Intermediate Coat – Epoxy	9-08.1(2)N
9	Intermediate Stripe Coat – Epoxy	9-08.1(2)N
10	Top Coat – Polyurethane	9-08.1(2)N

11
12 The following new paragraph is inserted after the first paragraph:
13

14 Paints and related materials shall be a product listed in the current WSDOT Qualified
15 Products List (QPL). Component based paint systems shall be listed on the QPL in the
16 applicable sections of Section 9-08. Performance based systems shall be listed on the
17 current Northeast Protective Coatings Committee (NEPCOAT) Qualified Products List
18 “B” as listed on the WSDOT QPL in Section 9-08.1(2)N. If the paint and related material
19 for the component based system is not listed in the current WSDOT QPL, a sample
20 shall be submitted to the State Materials Laboratory in Tumwater for evaluation and
21 acceptance in accordance with Section 9-08.
22

23 **6-07.3(10)J Mixing and Thinning Paint**

24 This section is revised to read:
25

26 Mixing and thinning paint shall be in accordance with Section 6-07.3(9)C.
27

28 **6-07.3(10)K Coating Thickness**

29 This section is revised to read:
30

31 Coating thickness shall be in accordance with Section 6-07.3(9)D except the minimum
32 dry film thickness of each coat (combination of primer and primer stripe, combination of
33 intermediate and intermediate stripe, and top) shall not be less than 3.0 mils.
34

35 **6-07.3(10)L Environmental Condition Requirements Prior to Application of Paint**

36
37 This section is revised to read:
38

39 Environmental conditions shall be in accordance with Section 6-07.3(9)E.
40

41 **6-07.3(10)M Steel Surface Condition Requirements Prior to Application of Paint**

42
43 The third paragraph is revised to read:
44

45 Edges of existing paint shall be feathered in accordance with SSPC-PA 1, *Shop, Field,*
46 *and Maintenance Coating of Metals*, Note 15.20.
47

48 **6-07.3(10)N Field Coating Application Methods**

49 The third sentence is revised to read:
50

51 The Contractor may apply stripe coat paint using spray or brush but shall follow spray
52 application using a brush to ensure complete coverage around structural geometric

1 irregularities and to push the paint into gaps between existing steel surfaces and around
2 rivets and bolts.

3 4 **6-07.3(10)O Applying Field Coatings**

5 The second to last paragraph is revised to read:

6
7 Each application of primer, primer stripe, intermediate, intermediate stripe, and top coat
8 shall be considered as separately applied coats. The Contractor shall not use a
9 preceding or subsequent coat to remedy a deficiency in another coat. The Contractor
10 shall apply the top coat to at least the minimum specified top coat thickness, to provide
11 a uniform appearance and consistent finish coverage.

12 13 **6-07.3(10)P Field Coating Repair**

14 The second sentence is revised to read:

15
16 Repair areas shall be cleaned of all damaged paint and the system reapplied using all
17 coats typical to the paint system and shall meet the minimum coating thickness.

18 19 **6-07.3(11)A Painting of Galvanized Surfaces**

20 This section is revised to read:

21
22 All galvanized surfaces receiving paint shall be prepared for painting in accordance with
23 the ASTM D 6386. The method of preparation shall be brush-off in accordance with
24 SSPC-SP16 *Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel,*
25 *Stainless Steels, and Non-Ferrous Metals* or as otherwise allowed by the Engineer. The
26 Contractor shall not begin painting until receiving the Engineer's acceptance of the
27 prepared galvanized surface. For galvanized bolts used for replacement of deteriorated
28 existing rivets, the Contractor, with the concurrence of the Engineer and after successful
29 demonstration testing, may prepare galvanized surfaces in accordance with SSPC-SP1
30 followed by SSPC-SP2, *Hand Tool Cleaning* or SSPC-SP3, *Power Tool Cleaning*. The
31 demonstration testing shall include adhesion testing of the first coat of paint over
32 galvanized bolts, nuts, and washers or a representative galvanized surface. Adhesion
33 testing shall be performed in accordance with ASTM D 4541 for 600 psi minimum
34 adhesion. A minimum of 3 successful tests shall be performed on the galvanized
35 surface prepared and painted using the same methods and materials to be used on the
36 galvanized bolts, nuts and washers in the field.

37 38 **6-07.3(11)A2 Paint Coat Materials**

39 This section is revised to read:

40
41 The Contractor shall paint the dry surface as follows:

- 42
43 1. The first coat over a galvanized surface shall be an epoxy polyamide
44 conforming to Section 9-08.1(2)E . In the case of galvanized bolts used for
45 replacement of deteriorated existing rivets and for small surface areas less
46 than or equal to one square foot, an intermediate moisture cured polyurethane
47 conforming to Section 9-08.1(2)G may be used as a first coat. In both cases
48 the first coat shall be compatible with galvanizing and as recommended by the
49 top coat manufacturer.
- 50
51 2. The second coat shall be a top coat moisture cured aliphatic polyurethane
52 conforming to Section 9-08.1(2)H or a top coat polyurethane conforming to

Section 6-07.3(10)H Option 2 NEPCOAT performance based paint specification compatible with the first coat as recommended by the manufacturer.

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

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

This section is revised to read:

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

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

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

The first three paragraphs are revised to read:

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

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

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

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

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

6-07.3(11)B5 Testing

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

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

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

Rejected assemblies shall be repaired or recoated by the Contractor, at no additional expense to the Contracting Agency, in accordance with the powder coating

1 manufacturer's recommendation as detailed in the project-specific powder coating plan,
2 until the assemblies satisfy the acceptance testing requirements.

3 4 **6-07.3(12) Painting Ferry Terminal Structures**

5 This section is revised to read:

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

9
10 This section is supplemented with the following new subsections:

11 12 **6-07.3(12)A Painting New Steel Ferry Terminal Structures**

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

- 16
17 1. Steel surfaces to be field welded.
- 18
19 2. Steel surfaces to be greased.
- 20
21 3. The length of piles designated in the Plans not requiring painting.

22
23 The minimum drying time between coats shall be as shown in the product data sheets,
24 but not less than 12 hours. The Contractor shall determine whether the paint has cured
25 sufficiently for proper application of succeeding coats.

26 27 **6-07.3(12)A1 Paint Systems**

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

32
33 Paint systems for Piling, Landing Aids and Life Ladders shall be as specified in the
34 Special Provisions.

35 36 **6-07.3(12)A2 Paint Color**

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

38 39 **6-07.3(12)A3 Coating Thickness**

40 Coating thicknesses shall be as specified in the Special Provisions.

41 42 **6-07.3(12)A4 Application of Field Coatings**

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

44
45 Upon completion of erection Work, all uncoated or damaged areas remaining,
46 including bolts, nuts, washers, splice plates, and field welds shall be prepared in
47 accordance with SSPC-SP 1, Solvent Cleaning, followed by SSPC-SP 11, *Power*
48 *Tool Cleaning to Bare Metal*. Surface preparation shall be measured according to
49 SSPC-VIS 3. SSPC-SP 11 shall be performed for a minimum distance of 1 inch
50 from the uncoated or damaged area. In addition, intact shop-applied coating
51 surrounding the area shall be abraded or sanded for a distance of 6 inches out from
52 the properly prepared clean/bare metal areas to provide adequate roughness for

1 application of field coatings. All sanding dust and contamination shall be removed
2 prior to application of field coatings.

3
4 Field applied paint for Structural Steel shall conform to Section 6-07.3(10)H, as
5 applicable. Field applied paint for Piling, Landing Aids and Life Ladders shall be as
6 specified in the Special Provisions.

7
8 For areas above the tidal zone, the minimum drying time between coats shall be as
9 shown in the product data sheets, but not less than 12 hours. For areas within the
10 tidal zone, the minimum drying time between coats shall be as recommended by
11 the paint system manufacturer. The Contractor shall determine whether the paint
12 has cured sufficiently for proper application of succeeding coats.

13
14 The maximum time between intermediate and top coats shall be in accordance with
15 the manufacturer's written recommendations. If the maximum time between coats
16 is exceeded, all newly coated surfaces shall be prepared to SSPC-SP 3, *Power*
17 *Tool Cleaning*, and shall be repainted with the same paint that was cleaned, at no
18 additional cost to the Contracting Agency.

19
20 Each coat shall be applied in a uniform layer, completely covering the preceding
21 coat. The Contractor shall correct runs, sags, skips, or other deficiencies before
22 application of succeeding coats. Such corrective work may require re-cleaning,
23 application of additional paint, or other means as determined by the Engineer, at no
24 additional cost to the Contracting Agency.

25
26 Surface preparation for underwater locations shall consist of removing all dirt, oil,
27 grease, loose paint, loose rust, and marine growth from the area that is to be
28 repaired. The sound paint surrounding the damaged area shall be roughened to
29 meet the requirements of the manufacturer. Paint for underwater applications shall
30 be as specified in the Special Provisions and shall be applied in accordance with
31 the manufacturer's recommendations.

32 33 **6-07.3(12)B Painting Existing Steel Ferry Terminal Structures**

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

36 37 **6-07.3(12)B1 Containment**

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

41
42 Prior to cleaning the Contractor shall enclose all exposed electrical and mechanical
43 equipment to seal out dust, water, and paint. Non-metallic surfaces shall not be
44 abrasive blasted or painted. Unless otherwise specified, the following metallic
45 surfaces shall not be painted and shall be protected from abrasive blasting and
46 painting:

- 47
48 1. Galvanized and stainless steel surfaces not previously painted,
49
50 2. Non-skid surfaces,
51
52 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 substrate, and those exhibiting visible corrosion, shall be prepared down to clean bare steel in accordance with SSPC-SP 15, *Commercial Grade Power Tool Cleaning*. Surface preparation shall be measured according to SSPC-VIS 3. SSPC-SP 15 shall be performed for a minimum distance of 1 inch from the area exhibiting failure or visible corrosion. In addition, intact shop-applied coating surrounding the repair 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 repair coatings. All sanding dust and contamination shall be removed prior to application of repair coatings. Surface preparation for full paint removal shall be in accordance with Section 6-07.3(10)E except SSPC-SP 11 will be permitted as detailed in the Contractor's painting plan and as allowed by the Engineer.

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 as required by the coating manufacturer.

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

Surface preparation for the underside of bridge decks (consisting of either a steel grid system of main bars or tees and a light gauge metal form, in-filled with concrete or a corrugated light gauge metal form, infilled with concrete) shall be in accordance with SSPC-SP 2, *Hand Tool Cleaning* or SSPC-SP 3, *Power Tool Cleaning* with the intent of not causing further damage to the light gauge metal form. Following removal of any pack rust and corroded sections from the underside of the bridge deck, cleaning and flushing to remove salts and prior to applying the primer coat, the Contractor shall seal the entire underside of the deck system with rust-penetrating sealer. Damage to galvanized metal forms and/or grids shall be

1 repaired in accordance with ASTM A 780, with the preferred method of repair using
2 paints containing zinc dust.

3
4 **6-07.3(12)B3 Paint Systems**

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

9
10 Paint systems for Piling, Landing Aids, Life Ladders, underside of vehicle transfer
11 span bridge decks, non-skid surface treated areas, and anti-graffiti coatings shall
12 be as specified in the Special Provisions.

13
14 **6-07.3(12)B4 Paint Color**

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

16
17 **6-07.3(12)B5 Coating Thickness**

18 Coating thicknesses shall be as specified in the Special Provisions.

19
20 **6-07.3(12)B6 Application of Field Coatings**

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

- 23
24 1. All coatings applied in the field shall be applied using a brush or roller.
25 Spray application methods may be used if allowed by the Engineer.
26
27 2. Applied coatings shall not be immersed until the coating has been cured
28 as required by the coating manufacturer.
29
30 3. Non-skid surface treatment products shall be applied in accordance with
31 the manufacturer's recommendations.
32
33 4. Anti-graffiti coatings shall be applied in one coat following application of
34 the top coat, where specified in the Plans.
35

36 **6-07.3(14)B Reference Standards**

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

39
40 SSPC CS 23.00 Specification for the Application of Thermal Spray Coatings
41 (Metallizing) of Aluminum, Zinc, and Their Alloys and
42 Composites for the Corrosion Protection of Steel
43

44 6-08.AP6

45 **Section 6-08, Bituminous Surfacing on Structure Decks**
46 **January 7, 2019**

47 **6-08.3(7)A Concrete Deck Preparation**

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

49
50 The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish
51 the extent of bridge deck repair in accordance with Section 6-09.3(6).

1
2 **6-08.3(8)A Structure Deck Preparation**

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

4
5 Prior to applying the primer or sheet membrane, all dust and loose material shall be
6 removed from the Structure Deck.

7
8 6-09.AP6

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

10 **January 7, 2019**

11 **6-09.3 Construction Requirements**

12 This section is supplemented with the following new subsection:

13
14 **6-09.3(15) Sealing and Texturing Concrete Overlay**

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

20
21 After all cracks have been filled and sealed and the HMWM resin has cured, the
22 concrete overlay surface shall receive a longitudinally sawn texture in accordance with
23 Section 6-02.3(10)D5.

24
25 Traffic shall not be permitted on the finished concrete until it has reached a minimum
26 compressive strength of 3,000 psi as verified by rebound number determined in
27 accordance with ASTM C805 and the longitudinally sawn texture is completed.

28
29 **6-09.3(1)B Rotary Milling Machines**

30 This section is revised to read:

31
32 Rotary milling machines used to remove an upper layer of existing concrete overlay,
33 when present, shall have a maximum operating weight of 50,000 pounds and conform
34 to Section 6-08.3(5)B.

35
36 **6-09.3(1)C Hydro-Demolition Machines**

37 The first sentence of this section is revised to read:

38
39 Hydro-demolition machines shall consist of filtering and pumping units operating in
40 conjunction with a remote-controlled robotic device, using high-velocity water jets to
41 remove sound concrete to the nominal scarification depth shown in the Plans with a
42 single pass of the machine, and with the simultaneous removal of deteriorated concrete.

43
44 **6-09.3(1)D Shot Blasting Machines**

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

46
47 **6-09.3(1)D Vacant**

48
49 **6-09.3(1)E Air Compressor**

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

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

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

6-09.3(5)A General

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

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

This section is supplemented with the following:

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

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

This section's title is revised to read:

Testing of Hydro-Demolition Machines

The second paragraph is revised to read:

1
2 In the “sound” area of concrete, the equipment shall be programmed to remove
3 concrete to the nominal scarification depth shown in the Plans with a single pass of the
4 machine.
5
6 **6-09.3(5)D Shot Blasting**
7 This section, including title, is revised to read:
8
9 **6-09.3(5)D Vacant**
10
11 **6-09.3(5)E Rotomilling**
12 This section, including title, is revised to read:
13
14 **6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling**
15 When the Contractor elects to remove the upper layer of existing concrete overlay,
16 when present, by rotomilling prior to final scarifying, the entire concrete surface of the
17 bridge deck shall be milled to remove the surface matrix to the depth specified in the
18 Plans with a tolerance as specified in Section 6-08.3(5)B. The operating parameters of
19 the rotary milling machine shall be monitored in order to prevent the unnecessary
20 removal of concrete below the specified removal depth.
21
22 **6-09.3(6) Further Deck Preparation**
23 The first paragraph is revised to read::
24
25 Once the lane or strip being overlaid has been cleaned of debris from scarifying, the
26 Contractor, with the Engineer, shall perform a visual inspection of the scarified surface.
27 The Contractor shall mark those areas of the existing bridge deck that are authorized by
28 the Engineer for further deck preparation by the Contractor.
29
30 Item number 4 of the second paragraph is deleted.
31
32 The first sentence of the third paragraph is deleted.
33
34 **6-09.3(6)A Equipment for Further Deck Preparation**
35 This section is revised to read:
36
37 Further deck preparation shall be performed using either power driven hand tools
38 conforming to Section 6-09.3(1)A, or hydro-demolition machines conforming to Section
39 6-09.3(1)C.
40
41 **6-09.3(6)B Deck Repair Preparation**
42 The second paragraph is deleted.
43
44 The last sentence of the second paragraph (after the preceding Amendment is applied) is
45 revised to read:
46
47 In no case shall the depth of a sawn vertical cut exceed $\frac{3}{4}$ inch or to the top of the top
48 steel reinforcing bars, whichever is less.
49
50 The first sentence of the third to last paragraph is revised to read:
51

1 Where existing steel reinforcing bars inside deck repair areas show deterioration greater
2 than 20-percent section loss, the Contractor shall furnish and place steel reinforcing
3 bars alongside the deteriorated bars in accordance with the details shown in the
4 Standard Plans.

5
6 The last paragraph is deleted.

7
8 **6-09.3(7) Surface Preparation for Concrete Overlay**

9 The first seven paragraphs are deleted and replaced with the following:

10
11 Following the completion of any required further deck preparation the entire lane or strip
12 being overlaid shall be cleaned to be free from oil and grease, rust and other foreign
13 material that may still be present. These materials shall be removed by detergent-
14 cleaning or other method accepted by the Engineer followed by sandblasting.

15
16 After detergent cleaning and sandblasting is completed, the entire lane or strip being
17 overlaid shall be cleaned in final preparation for placing concrete.

18
19 Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or strip being
20 cleaned in final preparation for placing concrete shall be discontinued when final
21 preparation is begun. Scarifying and hand tool chipping shall remain suspended until
22 the concrete has been placed and the requirement for curing time has been satisfied.
23 Sandblasting and cleaning shall remain suspended for the first 24 hours of curing time
24 after the completion of concrete placing.

25
26 Scarification, and removal of the upper layer of concrete overlay when present, may
27 proceed during the final cleaning and overlay placement phases of the Work on
28 adjacent portions of the Structure so long as the scarification and concrete overlay
29 removal operations are confined to areas which are a minimum of 100 feet away from
30 the defined limits of the final cleaning or overlay placement in progress. If the
31 scarification and concrete overlay removal impedes or interferes in any way with the
32 final cleaning or overlay placement as determined by the Engineer, the scarification and
33 concrete overlay removal Work shall be terminated immediately and the scarification
34 and concrete overlay removal equipment removed sufficiently away from the area being
35 prepared or overlaid to eliminate the conflict. If the grade is such that water and
36 contaminants from the scarification and concrete overlay removal operation will flow into
37 the area being prepared or overlaid, the scarification and concrete overlay removal
38 operation shall be terminated and shall remain suspended for the first 24 hours of curing
39 time after the completion of concrete placement.

40
41 **6-09.3(11) Placing Concrete Overlay**

42 The first sentence of item number 3 in the fourth paragraph is revised to read:

43
44 Concrete shall not be placed when the temperature of the concrete surface is less than
45 45°F or greater than 75°F, and wind velocity at the construction site is in excess of 10
46 mph.

47
48 **6-09.3(12) Finishing Concrete Overlay**

49 The third paragraph is deleted.

50
51 The last paragraph is deleted.

52

1 **6-09.3(13) Curing Concrete Overlay**
2 The first sentence of the first paragraph is revised to read:
3
4 As the finishing operation progresses, the concrete shall be immediately covered with a
5 single layer of clean, new or used, wet burlap.
6
7 The last sentence of the second paragraph is deleted.
8
9 The following two new paragraphs are inserted after the second paragraph:
10
11 As an alternative to the application of burlap and fog spraying described above, the
12 Contractor may propose a curing system using proprietary curing blankets specifically
13 manufactured for bridge deck curing. The Contractor shall submit a Type 2 Working
14 Drawing consisting of details of the proprietary curing blanket system, including product
15 literature and details of how the system is to be installed and maintained.
16
17 The wet curing regimen as described shall remain in place for a minimum of 42-hours.
18
19 The last paragraph is deleted.
20
21 **6-09.3(14) Checking for Bond**
22 The first sentence of the first paragraph is revised to read:
23
24 After the requirements for curing have been met, the entire overlaid surface shall be
25 sounded by the Contractor, in a manner accepted by and in the presence of the
26 Engineer, to ensure total bond of the concrete to the bridge deck.
27
28 The last sentence of the first paragraph is deleted.
29
30 The second paragraph is deleted.
31
32 6-10.AP6
33 **Section 6-10, Concrete Barrier**
34 **August 6, 2018**

35 **6-10.2 Materials**
36 In the first paragraph, the reference to "Portland Cement" is revised to read:
37
38 Cement 9-01
39
40 **6-10.3(6) Placing Concrete Barrier**
41 The first two sentences of the first paragraph are revised to read:
42
43 Precast concrete barriers Type 2, Type 4, Type F, precast single slope barrier, and
44 transitions shall rest on a paved foundation shaped to a uniform grade and section. The
45 foundation surface for precast concrete barriers Type 2, Type 4, Type F, precast single
46 slope barrier, and transitions shall meet this test for uniformity: When a 10-foot
47 straightedge is placed on the surface parallel to the centerline for the barrier, the
48 surface shall not vary more than ¼ inch from the lower edge of the straightedge.
49

1 6-11.AP6
2 **Section 6-11, Reinforced Concrete Walls**
3 **April 2, 2018**

4 **6-11.2 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 6-12.AP6
11 **Section 6-12, Noise Barrier Walls**
12 **August 6, 2018**

13 **6-12.2 Materials**

14 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
15 to read:

16
17 Aggregates for Concrete 9-03.1
18

19 The first paragraph is supplemented with the following new material reference:

20
21 Noise Barrier Wall Access Door 9-06.17
22

23 **6-12.3(9) Access Doors and Concrete Landing Pads**

24 The second paragraph is deleted and replaced with the following:

25
26 All frame and door surfaces, except stainless steel surfaces, shall be painted in
27 accordance with Section 6-07.3(9). Primer shall be applied to all non-stainless steel
28 surfaces. All primer coated exposed metal surfaces shall be field painted with the
29 remaining Section 6-07.3(9)A paint system coats. The top coat, when dry, shall match
30 the color specified in the Plans or Special Provisions.
31

32 This section is supplemented with the following:

33
34 Access door deadbolt locks shall be capable of accepting a Best CX series core. The
35 Contractor shall furnish and install a spring-loaded construction core lock with each
36 lock. The Engineer will furnish the permanent Best CX series core for the Contractor to
37 install at the conclusion of the project.
38

39 6-13.AP6
40 **Section 6-13, Structural Earth Walls**
41 **August 6, 2018**

42 **6-13.2 Materials**

43 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
44 to read:

45
46 Aggregates for Concrete 9-03.1
47

- 1 **6-13.3(4) Precast Concrete Facing Panel and Concrete Block Fabrication**
2 Item number 1 of the sixth paragraph is revised to read:
3
4 1. Vertical dimensions shall be $\pm \frac{1}{16}$ inch of the Plan dimension, and the rear height
5 shall not exceed the front height.
6
7 Item number 3 of the sixth paragraph is revised to read:
8
9 3. All other dimensions shall be $\pm \frac{1}{4}$ inch of the Plan dimension.
10
11 6-14.AP6
12 **Section 6-14, Geosynthetic Retaining Walls**
13 **April 2, 2018**
- 14 **6-14.2 Materials**
15 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
16 Cement Concrete” are revised to read:
17
18 Cement 9-01
19 Aggregates for Concrete 9-03.1
20
21 6-15.AP6
22 **Section 6-15, Soil Nail Walls**
23 **January 7, 2019**
- 24 **6-15.3(7) Shotcrete Facing**
25 The last paragraph is supplemented with the following:
26
27 After final tightening of the nut, the threads of the soil nail shall at a minimum be flush
28 with the end of the nut.
29
30 6-16.AP6
31 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**
32 **April 2, 2018**
- 33 **6-16.2 Materials**
34 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
35 to read:
36
37 Aggregates for Concrete 9-03.1
38
39 6-18.AP6
40 **Section 6-18, Shotcrete Facing**
41 **April 1, 2019**
- 42 **6-18.2 Materials**
43 The reference to metakaolin is deleted.
44
45 **6-18.3(3) Testing**
46 In the last sentence of the first paragraph, “AASHTO T 24” is revised to read “ASTM C1604”.
47

- 1 **6-18.3(3)B Production Testing**
2 In the last sentence, "AASHTO T 24" is revised to read "ASTM C1604".
3
- 4 **6-18.3(4) Qualifications of Contractor's Personnel**
5 In the last sentence of the second paragraph, "AASHTO T 24" is revised to read "ASTM
6 C1604".
7
- 8 6-19.AP6
9 **Section 6-19, Shafts**
10 **January 7, 2019**
- 11 **6-19.2 Materials**
12 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
13 Cement Concrete" are revised to read:
14
- | | | |
|----|-------------------------|--------|
| 15 | Cement | 9-01 |
| 16 | Aggregates for Concrete | 9-03.1 |
| 17 | | |
- 18 **6-19.3(1)A Shaft Construction Tolerances**
19 The last paragraph is supplemented with the following:
20
- 21 The elevation of the top of the reinforcing cage for drilled shafts shall be within +6
22 inches and -3 inches from the elevation shown in the Plans.
23
- 24 **6-19.3(2)D Nondestructive QA Testing Organization and Personnel**
25 Item number 4 in the first paragraph is revised to read:
26
- 27 4. Personnel preparing test reports shall be a Professional Engineer, licensed under
28 Title 18 RCW, State of Washington, and shall seal the report in accordance with
29 WAC 196-23-020.
30
- 31 **6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft**
32 **Excavation Operations**
33 The first paragraph is supplemented with the following:
34
- 35 In no case shall shaft excavation and casing placement extend below the bottom of
36 shaft excavation as shown in the Plans.
37
- 38 **6-19.3(6)E Thermal Wire and Thermal Access Point (TAPS)**
39 The third sentence of the third paragraph is revised to read:
40
- 41 The thermal wire shall extend from the bottom of the reinforcement cage to the top of
42 the shaft, with a minimum of 5-feet of slack wire provided above the top of shaft.
43
- 44 The following new sentence is inserted after the third sentence of the third paragraph:
45
- 46 All thermal wires in a shaft shall be equal lengths.
47
- 48 **6-19.3(9)D Nondestructive QA Testing Results Submittal**
49 The last sentence of the first paragraph is revised to read:
50

1 Results shall be a Type 2E Working Drawing presented in a written report.

2

3 7-02.AP7

4 **Section 7-02, Culverts**

5 **April 2, 2018**

6 **7-02.2 Materials**

7 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
8 Cement Concrete" are revised to read:

9

10 Cement 9-01

11 Aggregates for Concrete 9-03.1

12

13 **7-02.3(6)A4 Excavation and Bedding Preparation**

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

15

16 The bedding course shall be a 6-inch minimum thickness layer of culvert bedding
17 material, defined as granular material either conforming to Section 9-03.12(3) or to
18 AASHTO Grading No. 57 as specified in Section 9-03.1(4)C.

19

20 7-05.AP7

21 **Section 7-05, Manholes, Inlets, Catch Basins, and Drywells**

22 **August 6, 2018**

23 **7-05.3 Construction Requirements**

24 The fourth sentence of the third paragraph is deleted.

25

26 7-08.AP7

27 **Section 7-08, General Pipe Installation Requirements**

28 **April 2, 2018**

29 **7-08.3(3) Backfilling**

30 The fifth sentence of the fourth paragraph is revised to read:

31

32 All compaction shall be in accordance with the Compaction Control Test of Section 2-
33 03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.

34

35 The following new sentences are inserted after the fifth sentence of the fourth paragraph:

36

37 When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written
38 request to use a test point evaluation for compaction acceptance. Test Point evaluation
39 shall be performed in accordance with SOP 738.

40

41 8-01.AP8

42 **Section 8-01, Erosion Control and Water Pollution Control**

43 **April 1, 2019**

44 **8-01.1 Description**

45 This section is revised to read:

46

1 This Work consists of furnishing, installing, maintaining, removing and disposing of best
2 management practices (BMPs), as defined in the Washington Administrative Code
3 (WAC) 173-201A, to manage erosion and water quality in accordance with these
4 Specifications and as shown in the Plans or as designated by the Engineer.

5
6 The Contracting Agency may have a National Pollution Discharge Elimination System
7 Construction Stormwater General Permit (CSWGP) as identified in the Contract Special
8 Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP
9 to the Contractor when a CSWGP has been obtained. The Contracting Agency may not
10 have a CSWGP for the project but may have another water quality related permit as
11 identified in the Contract Special Provisions or the Contracting Agency may not have
12 water quality related permits but the project is subject to applicable laws for the Work.
13 Section 8-01 covers all of these conditions.

14
15 This section is supplemented with the following new subsection:

16
17 **8-01.1(1) Definitions**

18 **1. pH Affected Stormwater**

- 19
20 a. Stormwater contacting green concrete (concrete that has set/stiffen but is still
21 curing), recycled concrete, or engineered soils (as defined in the Construction
22 Stormwater General Permit (CSWGP)) as a natural process
23
24 b. pH monitoring shall be performed in accordance with the CSWGP, or Water
25 Quality Standards (WQS in accordance with WAC 173-201A (surface) or 173-
26 200C (ground)) when the CSWGP does not apply
27
28 c. May be neutralized and discharged to surface waters or infiltrated
29

30 **2. pH Affected Non-Stormwater**

- 31
32 a. Conditionally authorized in accordance with CSWGP Special Condition S.1.C.,
33 uncontaminated water contacting green concrete, recycled concrete, or
34 engineered soils (as defined in the CSWGP)
35
36 b. Shall not be categorized as cementitious wastewater/concrete wastewater, as
37 defined below
38
39 c. Shall be managed and treated in accordance with the CSWGP, or WQS when
40 the CSWGP does not apply
41
42 d. pH adjustment and dechlorination may be necessary, as specified in the
43 CSWGP or in accordance with WQS when the CSWGP does not apply
44
45 e. May be neutralized, treated, and discharged to surface waters in accordance
46 with the CSWGP, with the exception of water-only shaft drilling slurry. Water-
47 only shaft drilling slurry may be treated, neutralized, and infiltrated but not
48 discharged to surface waters (Refer to Special Conditions S1.C. Authorized
49 Discharges and S1.d Prohibited Discharges of the CSWGP)
50

51 **3. Cementitious Wastewater/Concrete Wastewater**
52

- 1 a. Any water that comes into contact with fine cementitious particles or slurry; any
2 water used in the production, placement and/or clean-up of cementitious
3 products; any water used to cut, grind, wash, or otherwise modify cementitious
4 products
5
6 b. When any water, including stormwater, commingles with cementitious
7 wastewater/concrete wastewater, the resulting water is considered
8 cementitious wastewater/concrete wastewater and shall be managed to
9 prevent discharge to waters of the State, including ground water
10
11 c. CSWGP Examples include: water used for or resulting from concrete
12 truck/mixer/pumper/tool/chute rinsing or washing, concrete saw cutting and
13 surfacing (sawing, coring, grinding, roughening, hydro-demolition, bridge and
14 road surfacing)
15
16 d. Cannot be neutralized and discharged or infiltrated
17

18 **8-01.2 Materials**

19 The first paragraph is revised to read:

20
21 Materials shall meet the requirements of the following sections:

22		
23	Corrugated Polyethylene Drain Pipe	9-05.1(6)
24	Quarry Spalls and Permeable Ballast	9-13
25	Erosion Control and Roadside Planting	9-14
26	Construction Geotextile	9-33
27		

28 The second paragraph is deleted.

29 30 **8-01.3(1) General**

31 This section is revised to read:

32
33 Adaptive management shall be employed throughout the duration of the project for the
34 implementation of erosion and water pollution control permit requirements for the
35 current condition of the project site. The adaptive management includes the selection
36 and utilization of BMPs, scheduling of activities, prohibiting unacceptable practices,
37 implementing maintenance procedures, and other managerial practices that when used
38 singularly or in combination, prevent or reduce the release of pollutants to waters of the
39 State. The adaptive management shall use the means and methods identified in this
40 section and means and methods identified in the Washington State Department of
41 Transportation's Temporary Erosion and Sediment Control Manual or the Washington
42 State Department of Ecology's Stormwater Management Manuals for construction
43 stormwater.
44

45 The Contractor shall install a high visibility fence along the lines shown in the Plans or
46 as instructed by the Engineer.
47

48 Throughout the life of the project, the Contractor shall preserve and protect the
49 delineated preservation area, acting immediately to repair or restore any high visibility
50 fencing damaged or removed.
51

1 All discharges to surface waters shall comply with surface water quality standards as
2 defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to
3 groundwater shall comply with groundwater quality standards WAC Chapter 173-200.
4 The Contractor shall comply with the CSWGP when the project is covered by the
5 CSWGP.

6
7 Work, at a minimum, shall include the implementation of:

- 8
9 1. Sediment control measures prior to ground disturbing activities to ensure all
10 discharges from construction areas receive treatment prior to discharging from
11 the site.
12
13 2. Flow control measures to prevent erosive flows from developing.
14
15 3. Water management strategies and pollution prevention measures to prevent
16 contamination of waters that will be discharged to surface waters or the
17 ground.
18
19 4. Erosion control measures to stabilize erodible earth not being worked.
20
21 5. Maintenance of BMPs to ensure continued compliant performance.
22
23 6. Immediate corrective action if evidence suggests construction activity is not in
24 compliance. Evidence includes sampling data, olfactory or visual evidence
25 such as the presence of suspended sediment, turbidity, discoloration, or oil
26 sheen in discharges.
27

28 To the degree possible, the Contractor shall coordinate this Work with permanent
29 drainage and roadside restoration Work the Contract requires.

30
31 Clearing, grubbing, excavation, borrow, or fill within the Right of Way shall never expose
32 more erodible earth than as listed below:
33

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

34
35 The Engineer may increase or decrease the limits based on project conditions.
36

37 Erodible earth is defined as any surface where soils, grindings, or other materials may
38 be capable of being displaced and transported by rain, wind, or surface water runoff.
39

40 Erodible earth not being worked, whether at final grade or not, shall be covered within
41 the specified time period (see the table below), using BMPs for erosion control.
42

Western Washington (West of the Cascade	Eastern Washington (East of the Cascade
--	--

Mountain Crest)	
October 1 through April 30	2 days maximum
May 1 to September 30	7 days maximum

Mountain Crest)	
October 1 through June 30	5 days maximum
November 1 through March 31	10 days maximum

When applicable, the Contractor shall be responsible for all Work required for compliance with the CSWGP including annual permit fees.

If the Engineer, under Section 1-08.6, orders the Work suspended, the Contractor shall continue to comply with this division during the suspension.

8-01.3(1)A Submittals

This section's content is deleted.

This section is supplemented with the following new subsection:

8-01.3(1)A1 Temporary Erosion and Sediment Control Plan

Temporary Erosion and Sediment Control (TESC) Plans consist 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. For projects that do not require a CSWGP but have the potential to discharge to surface waters of the state, an abbreviated TESC plan shall be used, which may consist of a narrative and/or plan sheets and shall demonstrate compliance with applicable codes, ordinances and regulations, including the water quality standards for surface waters; Chapter 173-201A of the Washington Administrative Code (WAC) and water quality standards for groundwaters in accordance with Chapter 173-200 WAC.

The Contractor shall either adopt the TESC Plan in the Contract or develop a new TESC Plan. If the Contractor adopts the TESC Plan in scenarios in which the CSWGP is transferred to the Contractor, the Contractor shall modify the TESC Plan to match the Contractor's schedule, method of construction, and to include all areas that will be used to directly support construction activity such as equipment staging yards, material storage areas, or borrow areas. TESC Plans shall include all high visibility fence shown in the 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 throughout construction based on site inspections and required sampling to maintain compliance with the CSWGP, or WQS when no CSWGP applies. The Contractor shall develop a schedule for implementation of the TESC work and incorporate it into the Contractor's progress schedule.

The Contractor shall submit their TESC Plan (either the adopted plan or new plan) as Type 2 Working Drawings. At the request of the Engineer, updated TESC Plans shall be submitted as Type 1 Working Drawings.

8-01.3(1)B Erosion and Sediment Control (ESC) Lead

This section is revised to read:

The Contractor shall identify the ESC Lead at the preconstruction discussions and in the TESC Plan. The ESC Lead shall have, for the life of the Contract, a current Certificate

1 of Training in Construction Site Erosion and Sediment Control from a course approved
2 by the Washington State Department of Ecology. The ESC Lead must be onsite or on
3 call at all times throughout construction. The ESC Lead shall be listed on the
4 Emergency Contact List required under Section 1-05.13(1).

5
6 The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not
7 limited to:

- 8
9 1. Installing, adaptively managing, and maintaining temporary erosion and
10 sediment control BMPs to assure continued performance of their intended
11 function. Damaged or inadequate BMPs shall be corrected immediately.
12
13 2. Updating the TESC Plan to reflect current field conditions.
14
15 3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to
16 the Washington State Department of Ecology in accordance with the CSWGP.
17
18 4. Develop and maintain the Site Log Book as defined in the CSWGP. When the
19 Site Log Book or portion thereof is electronically developed, the electronic
20 documentation must be accessible onsite. As a part of the Site Log Book, the
21 Contractor shall develop and maintain a tracking table to show that identified
22 TESC compliance issues are fully resolved within 10 calendar days. The table
23 shall include the date an issue was identified, a description of how it was
24 resolved, and the date the issue was fully resolved.
25

26 The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site
27 erosion and sediment control BMPs, and all stormwater discharge points at least once
28 every calendar week and within 24-hours of runoff events in which stormwater
29 discharges from the site. Inspections of temporarily stabilized, inactive sites may be
30 reduced to once every calendar month. The Washington State Department of Ecology's
31 Erosion and Sediment Control Site Inspection Form, located at
32 [https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit)
33 [permits/Construction-stormwater-permit](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit), shall be completed for each inspection and a
34 copy shall be submitted to the Engineer no later than the end of the next working day
35 following the inspection.
36

37 **8-01.3(1)C Water Management**

38 This section is supplemented with the following new subsections:

39 40 **8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High Water** 41 **Mark (OHWM)**

42 Work over surface waters of the state (defined in WAC 173-201A-010) or below the
43 OHWM (defined in RCW 90.58.030) shall comply with water quality standards for
44 surface waters of the State of Washington.
45

46 **8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid**

47 All equipment containing hydraulic fluid that extends from a bridge deck over surface
48 waters of the state or below the OHWM, shall be equipped with a biodegradable
49 hydraulic fluid. The fluid shall achieve either a Pw1 Environmental Persistence
50 Classification stated in ASTM D6046 (≥60% biodegradation in 28 days) or equivalent
51 standard. Alternatively, hydraulic fluid that meets International Organization for

1 Standardization (ISO 15380), the European Union Ecolabel, or equivalent certification
2 will also be accepted.
3
4 The Contractor shall submit a Type 1 Working Drawing consisting of a manufacturer
5 catalog cut of the hydraulic fluid used.
6
7 The designation of biodegradable hydraulic fluid does not mean fluid spills are
8 acceptable. The Contractor shall respond to spills to land or water in accordance with
9 the Contract, the associated SPCC Plan, and all applicable local, state, and federal
10 regulations.
11
12 **8-01.3(1)C7 Turbidity Curtain**
13 All Work for the turbidity curtain shall be in accordance with the manufacturer's
14 recommendations for the site conditions. Removal procedures shall be developed and
15 used to minimize silt release and disturbance of silt. The Contractor shall submit a Type
16 2 Working Drawing, detailing product information, installation and removal procedures,
17 equipment and workforce needs, maintenance plans, and emergency
18 repair/replacement plans.
19
20 Turbidity curtain materials, installation, and maintenance shall be sufficient to comply
21 with water quality standards.
22
23 The Contractor shall notify the Engineer 10 days in advance of removing the turbidity
24 curtain. All components of the turbidity curtain shall be removed from the project.
25
26 **8-01.3(1)C1 Disposal of Dewatering Water**
27 This section is revised to read:
28
29 When uncontaminated groundwater is encountered in an excavation on a project it may
30 be infiltrated within vegetated areas of the right of way not designated as Sensitive
31 Areas or incorporated into an existing stormwater conveyance system at a rate that will
32 not cause erosion or flooding in any receiving surface water.
33
34 Alternatively, the Contractor may pursue independent disposal and treatment
35 alternatives that do not use the stormwater conveyance system provided it is in
36 compliance with the applicable WACs and permits.
37
38 **8-01.3(1)C2 Process Wastewater**
39 This section is revised to read:
40
41 Wastewater generated on-site as a byproduct of a construction process shall not be
42 discharged to surface waters of the State. Some sources of process wastewater may be
43 infiltrated in accordance with the CSWGP. Some sources of process wastewater may
44 be disposed via independent disposal and treatment alternatives in compliance with the
45 applicable WACs and permits.
46
47 **8-01.3(1)C3 Shaft Drilling Slurry Wastewater**
48 This section is revised to read:
49
50 Wastewater generated on-site during shaft drilling activity shall be managed and
51 disposed of in accordance with the requirements below. No shaft drilling slurry
52 wastewater shall be discharged to surface waters of the State. Neither the sediment nor

liquid portions of the shaft drilling slurry wastewater shall be contaminated, as detectable by visible or olfactory indication (e.g., chemical sheen or smell).

1. Water-only shaft drilling slurry or water slurry with accepted flocculants may be infiltrated on-site. Flocculants used shall meet the requirements of Section 9-14.5(1) or shall be chitosan products listed as General Use Level Designation (GULD) on the Washington State Department of Ecology's stormwater treatment technologies webpage for construction treatment. Infiltration is permitted if the following requirements are met:
 - a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.
 - b. The amount of flocculant added to the slurry shall be kept to the minimum needed to adequately settle out solids. The flocculant shall be thoroughly mixed into the slurry.
 - c. The slurry removed from the shaft shall be contained in a leak proof cell or tank for a minimum of 3 hours.
 - d. The infiltration rate shall be reduced if needed to prevent wastewater from leaving the infiltration location. The infiltration site shall be monitored regularly during infiltration activity. All wastewater discharged to the ground shall fully infiltrate and discharges shall stop before the end of each work day.
 - e. Drilling spoils and settled sediments remaining in the containment cell or tank shall be disposed of in accordance with Section 6-19.3(4)F.
 - f. Infiltration locations shall be in upland areas at least 150 feet away from surface waters, wells, on-site sewage systems, aquifer sensitive recharge areas, sole source aquifers, well head protection areas, and shall be marked on the plan sheets before the infiltration activity begins.
 - g. Prior to infiltration, the Contractor shall submit a Shaft Drilling Slurry Wastewater Management and Infiltration Plan as a Type 2 Working Drawing. This Plan shall be kept on-site, adapted if needed to meet the construction requirements, and updated to reflect what is being done in the field. The Working Drawing shall include, at a minimum, the following information:
 - i. Plan sheet showing the proposed infiltration location and all surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas within 150 feet.
 - ii. The proposed elevation of soil surface receiving the wastewater for infiltration and the anticipated phreatic surface (i.e., saturated soil).
 - iii. The source of the water used to produce the slurry.
 - iv. The estimated total volume of wastewater to be infiltrated.

- 1 v. The accepted flocculant to be used (if any).
2
3 vi. The controls or methods used to prevent surface wastewater runoff
4 from leaving the infiltration location.
5
6 vii. The strategy for removing slurry wastewater from the shaft and
7 containing the slurry wastewater once it has been removed from the
8 shaft.
9
10 viii. The strategy for monitoring infiltration activity and adapting methods
11 to ensure compliance.
12
13 ix. A contingency plan that can be implemented immediately if it
14 becomes evident that the controls in place or methods being used are
15 not adequate.
16
17 x. The strategy for cleaning up the infiltration location after the infiltration
18 activity is done. Cleanup shall include stabilizing any loose sediment
19 on the surface within the infiltration area generated as a byproduct of
20 suspended solids in the infiltrated wastewater or soil disturbance
21 associated with BMP placement and removal.
22
23 2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives
24 not allowed for infiltration shall be contained and disposed of by the Contractor
25 at an accepted disposal facility in accordance with Section 2-03.3(7)C. Spoils
26 that have come into contact with mineral slurry shall be disposed of in
27 accordance with Section 6-19.3(4)F.
28

29 **8-01.3(1)C4 Management of Off-Site Water**

30 This section is revised to read:

31
32 Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site
33 surface water and overland flow that will run-on to the project. Off-site surface water
34 run-on shall be diverted through or around the project in a way that does not introduce
35 construction related pollution. It shall be diverted to its preconstruction discharge
36 location in a manner that does not increase preconstruction flow rate and velocity and
37 protects contiguous properties and waterways from erosion. The Contractor shall submit
38 a Type 2 Working Drawing consisting of the method for performing this Work.
39

40 **8-01.3(1)E Detention/Retention Pond Construction**

41 This section is revised to read:

42
43 Permanent or temporary ponds shall be constructed before beginning other grading and
44 excavation Work in the area that drains into that pond. Detention/retention ponds may
45 be constructed concurrently with grading and excavation when allowed by the Engineer.
46 Temporary conveyances shall be installed concurrently with grading in accordance with
47 the TESC Plan so that newly graded areas drain to the pond as they are exposed.
48

49 **8-01.3(2) Seeding, Fertilizing, and Mulching**

50 This section's title is revised to read:
51

1 **8-01.3(2) Temporary Seeding and Mulching**

2
3 **8-01.3(2)A Preparation for Application**

4 This section is revised to read:

5
6 A cleated roller, crawler tractor, or similar equipment, which forms longitudinal
7 depressions at least 2 inches deep shall be used for compaction and preparation of the
8 surface to be seeded. The entire area shall be uniformly covered with longitudinal
9 depressions formed perpendicular to the natural flow of water on the slope. The soil
10 shall be conditioned with sufficient water so the longitudinal depressions remain in the
11 soil surface until completion of the seeding.

12
13 **8-01.3(2)A1 Seeding**

14 This section is deleted in its entirety.

15
16 **8-01.3(2)A2 Temporary Seeding**

17 This section is deleted in its entirety.

18
19 **8-01.3(2)B Seeding and Fertilizing**

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

21
22 **8-01.3(2)B Temporary Seeding**

23 Temporary grass seed shall be a commercially prepared mix, made up of low growing
24 grass species that will grow without irrigation at the project location, and accepted by
25 the Engineer. The application rate shall be two pounds per 1000 square feet.

26
27 The Contractor shall notify the Engineer not less than 24 hours in advance of any
28 seeding operation and shall not begin the Work until areas prepared or designated for
29 seeding have been accepted. Following the Engineer's acceptance, seeding of the
30 accepted slopes shall begin immediately.

31
32 Temporary seeding may be sown at any time allowed by the Engineer. Temporary
33 seeding shall be sown by one of the following methods:

- 34
35 1. A hydro seeder that utilizes water as the carrying agent, and maintains
36 continuous agitation through paddle blades. It shall have an operating capacity
37 sufficient to agitate, suspend, and mix into a homogeneous slurry the specified
38 amount of seed and water or other material. Distribution and discharge lines
39 shall be large enough to prevent stoppage and shall be equipped with a set of
40 hydraulic discharge spray nozzles that will provide a uniform distribution of the
41 slurry.
42
43 2. Blower equipment with an adjustable disseminating device capable of
44 maintaining a constant, measured rate of material discharge that will ensure an
45 even distribution of seed at the rates specified.
46
47 3. Power-drawn drills or seeders.
48
49 4. Areas in which the above methods are impractical may be seeded by hand
50 methods.
51

- 1 When seeding by hand, the seed shall be incorporated into the top ¼ inch of soil by
2 hand raking or other method that is allowed by the Engineer.
3
4 Seed applied using a hydroseeder shall have a tracer added to visibly aid uniform
5 application. This tracer shall not be harmful to plant, aquatic, or animal life. If Short-
6 Term Mulch is used as a tracer, the application rate shall not exceed 250 pounds
7 per acre.
8
9 Seed and fertilizer may be applied in one application provided that the fertilizer is placed
10 in the hydroseeder tank no more than 1 hour prior to application.
11

12 **8-01.3(2)D Mulching**

13 This section, including title, is revised to read:
14

15 **8-01.3(2)D Temporary Mulching**

16 Temporary mulch shall be straw, wood strand, or HECP mulch and shall be used for the
17 purpose of erosion control by protecting bare soil surface from particle displacement.
18 Mulch shall not be applied below the anticipated water level of ditch slopes, pond
19 bottoms, and stream banks. HECP mulch shall not be used within the Ordinary High
20 Water Mark. Non-HECP mulches applied below the anticipated water level shall be
21 removed or anchored down so that it cannot move or float, at no additional expense to
22 the Contracting Agency.
23

24 Straw or wood strand mulch shall be applied at a rate to achieve at least 95 percent
25 visual blockage of the soil surface.
26

27 Short Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and
28 may be applied in one lift.
29

30 Moderate Term Mulch and Long Term Mulch shall be hydraulically applied at the rate of
31 3500 pounds per acre with no more than 2000 pounds applied in any single lift.
32

33 Mulch sprayed on signs or sign Structures shall be removed the same day.
34

35 Areas not accessible by mulching equipment shall be mulched by accepted
36 hand methods.
37

38 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

39 This section is deleted in its entirety.
40

41 **8-01.3(2)G Protection and Care of Seeded Areas**

42 This section is deleted in its entirety.
43

44 **8-01.3(2)H Inspection**

45 This section is deleted in its entirety.
46

47 **8-01.3(2)I Mowing**

48 This section is deleted in its entirety.
49

50 **8-01.3(3) Placing Biodegradable Erosion Control Blanket**

51 This section's title is revised to read:
52

1 **8-01.3(3) Placing Erosion Control Blanket**

2
3 The first sentence of the first paragraph is revised to read:

4
5 Erosion Control Blankets are used as an erosion prevention device and to enhance the
6 establishment of vegetation.

7
8 The second paragraph is revised to read:

9
10 When used to enhance the establishment of seeded areas, seeding and fertilizing shall
11 be done prior to blanket installation.

12
13 **8-01.3(4) Placing Compost Blanket**

14 This section is revised to read:

15
16 Compost blankets are used for erosion control. Compost blanket shall be only be placed
17 on ground surfaces that are steeper than 3-foot horizontal and 1-foot vertical though
18 steeper slopes shall be broken by wattles or compost socks placed according to the
19 Standard Plans. Compost shall be placed to a depth of 3 inches over bare soil. An
20 organic tackifier shall be placed over the entire composted area when dry or windy
21 conditions are present or expected. The tackifier shall be applied immediately after the
22 application of compost to prevent compost from leaving the composted area.

23
24 Medium compost shall be used for the compost blanket. Compost may serve the
25 purpose of soil amendment as specified in Section 8-02.3(6).

26
27 **8-01.3(5) Plastic Covering**

28 The first paragraph is revised to read:

29
30 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled materials,
31 slopes or bare soils shall be installed and maintained in a way that prevents water from
32 intruding under the plastic and prevents the plastic cover from being damaged by wind.
33 Plastic coverings shall be placed with at least a 12-inch overlap of all seams and be a
34 minimum of 6 mils thick. Use soil stabilization and energy dissipation BMPs to minimize
35 the erosive energy flows coming off sloped areas of plastic (e.g., toe of slope). When
36 feasible, prevent the clean runoff from plastic from hitting bare soil. Direct flows from
37 plastic to stabilized outlet areas.

38
39 **8-01.3(7) Stabilized Construction Entrance**

40 The first paragraph is revised to read:

41
42 Temporary stabilized construction entrance shall be constructed in accordance with the
43 *Standard Plans*, prior to construction vehicles entering the roadway from locations that
44 generate sediment track out on the roadway. Material used for stabilized construction
45 entrance shall be free of extraneous materials that may cause or contribute to track out.

46
47 **8-01.3(8) Street Cleaning**

48 This section is revised to read:

49
50 Self-propelled pickup street sweepers shall be used to remove and collect dirt and other
51 debris from the Roadway. The street sweeper shall effectively collect these materials
52 and prevent them from being washed or blown off the Roadway or into waters of the

1 State. Street sweepers shall not generate fugitive dust and shall be designed and
2 operated in compliance with applicable air quality standards. Material collected by the
3 street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

4
5 When allowed by the Engineer, power broom sweepers may be used in non-sensitive
6 areas. The broom sweeper shall sweep dirt and other debris from the roadway into the
7 work area. The swept material shall be prevented from entering or washing into waters
8 of the State.

9
10 Street washing with water will require the concurrence of the Engineer.

11 12 **8-01.3(12) Compost Socks**

13 The first two sentences of the first paragraph are revised to read:

14
15 Compost socks are used to disperse flow and sediment. Compost socks shall be
16 installed as soon as construction will allow but before flow conditions create erosive
17 flows or discharges from the site. Compost socks shall be installed prior to any mulching
18 or compost placement.

19 20 **8-01.3(13) Temporary Curb**

21 The last two sentences of the second paragraph are revised to read:

22
23 Temporary curbs shall be a minimum of 4 inches in height. Temporary curb shall be
24 installed so that ponding does not occur in the adjacent roadway.

25 26 **8-01.3(14) Temporary Pipe Slope Drain**

27 The third and fourth paragraphs are revised to read:

28
29 The pipe fittings shall be water tight and the pipe secured to the slope with metal posts,
30 wood stakes, or sand bags.

31
32 The water shall be discharged to a stabilized conveyance, sediment trap, stormwater
33 pond, rock splash pad, or vegetated strip, in a manner to prevent erosion and maintain
34 water quality compliance.

35
36 The last paragraph is deleted.

37 38 **8-01.3(15) Maintenance**

39 This section is revised to read:

40
41 Erosion and sediment control BMPs shall be maintained or adaptively managed as
42 required by the CSWGP until the Engineer determines they are no longer needed.
43 When deficiencies in functional performance are identified, the deficiencies shall be
44 rectified immediately.

45
46 The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B for
47 damage and sediment deposits. Damage to or undercutting of BMPs shall be repaired
48 immediately.

49
50 In areas where the Contractor's activities have compromised the erosion control
51 functions of the existing grasses, the Contractor shall overseed at no additional cost to
52 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 $\frac{1}{3}$ 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 entrances, the Contractor shall take measures to rehabilitate the soil to facilitate plant growth. This may include, but is not limited to, ripping the soil, incorporating soil amendments, or seeding with the specified seed.

At the request of the Contractor and at the sole discretion of the Engineer the CSWGP may be transferred back to the Contracting Agency. Approval of the Transfer of Coverage request will require the following:

1. All other Work required for Contract Completion has been completed.
2. All Work required for compliance with the CSWGP has been completed to the maximum extent possible. This includes removal of BMPs that are no longer needed and the site has undergone all Stabilization identified for meeting the requirements of Final Stabilization in the CSWGP.
3. An Equitable Adjustment change order for the cost of Work that has not been completed by the Contractor.
4. Submittal of the Washington State Department of Ecology Transfer of Coverage form (Ecology form ECY 020-87a) to the Engineer.

If the Engineer approves the transfer of coverage back to the Contracting Agency, the requirement in Section 1-07.5(3) for the Contractor's submittal of the Notice of Termination form to the Washington State Department of Ecology will not apply.

8-01.4 Measurement

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

1 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

2 When the Bid Proposal contains the item "Erosion Control and Water Pollution
3 Prevention" there will be no measurement of unit or force account items for Work
4 defined in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also,
5 except as described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are
6 deleted.

7
8 **8-01.4(2) Item Bids**

9 When the Proposal does not contain the items "Erosion Control and Water Pollution
10 Prevention", Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will
11 contain some or all of the following items measured as noted.

12
13 ESC lead will be measured per day for each day that an inspection is made and a
14 report is filed.

15
16 Erosion control blanket and plastic covering will be measured by the square yard
17 along the ground slope line of surface area covered and accepted.

18
19 Turbidity curtains will be measured by the linear foot along the ground line of the
20 installed curtain.

21
22 Check dams will be measured per linear foot one time only along the ground line of
23 the completed check dam. No additional measurement will be made for check
24 dams that are required to be rehabilitated or replaced due to wear.

25
26 Stabilized construction entrances will be measured by the square yard by ground
27 slope measurement for each entrance constructed.

28
29 Tire wash facilities will be measured per each for each tire wash installed.

30
31 Street cleaning will be measured by the hour for the actual time spent cleaning
32 pavement, refilling with water, dumping and transport to and from cleaning
33 locations within the project limits, as authorized by the Engineer. Time to mobilize
34 the equipment to or from the project limits on which street cleaning is required will
35 not be measured.

36
37 Inlet protections will be measured per each for each initial installation at a
38 drainage structure.

39
40 Silt fence, gravel filter, compost berms, and wood chip berms will be measured by
41 the linear foot along the ground line of the completed barrier.

42
43 Wattles and compost socks will be measured by the linear foot.

44
45 Temporary curbs will be measured by the linear foot along the ground line of the
46 completed installation.

47
48 Temporary pipe slope drains will be measured by the linear foot along the flow line
49 of the pipe.

50
51 Coir logs will be measured by the linear foot along the ground line of the completed
52 installation.

Outlet protections will be measured per each initial installation at an outlet location.

Temporary seeding, temporary mulching, and tackifiers will be measured by the acre by ground slope measurement.

Compost blanket will be measured by the square yard by ground slope surface area covered and accepted.

8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and Water Pollution Prevention

The Contract Provisions may establish the project as lump sum, in accordance with Section 8-01.4(1) and also include one or more of the items included above in Section 8-01.4(2). When that occurs, the corresponding measurement provision in Section 8-01.4(2) is not deleted and the Work under that item will be measured as specified.

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

Compost blanket will be measured by the square yard by ground slope surface area covered and accepted.

Temporary mulch will be measured by the acre by ground slope surface area covered and accepted.

High visibility fence will be measured by the linear foot along the ground line of the completed fence.

8-01.5 Payment

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

8-01.5(1) Lump Sum Bid for Project (No Unit Items)

Payment will be made for the following Bid item when it is included in the Proposal:

"Erosion Control and Water Pollution Prevention", lump sum.

The lump sum Contract price for "Erosion Control and Water Pollution Prevention" shall be full pay to perform the Work as described in Section 8-01 except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 8-01.4(2). Progress payments for the lump sum item "Erosion Control and Water Pollution Prevention" will be made as follows:

1. The Contracting Agency will pay 15 percent of the bid amount for the initial set up for the item. Initial set up includes the following:
 - a. Acceptance of the TESC Plan provided by the Contracting Agency or submittal of a new TESC Plan,
 - b. Submittal of a schedule for the installation of the BMPs, and
 - c. Identifying water quality sampling locations.

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2. 70 percent of the bid amount will be paid in accordance with Section 1-09.9.
 3. Once the project is physically complete and copies of the all reports submitted to the Washington State Department of Ecology have been submitted to the Engineer, and, if applicable, transference of the CSWGP back to the Contracting Agency is complete, the remaining 15 percent of the bid amount shall be paid in accordance with Section 1-09.9.
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- 8-01.5(2) Item Bids**
- “ESC Lead”, per day.
- “Turbidity Curtain”, per linear foot.
- “Erosion Control Blanket”, per square yard.
- “Plastic Covering”, per square yard.
- “Check Dam”, per linear foot.
- “Inlet Protection”, per each.
- “Gravel Filter Berm”, per linear foot.
- “Stabilized Construction Entrance”, per square yard.
- “Street Cleaning”, per hour.
- “Silt Fence”, per linear foot.
- “Wood Chip Berm”, per linear foot.
- “Compost Berm”, per linear foot.
- “Wattle”, per linear foot.
- “Compost Sock”, per linear foot.
- “Coir Log”, per linear foot.
- “Temporary Curb”, per linear foot.
- “Temporary Pipe Slope Drain”, per linear foot.
- “Temporary Seeding”, per acre.
- “Temporary Mulching”, per acre.
- “Compost Blanket”, per square yard.
- “Outlet Protection”, per each.

1 “Tackifier”, per acre.
2
3 “Erosion/Water Pollution Control”, by force account as provided in Section 1-09.6.
4
5 Maintenance and removal of erosion and water pollution control devices including
6 removal and disposal of sediment, stabilization and rehabilitation of soil disturbed
7 by these activities, and any additional Work deemed necessary by the Engineer to
8 control erosion and water pollution will be paid by force account in accordance with
9 Section 1-09.6.
10
11 To provide a common Proposal for all Bidders, the Contracting Agency has entered an
12 amount in the Proposal to become a part of the Contractor’s total Bid.
13
14 **8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and Water**
15 **Pollution Prevention**
16 The Contract may establish the project as lump sum, in accordance with Section 8-
17 01.4(1) and also reinstate the measurement of one or more of the items described in
18 Section 8-01.4(2), except for Erosion/Water Pollution Control, by force account. When
19 that occurs, the corresponding payment provision in Section 8-01.5(2) is not deleted
20 and the Work under that item will be paid as specified.
21
22 **8-01.5(4) Items not included with Lump Sum Erosion Control and Water Pollution**
23 **Prevention**
24 Payment will be made for the following Bid item when it is included in the Proposal:
25
26 “High Visibility Fence”, per linear foot.
27
28 8-02.AP8
29 **Section 8-02, Roadside Restoration**
30 **April 1, 2019**
31
32 This section, including all subsections, is revised to read:
33
34 **8-02.1 Description**
35 This Work consists of preserving, maintaining, establishing and augmenting vegetation
36 on the roadsides and within mitigation or sundry site areas. It includes vegetation
37 preservation, weed and pest control, furnishing and placing topsoil, compost, and soil
38 amendments, and furnishing and planting seed, sod and plants of all forms and
39 container types. It includes performing plant establishment activities and soil
40 bioengineering. Work shall be performed in accordance with these Specifications and
41 as shown in the Plans or as designated by the Engineer.
42
43 Trees, whips, shrubs, ground covers, cuttings, live stakes, live poles, live branches,
44 rhizomes, tubers, rootstock, and seedlings will hereinafter be referred to collectively as
45 “plants” or “plant material”. Grass, wildflowers, and other plant materials installed in
46 seed form will hereinafter be referred to collectively as “seed”.
47
48 **8-02.2 Materials**
49 Materials shall meet the requirements of the following sections:
50
51 Erosion Control and Roadside Planting 9-14
Water 9-25.2

Botanical identification and nomenclature of plant materials shall be based on descriptions by Hitchcock and Cronquist in "Flora of the Pacific Northwest". Botanical identification and nomenclature of plant material not found in "Flora" shall be based on Bailey in "Hortus Third" or superseding editions and amendments or as referenced in the Plans.

8-02.3 Construction Requirements

8-02.3(1) Responsibility During Construction

The Contractor shall prepare, install, and ensure adequate and proper care of all roadside seeded, planted, and lawn areas on the project until all plant establishment periods required by the Contract are complete or until Physical Completion of the project, whichever is last.

Adequate and proper care shall include, but is not limited to, keeping all plant material in a healthy, growing condition by watering, pruning, and other actions deemed necessary for plant health. This Work shall include keeping the project area free from insect infestation, weeds or unwanted vegetation, litter, and other debris along with retaining the finished grades and mulch in a neat uniform condition.

Existing desirable vegetation shall be saved and protected unless removal is required by the Contract or allowed by the Engineer.

The Contractor shall have sole responsibility for the maintenance and appearance of the roadside restoration.

8-02.3(2) Work Plans

Three Work Plan submittals exist under this Section:

1. Roadside Work Plan: This plan is required when Work will disturb the roadside beyond 20 feet from the pavement or where trees or native vegetation will be removed, the Contractor shall submit a Type 2 Working Drawing.
2. Weed and Pest Control Plan: This plan is required when the proposal contains the item "Weed and Pest Control," and prior to application of any chemicals or weed control activities, the Contractor shall submit a Type 2 Working Drawing.
3. Plant Establishment Plan: This plan is required when the proposal contains the item "PSIPE__", and prior to completion of Initial Planting, the Contractor shall submit a Type 2 Working Drawing.

8-02.3(2)A Roadside Work Plan

The Roadside Work Plan shall define the expected impacts to the roadside and restoration resulting from Work necessary to meet all Contract requirements. The Contractor shall define how the roadside restoration Work included in the Contract will be phased and coordinated with project Work such as earthwork, staging, access, erosion and water pollution control, irrigation, etc. The Roadside Work Plan shall include the following:

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1. Limiting impacts to roadsides:

- a. Limits of Work including locations of staging or parking.
- b. Means and methods for vegetation protection (in accordance with Section 1-07.16(2)).
- c. Locations outside of clearing limits where vegetation shall be removed to provide access routes or other needs to accomplish the Work.
- d. Plans for removal, preservation and stockpile of topsoil or other native materials, if outside of clearing and grubbing limits and within the project limits.

2. Roadside Restoration:

- a. Plan for propagation and procurement of plants, ground preparation for planting, and installation of plants.
- b. Means and methods to limit soil compaction where seeding and planting are to occur, such as steel plates, hog fuel access roads, wood mats for sensitive areas (including removal) and decompaction for unavoidable impacts.
- c. Plan and timing to incorporate or remove erosion control items.

3. Lawn Installation:

- a. Schedule for lawn installation work.
- b. Establishment and maintenance of lawns.

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

The Weed and Pest Control Plan shall describe all weed and pest control needs for the project.

The plan shall be prepared and signed by a licensed Commercial Pest Control Operator or Consultant. The plan for control of weeds and pests on the Contract in accordance with Section 8-02.3(3) shall include the following:

1. Names of plan preparer and pesticide operators, including contact information. The Contractor shall furnish the Engineer evidence that all operators are licensed with appropriate endorsements, and that the pesticide used is registered for use by the Washington State Department of Agriculture.
2. Means and methods of weed control, including mechanical and/or chemical.
3. Schedule for weed control including re-entry times for pesticide application by pesticide type.

4. Proposed pesticide use in accordance with Section 8-02.3(3)A: name, application rate, and Safety Data Sheets of all proposed pesticides. Include a copy of the current product label for each pesticide to be used.
5. Plan to ensure worker safety until pesticide re-entry periods are met.

8-02.3(2)C Plant Establishment Plan

The Plant Establishment Plan shall describe activities necessary to ensure continued health and vigor of planted and seeded areas in accordance with the requirements of Sections 8-02.3(12) and 8-02.3(13). Should the plan become unworkable at any time during the first-year plant establishment, the Contractor shall submit a revised plan prior to proceeding with further Work. The Plant Establishment Plan shall include:

1. Proposed scheduling of joint inspection meetings, activities, materials, equipment to be utilized for the first-year plant establishment.
2. Proposed adaptive management activities to ensure successful establishment of seeded, sodded, and planted areas.
3. A contact person.
4. Management of the irrigation system, when applicable.

8-02.3(3) Weed and Pest Control

The Contractor shall control weed and pest species within the project limits using integrated pest management principles consisting of mechanical, biological, and chemical controls that are outlined in the Weed and Pest Control Plan or as designated by the Engineer. Controlling weeds consists of killing and removing weeds by chemical, mechanical, and hand methods.

8-02.3(3)A Chemical Pesticides

Chemical pesticides include, but are not restricted to, any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest, including but not limited to, insecticides, herbicides, fungicides, adjuvants, and additives, including plant regulators, defoliant and desiccants. The Contractor shall apply chemical pesticides in accordance with the label recommendations, the Washington State Department of Ecology, local sensitive area ordinances, and Washington State Department of Agriculture laws and regulations. Only those pesticides listed in the table Herbicides Approved for Use on WSDOT Rights of Way and accepted as part of the Weed and Pest Control Plan or by written authorization from the Engineer may be used (www.wsdot.wa.gov/maintenance/roadside/herbicide_use.htm).

The applicator shall be licensed by the State of Washington as a Commercial Applicator or Commercial Operator, with additional endorsements as required by the Special Provisions or the proposed weed control plan. All chemical pesticides shall be delivered to the job site in the original containers, or if pre-mixed off-site, a certification of the components and formulation from the

1 supplier is required. The licensed applicator or operator shall complete
2 WSDOT Form 540-509, Commercial Pesticide Application Record, each day
3 the pesticide is applied and furnish a copy to the Engineer by the following
4 business day.
5
6 The Contractor shall ensure confinement of the chemicals within the
7 designated areas. The use of spray chemical pesticides shall require the use
8 of anti-drift and activating agents and a spray pattern indicator unless
9 otherwise allowed by the Engineer.
10
11 The Contractor shall assume all responsibility for rendering any area
12 unsatisfactory for planting by reason of chemical application. Damage to
13 adjacent areas, either on or off the Highway Right of Way, shall be repaired to
14 the satisfaction of the Engineer or the property owner at no additional cost to
15 the Contracting Agency.
16
17 **8-02.3(3)B Planting and Lawn Area Weed Control**
18 Planting and lawn area weed control consists of controlling weeds and pests in
19 planted and lawn areas shown in the Plans. This Work is included in the bid
20 items for planting and lawn installation.
21
22 All planting and lawn areas shall be prepared so that they are weed and debris
23 free at the time of planting and until completion of the project. The planting
24 areas shall include the entire ground surface, regardless of cover, areas
25 around plants, and those areas shown in the Plans.
26
27 Within planting or lawn areas, all species that are not shown in the Plans are
28 unwanted and shall be controlled unless specifically allowed by the Engineer
29 to remain.
30
31 Grass growing within the mulch ring of a plant, including grass applied in
32 accordance with Sections 8-01.3(2)A1, 8-02.3(9) or 8-02.3(10), shall be
33 considered a weed and shall be controlled on the project in accordance with
34 the weed and pest control plan.
35
36 All applications of post-emergent herbicides shall be made while green and
37 growing tissue is present. Residual herbicides shall not be used where
38 rhizomatous species or perennial species are indicated.
39
40 Should unwanted vegetation reach the flowering and seed stage in violation of
41 these Specifications, the Contractor shall physically remove and bag the seed
42 heads prior to seed dispersion. All physically removed vegetation and seed
43 heads shall be disposed of off-site at no cost to the Contracting Agency.
44
45 **8-02.3(3)C Project Area Weed and Pest Control**
46 The Contractor shall control weeds not otherwise covered in accordance with
47 Section 8-02.3(3)B, in all areas within the project limits, including erosion
48 control seeding areas and vegetation preservation areas, as designated by the
49 Engineer.
50
51 When the Bid Item "Project Area Weed and Pest Control" is included in the
52 Contract, the Contractor shall also control all weeds specified as noxious by

the Washington State Department of Agriculture, the local Weed District, or the County Noxious Weed Control Board outside of planting areas within the project limits.

8-02.3(4) Topsoil

Topsoil shall not be worked or placed when the ground or topsoil is frozen, or excessively wet.

The Contractor shall protect topsoil stockpiled for project use to prevent erosion and weed growth. Weed growth on topsoil stockpile sites shall be immediately eliminated in accordance with the accepted Weed and Pest Control Plan and Section 8-02.3(3)C.

The subsoil where topsoil is to be placed shall be tilled to a depth of 1 foot or as specified in the Special Provisions or the Plans. Topsoil of the type specified shall be evenly spread over the specified areas to the depth shown in the Plans or as otherwise ordered by the Engineer. Topsoil depths greater than 6 inches shall be placed in lifts no more than 6 inches in depth. The first lift of topsoil shall be incorporated with sub-soil to a depth of 8 inches and subsequent lifts placed and lightly tamped between lifts. After the topsoil has been spread, all large clods, hard lumps, and rocks 2 inches in diameter and larger, and litter shall be raked up, removed, and disposed.

8-02.3(4)A Topsoil Type A

Topsoil Type A shall be as specified in the Special Provisions. The Contractor shall submit a certification by the supplier that the contents of the Topsoil meet the requirements in the Special Provisions.

8-02.3(4)B Topsoil Type B

Topsoil Type B shall be naturally occurring topsoil taken from within the project limits and shall meet the requirements of Section 9-14.1(2). Topsoil Type B shall be taken from areas shown in the Plans to the designated depth and stockpiled at locations that will not interfere with the construction of the project, and outside of sensitive areas, as allowed by the Engineer. A minimum of two weeks prior to excavation of Topsoil Type B, the Contractor shall pre-treat the vegetation on the designated Topsoil Type B areas according to the Weed and Pest Control Plan. Areas beyond the slope stakes shall be disturbed as little as possible in the above operations and under no circumstances shall Topsoil Type B be stockpiled within 10 feet of any existing tree or vegetation area designated to be saved and protected. The Contractor shall protect topsoil stockpile from weed infestation.

The Contractor shall set aside sufficient material to satisfy the needs of the project.

Upon completion of topsoil placement, the Contractor shall dispose of remaining stockpiled Topsoil Type B not required for use on the project at no additional expense to the Contracting Agency in accordance with Section 2-03.3(7)C.

Should a shortage of Topsoil Type B occur, and the Contractor has wasted or otherwise disposed of topsoil material, the Contractor shall furnish Topsoil Type A or C at no additional expense to the Contracting Agency.

8-02.3(4)C Topsoil Type C

Topsoil Type C shall be naturally occurring topsoil obtained from a source provided by the Contractor outside of the Contracting Agency-owned Right of Way. Topsoil Type C shall meet the requirements of Sections 8-02.3(4)B and 9-14.1(3). The Contractor shall not begin removal of Topsoil Type C from the proposed source until the material has been allowed for use by the Engineer.

8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation

This Work includes preparing worked areas for the installation of all types of permanent erosion control planting. Work shall be conducted so the flow lines in drainage channels are maintained. Material displaced by the Contractor's operations that interferes with drainage shall be removed from the channel and disposed of as allowed by the Engineer.

8-02.3(5)A Seeding Area Preparation

The Contractor shall prepare roadside seeding areas as follows:

1. Remove all excess material, debris, stumps, and rocks greater than 3 inches in diameter from areas to be seeded. Dispose of removed materials offsite.
2. Prepare roadside seeding area to a weed free and bare condition.
3. Bring area to uniform grade and install topsoil, soil amendments, or compost as specified. Any slopes 3(H) to 1(V) or steeper shall not be tilled unless otherwise specified.
4. Compact to provide a reasonably firm but friable seedbed; tractor walk to uniformly cover the surface with longitudinal depressions at least 2 inches deep formed perpendicular to the natural flow of water on the slope. Condition the soil with sufficient water so the longitudinal depressions remain in the soil surface until completion of the seeding.
5. Seed and mulch within 2 days of preparation.

8-02.3(5)B Lawn Area Preparation

The Contractor shall prepare lawn areas as follows:

1. Prepare lawn area to a weed free and bare condition in accordance with Section 8-02.3(3)B.
2. Remove excess material, stumps, wood or rocks over 3 inches in diameter and remove from site.
3. Bring area to uniform grade and install topsoil or soil amendments in accordance with Section 8-02.3(4) and 8-02.3(6).

4. Till to an 8-inch depth, rake to a smooth even grade without low areas that trap water, and compact with a 50-pound roller. The finished grade of the soil shall be 1 inch below the top of all curbs, junction and valve boxes, walks, driveways, and other Structures.
5. Seed or sod the area within two days of preparation.

8-02.3(5)C Planting Area Preparation

The Contractor shall prepare planting areas as follows:

1. Prepare planting area to a weed free and bare condition in accordance with Section 8-02.3(3)B.
2. Decompact soil to a depth of 18 inches where construction activities have taken place or where native soils are compacted.
3. Return soil to uniform grade even with surrounding areas, leaving no holes or mounds over 3 inches in depth or height.
4. Remove excess material, stumps, wood or rocks over 3 inches in diameter and remove from site.
5. Apply compost or other amendments as indicated in the plans and in accordance with Section 8-02.3(6).
6. Cultivate amendments to a depth of 12 inches to provide a reasonably firm but friable planting area. Do not till any slopes 3(H) to 1(V) or steeper.
7. Return soil to a uniform finished grade, 1 inch, or the specified depth of mulch plus 1 inch, below walks, curbs, junction and valve boxes, catch basins, and driveways, unless otherwise specified.
8. Begin planting and mulching the area within two days of final preparation.

8-02.3(6) Soil Amendments

The Contractor shall place soil amendments of the type, quality, and quantities specified where shown in the Plans or as specified in the Special Provisions. Areas receiving soil amendments shall be bare soil or vegetation free prior to application. All soil amendments shall be installed as shown in the Plans within 30 calendar days after delivery to the project site.

8-02.3(6)A Compost

Compost used for soil amendments shall be Fine Compost unless otherwise designated in the Plans. When compost blanket is used for temporary erosion control, the compost blanket may be incorporated into the soil immediately prior to planting when used as compost soil amendment. The area shall be prepared in accordance with Section 8-02.3(5) prior to placing compost.

1 **8-02.3(6)B Fertilizers**

2 The Contractor shall apply fertilizer in the form, mixture, and rate specified in
3 the Special Provisions or as directed by the Engineer. Application procedures
4 shall be in accordance with the manufacturer's recommendations unless
5 otherwise specified in the Special Provisions.
6

7 The Contractor shall submit a guaranteed fertilizer analysis label for the
8 selected product a minimum of one week prior to application for acceptance.
9 Following the Engineer's acceptance, fertilizing of the accepted ground or
10 vegetated surfaces shall begin immediately.
11

12 In seeding and lawn areas to be fertilized, the fertilizer shall be applied
13 concurrently with the seed. When fertilizer is hydraulically applied, the fertilizer
14 shall be suitable for application with seeding as specified in Section 8-
15 02.3(9)C. If hydroseeding, the fertilizer shall be placed in the hydroseeder tank
16 no more than 1 hour prior to application.
17

18 Fertilizers for planting areas shall be applied concurrently with compost and
19 applied prior to incorporation, unless tablet form fertilizer is specified. Where
20 tablet form fertilizer is specified, fertilizer shall be applied concurrently with
21 plant installation.
22

23 Fertilizer sprayed on signs or sign structures shall be removed the same day.
24

25 Areas not accessible by fertilizing equipment shall be fertilized by allowed
26 hand methods.
27

28 Second Application: A second application of fertilizer shall be applied as
29 specified in the Special Provisions at the locations designated in the Plans.
30 The fertilizer shall be applied during the months of March, April, or May of the
31 following year after the initial seeding, planting, or lawn installation. The
32 fertilizer shall be dry granular pellets or pearls and applied in accordance with
33 the manufacturer's recommendations or as specified in the Special Provisions.
34

35 **8-02.3(7) Layout of Planting, Lawn and Seeding Areas**

36 The Contractor shall lay out and prepare planting and lawn areas and receive the
37 Engineer's acceptance of layout and preparation prior to any installation activities.
38 The Contractor shall stake the location of all trees larger than 1-inch caliper and the
39 perimeter of all planting areas for acceptance by the Engineer prior to any
40 installation activities.
41

42 The Contractor shall locate all trees to be planted in mowable grass areas a
43 minimum of 10 feet from the edge of planting areas, other trees, fence lines, and
44 bottom of ditches unless otherwise specified.
45

46 Tree locations shown in the Plans shall be considered approximate unless shown
47 with stationing and offset distance. In irrigated areas, trees shall be located so their
48 trunk is a minimum of $\frac{1}{3}$ of the spray radius away from the nearest sprinkler head.
49

50 Unless otherwise shown, planting areas located adjacent to Roadways shall begin
51 6 feet from the edge of shoulder on roadway fills and begin 5 feet up on the back
52 slope from the bottom on roadway cut sections. Plants within planting areas shall

1 be located such that mature branching pattern will not block sight distance, signs,
2 or other traffic-related devices. No trees shall be placed where the mature canopy
3 will grow to within 10 feet of existing power lines. Where roadside ditches are
4 present, planting areas shall begin 5 feet from the centerline of the ditch unless
5 shown otherwise in the Plans.

6 7 **8-02.3(8) Planting**

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

9 No plant material shall be planted until it has been inspected and accepted for
10 planting by the Engineer. Rejected material shall be removed from the project
11 site immediately. All plants for the project or a sufficient quantity to plant 1-acre
12 of the site, whichever is less, shall be received on site prior to the Engineer
13 beginning inspection of the plants.

14
15 Under no circumstances will planting be permitted during unsuitable soil or
16 weather conditions as determined by the Engineer. Unsuitable conditions may
17 include frozen soil, freezing weather, saturated soil, standing water, high
18 winds, heavy rains, and high water levels. The ground shall be moist at the
19 time of planting. All planting shall be accomplished during the following
20 periods:

- 21
22 1. Non-Irrigated Plant Material
23 Western Washington (West of the Cascade Mountain Crest) –
24 October 1 to March 1.
25 Eastern Washington (East of the Cascade Mountain Crest) – October
26 1 to November 15.

- 27
28 2. Irrigated Plant Material

29
30 In irrigated areas, plant material shall not be installed until the irrigation
31 system is fully operational and accepted by the Engineer. Trees and
32 shrubs may be planted in irrigated areas during the non-irrigated planting
33 window before the irrigation system is functional with the written
34 concurrence of the Engineer only if the irrigation system is guaranteed to
35 be operational prior to the end of the non-irrigated planting window.

36 37 **8-02.3(8)B Plant Installation**

38 The Contractor shall handle plant material in the following manner:

- 39
40 1. Root systems shall be kept covered and damp at all times. Plant
41 material shall be kept in containers until the time of planting.
42
43 2. Roots shall not be bunched, curled, twisted, or unreasonably bent
44 when placed in the planting hole. Bare root plant material shall be
45 dormant at the time of harvesting and planting. The root systems of
46 all bare root plant material shall be dipped in a slurry immediately
47 prior to planting.
48
49 3. Plant material supplied in wrapped balls shall not be removed from
50 the wrapping until the time of planting at the planting location. The
51 root system of balled plant material shall be moist at the time of
52 planting. Root balls shall be loosened prior to planting. All burlap,

baskets, string, wire and other such materials shall be removed from the hole when planting balled plants.

4. Plant cutting material shall be dormant at the time of cutting and planting. All cuttings shall be installed immediately if buds begin to swell.
5. Plants shall be placed with the crown at the finished grade. In their final position, plants shall have their top true root (not adventitious root) no more than 1 inch below the soil surface, no matter where that root was located in the original root ball or container. The backfill material, including container and root ball soil, shall be thoroughly watered on the same day that planting occurs regardless of season.

When installing plants, the Contractor shall dig planting holes three times the diameter of the container or root ball size. Any glazed surface of the planting hole shall be roughened prior to planting.

8-02.3(8)C Pruning, Staking, Guying, and Wrapping

Plants shall be pruned at the time of planting, only to remove minor broken or damaged twigs, branches or roots. Pruning shall be performed with a sharp tool and shall be done in such a manner as to retain or to encourage natural growth characteristics of the plants. All other pruning shall be performed only after the plants have been in the ground at least 1 year and when plants are dormant.

Trees shall only be staked when so noted in the Plans. Each tree shall be staked or guyed before completion of the backfilling in accordance with the details shown in the Plans.

Trees shall be wrapped when so noted in the Plans.

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

For all seed, the Contractor shall furnish the following documentation to the Engineer:

1. The state or provincial seed dealer license and endorsements.
2. Copies of Washington State Department of Agriculture (WSDA) test results on each lot of seed. Test results shall be within six months prior to the date of application.

8-02.3(9)A Dates for Application of Seed

Unless otherwise allowed by the Engineer, the Contractor shall apply seed for permanent erosion control during the following periods:

Western Washington ¹ (West of the Cascade Mountain Crest)	Eastern Washington (East of the Cascade Mountain Crest)
March 1 through May 15 September 1 through October 1	October 1 through November 15
¹ Seeding may be allowed outside these dates when allowed by the	

All roadway excavation and embankment ground surfaces that are completed to final grades shall be prepared and seeded during the first available seeding window. When environmental conditions are not conducive to satisfactory results, the Engineer may suspend the seeding Work until such time that the desired results are likely to be obtained. If seeding is suspended, temporary erosion control methods according to Section 8-01 shall be used to protect the bare soil until seeding conditions improve.

8-02.3(9)B Seeding and Fertilizing

The Contractor shall prepare the seeding area in accordance with Section 8-02.3(5)A and apply seed at the rate and mix specified in the Special Provisions. The Contractor shall notify the Engineer within 5 days in advance of any seeding operation and shall not begin the Work until areas prepared or designated for seeding have been accepted. Following the Engineer's acceptance, seeding of the accepted ground surfaces shall begin immediately.

Seeding shall not be done during windy weather or when the ground is frozen, or excessively wet.

When seeding by hand, the seed shall be incorporated into the top ¼ inch of soil by hand raking or other method that is allowed by the Engineer.

Seed applied as a separate operation using a hydroseeder shall have a tracer added to visibly aid uniform application. The tracer shall be HECP Short-Term Mulch applied at a rate of 200 to 250 pounds per acre and the tracer shall carry the measured specified seeding rate.

8-02.3(9)C Seeding with Fertilizers and Mulches

When the Proposal includes any variation of seeding, fertilizing, and without mulching, the seed and fertilizer shall be applied in one application followed by mulching. West of the Cascade Mountains, seed, fertilizer, and mulch may be completely applied in one application. East of the Cascades, seeding, fertilizing, and mulching shall not be applied as a single application unless allowed by the Engineer in writing prior to application. The fertilizing and mulching shall meet the requirements of Sections 8-02.3(6) and 8-02.3(11).

8-02.3(9)D Inspection

Seeded areas will be inspected upon completion of seeding, fertilizing, and mulching. The Work in any area will not be measured for payment until a uniform distribution of the materials is accomplished at the specified rate. Areas that have not received a uniform application of seed, fertilizer, and mulch at the specified rate, as determined by the Engineer, shall be re-seeded, re-fertilized, or re-mulched prior to payment for seeding within a designated area.

8-02.3(9)E Protection and Care of Seeded Areas

The Contractor shall install and establish a stable and weed free stand of grass as specified within all designated permanent seeding areas. A stable stand of grass shall meet the following requirements:

1. A dense and uniform canopy cover, 70% for Western Washington and 50% for Eastern Washington, of specified species covers all seeded areas after 3 months of active growth following germination during the growing season. Canopy cover is defined as the cover of living and vigorous grass blades, leaves, and shoots of specified species. Volunteer species, weeds, woody plants, or other undesirable vegetation shall not factor into the canopy cover. Growth and establishment may require supplemental irrigation to meet cover requirements.
2. Stand health is evident by vigorously growing planted species having a uniform rich-green appearance and with no dead patches or major gaps of growth. A stand of grass that displays rusting, wilting, stunted growth, disease, yellowing or browning of leaves, or bare patches does not meet the stand health requirement.
3. The Contractor shall establish a stable stand of grass free of all weeds, non-specified grasses, and other undesirable vegetation. Weed control shall be in accordance with the Weed and Pest Control Plan and occur on a monthly basis during the establishment period and through the life of the Contract.
4. Remove all trash, rocks, construction debris, and other obstructions that may be detrimental to the continued establishment of future seeding.

In addition to the requirements of Section 1-07.13(1), restoration of eroded areas including clean up, removal, and proper disposal of eroded material, filling and raking of eroded areas with Topsoil Type A or fine compost, and re-application of the specified seed, fertilizer, and mulch shall occur at no additional cost to the Contracting Agency.

8-02.3(10) Lawn Installation

8-02.3(10)A Dates and Conditions for Lawn Installation

In irrigated areas, lawn installation shall not begin until the irrigation system is fully operational.

Unless otherwise allowed by the Engineer, seeded lawn installation shall be performed during the following time periods at the location shown:

Western Washington (West of the Cascade Mountain Crest)	Eastern Washington (East of the Cascade Mountain Crest)
March 1 through May 15 September 1 through October 1	October 1 through November 15
When irrigation system is operational March 1 through October 1	When irrigation system is operational March 1 through November 1

8-02.3(10)B Lawn Seeding and Sodding

The Contractor shall prepare the lawn area in accordance with Section 8-02.3(5) and apply seed at the mix and rate of application as specified in the Special Provisions.

The Contractor shall have the option of sodding in lieu of seeding for lawn installation at no additional expense to the Contracting Agency. Seeding in lieu of sodding will not be allowed.

Seed placed by hand shall be raked into the soil. Following raking, the seeded soil shall be rolled with a smooth 50-pound roller. Sod strips shall be placed within 48 hours of being cut. Placement shall be without voids and have the end joints staggered. Following placement, the sod shall be rolled with a smooth roller to establish contact with the soil.

Barriers shall be erected, with warning signs where necessary, to preclude pedestrian traffic access to the newly placed lawn during the establishment period.

8-02.3(10)C Lawn Establishment

Lawn establishment shall consist of caring for all new lawn areas within the limits of the project.

The lawn establishment period shall begin immediately after the lawn seeding or sodding has been accepted by the Engineer and shall extend to the end of four mowings or 20 working days whichever is longer. The mowings shall be done in accordance with Section 8-02.3(10)D.

During the lawn establishment period, the Contractor shall ensure the continuing healthy growth of the turf. This care shall include keeping the project in a presentable condition including, but not limited to, removal of litter, mowing, trimming, removal of grass clippings, edging, fertilization, insecticide and fungicide applications, weed control, watering, repairing the irrigation system, and repair and reseeding all damaged areas.

Temporary barriers shall be removed only when directed by the Engineer.

All Work performed under lawn establishment shall comply with established turf management practices.

Acceptance of lawn planting as specified will be based on a uniform stand of grass and a uniform grade at the time of final inspection. The Contractor shall recultivate, re-grade, reseed, and refertilize areas that are bare or have a poor stand of grass or not having a uniform grade through any cause before final inspection at no additional cost to the Contracting Agency.

8-02.3(10)D Lawn Mowing

Lawn mowing shall begin immediately after the lawn establishment period has been accepted by the Engineer and shall extend to the end of the Contract or the first-year plant establishment, whichever is last.

The Contractor shall accomplish the following minimum requirements:

1. Mow, trim, and edge as often as conditions dictate, at a minimum, once per week between April and September. Maximum height of lawn shall not exceed 3 inches. The cutting height shall be 2 inches.

Cuttings, trimmings, and edgings shall be disposed of off the project site. When the Engineer allows the use of a mulching mower, trimmings may be left in place.

2. Water as often as conditions dictate depending on weather and soil conditions.
3. Provide fertilizer, weed control, water, and other measures as necessary to establish and maintain a healthy stand of grass.

8-02.3(11) Mulch

Mulches associated with seeding and planting shall be of the type specified in the Special Provisions or as indicated in the Plans. The Contractor shall evenly apply mulch at the rates indicated in the Plans. Mulches shall not be placed below the anticipated water level of ditch slopes, pond bank slopes, and stream banks, or in areas of standing or flowing water.

8-02.3(11)A Mulch for Seeding Areas

The Contractor shall furnish and evenly apply Hydraulically Applied Erosion Control Product (HECP) Long Term Mulch at the rates indicated and in accordance with the Manufacturer's specifications unless otherwise specified.

HECP Long Term Mulch shall be hydraulically applied at the rate of 3500 pounds per acre with no more than 2000 pounds applied in any single lift. HECP mulch shall not be used within the Ordinary High Water Mark.

Mulch sprayed on signs or sign Structures shall be removed the same day.

Areas not accessible by mulching equipment shall be mulched by accepted hand methods.

HECP Long Term Mulch may be applied with seed and fertilizer west of the summit of the Cascade Range. East of the summit of the Cascade Range, seed and fertilizer shall be applied in a single application followed by the application of mulch.

8-02.3(11)B Bark or Woodchip Mulch

The Contractor shall apply bark or wood chip mulch of the type and depth specified where shown in the Plans or as specified in the Special Provisions.

The Contractor shall complete final grading and placement/incorporation of soil amendments within the planting area prior to placement of mulch. Areas receiving bark mulch shall be bare soil or vegetation free before application, except where trees and other plants are specifically identified in the Plans or designated by the Engineer to be saved and protected.

Bark or wood chip mulch shall be placed to a uniform non-compacted depth of 3 inches over all planting areas unless otherwise specified. Mulch shall be feathered to the base of the plant and 1 inch below the top of junction and valve boxes, curbs, and pavement edges.

Any contamination of the mulch due to the Contractor's operations shall be corrected to its former condition at no additional cost to the Contracting Agency. Mulch placed to a thickness greater than specified shall be at no additional cost to the Contracting Agency.

The Contractor shall keep plant material crowns, runners, and branches free of mulch at all times.

8-02.3(11)C Bark or Woodchip Mulch Rings

The Contractor shall apply mulch rings around plants installed within existing vegetation areas or within seeded areas as shown in the Plans. Bark or wood chip mulch rings shall be applied to the surface of vegetation free amended soil in the isolated plant locations where shown in the Plans or as specified in the Special Provisions. Bark or wood chip mulch shall be placed to a uniform non-compacted depth of 3 inches to a radius of 2 feet around all plants within interplanted plant locations.

8-02.3(12) Completion of Initial Planting

Upon completion of the initial planting within a designated area, the Engineer will make an inspection of all planting areas. The Engineer will notify the Contractor, in writing, of any replacements or corrective action necessary to meet the plant installation requirements. The Contractor shall replace all plants and associated materials rejected or missing and correct unsatisfactory conditions.

Completion of the initial planting within a designated area includes the following conditions:

1. 100 percent of each of the plant material categories are installed as shown in the Plans.
2. Planting Area is cleaned up.
3. Repairs are completed, including but not limited to, full operation of the irrigation system.
4. Mulch coverage is complete.
5. All weeds are controlled.

8-02.3(13) Plant Establishment

Plant establishment consists of caring for all plants and planting areas within the project limits. The provisions of Sections 1-07.13(2) and 1-07.13(3) do not apply to this Section.

When the Proposal includes the bid item PSIFE_____ (Plant Selection Including Plant Establishment), that bid item includes one year of plant establishment Work. The first year of plant establishment shall begin immediately upon written notification from the Engineer of the completion of initial planting for the project. The first-year plant establishment period shall be a minimum of one calendar year. The one calendar year shall be extended an amount equal to any periods where the Contractor does not comply with the plant establishment requirements and plan.

During the first-year plant establishment period, the Contractor shall perform all Work necessary to ensure the resumption and continued growth of the transplanted material. This Work shall include, but is not limited to, applying water, removing foreign, dead, or rejected plant material, maintaining all planting areas in a weed-free condition, and replacing all unsatisfactory plant material planted under the Contract. If plants are stolen or damaged by the acts of others, the Contracting Agency will pay invoice cost only for the replacement plants with no mark-up and the Contractor will be responsible for the labor to install the replacement plants. Other weed control within the project limits but outside of planting, lawn, or seeding areas shall be as specified in Section 8-02.3(3)C.

During the first year of plant establishment, the Contractor shall meet monthly or at an agreed upon schedule with the Engineer for the purpose of joint inspection of the planting material. The Contractor shall correct all unsatisfactory conditions identified by the Engineer within a 10-day period immediately following the inspection. If plant replacement is required, the Contractor shall, within the 10-day period, submit a plan and schedule for the plant procurement and replacement to occur during the planting period as designated in Section 8-02.3(8). At the end of the plant establishment period, plants that do not show normal growth shall be replaced and all staking and guying that remain on the project shall be removed unless otherwise allowed by the Engineer.

All automatic irrigation systems shall be operated fully automatic during the plant establishment period and until final acceptance of the Contract. Payment for water used to water in plants, or hand watering of plant material or lawn areas unless otherwise specified, is the responsibility of the Contractor during the first-year plant establishment period.

Subsequent year plant establishment periods shall begin immediately at the completion of the preceding year's plant establishment period. Each subsequent plant establishment period shall be one full calendar year in duration.

During the plant establishment period(s) after the first year plant establishment, the Work necessary for the continued healthy and vigorous growth of all plants material shall be performed as directed by the Engineer.

Payment for water used to water plants during the subsequent year(s) of plant establishment will be paid under the plant establishment item.

8-02.3(14) Plant Replacement

The Contractor shall be responsible for growing or arrange to provide sufficient plants for replacement of all plant material rejected through first-year plant establishment. All replacement plant material shall be inspected and accepted by the Engineer prior to installation. All rejected plant material shall be replaced with acceptable plants meeting the specifications and installed according to the requirements of this Section at dates allowed by the Engineer.

All replacement plants shall be of the same species as the plants they replace and meet the requirements of Section 9-14.8 unless otherwise allowed by the Engineer. Plants may vary in size reflecting one season of growth should the Contractor elect to hold plant material under nursery conditions for an additional year to serve as

1 replacement plants. Replacement plant material larger than specified in the Plans
2 shall meet the applicable section requirements of the ASNS for container class, ball
3 size, spread, and branching characteristics.
4

5 **8-02.3(15) Bioengineering**

6 Bioengineering consists of using plant materials for the purpose of streambank or
7 earthen slope construction and surface stabilization. This Work may include
8 installing woody plant cuttings in various forms as well as part of streambank or
9 earthen slope construction.
10

11 **8-02.3(15)A Fascines**

12 Live fascines shall be constructed of live and dead cuttings bundled together
13 with a diameter of 8 to 18 inches. Live cuttings shall be the species shown in
14 the Plans. Dead branches may be cuttings from any woody, non-invasive plant
15 native to the project area. Dead branches may be placed within the live fascine
16 and on the side exposed to the air. Live branches shall be placed in contact
17 with the soil along their entire length. Each live fascine must contain a
18 minimum of eight live branches. Dead branches shall constitute no more than
19 40 percent of the total fascine content.
20

21 The total length of each live fascine shall be a minimum of 5 feet. Branches
22 shall be bundled into log-like forms and bound with biodegradable twine
23 spaced at 1-foot intervals along the entire length of the live fascine. Live
24 fascines shall be installed horizontally in a trench whose depth shall be $\frac{1}{2}$ the
25 diameter of the live fascine. Secure the live fascine with live stakes 3 feet in
26 length and $\frac{3}{4}$ inch in diameter placed at 18-inch intervals. A minimum of three
27 live stakes shall be used per fascine. The live stakes shall be driven through
28 the live fascine vertically into the slope. The ends of live fascines shall be
29 woven together so that no gap remains between the two sections of the
30 live fascine.
31

32 Prior to being covered with soil, the fascine shall be thoroughly watered. Once
33 the fascine is covered with 6 inches of soil, the soil covering the fascine shall
34 be thoroughly watered.
35

36 When used to remedy erosion areas, live fascines shall extend a minimum of
37 two feet beyond the visible area of erosion and soil disturbance. The locations
38 for live fascines and live stake rows shall be identified in the field for review
39 and acceptance by the Engineer. The Engineer may require adjustment of
40 fascine locations prior to installation in order to best accomplish the intended
41 functions.
42

43 Plant replacement during plant establishment for "PSIPE Live Fascine" will be
44 required for any section void of live shoots for a length of 3 feet or more.
45 Replacement shall consist of installing live stakes, spaced 1 foot apart above
46 the fascine within the area void of live shoots. Live stakes shall be of the same
47 species as the live fascine and shall have a minimum length of 3 feet and a
48 minimum diameter of $\frac{3}{4}$ inch. The requirements of Section 8-02.3(8) apply to
49 PSIPE Live Fascine.
50

1 **8-02.3(15)B Brush Mattress**

2 Live brush mattress shall be constructed of live branch cuttings, live poles, jute
3 rope and topsoil. The live cuttings and live poles shall be from the plant
4 species designated in the Plans. Live branch cuttings shall be placed with the
5 cut ends oriented down slope as shown in the Plans. Cuttings shall overlap
6 from side to side and from top to bottom as each layer is constructed. The live
7 branches in each succeeding upper layer shall overlap the adjacent lower
8 layer by a minimum of 6 inches. A maximum of 20 percent of the branches
9 may be dead branches, but the live branches shall be distributed evenly to
10 provide even rooting and growth over the entire area of the brush mattress.

11
12 The Contractor shall anchor the live brush mattress to the slope using stakes
13 and jute rope as shown in the Plans. Initially, the stakes shall be installed to
14 protrude above the live brush mattress. The Contractor shall attach the jute
15 rope to the stakes and tighten the rope by tamping the stakes further into the
16 bank, pulling the live brush mattress tight against the soil surface. The
17 Contractor shall cover the live brush mattress with sufficient stockpiled topsoil
18 to ensure good soil contact with the live plant material.

19
20 Plant replacement during plant establishment for "PSIPE Live Brush Mattress"
21 will be required for any section void of live shoots for an area of 25 square feet
22 or more. Replacement shall consist of installing live stakes, spaced 3 feet
23 apart in a triangular pattern within the area void of live shoots. Live stakes
24 shall be of the same species as the live brush mattress and shall have a
25 minimum length of 3 feet and a minimum diameter of ¾ inch. The
26 requirements of Section 8-02.3(8) apply to PSIPE Brush Mattress.

27
28 **8-02.3(15)C Brush Layer**

29 Brush layers shall be constructed of live branch cuttings, randomly mixed, from
30 the plant species listed under the brush layer heading in the Plans. The
31 number of branches required will vary depending on the average branch
32 diameter and layer thickness.

33
34 Brush layers shall be placed in a trench dug at a 45 degree incline into the
35 slope or stream bank. Two-thirds to three-fourths of the length of the live
36 branches shall be buried. Soil shall be firmly tamped in place. Succeeding
37 layers shall be spaced as detailed in the Plans. Brush layer placed in stream
38 banks shall be angled downstream.

39
40 Brush layers may include plant establishment when designated as PSIPE
41 Brush Layer. Plant replacement for PSIPE Brush Layer will be required for
42 each section void of live shoots for a continuous distance of 3 feet or more.
43 The requirements of Section 8-02.3(8) apply to PSIPE Brush Layer.

44
45 **8-02.3(16) Roadside Maintenance Under Construction**

46 When the Contract includes the item, Roadside Maintenance Under Construction,
47 this Work includes roadside mowing and ditch maintenance, and noxious weed
48 control outside of planting areas according to Section 8-02.3(3)C.
49

1 **8-02.3(16)A Roadside Mowing**

2 The Contractor shall mow designated roadside grass areas to the limits
3 designated by the Engineer. Roadside mowing is limited to slopes not steeper
4 than 3(H) to 1(V).
5

6 The Contractor shall mow according to the following requirements:
7

- 8 1. Trim around traffic equipment, structures, planting areas, or other
9 features extending above ground preceding or simultaneously with
10 each mowing.
11
- 12 2. Maintain grass between 4 and 12 inches in height.
13
- 14 3. Operate mowing equipment with suitable guards to prevent throwing
15 rocks or debris onto the traveled way or off of the Contracting Agency
16 property. Power driven equipment shall not cause ruts, deformation,
17 and compaction of the vegetated soil.
18
- 19 4. Removing clippings is required on the traveled way, shoulders,
20 walkways, or Structures.
21
- 22 5. Restore soil rutting to a smooth and even grade at the direction of the
23 Engineer.
24

25 **8-02.3(16)B Ditch Maintenance**

26 The Contractor shall maintain drainage for the duration of the Contract
27 according to the following requirements:
28

- 29 1. Maintain flow lines in drainage channels and roadside ditches.
30
- 31 2. Cutting or trimming vegetation within drainage channels to maintain
32 positive flow.
33
- 34 3. Remove dirt and debris from inside of culverts or any drainage area
35 where runoff has allowed accumulations and re-seed for erosion
36 control.
37
- 38 4. Restore channels to previous operational condition.
39

40 **8-02.4 Measurement**

41 Topsoil, bark or woodchip mulch and soil amendments will be measured by the acre or
42 the square yard along the grade and slope of the area covered immediately after
43 placement. Weed control pre-treatment of topsoil areas, excavation, and stockpiling are
44 included in the bid item "Topsoil Type ____".
45

46 Bark or woodchip mulch rings will be measured per each.
47

48 Compost will be measured by the acre or the square yard along the grade and slope of
49 the area covered immediately after application.
50

51 Seeding, fertilizing, and mulching will be measured by the acre or the square yard by
52 ground slope measurement or through the use of design data.

Seeding and fertilizing by hand will be measured by the square yard. No adjustment in area size will be made for the vegetation free zone around each plant.

Seeded lawn, sod installation, and lawn mowing will be measured along the ground slope and computed in square yards of actual lawn completed, established, and accepted.

Plant selection will be measured per each.

PSIPE __ (Plant Selection Including Plant Establishment) will be measured per each.

Live Pole will be measured per each.

Live Stake Row will be measured by the linear foot along the ground slope line.

The pay quantities for plant materials will be determined by count of the number of satisfactory plants in each category accepted by the Engineer.

Fascine and PSIPE live fascine will be measured by the linear foot along the ground slope line.

Brush mattress and PSIPE live brush mattress will be measured by the surface square yard along the ground slope line.

Brush layer and PSIPE brush layer will be measured by the linear foot along the ground slope line.

Water will be measured in accordance with Section 2-07.4. Measurement will be made of only that water hauled in tank trucks or similar equipment.

8-02.5 Payment

Payment will be made for each of the following listed Bid items that are included in the Proposal:

“Project Area Weed and Pest Control” will be paid in accordance with Section 1-09.6.

For the purpose of providing a common Proposal for all Bidders, the Contracting Agency entered an amount for “Project Area Weed and Pest Control” in the Proposal to become a part of the total Bid by the Contractor. Payment under this item will be made only when the Work is not already covered by other items.

“Topsoil Type _____”, per acre.

The unit Contract price per acre for “Topsoil Type _____” shall be full payment for all costs for the specified Work.

“Fine Compost”, per acre or per square yard.

“Medium Compost”, per acre or per square yard.

“Coarse Compost”, per acre or per square yard.

The unit Contract price per acre for “Fine Compost”, “Medium Compost” or “Coarse Compost” shall be full pay for furnishing and spreading the compost onto the existing soil.

1
2 "Soil Amendment", per acre.

3 The unit Contract price per acre for "Soil Amendment" shall be full pay for
4 furnishing and incorporating the soil amendment into the existing soil.

5
6 "Plant Selection ____", per each.

7 The unit Contract price for "Plant Selection ____", per each shall be full pay for all
8 Work to perform the work as specified within the planting area prior to planting for
9 weed control, planting area preparation and installation of plants with initial
10 watering.

11
12 As the plants that do not include plant establishment are obtained, propagated, and
13 grown, partial payments will be made as follows:

14
15 Payment of 15 percent of the unit Contract price per each when the plant
16 materials have been contracted, propagated, and are growing under nursery
17 conditions. The Contractor shall provide the Engineer with certification that the
18 plant material has been procured or contracted for delivery to the project for
19 planting within the time limits of the project. The certification shall state the
20 location, quantity, and size of all material.

21
22 Payment will be increased to 100 percent of the unit Contract price per each
23 for contracted plant material at the completion of the initial planting.

24
25 All partial payments shall be limited to the actual number of healthy vigorous
26 plants that meet the stage requirements, limited to plan quantity. Previous
27 partial payments made for materials rejected or missing will be deducted from
28 future payments due the Contractor.

29
30 "PSIPE ____", per each.

31 The unit Contract price for "PSIPE ____", per each, shall be full pay for all Work
32 necessary to perform as specified within the planting area for weed control and
33 planting area preparation, planting, cleanup, and water necessary to complete
34 planting operations as specified to the end of first year plant establishment.

35
36 As the plants that include plant establishment are obtained, propagated, and
37 grown, partial payments will be made as follows after inspection by the Engineer:

38
39 Payment of 5 percent of the unit Contract price, per each, when the plant
40 materials have been contracted, propagated, and are growing under nursery
41 conditions. The Contractor shall provide the Engineer with certification that the
42 plant material has been procured or contracted for delivery to the project for
43 planting within the time limits of the project. The certification shall state the
44 location, quantity, and size of all material.

45
46 Payment will be increased to 15 percent of the unit Contract price, per each,
47 upon completion of the initial weed control and planting area preparation Work.

48
49 Payment will be increased to 60 percent of the unit Contract price per each for
50 the contracted plant material in a designated unit area when planted.
51

1	Payment will be increased to 70 percent of the unit Contract price per each for	
2	contracted plant material at the completion of the initial planting.	
3		
4	Payment will be increased to the appropriate percentage upon reaching the	
5	following plant establishment milestones:	
6		
7	June 30th	80 percent
8		
9	September 30th	90 percent
10		
11	Completion of first-year plant establishment or after all	100 percent
12	replacement plants have been installed, whichever is	
13	later.	
14		
15	Plant establishment milestones are achieved when planting areas meet	
16	conditions described in Section 8-02.3(13).	
17		
18	“Seeding, Fertilizing and Mulching”, per acre.	
19		
20	“Seeding and Fertilizing”, per acre or per square yard.	
21		
22	“Seeding and Fertilizing by Hand”, per square yard.	
23		
24	“Second Application of Fertilizer”, per acre.	
25		
26	“Seeding and Mulching”, per acre.	
27		
28	“Seeded Lawn Installation”, per square yard.	
29	“Sod Installation”, per square yard.	
30	“Lawn Mowing”, per square yard.	
31	The unit Contract price per square yard for “Seeded Lawn Installation” or “Sod	
32	Installation” shall be full pay for all costs necessary to prepare the area, plant or	
33	sod the lawn, erect barriers, control weeds, and establish lawn areas and for	
34	furnishing all labor, tools, equipment, and materials necessary to complete the	
35	Work as specified and shall be paid in the following sequence for healthy, vigorous	
36	lawn:	
37		
38	Completion of Lawn Planting	60 percent of individual areas
39		
40	Mid Lawn Establishment (after two mowings)	85 percent of individual areas
41		
42	Completion of Lawn Establishment	100 percent of individual areas
43	(after four mowings)	
44		
45	“Plant Establishment Year ____” will be paid in accordance with Section 1-09.6.	
46	For the purpose of providing a common Proposal for all Bidders, the Contracting	
47	Agency entered an amount for “Plant Establishment - ____ Year” in the Proposal to	
48	become a part of the total Bid by the Contractor.	
49		
50	“Live Pole”, per each.	
51		
52	“Live Stake Row”, per linear foot.	

1
2 "Bark or Wood Chip Mulch", per acre.
3
4 "Bark or Wood Chip Mulch Rings", per each.
5 The unit Contract price per acre for "Bark or Wood Chip Mulch" shall be full pay for
6 furnishing and spreading the mulch onto the existing soil.
7
8 "Fascine" and "PSIPE Live Fascine", per linear foot.
9 "Brush Mattress" and "PSIPE Live Brush Mattress", per square yard.
10 "Brush Layer" and "PSIPE Brush Layer", per linear foot.
11 When PSIPE is included with Fascine, Brush Mattress, or Brush Layer, the
12 payment schedule for PSIPE ____ will apply.
13
14 "Roadside Maintenance under Construction" will be paid in accordance with
15 Section 1-09.6.
16 For the purpose of providing a common Proposal for all Bidders, the Contracting
17 Agency has entered an amount for "Roadside Maintenance Under Construction" in
18 the Proposal to become a part of the total Bid by the Contractor.
19
20 "Water", per M Gal.
21
22

23 8-04.AP8

24 **Section 8-04, Curbs, Gutters, and Spillways**
25 **April 2, 2018**

26 **8-04.2 Materials**

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

28
29 Cement 9-01
30

31 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

32 The first paragraph is supplemented with the following:

33
34 Roundabout truck apron cement concrete curb and gutter shall be constructed with air
35 entrained concrete Class 4000 conforming to the requirements of Section 6-02.
36

37 8-06.AP8

38 **Section 8-06, Cement Concrete Driveway Entrances**
39 **April 2, 2018**

40 **8-06.2 Materials**

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

42
43 Cement 9-01
44

45 **8-06.3 Construction Requirements**

46 The first paragraph is revised to read:

47
48 Cement concrete driveway approaches shall be constructed with air entrained concrete
49 Class 4000 conforming to the requirements of Section 6-02 or Portland Cement or

1 Blended Hydraulic Cement Concrete Pavement conforming to the requirements of
2 Section 5-05.

3
4 8-07.AP8

5 **Section 8-07, Precast Traffic Curb**
6 **April 2, 2018**

7 **8-07.3(1) Installing Curbs**

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

9
10 The curb shall be firmly bedded for its entire length and breadth on a mortar bed
11 conforming to Section 9-20.4(3) composed of one part Portland cement or blended
12 hydraulic cement and two parts sand.

13
14 The fourth paragraph is revised to read:

15
16 All joints between adjacent pieces of curb except joints for expansion and/or drainage
17 as designated by the Engineer shall be filled with mortar composed of one part Portland
18 cement or blended hydraulic cement and two parts sand.

19
20 8-09.AP8

21 **Section 8-09, Raised Pavement Markers**
22 **April 1, 2019**

23 **8-09.5 Payment**

24 The last paragraph is revised to read:

25
26 The unit Contract price per hundred for "Raised Pavement Marker Type 1", "Raised
27 Pavement Marker Type 2", "Raised Pavement Marker Type 3 _____ In.", and
28 "Recessed Pavement Marker" shall be full pay for furnishing and installing the markers
29 in accordance with these Specifications.

30
31 8-11.AP8

32 **Section 8-11, Guardrail**
33 **April 1, 2019**

34 **8-11.3(1)A Erection of Posts**

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

36
37 Posts shall be set to the true line and grade of the Highway after the grade is in place
38 and compaction is completed.

39
40 **8-11.3(1)C Terminal and Anchor Installation**

41 The first paragraph is revised to read:

42
43 All excavation and backfilling required for installation of anchors shall be performed in
44 accordance with Section 2-09, except that the costs thereof shall be included in the unit
45 Contract price for the anchor installed.

46
47 The first sentence of the second to last paragraph is revised to read:

48

1 Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail
2 shall be supervised at all times by a manufacturer's representative, or an installer who
3 has been trained and certified by the manufacturer.
4

5 The last paragraph is revised to read:
6

7 Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test
8 and evaluation criteria in the Manual for Assessing Safety Hardware (MASH).
9

10 **8-11.4 Measurement**

11 The third paragraph is revised to read:
12

13 Measurement of beam guardrail _____ terminal will be per each for the
14 completed terminal.
15

16 The fourth paragraph is revised to read:
17

18 Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot
19 for the completed terminal.
20

21 The sixth paragraph is revised to read:
22

23 Measurement of beam guardrail anchor Type 10 will be per each for the completed
24 anchor, including the attachment of the anchor to the guardrail.
25

26 **8-11.5 Payment**

27 The Bid item "Beam Guardrail Anchor Type ____", per each is revised to read "Beam
28 Guardrail Anchor Type 10", per each.
29

30 The Bid item "Beam Guardrail Buried Terminal Type 1", per each is deleted from this
31 section.
32

33 The Bid item "Beam Guardrail Buried Terminal Type 2", per linear foot and the following
34 paragraph are revised to read:
35

36 "Beam Guardrail Type 31 Buried Terminal Type 2", per linear foot.
37

38 The unit Contract price per linear foot for "Beam Guardrail Type 31 Buried Terminal
39 Type 2" shall be full payment for all costs to obtain and provide materials and perform
40 the Work as described in Section 8-11.3(1)C.
41

42 8-14.AP8

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 8-16.AP8
3 **Section 8-16, Concrete Slope Protection**
4 **April 2, 2018**

5 **8-16.2 Materials**

6 In the first paragraph, the last two material references are revised to read:

7

8	Poured Portland Cement or Blended Hydraulic Cement	
9	Concrete Slope Protection	9-13.5(2)
10	Pneumatically Placed Portland Cement or Blended	
11	Hydraulic Cement Concrete Slope Protection	9-13.5(3)

12

13 8-17.AP8
14 **Section 8-17, Impact Attenuator Systems**
15 **January 7, 2019**

16 **8-17.3 Construction Requirements**

17 This section is supplemented with the following:

18
19 Permanent impact attenuators shall meet the crash test and evaluation criteria of the
20 Manual for Assessing Safety Hardware (MASH), except as otherwise noted in the Plans
21 or Special Provisions.

22
23 8-20.AP8
24 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**
25 **Systems, and Electrical**
26 **August 6, 2018**

27 **8-20.1(1) Regulations and Code**

28 The last paragraph is revised to read:

29
30 Persons performing electrical Work shall be certified in accordance with and supervised
31 as required by RCW 19.28.161. Proof of certification shall be worn at all times in
32 accordance with WAC 296-46B-942. Persons failing to meet these certification
33 requirements may not perform any electrical work, and shall stop any active electrical
34 work, until their certification is provided and worn in accordance with this Section.

35
36 **8-20.2(2) Equipment List and Drawings**

37 This section is renumbered:

38
39 **8-20.2(1) Equipment List and Drawings**

40
41 **8-20.3(4) Foundations**

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

43
44 Concrete for Type II, III, IV, V, and CCTV signal standards and light standard
45 foundations shall be Class 4000P and does not require air entrainment.

46
47 **8-20.3(5)A General**

48 The last two sentences of the last paragraph is deleted.

1
2 This section is supplemented with the following:
3
4 All conduits shall include a pull tape with the equipment grounding conductor. The pull
5 tape shall be attached to the conduit near the end bell or grounded end bushing, or to
6 duct plugs or caps if present, at both ends of the conduit.
7

8 **8-20.3(8) Wiring**
9 The seventeenth paragraph is supplemented with the following:
10
11 Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string may not be
12 used.
13

14 **8-20.3(14)C Induction Loop Vehicle Detectors**
15 Item number 2 is deleted.
16
17 Item numbers 3 through 12 are renumbered to 2 through 11, respectively.
18

19 8-21.AP8
20 **Section 8-21, Permanent Signing**
21 **January 7 2019**

22 **8-21.3(5) Sign Relocation**
23 The second sentence of the first paragraph is revised to read:
24
25 Where the existing sign Structure is mounted on concrete pedestals, the Contractor
26 shall remove the pedestal to a minimum of 2 feet below finished grade and backfill the
27 remaining hole with material similar to that surrounding the hole.
28

29 **8-21.3(9)F Foundations**
30 Item number 3 of the twelfth paragraph is supplemented with the following new sentence:
31
32 Class 4000P concrete for roadside sign structures does not require air entrainment.
33

34 8-22.AP8
35 **Section 8-22, Pavement Marking**
36 **January 7, 2019**

37 **8-22.3(2) Preparation of Roadway Surfaces**
38 The second paragraph is revised to read:
39
40 Remove all other contaminants from pavement surfaces that may adversely affect the
41 installation of new pavement marking.
42

43 **8-22.3(3)F Application Thickness**
44 The second to last sentence of the last paragraph is revised to read:
45
46 After grinding, clean the groove.
47

1 9-00.AP9
2 **Section 9-00, Definitions and Tests**
3 **January 7, 2019**

4 **9-00.4 Sieves for Testing Purposes**

5 This section is revised to read:

6
7 Test sieves shall be made of either: (1) woven wire cloth conforming to ASTM E11, or
8 (2) square-hole, perforated plates conforming to ASTM E323.
9

10 **9-00.7 Galvanized Hardware, AASHTO M 232**

11 The first sentence is revised to read:

12
13 An acceptable alternate to hot-dip galvanizing in accordance with AASHTO M 232 will
14 be zinc coatings mechanically deposited in accordance with ASTM B695, providing the
15 minimum thickness of zinc coating is not less than that specified in AASHTO M 232,
16 and the process will not produce hydrogen embrittlement in the base metal.
17

18 9-02.AP9

19 **Section 9-02, Bituminous Materials**
20 **January 7, 2019**

21 **9-02.1 Asphalt Material, General**

22 The second paragraph is revised to read:

23
24 The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified
25 asphalt shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2
26 "Standard Practice for Asphalt Suppliers That Certify Performance Graded and
27 Emulsified Asphalts". The Asphalt Supplier's QCP shall be submitted and receive the
28 acceptance of the WSDOT State Materials Laboratory. Once accepted, any change to
29 the QCP will require a new QCP to be submitted for acceptance. The Asphalt Supplier
30 of PG asphalt binder and emulsified asphalt shall certify through the Bill of Lading that
31 the PG asphalt binder or emulsified asphalt meets the Specification requirements of the
32 Contract.
33

34 **9-02.1(4) Performance Graded Asphalt Binder (PGAB)**

35 This section's title is revised to read:

36
37 **Performance Graded (PG) Asphalt Binder**
38

39 The first paragraph is revised to read:

40
41 PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades
42 specified in the Contract shall be used in the production of HMA. For HMA with greater
43 than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt
44 binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the
45 proportions of the mix design shall meet the PG asphalt binder requirements of
46 AASHTO M 332 Table 1 for the grade of asphalt binder specified by the Contract.
47

48 The second paragraph, including the table, is revised to read:
49

In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders shall meet the following requirements:

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	Test Method	PG58S-22	PG58H-22	PG58V-22	PG64S-28	PG64H-28	PG64V-28
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 350 ¹			30% Min.	20% Min.	25% Min.	30% Min.
¹ Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

The third paragraph is revised to read:

The RTFO $J_{nr diff}$ 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.

9-03.AP9

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:

1
2 Aggregates for concrete shall meet the following test requirements:
3
4 The second sentence of the second to last paragraph is revised to read:
5
6 The Contractor shall submit test results according to ASTM C1567 through the Engineer
7 to the State Materials Laboratory that demonstrate that the proposed fly ash when used
8 with the proposed aggregates and cement will control the potential expansion to 0.20
9 percent or less before the fly ash and aggregate sources may be used in concrete.
10
11 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**
12 This section's title is revised to read:
13
14 **Fine Aggregate for Concrete**
15
16 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**
17 This section's title is revised to read:
18
19 **Coarse Aggregate for Concrete**
20
21 **9-03.1(4)C Grading**
22 The first paragraph (up until the colon) is revised to read:
23
24 Coarse aggregate for concrete when separated by means of laboratory sieves shall
25 conform to one or more of the following gradings as called for elsewhere in these
26 Specifications, Special Provisions, or in the Plans:
27
28 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**
29 This section's title is revised to read:
30
31 **Combined Aggregate Gradation for Concrete**
32
33 **9-03.1(5)B Grading**
34 In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read
35 "FOP for WAQTC/AASHTO T 27/T 11".
36
37 **9-03.2 Aggregate for Job-Mixed Portland Cement Mortar**
38 This section's title is revised to read:
39
40 **Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar**
41
42 The first sentence of the first paragraph is revised to read:
43
44 Fine aggregate for portland cement or blended hydraulic cement mortar shall consist of
45 sand or other inert materials, or combinations thereof, accepted by the Engineer, having
46 hard, strong, durable particles free from adherent coating.
47
48 **9-03.4(1) General Requirements**
49 The first paragraph (up until the colon) is revised to read:
50

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:

9-03.8(2) HMA Test Requirements

The two tables in the second paragraph are replaced with the following three tables:

Mix Criteria	HMA Class							
	$\frac{3}{8}$ inch		$\frac{1}{2}$ inch		$\frac{3}{4}$ 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

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

	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

9-03.8(7) HMA Tolerances and Adjustments

In the table in item number 1, the fifth row is revised to read:

Asphalt binder	-0.4% to 0.5%		±0.7%
----------------	---------------	--	-------

In the table in item number 1, the following new row is inserted before the last row:

Voids in Mineral Aggregate, VMA	-1.0%		
---------------------------------	-------	--	--

9-03.9(1) Ballast

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

Aggregates for ballast shall meet the following test requirements:

9-03.14(4) Gravel Borrow for Structural Earth Wall

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

The material shall be substantially free of shale or other soft, poor durability particles, and shall not contain recycled materials, such as glass, shredded tires, concrete rubble, or asphaltic concrete rubble.

9-03.21(1)B Recycled Concrete Aggregate Approval and Acceptance

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

Recycled concrete aggregate may be used as coarse aggregate or blended with coarse aggregate for Commercial Concrete, Class 3000 concrete, or Cement Concrete Pavement.

Item number 4 of the second paragraph is revised to read:

4. For Cement Concrete Pavement mix designs using recycled concrete aggregates, the Contractor shall submit evidence that ASR mitigating measures control expansion in accordance with Section 9-03.1(1).

This section is supplemented with the following new subsection:

9-03.21(1)B1 Recycled Concrete Aggregate Approval and Acceptance

Recycled concrete aggregate may be approved through a three tiered system that consists of the following:

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	
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	

2

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
--	-----------	---	-----	---	---

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

9-04.AP9

**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:

Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one part portland cement or blended hydraulic cement, three parts fine sand, and sufficient water to allow proper workability.

1
2 **9-04.5 Flexible Plastic Gaskets**

3 In the table, the Test Method value for **Specific Gravity at 77°F** is revised to read "ASTM
4 D71".

5
6 In the table, the Test Method value for **Flash Point COC, F** is revised to read "ASTM D93
7 REV A".

8
9 In the table, the Test Method value for **Volatile Matter** is revised to read "ASTM D6".

10
11 9-05.AP9

12 **Section 9-05, Drainage Structures and Culverts**
13 **January 7, 2019**

14 **9-05.3(1)A End Design and Joints**

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

16
17 The joints and gasket material shall meet the requirements of ASTM C990.

18
19 **9-05.3(1)C Age at Shipment**

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

21
22 Unless it is tested and accepted at an earlier age, it shall not be considered ready for
23 shipment sooner than 28 days after manufacture when made with Type II portland
24 cement or blended hydraulic cement, nor sooner than 7 days when made with Type III
25 portland cement.

26
27 **9-05.7(3) Concrete Storm Sewer Pipe Joints**

28 The second sentence is revised to read:

29
30 The joints and gasket material shall meet the requirements of ASTM C990.

31
32 **9-05.7(4)A Hydrostatic Pressure on Pipes in Straight Alignment**

33 The first sentence is revised to read:

34
35 Hydrostatic pressure tests on pipes in straight alignment shall be made in accordance
36 with the procedure outlined in Section 10 of ASTM C990, except that they shall be
37 performed on an assembly consisting of not less than three nor more than five pipe
38 sections selected from stock by the Engineer and assembled in accordance with
39 standard installation instructions issued by the manufacturer.

40
41 **9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe**

42 This section is revised to read:

43
44 Polypropylene culvert and storm sewer pipe shall conform to the following requirements:

- 45
46 1. For dual wall pipe sizes up to 60 inches: ASTM F2881 or AASHTO M 330,
47 Type S or Type D.
48
49 2. For double or triple wall pipe sizes up to 60 inches: ASTM F2764.
50

1 3. Fittings shall be factory welded, injection molded, or PVC.

2

3 **9-05.24(2) Polypropylene Sanitary Sewer Pipe**

4 This section is revised to read:

5

6 Polypropylene sanitary sewer pipe shall conform to the following requirements:

7

8 1. For pipe sizes up to 60 inches: ASTM F2764.

9

10 2. Fittings shall be factory welded, injection molded, or PVC.

11

12 9-06.AP9

13 **Section 9-06, Structural Steel and Related Materials**

14 **January 7, 2019**

15 **9-06.5 Bolts**

16 This section's title is revised to read:

17

18 **Bolts and Rods**

19

20 **9-06.5(4) Anchor Bolts**

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

22

23 **9-06.5(4) Anchor Bolts and Anchor Rods**

24 Anchor bolts and anchor rods shall meet the requirements of ASTM F1554 and, unless
25 otherwise specified, shall be Grade 105 and shall conform to Supplemental
26 Requirements S2, S3, and S4.

27

28 Nuts for ASTM F1554 Grade 105 black anchor bolts and anchor rods shall conform to
29 ASTM A563, Grade D or DH. Nuts for ASTM F1554 Grade 105 galvanized anchor bolts
30 and anchor rods shall conform to either ASTM A563, Grade DH, or AASHTO M292,
31 Grade 2H, and shall conform to the overtapping, lubrication, and rotational testing
32 requirements in Section 9-06.5(3). Nuts for ASTM F1554 Grade 36 or 55 black or
33 galvanized anchor bolts and anchor rods shall conform to ASTM A563, Grade A or DH.
34 Washers shall conform to ASTM F436.

35

36 The bolts and rods shall be tested by the manufacturer in accordance with the
37 requirements of the pertinent Specification and as specified in these Specifications.
38 Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the
39 project site. The Contractor shall submit to the Engineer for acceptance a
40 Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and
41 washers, as defined in Section 1-06.3. If the Engineer deems it appropriate, the
42 Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for
43 testing.

44

45 All bolts, rods, nuts, and washers shall be marked and identified as required in the
46 pertinent Specification.

47

48 **9-06.15 Welded Shear Connectors**

49 The third paragraph is revised to read:

50

51 Mechanical properties shall be determined in accordance with AASHTO T 244.

1
2 **9-06.17 Vacant**

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

5 **9-06.17 Noise Barrier Wall Access Door**

6 Access door frames shall be formed of 14-gauge steel to the size and dimensions
7 shown in the Plans. The access door frame head and jamb members shall be mitered,
8 securely welded, and ground smooth. Each head shall have two anchors and each jamb
9 shall have three anchors. The hinges shall be reinforced with ¼-inch by 12-inch plate,
10 width equal to the full inside width of the frame.

11
12 Access doors shall be full flush 1-¾-inch thick seamless doors with a polystyrene core.
13 Door faces shall be constructed with smooth seamless 14-gauge roller-levered, cold-
14 rolled steel sheet conforming to ASTM A 792 Type SS, Grade 33 minimum, Coating
15 Designation AZ55 minimum. The vertical edges shall be neat interlocked hemmed edge
16 seam. The top and bottom of the door shall be enclosed with 14-gauge channels.
17 Mortise and reinforcement for locks and hinges shall be 10-gauge steel. Welded top cap
18 shall be ground and filled for exterior applications. The bottom channel shall have weep
19 holes.

20
21 Each access door shall have three hinges. Access door hinges shall be ASTM A 276
22 Type 316 stainless steel, 4-½-inches square, with stainless steel ball bearing and non-
23 removable pins.

24
25 Each access door shall have two pull plates. The pull plates shall be ASTM A 240 Type
26 316 stainless steel, with a grip handle of one-inch diameter and 8 to 10-inches in length.

27
28 The door assembly shall be fabricated and assembled as a complete unit including all
29 hardware specified prior to shipment.
30

31 **9-06.18 Metal Bridge Railing**

32 The second sentence of the first paragraph is revised to read:
33

34 Steel used for metal railings, when galvanized after fabrication in accordance with
35 AASHTO M111, shall have a controlled silicon content of either 0.00 to 0.06 percent or
36 0.15 to 0.25 percent.
37

38 9-07.AP9

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
51 or ASTM A615, Grade 60 and shall be coated in accordance with ASTM

1 A1078 Type 2 coating, except that the bars may be cut to length after being
2 coated. Cut ends shall be coated in accordance with ASTM A1078 with a
3 patching material that is compatible with the coating, inert in concrete and
4 recommended by the coating manufacturer. The thickness of the epoxy
5 coating shall be 10 mils plus or minus 2 mils. The Contractor shall furnish a
6 written certification that properly identifies the coating material, the number of
7 each batch of coating material used, quantity represented, date of
8 manufacture, name and address of manufacturer, and a statement that the
9 supplied coating material meets the requirements of ASTM A1078 Type 2
10 coating. Patching material, compatible with the coating material and inert in
11 concrete and recommended by the manufacturer shall be supplied with each
12 shipment for field repairs by the Contractor.

13
14 2. ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a 1.625
15 inch outside diameter and a 0.120 inch wall thickness. Both the inside and
16 outside of the tube shall be zinc coated with G40 galvanizing in accordance
17 with ASTM A653. Following zinc coating the tubes shall be coated in
18 accordance with Section 9-07.5(1) item 1. The ends of the tube shall be
19 capped to prevent intrusion of concrete or other materials.

20
21 **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and**
22 **Cement Concrete Pavement Rehabilitation)**

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

24
25 Corrosion resistant dowel bars shall be 1½ inch outside diameter plain round steel bars
26 or tubular bars 18 inches in length and meet the requirements of one of the following:

27
28 Item number 4 and 5 of the first paragraph are revised to read:

- 29
30 4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete
31 reinforcement meeting all the requirements of ASTM A 1035 Alloy Type CS Grade
32 100 or Alloy Type CS Grade 120.
33
34 5. Zinc Clad dowel bars shall be 1½ inch solid bars or 1.625 inch outside diameter by
35 0.120 inch wall tubular bars meeting the chemical and physical properties of
36 AASHTO M 31, Grade 60, or AASHTO M 255, Grade 60. The bars shall have a
37 minimum of 0.035 inches A710 Zinc alloy clad to the plain steel inner bar or tube.
38 A710 Zinc shall be composed of: zinc: 99.5 percent, by weight, minimum; copper:
39 0.1-0.25 percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each
40 end of tubular bars shall be plugged using a snug-fitting insert to prohibit any
41 intrusion of concrete or other materials.

42
43 The numbered list in the first paragraph is supplemented with the following:

- 44
45 6. Multicoated fusion bonded epoxy bars shall consist of an ASTM A615 bar with
46 alternating layers of ASTM A934 coating and an abrasion resistant overcoat (ARO).
47 The ASTM A934 coating shall form the base and there shall be two layers of each
48 coating material. The minimum thickness of the combined layers of the ASTM A934
49 coating and ARO coating shall be 20 mils. The ARO shall meet the following
50 requirements:

51

Test	Method	Specification
------	--------	---------------

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

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.

9-08.AP9

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:

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:

This paint shall conform to Federal Specification MIL-PRF-24635E Type II Class 1, 2 or 3.

1
2 **9-08.1(7) Acceptance**

3 This section is revised to read:

4
5 For projects with moisture-cured polyurethane quantities less than 20 gallons,
6 acceptance will be by the Manufacturer's Certificate of Compliance.

7
8 For projects with moisture-cured polyurethane quantities greater than 20 gallons, the
9 product shall be listed in the current WSDOT Qualified Products List (QPL). If the lot
10 number is listed on the QPL, it may be accepted without additional testing. If the lot
11 number is not listed on the QPL, a 1 quart sample shall be submitted to the State
12 Materials Laboratory for testing and acceptance.

13
14 For all other paint types, acceptance will be based on visual inspection.

15
16 **9-08.1(8) Standard Colors**

17 In the first paragraph, the reference to "Federal Standard 595" is revised to read "SAE AMS
18 Standard 595".

19
20 The second paragraph is revised to read:

21
22 Unless otherwise specified, all top or finish coats shall be semi-gloss, with the paint
23 falling within the range of 35 to 70 on the 60-degree gloss meter.

24
25 **9-08.2 Powder Coating Materials for Coating Galvanized Surfaces**

26 The last paragraph is revised to read:

27
28 Repair materials shall be as recommended by the powder coating manufacturer and as
29 specified in the Contractor's powder coating plan as accepted by the Engineer.

30
31 **9-08.3 Pigmented Sealer Materials for Coating of Concrete Surfaces**

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

33
34 **9-08.3 Concrete Surface Treatments**

35 **9-08.3(1) Pigmented Sealer Materials**

36 The pigmented sealer shall be a semi-opaque, colored toner containing only methyl
37 methacrylate-ethyl acrylate copolymer resins, toning pigments suspended in
38 solution at all times by a chemical suspension agent, and solvent. Toning pigments
39 shall be laminar silicates, titanium dioxide, and inorganic oxides only. There shall
40 be no settling or color variation. Tinting shall occur at the factory at the time of
41 manufacture and placement in containers, prior to initial shipment. Use of vegetable
42 or marine oils, paraffin materials, stearates, or organic pigments in any part of
43 coating formulation will not be permitted. The color of pigmented sealer shall be as
44 specified by the Contracting Agency. The Contractor shall submit a 1-quart wet
45 sample, a drawdown color sample, and spectrophotometer or colorimeter readings
46 taken in accordance with ASTM D2244, for each batch and corresponding
47 standard color card. The calculated Delta E shall not exceed 1.5 from the
48 Commission Internationale de l'Eclairage (CIELAB) when measured at 10 degrees
49 Standard Observer and Illuminant D 65.

50
51 The 1-quart wet sample shall be submitted in the manufacturer's labeled container
52 with product number, batch number, and size of batch. The companion drawdown

color sample shall be labeled with the product number, batch number, and size of batch. The Contractor shall submit the specified samples and readings to the Engineer at least 14 calendar days prior to the scheduled application of the sealer. The Contractor shall not begin applying pigmented sealer until receiving the Engineer's written approval of the pigmented sealer color samples.

9-08.3(2) Exposed Aggregate Concrete Coatings and Sealers

9-08.3(2)A Retardant Coating

Retardant coating shall exhibit the following properties:

1. Retards the set of the surface mortar of the concrete without preventing the concrete to reach the specified 28 day compressive strength.
2. Leaves the aggregate with its original color and luster, and firmly embedded in the concrete matrix.
3. Allows the removal of the surface mortar in accordance with the methods specified in Section 6-02.3(14)E without the use of acidic washing compounds.
4. Allows for uniform removal of the surface mortar.

If the Contractor proposes use of a retardant coating that is not listed in the current WSDOT QPL, the Contractor shall submit a Type 2 Working Drawing consisting of a one quart product sample from a current lot along with supporting product information, Safety Data Sheet, and a Manufacturer's Certificate of Compliance stating that the product conforms to the above performance requirements.

9-08.3(2)B Clear Sealer

The sealer for concrete surfaces with exposed aggregate finish shall be a clear, non-gloss, penetrating sealer of either a silane, siloxane, or silicone based formulation.

9-08.3(3) Permeon Treatment

Permeon treatment shall be a product of known consistent performance in producing the SAE AMS Standard 595 Color No. 30219 target color hue established by WSDOT, either selected from the WSDOT Qualified Products List (QPL), or an equivalent product accepted by the Engineer. For acceptance of products not listed in the current WSDOT QPL, the Contractor shall submit Type 3 Working Drawings consisting of a one quart product sample from a current lot, supporting product information and a Safety Data Sheet.

9-13.AP9

Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion and Scour Protection and Rock Walls April 2, 2018

9-13.1(1) General

The last paragraph is revised to read:

1 Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
2 defects tending to destroy its resistance to weather and shall meet the following test
3 requirements:
4

5 **9-13.5 Concrete Slope Protection**

6 This section is revised to read:
7

8 Concrete slope protection shall consist of reinforced portland cement or blended
9 hydraulic cement concrete poured or pneumatically placed upon the slope with a
10 rustication joint pattern or semi-open concrete masonry units placed upon the slope
11 closely adjoining each other.
12

13 **9-13.5(2) Poured Portland Cement Concrete Slope Protection**

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

16 **Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection**

17 **9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection**

18 This section's title is revised to read:
19

20 **Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete** 21 **Slope Protection** 22

23 The first paragraph is revised to read:
24

25 **Cement** – This material shall be portland cement or blended hydraulic cement as
26 specified in Section 9-01.
27

28 **9-13.7(1) Rock for Rock Walls and Chinking Material**

29 The first paragraph (up until the colon) is revised to read:
30

31 Rock for rock walls and chinking material shall be hard, sound and durable material,
32 free from seams, cracks, and other defects tending to destroy its resistance to weather,
33 and shall meet the following test requirements:
34
35

36 9-14.AP9

37 **Section 9-14, Erosion Control and Roadside Planting** 38 **August 6, 2018**

39 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

40 In Table 1, the last four rows are deleted.
41

42 **9-14.4(2)A Long-Term Mulch**

43 The first paragraph is supplemented with the following:
44

45 Products containing cellulose fiber produced from paper or paper components will not
46 be accepted.
47

48 Table 2 is supplemented with the following new rows:
49

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

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.

9-16.AP9

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.

9-18.AP9

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.

9-20.AP9

Section 9-20, Concrete Patching Material, Grout, and Mortar April 1, 2019

9-20.1 Patching Material

This section, including title, is revised to read:

9-20.1 Patching Material for Cement Concrete Pavement

Concrete patching material shall be prepackaged mortar extended with aggregate. The amount of aggregate for extension shall conform to the manufacturer's recommendation.

Patching mortar and patching mortar extended with aggregate shall contain cementitious material and conform to Sections 9-20.1(1) and 9-20.1(2). The Manufacturer shall use the services of a laboratory that has an equipment calibration verification system and a technician training and evaluation process in accordance with AASHTO R 18 to perform all tests specified in Section 9-20.1.

9-20.1(1) Patching Mortar

Patching mortar shall conform to the following requirements:

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

9-20.1(2) Patching Mortar Extended with Aggregate

Patching mortar extended with aggregate shall meet the following requirements:

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% Minimum durability 90.0%

1
2 **9-20.1(3) Aggregate**

3 Aggregate used to extend the patching mortar shall conform to Section 9-03.1(4)
4 and be AASHTO Grading No. 8. A Manufacturer's Certificate of Compliance shall
5 be submitted showing the aggregate source and the gradation. Mitigation for Alkali
6 Silica Reaction (ASR) will not be required for the extender aggregate used for
7 concrete patching material.
8

9 **9-20.1(4) Water**

10 Water shall meet the requirements of Section 9-25.1. The quantity of water shall be
11 within the limits recommended by the repair material manufacturer.
12

13 **9-20.2 Specifications**

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

16 **9-20.2 Patching Material for Concrete Structure Repair**

17 Concrete patching material shall be a prepackaged mixture of portland or blended
18 hydraulic cement, aggregate, and admixtures. Fly ash, ground granulated blast furnace
19 slag and microsilica fume may be used. The concrete patching material may be
20 shrinkage compensated. The concrete patching material shall also meet the following
21 requirements:
22

- 23 • Compressive strength of 6000 psi or higher at 28 days in accordance with
24 AASHTO T 22 (ASTM C 39), unless noted otherwise
25
- 26 • Bond strength of 250 psi or higher at 28 days or less in accordance with ASTM
27 C 1583 or ICRI 210.3R
28
- 29 • Shrinkage shall be 0.05 percent (500 microstrain) or lower at 28 days in
30 accordance with AASHTO T 160 (ASTM C 157) as modified by ICRI 320.3R
31
- 32 • Permeability shall be 2,000 coulombs or lower at 28 days in accordance with
33 AASHTO T 277 (ASTM C 1202)
34
- 35 • Freeze-thaw resistance shall have a durability factor of 90 percent or higher
36 after a minimum of 300 cycles in accordance with AASHTO T 161 Procedure A
37 (ASTM C 666)
38
- 39 • Soluble chloride ion limits in Section 6-02.3(2) shall be satisfied
40

41 **9-20.2(1) Patching Mortar**

42 This section, including title, is deleted in its entirety.
43

44 **9-20.2(2) Patching Mortar Extended with Aggregate**

45 This section, including title, is deleted in its entirety.
46

47 **9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications**

48 This section's title is revised to read:
49

50 **Grout Type 3 for Unconfined Applications**

51
52 This section is revised to read:

Grout Type 3 shall be a prepackaged material that does not include expansive admixtures meeting the following requirements:

- Compressive strength shall be 4000 psi or higher at 28 days in accordance with AASHTO T 22 (ASTM C 39) for grout extended with coarse aggregate or AASHTO T 106 (ASTM C109) otherwise.
- Bond strength shall meet one of the following:
 - 250 psi or higher at 28 days or less in accordance with ASTM C1583.
 - 2000 psi or higher at 28 days or less in accordance with ASTM C882. The following modification to ASTM C882 is acceptable: use Type 3 Grout in lieu of epoxy resin base bonding system and freshly mixed portland-cement mortar in the procedure for testing Type II and V systems.
- Drying shrinkage shall be 0.08 percent (800 microstrain) or lower at 28 days in accordance with AASHTO T 160 (ASTM C157). The following modification to AASHTO T 160 is acceptable: use a standard specimen size of 3 x 3 x 11-¼ inches.

9-20.5 Bridge Deck Repair Material

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

3. Permeability of less than 2,000 coulombs at 28-days or more in accordance with AASHTO T 277.

9-21.AP9

Section 9-21, Raised Pavement Markers (RPM) January 2, 2018

9-21.2 Raised Pavement Markers Type 2

This section's content is deleted.

9-21.2(1) Physical Properties

This section, including title, is revised to read:

9-21.2(1) Standard Raised Pavement Markers Type 2

The marker housing shall contain reflective faces as shown in the Plans to reflect incident light from either a single or opposite directions and meet the requirements of ASTM D 4280 including Flexural strength requirements.

9-21.2(2) Optical Requirements

This section, including title, is revised to read:

9-21.2(2) Abrasion Resistant Raised Markers Type 2

Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and meet the requirements of ASTM D 4280 with the following additional requirement: The coefficient of luminous intensity of the markers shall be measured after subjecting the entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop

1 apparatus. After the exposure described above, retroreflected values shall not be less
2 than 0.5 times a nominal unblemished sample.

3
4 **9-21.2(3) Strength Requirements**

5 This section is deleted in its entirety.

6
7 9-23.AP9

8 **Section 9-23, Concrete Curing Materials and Admixtures**

9 **April 1, 2019**

10 **9-23.12 Natural Pozzolan**

11 This section is revised to read:

12

13 Natural Pozzolans shall be ground Pumice and shall conform to the requirements of
14 AASHTO M295 Class N, including supplementary optional chemical requirements as
15 set forth in Table 2.

16

17 **9-23.13 Blended Supplementary Cementitious Material**

18 The second sentence is revised to read:

19

20 Blended SCMs shall be limited to binary or ternary blends of fly ash, ground granulated
21 blast furnace slag and microsilica fume.

22

23 The second to last sentence is deleted.

24

25 9-26.AP9

26 **Section 9-26, Epoxy Resins**

27 **January 7, 2019**

28 **9-26.1(1) General**

29 The following new sentence is inserted after the first sentence of the first paragraph:

30

31 For pre-packaged cartridge kits, the epoxy bonding agent shall meet the requirements
32 of ASTM C881 when mixed according to manufacturer instructions, utilizing the
33 manufacturer's mixing nozzle.

34

35 **9-26.1(2) Packaging and Marking**

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

37

38 The components of the epoxy system furnished under these Specifications shall be
39 supplied in separate containers or pre-packaged cartridge kits that are non-reactive with
40 the materials contained.

41

42 The second paragraph is revised to read:

43

44 Separate containers shall be marked by permanent marking that identify the formulator,
45 "Component A" (contains the Epoxy Resin) and "Component B" (Contains the Curing
46 Agent), type, grade, class, lot or batch number, mixing instructions and the quantity
47 contained in pounds or gallons as defined by these Specifications.

48

49 The following new paragraph is inserted after the second paragraph:

1
2 Pre-packaged cartridge kits shall be marked by permanent marking that identify the
3 formulator, type, grade, class, lot or batch number, mixing instructions and the quantity
4 contained in ounces or milliliters as defined by these Specifications.
5

6 9-28.AP9

7 **Section 9-28, Signing Materials and Fabrication**
8 **April 1, 2019**

9 **9-28.2 Manufacturer's Identification and Date**

10 The second sentence is revised to read:

11
12 In addition, the width and height dimension, in inches, the Contract number, and the
13 number of the sign as it appears in the Plans shall be placed using 3-inch series C black
14 letters on the back of destination, distance, and large special signs.
15

16 **9-28.10 Vacant**

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

18
19 **9-28.10 Digital Printing**

20 Transparent and opaque durable inks used in digital printed sign messages shall be as
21 recommended by the manufacturer. When properly applied, digital printed colors shall
22 have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall
23 present a smooth surface, free from foreign material, and all messages and borders
24 shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective
25 minimum values established for its type and color. Digitally printed signs shall meet the
26 daytime color and luminance, and nighttime color requirements of ASTM D 4956. No
27 variations in color or overlapping of colors will be permitted. Digital printed permanent
28 traffic signs shall have an integrated engineered match component clear protective
29 overlay recommended by the sheeting manufacturer applied to the entire face of the
30 sign. On Temporary construction/maintenance signs printed with black ink only, the
31 protective overlay film is optional, as long as the finished sign has a warranty of a
32 minimum of three years from sign sheeting manufacturer.
33

34 All digital printed traffic control signs shall be an integrated engineered match
35 component system. The integrated engineered match component system shall consist
36 of retroreflective sheeting, durable ink(s), and clear overlay film all from the same
37 manufacturer applied to aluminum substrate conforming to Section 9-28.8.
38

39 The sign fabricator shall use an approved integrated engineered match component
40 system as listed on the Qualified Products List (QPL). Each approved digital printer
41 shall only use the compatible retroreflective sign sheeting manufacturer's engineered
42 match component system products.
43

44 Each retroreflective sign sheeting manufacturer/integrated engineered match
45 component system listed on the QPL shall certify a department approved sign fabricator
46 is approved to operate their compatible digital printer. The sign fabricator shall re-certify
47 annually with the retroreflective sign manufacturer to ensure their digital printer is still
48 meeting manufacturer's specifications for traffic control signs. Documentation of each
49 re-certification shall be submitted to the QPL Engineer annually.
50

1 **9-28.11 Hardware**
2 The last paragraph is revised to read:
3
4 All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and
5 related connecting hardware shall be galvanized in accordance with ASTM F 2329.
6
7 **9-28.14(2) Steel Structures and Posts**
8 The first sentence of the third paragraph is revised to read:
9
10 Anchor rods for sign bridge and cantilever sign structure foundations shall conform to
11 Section 9-06.5(4), including Supplemental Requirement S4 tested at -20°F.
12
13 In the second sentence of the fourth paragraph, "AASHTO M232" is revised to read "ASTM
14 F 2329".
15
16 The first sentence of the fifth paragraph is revised to read:
17
18 Except as otherwise noted, steel used for sign structures and posts shall have a
19 controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.
20
21 The last sentence of the last paragraph is revised to read:
22
23 If such modifications are contemplated, the Contractor shall submit a Type 2 Working
24 Drawing of the proposed modifications.
25
26 9-29.AP9
27 **Section 9-29, Illumination, Signal, Electrical**
28 **April 1, 2019**

29 **9-29.1 Conduit, Innerduct, and Outerduct**
30 This section is supplemented with the following new subsections:
31
32 **9-29.1(10) Pull Tape**
33 Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a
34 minimum width of ½-inch and a minimum tensile strength of 500 pounds. Pull tape may
35 have measurement marks.
36
37 **9-29.1(11) Foam Conduit Sealant**
38 Foam conduit sealant shall be self-expanding waterproof foam designed to prevent both
39 water and pest intrusion. The foam shall be designed for use in and around electrical
40 equipment, including both insulated and bare conductors.
41
42 **9-29.2(1) Junction Boxes**
43 The first paragraph is revised to read:
44
45 For the purposes of this Specification concrete is defined as portland cement or blended
46 hydraulic cement concrete and non-concrete is all others.
47
48 **9-29.2(1)A2 Non-Concrete Junction Boxes**
49 The first paragraph is revised to read:
50

1 Material for the non-concrete junction boxes shall be of a quality that will provide for a
2 similar life expectancy as portland cement or blended hydraulic cement concrete in a
3 direct burial application.
4

5 **9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes**

6 In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:
7

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

8

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

10 This second sentence is revised to read:
11

12 Insulation shall be XLP (cross-linked polyethylene) or EPR (Ethylene Propylene
13 Rubber), Type USE (Underground Service Entrance) or USE-2, and rated for 600-volts
14 or higher.
15

16 **9-29.6 Light and Signal Standards**

17 In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F
18 2329".
19

20 Item number 2 of the last paragraph is revised to read:
21

- 22 2. The steel light and signal standard fabricator's shop drawing submittal, including
23 supporting design calculations, submitted as a Type 2E Working Drawing in
24 accordance with Section 8-20.2(1) and the Special Provisions.
25

26 **9-29.6(1) Steel Light and Signal Standards**

27 In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
28

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

31 Steel used for light and signal standards shall have a controlled silicon content of either
32 0.00 to 0.06 percent or 0.15 to 0.25 percent.
33

34 **9-29.6(5) Foundation Hardware**

35 In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
36

37 **9-29.10(1) Conventional Roadway Luminaires**

38 This section is revised to read:
39

40 All conventional roadway luminaires shall meet 3G vibration requirements as described
41 in ANSI C136.31.
42

43 All luminaires shall have housings fabricated from aluminum. The housing shall be
44 painted flat gray, SAE AMS Standard 595 color chip No. 26280, unless otherwise
45 specified in the Contract. Painted housings shall withstand a 1,000 hour salt spray test
46 as specified in ASTM B117.
47

Each housing shall include a four bolt slip-fitter mount capable of accepting a nominal 2" tenon and adjustable within +/- 5 degrees of the axis of the tenon. The clamping bracket(s) and the cap screws shall not bottom out on the housing bosses when adjusted within the +/- 5 degree range. No part of the slipfitter mounting brackets on the luminaires shall develop a permanent set in excess of 0.2 inch when the cap screws used for mounting are tightened to a torque of 32 foot-pounds. Each luminaire shall include leveling reference points for both transverse and longitudinal adjustment.

All luminaires shall include shorting caps when shipped. The caps shall be removed and provided to the Contracting Agency when an alternate control device is required to be installed in the photocell socket. House side shields shall be included when required by the Contract. Order codes shall be modified to the minimum extent necessary to include the option for house side shields.

This section is supplemented with the following new subsections:

9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway Luminaires

HPS conventional roadway luminaires shall meet the following requirements:

1. General shape shall be "cobrahead" style, with flat glass lens and full cutoff optics.
2. Light pattern distribution shall be IES Type III.
3. The reflector of all luminaires shall be of a snap-in design or secured with screws. The reflector shall be polished aluminum or prismatic borosilicate glass.
4. Flat lenses shall be formed from heat resistant, high-impact, molded borosilicate or tempered glass.
5. The lens shall be mounted in a doorframe assembly, which shall be hinged to the luminaire and secured in the closed position to the luminaire by means of an automatic latch. The lens and doorframe assembly, when closed, shall exert pressure against a gasket seat. The lens shall not allow any light output above 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>.

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.

- 1 **9-29.12(3)B Molded Splice Enclosure**
2 Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The
3 material used shall be compatible with the insulation material of the insulated
4 conductor or cable. The component materials of the resin insulation shall be
5 packaged ready for convenient mixing without removing from the package.
6
- 7 **9-29.12(4) Re-Enterable Splice Enclosure**
8 Re-enterable splice enclosures shall use either dielectric grease or a flexible resin
9 contained in a two-piece plastic mold. The mold shall either snap together or use
10 stainless steel hose clamps.
11
- 12 **9-29.12(5) Vinyl Electrical Tape for Splices**
13 Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-
14 24391C.
15
- 16 **9-29.12(1) Illumination Circuit Splices**
17 This section is revised to read:
18
- 19 Underground illumination circuit splices shall be solderless crimped connections
20 capable of securely joining the wires, both mechanically and electrically, as defined in
21 Section 8-20.3(8). Aerial illumination splices shall be solderless crimp connectors or
22 split bolt vice-type connectors.
23
- 24 **9-29.12(1)A Heat Shrink Splice Enclosure**
25 This section is deleted in its entirety.
26
- 27 **9-29.12(1)B Molded Splice Enclosure**
28 This section is deleted in its entirety.
29
- 30 **9-29.12(2) Traffic Signal Splice Material**
31 This section is revised to read:
32
- 33 Induction loop splices and magnetometer splices shall use an uninsulated barrel-type
34 crimped connector capable of being soldered.
35
- 36 **9-29.13(10)D Cabinets for Type 170E and 2070 Controllers**
37 The first sentence of item number 4 is revised to read:
38
- 39 A disposable paper filter element with dimensions of 12" × 16" × 1" shall be provided in
40 lieu of a metal filter.
41
- 42 Item number 6 is revised to read:
43
- 44 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment
45 breaker on the Power Distribution Assembly. Each LED light strip shall be
46 approximately 12 inches long, have a minimum output of 320 lumens, and have a
47 color temperature of 4100K (cool white) or higher. There shall be three light strips
48 for each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted
49 lighting is not permitted. Light strips shall be installed in the locations shown in the
50 Standard Plans. Lighting shall not interfere with the proper operation of any other
51 ceiling mounted equipment. All lighting fixtures above a rack shall energize

1 automatically when either door to that respective rack is opened. Each door switch
2 shall be labeled "Light".
3

4 Item number 7 is revised to read:
5

- 6 7. Rack mounted equipment shall be as shown in the Standard Plans. The cabinet
7 shall use PDA #2LX and Output File #1LX. Where an Auxiliary Output File is
8 required, Output File #2LX shall also be included.
9

10 This section is supplemented with the following new item:
11

- 12 9. The PCB connectors for Field Terminal Blocks FT1 through FT6 on Output Files
13 #1LX and #2LX shall be capable of accepting minimum 14 AWG field wiring, have
14 a pitch of 5.08 mm, and use screw flange type locking to secure the plug and
15 socket connection. The sockets on the Field Terminal Panel shall be secured to the
16 panel such that unplugging a connector will not result in the socket moving or
17 separating from the panel.
18

19 **9-29.13(11) Traffic Data Accumulator and Ramp Meters**

20 Item number 2 is revised to read:
21

- 22 2. Rack mounted equipment shall be as shown in the Standard Plans.
23

24 Item number 3 is revised to read:
25

- 26 3. PDA #3LX shall be furnished with three Model 200 Load Switches installed. PDA
27 #3LX shall be modified to include a second Model 430 transfer relay, mounted on
28 the rear of the PDA and wired as shown in the Standard Plans.
29

30 **9-29.13(12) ITS Cabinet**

31 This section's title is revised to read:
32

33 **Type 331L ITS Cabinet**

34
35 The first paragraph (excluding the numbered list) is revised to read:
36

37 Basic ITS cabinets shall be Model 331L Cabinets, unless otherwise specified in the
38 Contract. Type 331L Cabinets shall be constructed in accordance with the TEES, with
39 the following modifications:
40

41 Item number 6 of the first paragraph is revised to read:
42

- 43 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment
44 breaker on the Power Distribution Assembly. Each LED light strip shall be
45 approximately 12 inches long, have a minimum output of 320 lumens, and have a
46 color temperature of 4100K (cool white) or higher. There shall be three light strips
47 for each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted
48 lighting is not permitted. Light strips shall be installed in the locations shown in the
49 Standard Plans. Lighting shall not interfere with the proper operation of any other
50 ceiling mounted equipment. All lighting fixtures above a rack shall energize
51 automatically when either door to that respective rack is opened. Each door switch
52 shall be labeled "Light".

1
2 **9-29.16(2)E Painting Signal Heads**

3 In the first sentence, "Federal Standard 595" is revised to read "SAE AMS Standard 595".
4

5 **9-29.17 Signal Head Mounting Brackets and Fittings**

6 In the first paragraph, item number 2 under **Stainless Steel** is revised to read:
7

- 8 2. Bands or cables for Type N mount.
9

10 **9-29.20 Pedestrian Signals**

11 In item 2C of the second paragraph, "Federal Standard 595" is revised to read "SAE AMS
12 Standard 595".
13

14 **9-29.24 Service Cabinets**

15 The third sentence of item number 6 is revised to read:
16

- 17 The dead front cover shall have cutouts for the entire breaker array, with blank covers
18 where no circuit breakers are installed.
19

20 Item number 8 is revised to read:
21

- 22 8. Lighting contactors shall meet the requirements of Section 9-29.24(2).
23

24 The last sentence of item number 10 is revised to read:
25

- 26 Dead front panels shall prevent access to any exposed, live components, and shall
27 cover all equipment except for circuit breakers (including blank covers), the photocell
28 test/bypass switch, and the GFCI receptacle.
29

30 **9-29.24(2) Electrical Circuit Breakers and Contactors**

31 This section is revised to read:
32

- 33 All circuit breakers shall be bolt-on type, with the RMS-symmetrical interrupting capacity
34 described in this Section. Circuit breakers for 120/240/277 volt circuits shall be rated at
35 240 or 277 volts, as applicable, with an interrupting capacity of not less than 10,000
36 amperes. Circuit breakers for 480 volt circuits shall be rated at 480 volts, and shall have
37 an interrupting capacity of not less than 14,000 amperes.
38

- 39 Lighting contactors shall be rated for tungsten or ballasted (such as sodium vapor,
40 mercury vapor, metal halide, and fluorescent) lamp loads. Contactors for 120/240/277
41 volt circuits shall be rated at 240 volts maximum line to line voltage, or 277 volts
42 maximum line to neutral voltage, as applicable. Contactors for 480 volt circuits shall be
43 rated at 480 volt maximum line to line voltage.
44

45 9-33.AP9

46 **Section 9-33, Construction Geosynthetic**
47 **August 6, 2018**

48 **9-33.4(1) Geosynthetic Material Approval**

49 The second sentence of the first paragraph is revised to read:
50

1 If the geosynthetics material is not listed in the current WSDOT QPL, a Manufacturer's
2 Certificate of Compliance including Certified Test Reports of each proposed
3 geosynthetic shall be submitted to the State Materials Laboratory in Tumwater for
4 evaluation.
5

6 The last paragraph is revised to read:
7

8 Geosynthetics used as reinforcement in permanent geosynthetic retaining walls,
9 reinforced slopes, reinforced embankments, and other geosynthetic reinforcement
10 applications require proof of compliance with the National Transportation Product
11 Evaluation Program (NTPEP) in accordance with AASHTO Standard Practice R 69,
12 Standard Practice for Determination of Long-Term Strength for Geosynthetic
13 Reinforcement.
14

15 9-34.AP9

16 **Section 9-34, Pavement Marking Material**
17 **January 7, 2019**

18 **9-34.2(2) Color**

19 The first sentence is revised to read:
20

21 Paint draw-downs shall be prepared according to ASTM D823.
22

23 Each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".
24

25 **9-34.2(3) Prohibited Materials**

26 This section is revised to read:
27

28 Traffic paint shall not contain mercury, lead, chromium, diarylide pigments, toluene,
29 chlorinated solvents, hydrolysable chlorine derivatives, ethylene-based glycol ethers
30 and their acetates, nor any other EPA hazardous waste material over the regulatory
31 levels in accordance with CFR 40 Part 261.24.
32

33 **9-34.2(5) Low VOC Waterborne Paint**

34 The heading "Standard Waterborne Paint" is supplemented with "Type 1 and 2".
35

36 The heading "High-Build Waterborne Paint" is supplemented with "Type 4".
37

38 The heading "Cold Weather Waterborne Paint" is supplemented with "Type 5".
39

40 In the row beginning with "° @90°F", each minimum value is revised to read "60".
41

42 In the row beginning with "Fineness of Grind, (Hegman Scale)", each minimum value is
43 revised to read "3".
44

45 The last four rows are replaced with the following:
46

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	@ 5 cycles show no coagulation or change in viscosity greater	@ 3 cycles show no coagulation or change in viscosity greater

		than ± 10 KU	than ± 10 KU	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	$\geq 70\%$ paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

1
2 After the preceding Amendments are applied, the following new column is inserted after the
3 "Standard Waterborne Paint Type 1 and 2" column:
4

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			
$\geq 70\%$ paint retention in wheel track			
No Cracks			

5
6 The footnotes are supplemented with the following:
7

8 ⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F
9 Section 3.1.1.

10
11 ⁵Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness
12 of 15 mils and allowed to dry under ambient conditions (50 \pm 10% RH and 72 \pm 5 °F) for 24
13 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B) shall
14 be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the
15 aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel
16 apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and
17 immediately tested to according to ASTM D522 to evaluate cold flexibility. Paint must
18 show no evidence of cracking, chipping or flaking when bent 180 degrees over a
19 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.

9-34.5(2) Temporary Pavement Marking Tape – Long Duration

This section's title is revised to read:

Temporary Pavement Marking Tape – Long Duration (Non-Removable)

The first sentence is revised to read:

Temporary pavement marking tape for long duration (usage is for greater than two months and less than one year) shall conform to ASTM D4592 Type II.

ASTM E2176 is deleted from the second sentence.

9-34.7(1) Requirements

The first paragraph is revised to read:

Field performance evaluation is required for low VOC solvent-based paint per Section 9-34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B – preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed

- 1 tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section
2 9-34.3(4).
3
4 The last paragraph is deleted.
5
6 **9-34.7(1)C Auto No-Track Time**
7 The first paragraph is revised to read:
8
9 Auto No-Track Time will only be required for low VOC solvent-based paint in
10 accordance with Section 9-34.2(4).
11
12 The second and third sentences of the second paragraph are deleted.

SPECIAL PROVISIONS

FRANKLIN COUNTY SPECIAL PROVISION

REQUIRED FEDERAL-AID CONTRACT PROVISIONS

INTRODUCTION TO THE SPECIAL PROVISIONS

(August 14, 2013 APWA GSP)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2018 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter “Standard Specifications”). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The project-specific Special Provisions are not labeled as such. The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

(March 8, 2013 APWA GSP)
(April 1, 2013 WSDOT GSP)
*(*****) Project Specific Special Provision*

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA, current edition

Contractor shall obtain copies of these publications, at Contractor's own expense.

DIVISION 1 GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

*This Contract provides for the improvement of *** **Franklin County's Safety - Rumble Strip Project by constructing centerline/shoulder rumble strips, pavement marking, temporary traffic control** *** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.*

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”.

All references to “final contract voucher certification” shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

Additive

A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

Alternate

One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Business Day

A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

Contract Bond

The definition in the Standard Specifications for “Contract Bond” applies to whatever bond form(s) are required by the Contract Documents, which may be a combination of a Payment Bond and a Performance Bond.

Contract Documents

See definition for “Contract”.

Contract Time

The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

Notice of Award

The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency’s acceptance of the Bid Proposal.

Notice to Proceed

The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.

Traffic

Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

1-02 BID PROCEDURES AND CONDITIONS**1-02.1 Prequalification of Bidders**

Delete this section and replace it with the following:

1-02.1 Qualifications of Bidder

(January 24, 2011 APWA GSP)

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.

1-02.2 Plans and Specifications

(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed can be found in the Call for Bids (Advertisement for Bids) for the work.

After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	2	Furnished automatically upon award.
Contract Provisions	2	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

1-02.4(1) General
(August 15, 2016 APWA GSP Option A)

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

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, must request the explanation or interpretation in writing soon enough to allow a written reply to reach all prospective Bidders before the submission of their Bids.

1-02.5 Proposal Forms
(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal
(July 11, 2018 APWA GSP)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last two paragraphs, and replace them with the following:

If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any Subcontractor to perform those items of work.

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

(August 2, 2004 WSDOT GSP)

The fifth and sixth paragraphs of Section 1-02.6 are deleted.

1-02.7 Bid Deposit

(March 8, 2013 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;
5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;
6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder must use the bond form included in the Contract Provisions.

If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

1-02.10 Withdrawing, Revising, or Supplementing Proposal

(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

1-02.13 Irregular Proposals (June 20, 2017 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
 - k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - l. More than one Proposal is submitted for the same project from a Bidder under the same or different names.

2. A Proposal may be considered irregular and may be rejected if:
 - a. The Proposal does not include a unit price for every Bid item;
 - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - c. Receipt of Addenda is not acknowledged;
 - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
 - e. If Proposal form entries are not made in ink.

1-02.14 Disqualification of Bidders

(May 17, 2018 APWA GSP, Option A)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the Contracting Agency reserves the right to request documentation as needed from the Bidder and third parties concerning the Bidder's compliance with the mandatory bidder responsibility criteria.

If the Contracting Agency determines the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination

1-02.15 Pre Award Information

(August 14, 2013 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,

6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

1-03 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 10 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 10 the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of 7 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

(July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. The bond may be a combined payment and performance bond; or be separate payment and performance bonds. In the case of separate payment and performance bonds, each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
 - a. Is registered with the Washington State Insurance Commissioner, and
 - b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
 - a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
 - b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

1-03.7 Judicial Review

(November 30, 2018 APWA GSP)

Revise this section to read:

Any decision made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the

county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction.

1-04 SCOPE OF WORK

1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda

(March 13, 2012 APWA GSP)

Revise the second paragraph to read:

Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

1. Addenda,
2. Proposal Form,
3. Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency's Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-05 CONTROL OF WORK

1-05.7 Removal of Defective and Unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due,

or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing (October 1, 2005 APWA GSP)

1-05.11(1) Substantial Completion Date

When the Contractor considers the work to be substantially complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of work that remain to be completed in order to reach physical completion. The Engineer will schedule an inspection of the work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.

1-05.11(2) Final Inspection and Physical Completion Date

When the Contractor considers the work physically complete and ready for final inspection, the Contractor by written notice, shall request the Engineer to schedule a final inspection. The Engineer will set a date for final inspection. The Engineer and the Contractor will then make a final inspection and the Engineer will notify the Contractor in writing of all particulars in which the final inspection reveals the work incomplete or unacceptable. The Contractor shall immediately take such corrective measures as are necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption until physical completion of the listed deficiencies. This process will continue until the Engineer is satisfied the listed deficiencies have been corrected.

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7.

The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

1-05.13 Superintendents, Labor and Equipment of Contractor
(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices
(March 25, 2009 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

1-06 CONTROL OF MATERIAL

Supplement this section with the following:

Buy America

(August 6, 2012 WSDOT GSP)

In accordance with Buy America requirements contained in 23 CFR 635.410, the major quantities of steel and iron construction material that is permanently incorporated into the project shall consist of American-made materials only. Buy America does not apply to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and falsework.

Minor amounts of foreign steel and iron may be utilized in this project provided the cost of the foreign material used does not exceed one-tenth of one percent of the total contract cost or \$2,500.00, whichever is greater.

American-made material is defined as material having all manufacturing processes occurring domestically. To further define the coverage, a domestic product is a manufactured steel

material that was produced in one of the 50 States, the District of Columbia, Puerto Rico, or in the territories and possessions of the United States.

If domestically produced steel billets or iron ingots are exported outside of the area of coverage, as defined above, for any manufacturing process then the resulting product does not conform to the Buy America requirements. Additionally, products manufactured domestically from foreign source steel billets or iron ingots do not conform to the Buy America requirements because the initial melting and mixing of alloys to create the material occurred in a foreign country.

Manufacturing begins with the initial melting and mixing, and continues through the coating stage. Any process which modifies the chemical content, the physical size or shape, or the final finish is considered a manufacturing process. The processes include rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action of applying a coating to steel or iron is deemed a manufacturing process. Coating includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that protects or enhances the value of steel or iron. Any process from the original reduction from ore to the finished product constitutes a manufacturing process for iron.

Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

The following are considered to be steel manufacturing processes:

1. Production of steel by any of the following processes:
 - a. Open hearth furnace.
 - b. Basic oxygen.
 - c. Electric furnace.
 - d. Direct reduction.
2. Rolling, heat treating, and any other similar processing.
3. Fabrication of the products.
 - a. Spinning wire into cable or strand.
 - b. Corrugating and rolling into culverts.
 - c. Shop fabrication.

A certification of materials origin will be required for any items comprised of, or containing, steel or iron construction materials prior to such items being incorporated into the permanent work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or such

other form the Contractor chooses, provided it contains the same information as DOT Form 350-109EF.

1-06.6 Recycled Materials

(January 4, 2016 APWA GSP)

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the project site, including safety for all persons and property in the performance of the work. This requirement shall apply continuously, and not be limited to normal working hours. The required or implied duty of the Engineer to conduct construction review of the Contractor's performance does

not, and shall not, be intended to include review and adequacy of the Contractor's safety measures in, on, or near the project site.

1-07.2 State Taxes

Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Sales Tax

(June 27, 2011 APWA GSP)

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2) describes this exception.

The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-funded Project) only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

1-07.2(2) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits

or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

1-07.2(3) Services

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

1-07.7 Load Limits

This section is supplemented with the following:

(March 13, 1995 WSDOT GSP)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.9 Wages

1-07.9(1) General

This section is supplemented with the following:

(January 9, 2019 WSDOT GSP)

The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA190001.

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

1-07.11 Requirements for Nondiscrimination

(April 3, 2018 WSDOT GSP)

Disadvantaged Business Enterprise Participation

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

DBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract, or, persons/companies who arrange or expedite transactions.

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

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

Commercially Useful Function (CUF)

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

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

Disadvantaged Business Enterprise (DBE) – A business firm certified by the

Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification. A Underutilized Disadvantaged Business Enterprise (UDBE) firm is a subset of DBE.

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

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

Regular Dealer (DBE) – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

DBE Goals

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

Affirmative Efforts to Solicit DBE Participation

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

Contractors are encouraged to:

1. Advertise opportunities for Subcontractors or suppliers in a timely and reasonably designed manner to provide notice of the opportunity to DBEs capable of performing the Work. All advertisements should include a Contract Provision encouraging participation by DBE firms. This may be accomplished through general advertisements (e.g. newspapers,

journals, etc.) or by soliciting Bids/Proposals directly from DBEs.

2. Establish delivery schedules that encourage participation by DBEs and other small businesses.
3. Participate with a DBE as a joint venture.

DBE Eligibility/Selection of DBEs for Reporting Purposes Only

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

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

Crediting DBE Participation

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

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

DBE participation is only credited upon payment to the DBE.

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

DBE Prime Contractor

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

DBE Subcontractor

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

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

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

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

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

DBE Subcontract and Lower Tier Subcontract Documents

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

DBE Service Provider

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

Temporary Traffic Control

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

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

Trucking

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

materials in order to determine DBE credit for hauling.

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

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

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

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

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

DBE Manufacturer and DBE Regular Dealer

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

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

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

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for

similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

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

Procedures Between Award and Execution

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

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

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

Procedures After Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward UDBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the Contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

Joint Checking

A joint check is a check between a Subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the Subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material and installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier is not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt Payment requirements apply to progress payments as well as return of retainage.

Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this Contract.

Decertification

When a DBE is “decertified” from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance

Each contract with a Contractor (and each subcontract the Contractor signs with a Subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract.

The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the Contractor from future bidding as non-responsible.

Payment

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

This section is supplemented with the following:

(April 2, 2018 WSDOT GSP)

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

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

Women - Statewide

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%
<u>Minorities - by Standard Metropolitan Statistical Area (SMSA)</u>	
Spokane, WA:	
SMSA Counties:	
Spokane, WA	2.8
WA Spokane.	
Non-SMSA Counties	3.0
WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.	
Richland, WA	
SMSA Counties:	
Richland Kennewick, WA	5.4
WA Benton; WA Franklin.	
Non-SMSA Counties	3.6
WA Walla Walla.	
Yakima, WA:	
SMSA Counties:	
Yakima, WA	9.7
WA Yakima.	
Non-SMSA Counties	7.2
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	

Seattle, WA:

SMSA Counties:

Seattle Everett, WA 7.2
WA King; WA Snohomish.

Tacoma, WA 6.2
WA Pierce.

Non-SMSA Counties 6.1

WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA
Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston;
WA Whatcom.

Portland, OR:

SMSA Counties:

Portland, OR-WA 4.5
WA Clark.

Non-SMSA Counties 3.8

WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

These goals are applicable to each nonexempt Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, or federally assisted project, contract, or subcontract until further notice. Compliance with these goals and time tables is enforced by the Office of Federal Contract compliance Programs.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, in each construction craft and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

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

U.S. Department of Labor
Office of Federal Contract Compliance Programs Pacific Region
Attn: Regional Director
San Francisco Federal Building

90 – 7th Street, Suite 18-300
San Francisco, CA 94103(415) 625-7800 Phone
(415) 625-7799 Fax

Additional information may be found at the U.S. Department of Labor website:
<http://www.dol.gov/ofccp/regs/compliance/preaward/cnstnote.htm>

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

Standard Federal Equal Employment Opportunity Construction Contract Specifications
(Executive Order 11246)

1. As used in these specifications:
 - a. Covered Area means the geographical area described in the solicitation from which this contract resulted;
 - b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;
 - d. Minority includes:
 - (1) Black, a person having origins in any of the Black Racial Groups of Africa.
 - (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.
 - (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.
 - (4) American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its action. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working

environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification

number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

Washington State Dept. of Transportation
Office of Equal Opportunity
PO Box 47314
310 Maple Park Ave. SE
Olympia WA
98504-7314
Ph: 360-705-7090
Fax: 360-705-6801
<http://www.wsdot.wa.gov/equalopportunity/default.htm>

(June 1, 2017 WSDOT GSP)

Small Business Enterprise Participation

The Small Business Enterprise (SBE) Program is an element of the Disadvantaged Business Enterprise (DBE) Program in accordance with the requirements of 49 CFR Part 26.39. As such, the requirements of this contract establish affirmative efforts to utilize SBE certified firms on construction projects. No preference will be included in the evaluation of Bids/Proposals. No minimum level of SBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

Voluntary SBE Goals

A voluntary goal amount of ten percent of the Contract bid amount is established.

The goal is voluntary, but achievement of the goal is encouraged. No preference will be included in the evaluation of bids/proposals. Bidders may contact the Washington State Office of Minority and Women's Business Enterprises (OMWBE) at 360-664-9750 or visit www.omwbe.wa.gov to obtain information on certified SBE firms.

Required SBE Participation Plan

The Contractor shall submit a SBE Participation Plan prior to commencing contract work. Although the goal is voluntary, the outreach efforts to provide SBE maximum practicable opportunities are not.

For SBE Participation Plan Drafting Guidelines, please visit:

www.wsdot.wa.gov/equalopportunity.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

Required SBE Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

Definitions

Regardless of race or gender, a SBE is one certified by OMWBE as such, where the firm's:

- Three year averaged gross receipts are less than \$22.41 million dollars, with smaller industry standards applicable
- Is at least 51% owned and controlled by an individual or individuals with a personal net worth less than \$1.32 million dollars
- A Micro Small Business Enterprise is a firm certified as an SBE with average gross receipts for three years less than one million dollars

1-07.12 Federal Agency Inspection

This section is supplemented with the following:

(January 25, 2016 WSDOT GSP)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised May 1, 2012 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each Subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each Subcontract requiring the Subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier Subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is

inserted in each Subcontract for Subcontractors and lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

1-07.13 Contractor's Responsibility for Work

1-07.13(4) Repair of Damage

This section is section is revised to read:

(August 6, 2001 WSDOT GSP)

The Contractor shall promptly repair all damage to either temporary or permanent work as directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment will be limited to repair of damaged work only. No payment will be made for delay or disruption of work.

1-07.17 Utilities and Similar Facilities

This section is supplemented with the following:

(April 2, 2007 WSDOT GSP)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

*CenturyLink
Tobias Mears
(509) 305-75035*

*Franklin County PUD
Norm Rummel
Pasco, WA 99301
(509) 547-5965*

*Franklin County PUD
Fiber Optics
Brent Weatherman
Pasco, WA 99301
(509) 547-5366*

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.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers
-

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor

are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

1-07.18(3) Subcontractors

The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by Subcontractors.

The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency evidence of insurance and copies of the additional insured endorsements of each Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

1-07.18(4) Verification of Coverage

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full and certified copy of that policy is required when the Contractor delivers the signed Contract for the work.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Contractor's maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offence
\$1,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

\$1,000,000	Combined single limit each accident
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1-07.18(5)C Workers' Compensation

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

1-07.23 Public Convenience and Safety

1-07.23(1) Construction Under Traffic

This section is supplemented with the following:

(January 2, 2012 WSDOT GSP)

Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10 *
40 mph	15
45 to 55 mph	20
60 mph or greater	30

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following new section:

1-08.0(2) Hours of Work
(December 8, 2014 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

All working hours and days are also subject to local permit and ordinance conditions (such as noise ordinances).

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than **3** prior to the day(s) the Contractor is requesting to change the hours.

If the Contracting Agency approves such a deviation, such approval may be subject to certain other conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

1-08.1 Subcontracting

This section is supplemented with the following:

(June 3, 2019 WSDOT GSP)

Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision **Federal Agency Inspection**.

A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (Form 421-012), and
2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004).

The Contractor shall submit a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every Subcontractor and lower tier Subcontractor's retainage has been release. This form shall be submitted to the Engineer by email to the following email address for the region administering the Contract:

Eastern Region – ERRegionOEO@wsdot.wa.gov
North Central Region – NCRegionOEO@wsdot.wa.gov

Northwest Region – NWRegionOEO@wsdot.wa.gov
Olympic Region – ORegionOEO@wsdot.wa.gov
South Central Region – SCRegionOEO@wsdot.wa.gov
Southwest Region – SWRegionOEO@wsdot.wa.gov
Washington State Ferries – FerriesOEO@wsdot.wa.gov

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all Subcontractors and lower tier Subcontractors shall be available and open to similar inspection or audit for the same time period.

1-08.1 Subcontracting

(May 30, 2019 APWA GSP, Option A)

Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection.

A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (WSDOT Form 421-012), and
2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (WSDOT Form 420-004).

The ninth paragraph, beginning with “On all projects, ...” is revised to read:

The Contractor shall certify to the actual amount received from the Contracting Agency and amounts paid to all firms that were used as Subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service providers on the Contract. This includes all Disadvantaged, Minority, Small, Veteran or Women’s Business Enterprise firms. This Certification shall be submitted to the Engineer on a monthly basis each month between Execution of the Contract and Physical Completion of the Contract using the application available at: <https://wsdot.diversitycompliance.com>. A monthly report shall be submitted for every month between Execution of the Contract and Physical Completion regardless of whether payments were made or work occurred.

1-08.4 Prosecution of Work

Delete this section and replace it with the following:

1-08.4 Notice to Proceed and Prosecution of Work

(July 23, 2015 APWA GSP)

Notice to Proceed will be given after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the work until the Notice to Proceed has been given by

the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time(s) specified in the contract.

When shown in the Plans, the first order of work shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.

1-08.5 Time for Completion

This section is supplemented with the following:

(March 13, 1995 WSDOT GSP)

This project shall be physically completed within *** 15 *** working days.

Revise the third and fourth paragraphs to read:

(November 30, 2018 APWA GSP, Option A)

Contract time shall begin on the first working day following the Notice to Proceed Date.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the

Contractor. The following events must occur before the Completion Date can be established:

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
 - a. Certified Payrolls (per Section 1-07.9(5)).
 - b. Material Acceptance Certification Documents
 - c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
 - d. Final Contract Voucher Certification
 - e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
 - f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This requirement will not apply if the Construction Stormwater General Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).
 - g. Property owner releases per Section 1-07.24

1-08.9 Liquidated Damages (August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

1-09 – MEASUREMENT AND PAYMENT

1-09.9 Payments

(March 13, 2012 APWA GSP)

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than \$20,000.

1-09.9(1) Retainage

This section content and title is deleted and replaced with the following:

(June 27, 2011 WSDOT GSP)

Vacant

1-09.11(3) Time Limitation and Jurisdiction

(November 30, 2018 APWA GSP)

Revise this section to read:

For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-09.13(3) Claims \$250,000 or Less

(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

1-09.13(3)A Administration of Arbitration

(November 30, 2018 APWA GSP)

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

1-10 Temporary Traffic Control

1-10.2(1) Traffic Control Management

This section is supplemented with the following:

(January 3, 2017 WSDOT GSP)

Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701

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

This section 1-10.4(2) is supplemented with the following:

(August 2, 2004 WSDOT GSP)

The bid proposal does not contain the item "Project Temporary Traffic Control", lump sum. The provisions of Section 1-10.4(2) shall apply.

DIVISION 2 EARTHWORK

2-07 WATERING

2-07.3 Construction Requirements

Air Quality

(*****)

This section is supplemented with the following:

Dust Control

The Contractor shall maintain proper dust control in accordance with the requirements of the governing clean air authority of Franklin County. The Contractor shall pay all associated costs for the water on the project. The Contractor shall have one person at the job site during construction hours who is responsible for dust control. In addition, one person shall be available during non-working hours and shall have equipment and manpower available to control dust. Failure to control dust in accordance with requirements shall be cause for immediate shutdown of all operations except dust control.

DIVISION 8 MISCELLANEOUS CONSTRUCTION

8-22 PAVEMENT MARKING

8-22.3 Construction Requirements

8-22.3(1) Preliminary Spotting

(*****)

This section is supplemented with the following:

Referencing Existing Pavement Markings/Lines

The Contractor shall be responsible for referencing and documenting all existing pavement markings. The Contractor's referencing plans shall indicate reference posts and offsets taken at consistent intervals sufficient to restore all pavement markings to original configuration within two inches. The Contractor shall demonstrate to the Engineer that the referencing has been accomplished prior to performing any Work which will remove or cover the existing markings.

The Contractor shall also be responsible for laying out all temporary and permanent pavement markings to the pre-existing locations.

8-22.5 Payment

(*****)

This section is supplemented with the following:

All cost associated with the referencing existing pavement markings/lines as specified, shall be included in the unit Contract prices for the associated items of work

(April 1, 2019)
Standard Plans

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 16-048, effective August 6, 2018 is made a part of this contract.

The Standard Plans are revised as follows:

A-40.10

Section View, PCCP to HMA Longitudinal Joint, callout, was – “Sawed Groove ~ Width 3/16” (IN) MIN. to 5/16” (IN) MAX. ~ Depth 1” (IN) MIN. ~ see Std. Spec. 5-04.3(12)B” is revised to read; “Sawed Groove ~ Width 3/16” (IN) MIN. to 5/16” (IN) MAX. ~ Depth 1” (IN) MIN. ~ see Std. Spec. Section 5-04.3(12)A2”

Section View, Transverse Contraction Joint, dimension, was – “D/4” is revised to read: “D/3 to D/4”

A-50.10

Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20

Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30

Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.1

B-10.60

DELETED

B-82.20

DELETED

B-90.40

Valve Detail - DELETED

C-1b

STEEL POST Detail on page 2: The upper callout is changed from “3/4” (IN) DIAM. HOLE (TYP.)” to “3/4” (IN) OR 13/16” (IN) DIAM. HOLE (TYP.)”

C-2C

CASE 9A (typical of 2 callouts): The dimensions were “3'-0” MIN. ~ TO FACE OF GUARDRAIL”. are now revised to read “5'-0” MIN ~ TO FACE OF GUARDRAIL”.

C-4b
DELETED

C-4e
DELETED

C-4f

Sheet 1, BULLNOSE GRADING PLAN: Slopes shall be not steeper than 10H:1V for the bullnose guardrail system including slopes into the guardrail face to 1 foot behind the guardrail post.

Sheet 2, POST 1R & 1L, 2R & 2L, 3R TO 8R and 3L TO 8L, 9R TO 12 R and 9L TO 12L elevation view details: Slopes into the guardrail face to 1 foot behind the guardrail post shall not be steeper than 10H:1V.

Sheet 3, SECTION B, callout – was: “THE NUT SHALL BE ASTM A563D STEEL, AND GALVANIZED ACCORDING TO STANDARD SPEC. 9-16.3(3).” Is revised to read: “THE NUT SHALL BE ASTM A307 STEEL, AND GALVANIZED ACCORDING TO STANDARD SPEC. 9-16.3(3).”

C-20.10

STEEL POST Detail: The upper callout is changed from “1/4” (IN) DIAM. HOLE FOR ANTI-ROTATION 16d NAIL (TYP.)” to “1/4” (IN) OR 13/16” (IN) DIAM. HOLE FOR ANTI-ROTATION 16d NAIL (TYP.)”

The lower callout is changed from “3/4” (IN) DIAM. HOLE FOR BUTTON HEAD BOLT (TYP.)” to “3/4” (IN) OR 13/16” (IN) DIAM. HOLE FOR BUTTON HEAD BOLT (TYP.)”

C-20.14

CASE 3-31: The dimension was “5’-0” MIN” from the back of guardrail to the center of railroad signal support is now revised to “5’-0” MIN” from face of guardrail to the front edge of the railroad signal support.

Note 3, was – “The slope from the edge of the shoulder into the face of the guardrail cannot exceed 10H : 1V when the face of the guardrail is less than 12’ – 0” from the edge of the shoulder.” is revised to read: “The slope from the edge of the shoulder into the face of the guardrail cannot be steeper than 10H : 1V when the face of the guardrail is less than 12’ – 0” from the edge of the shoulder. The slope from the edge of the shoulder into the face of the guardrail cannot be steeper than 6H : 1V when the guardrail is 12’ – 0” or more from the edge of the shoulder.”

C-20.18

ALL CASES: The dimensions were “3’-0” MIN” from the face of guardrail to the front edge of the fixed feature are now revised to “5’-0” MIN” from the face of guardrail to the front edge of the fixed feature.

Note 1, was – “The slope from the edge of the shoulder into the face of the guardrail should not exceed 10H : 1V when the guardrail is within 12’ – 0” from the edge of the shoulder.” Is revised to read: “The slope from the edge of the shoulder into the face of the guardrail should not be steeper than 10H : 1V when the guardrail is less than 12’ – 0” from the edge of the

shoulder. The slope from the edge of the shoulder into the face of the guardrail should not be steeper than 6H : 1V when the guardrail is 12' – 0" or more from the edge of shoulder."

C-20.41

BOX CULVERT POST, ELEVATION VIEW Detail: The upper callout is changed from "3/4" (IN) DIAM. HOLE" to "3/4" (IN) OR 13/16" (IN) DIAM. HOLE"

C-20.45

STEEL POST Detail: The upper callout is changed from "1/4" (IN) DIAM. HOLE FOR ANTI-ROTATION 16d NAIL (TYP.)" to "1/4" (IN) OR 13/16" (IN) DIAM. HOLE FOR ANTI-ROTATION 16d NAIL (TYP.)"

The lower callout is changed from "3/4" (IN) DIAM. HOLE FOR BUTTON HEAD BOLT (TYP.) ~ SEE DETAIL AT RIGHT" to "3/4" (IN) OR 13/16" (IN) DIAM. HOLE FOR BUTTON HEAD BOLT (TYP.) ~ SEE DETAIL AT RIGHT"

C-22.14

DELETED

C-22.16

Note 3, formula, was: "Elevation G = (Elevation S – D x (0.1) + 31" is revised to read: "Elevation G = (Elevation S – D x (0.1) + 31/12"

C-22.40

PLAN VIEW, MSKT-SP-MGS (TL-3) SHOWN: The dimension was "4'-0" MIN" from the face of the terminal to the edge of the widened embankment is now revised to "4'-0" MIN" from the back of the terminal post to the edge of the widened embankment.

Elevation View, MSKT-SP-MGS (TL-3), dimension, MSKT-SP-MGS (TL-3) SYSTEM LENGTH = 50' – 0" , dimension is revised to read: 46' – 10 1/2"

Elevation View, SOFTSTOP (TL-3), dimension, SOFTSTOP (TL-3) SYSTEM LENGTH = 50' – 9 1/2", dimension is revised to read: 50' – 10 1/2"

Note 6, was – "...a maximum taper of 25.4 : 1 or flatter is allowed over the system length of 50' – 9 1/2" with a maximum..." is revised to read: "...a maximum taper of 25.44 : 1 or flatter is allowed over the system length of 50' – 10 1/2" with a maximum..."

C-22.45

PLAN VIEW, MSKT-SP-MGS (TL-2) SHOWN: The dimension was "4'-0" MIN" from the face of the terminal to the edge of the widened embankment is now revised to "4'-0" MIN" from the back of the terminal post to the edge of the widened embankment.

Elevation View, MSKT-SP-MGS (TL-2), dimension, MSKT-SP-MGS (TL-2) SYSTEM LENGTH = 25' – 0", dimension is revised to read 34' – 4 1/2"

Elevation View, SOFTSTOP (TL-2), dimension, SOFTSTOP (TL-2) SYSTEM LENGTH = 38' – 3 1/2", dimension is revised to read 38' – 4 1/2"

Note 6, was – “...flare of 38.29 : 1 or flatter is allowed over the system length of 38’ – 3 ½” with a maximum...” is revised to read: “...flare of 38.38 : 1 or flatter is allowed over the system length of 38’ – 4 ½” with a maximum...”

C-25.26

Elevation View, TYPE 23: The guardrail height dimension was 2'-8" from the top of the thrie beam to the top of the bridge curb is now revised to 2'-8" from the top of the thrie beam to the top of the ground line.

C-25.80

Plan View, callout, was – “12” (IN) BLOCKOUT” is revised to read; “12” (IN) or 8” (IN) BLOCKOUT (12” (IN) SHOWN)”

Elevation View, add labels to posts (below view); beginning at left side of view – Label Posts as follows; POST 1, POST 2 through POST 6”.

General Notes, add Note 6. Note reads as follows; “6. Post 1 shall use an 8 inch blockout, and posts 2 through post 6 shall use 12 inch or 8 inch blockouts.”

C-40.14

DELETED

C-90.10

DELETED

D-10.10

Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.15

Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.20

Wall Type 3 may be used in all cases. The last sentence of Note 6 on Wall Type 3 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.25

Wall Type 4 may be used in all cases. The last sentence of Note 6 on Wall Type 4 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.30

Wall Type 5 may be used in all cases.

D-10.35

Wall Type 6 may be used in all cases.

D-10.40

Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.45

Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge Design memorandum.

D-15.10

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.20

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.30

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.12

Section Title, was – "Depressed Curb Section" is revised to read: "Depressed Curb and Gutter Section"

F-10.40

"EXTRUDED CURB AT CUT SLOPE", Section detail - Deleted

F-10.42

DELETE – "Extruded Curb at Cut Slope" View

H-70.20

Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10

I-30.30

8" Diameter Wattle Spacing Table, lower left corner, was – "Slope:1H : 1V, Maximum Spacing:10' – 0'" is revised to read: "Slope:1H : 1V, Maximum Spacing:8' – 0'".

J-10.21

Note 18, was – “When service cabinet is installed within right of way fence, see Standard Plan J-10.22 for details.” Is revised to read; “When service cabinet is installed within right of way fence, or the meter base is mounted on the exterior of the cabinet, see Standard Plan J-10.22 for details.”

J-10.22

Key Note 1, was – “Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305.” Is revised to read; “Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305. When the utility requires meter base to be mounted on the side or back of the service cabinet, the meter base enclosure shall be fabricated from type 304 stainless steel.”

Key Note 4, “Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt “T” rated). Is revised to read: “Test Switch (SPDT snap action, positive close 15 amp – 120/277 volt “T” rated).”

Key Note 14, was – “Hinged dead front with ¼ turn fasteners or slide latch.” Is revised to read; “Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts shall not extend into the vertical limits of the breaker array(s).”

Key Note 15, was – “Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper. See Cabinet Main bonding Jumper detail, Standard Plan J-3b.” is revised to read; “Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details.”

Note 1, was – “...socket box mounting detail, see Standard Plan J-3b.” is revised to read to read: “...socket box mounting detail, see Standard Plan J-10.20.”

Note 6, was – “...See door hinge detail, Standard Plan J-3b.” is revised to read: “...See door hinge detail, Standard Plan J-10.20.”

J-20.10

Add Note 5, “5. One accessible pedestrian signal assembly per pedestrian pushbutton post.”

J-20.11

Sheet 2, Foundation Detail, Elevation, callout – “Type 1 Signal Pole” is revised to read: “Type PS or Type 1 Signal Pole”

Sheet 2, Foundation Detail, Elevation, add note below Title, “(Type 1 Signal Pole Shown)”

Add Note 6, “6. One accessible pedestrian signal assembly per pedestrian pushbutton post.”

J-20.26

Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton post.”

J-20.16

View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY” IS REVISED TO READ: “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY”

Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see Note 1)"

Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 ½" DIAM., is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-21.16

Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15

Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"

(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½" DIAM. is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-40.10

Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S. FLAT WASHER" is revised to read; "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 1/2" (IN) S. S. FLAT WASHER"

J-60.14

All references to J-16b (6x) are revised to read; J-60.11

K-80.30

In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

Plan Title, was "ALTERNATIVE TEMPORARY CONC. BARRIER (F-SHAPE)" is revised to read: "CONCRETE BARRIER TYPE F"

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00.....8/7/07	A-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	
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		
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	
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	
E-1.....2/21/07	E-4.....8/27/03	
E-2.....5/29/98	E-4a.....8/27/03	
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	
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	
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
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
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	

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

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	

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		

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

FHWA-1273 -- Revised May 1, 2012

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with

the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this

contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and

mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may,

after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and

individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual

was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or

general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or

voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--
Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

- a. To the extent that qualified persons regularly residing in the area are not available.
- b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.
- c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

AMENDMENT
REQUIRED CONTRACT PROVISIONS
(Exclusive of Appalachian Contracts)

FEDERAL-AID CONSTRUCTION CONTRACTS

The Federal-Aid provisions are supplemented with the following:

XII. Cargo Preference Act

1. U.S. Department of Transportation Federal Highway Administration memorandum dated December 11, 2015 requires that all federal-aid highway programs awarded after February 15, 2016 must comply with the Cargo Preference Act and its regulation of 46 CFR 381.7 (a)-(b).

WAGE RATES

FEDERAL WAGE RATES

STATE WAGE RATES

BENEFIT CODE KEY

WASHINGTON L&I POLICY STATEMENT

"General Decision Number: WA20190001 08/02/2019
Superseded General Decision Number: WA20180001
State: Washington
Construction Type: Highway
Counties: Washington Statewide.
HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin
Counties)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	01/18/2019
2	02/15/2019
3	05/03/2019
4	05/24/2019
5	06/14/2019
6	06/28/2019
7	07/05/2019
8	07/19/2019
9	07/26/2019
10	08/02/2019

CARP0001-008 06/01/2018

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, and YAKIMA
Counties

	Rates	Fringes
CARPENTER		
GROUP 1.....	\$ 33.40	16.40
GROUP 2.....	\$ 45.42	18.83
GROUP 3.....	\$ 34.52	16.40
GROUP 4.....	\$ 34.52	16.40
GROUP 5.....	\$ 77.52	16.40
GROUP 6.....	\$ 37.76	16.40
GROUP 7.....	\$ 38.76	16.40
GROUP 8.....	\$ 35.52	16.40
GROUP 9.....	\$ 41.76	16.40

CARPENTER & DIVER CLASSIFICATIONS:

GROUP 1: Carpenter

GROUP 2: Millwright, Machine Erector

GROUP 3: Piledriver - includes driving, pulling, cutting,
placing collars, setting, welding, or creosote treated
material, on all piling

GROUP 4: Bridge, Dock, and Wharf carpenters

GROUP 5: Diver Wet

GROUP 6: Diver Tender, Manifold Operator, ROV Operator

GROUP 7: Diver Standby

GROUP 8: Assistant Diver Tender, ROV Tender/Technician

GROUP 9: Manifold Operator-Mixed Gas

ZONE PAY:

ZONE 1	0-60 MILES	FREE
ZONE 2	61-100	\$4.00/PER HOUR
ZONE 3	OVER 100 MILES	\$6.00/PER HOUR

DISPATCH POINTS:

CARPENTERS/MILLWRIGHTS: PASCO (515 N Neel Street) or Main
Post Office of established residence of employee (Whichever
is closest to the worksite).

CARPENTERS/PILEDRIIVER: SPOKANE (127 E. AUGUSTA AVE.) or Main
Post Office of established residence of employee (Whichever
is closest to the worksite).

CARPENTERS: WENATCHEE (27 N. CHELAN) or Main Post Office of

established residence of employee (Whichever is closest to the worksite).

CARPENTERS: COEUR D' ALENE (1839 N. GOVERNMENT WAY) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: MOSCOW (306 N. JACKSON) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

DEPTH PAY FOR DIVERS BELOW WATER SURFACE:

50-100 feet \$2.00 per foot
101-150 feet \$3.00 per foot
151-220 feet \$4.00 per foot
221 feet and deeper \$5.00 per foot

PREMIUM PAY FOR DIVING IN ENCLOSURES WITH NO VERTICAL ASCENT:

0-25 feet Free
26-300 feet \$1.00 per Foot

SATURATION DIVING:

The standby rate applies until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. the diver rate shall be paid for all saturation hours.

WORK IN COMBINATION OF CLASSIFICATIONS:

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

HAZMAT PROJECTS:

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + \$.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + \$.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + \$.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +\$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.

CARP0003-006 06/01/2018

SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLUCKITAT,
 LEWIS(Piledriver only), PACIFIC (South of a straight line made
 by extending the north boundary line of Wahkiakum County west
 to Willapa Bay to the Pacific Ocean), SKAMANIA, and WAHIAKUM
 Counties.

	Rates	Fringes
Carpenters:		
CARPENTERS.....	\$ 37.64	16.83
DIVERS TENDERS.....	\$ 43.73	16.83
DIVERS.....	\$ 87.73	16.83
DRYWALL.....	\$ 37.64	16.83
MILLWRIGHTS.....	\$ 38.17	16.83
PILEDRIERS.....	\$ 38.71	16.83

DEPTH PAY:

50 TO 100 FEET \$1.00 PER FOOT OVER 50 FEET
 101 TO 150 FEET \$1.50 PER FOOT OVER 101 FEET
 151 TO 200 FEET \$2.00 PER FOOT OVER 151 FEET

Zone Differential (Add up Zone 1 rates):

Zone 2 - \$0.85
 Zone 3 - 1.25
 Zone 4 - 1.70
 Zone 5 - 2.00
 Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND
 VANCOUVER, (NOTE: All dispatches for Washington State
 Counties: Cowlitz, Wahkiakum and Pacific shall be from
 Longview Local #1707 and mileage shall be computed from
 that point.)

ZONE 1: Projects located within 30 miles of the respective
 city hall of the above mentioned cities
 ZONE 2: Projects located more than 30 miles and less than 40
 miles of the respective city of the above mentioned cities
 ZONE 3: Projects located more than 40 miles and less than 50
 miles of the respective city of the above mentioned cities
 ZONE 4: Projects located more than 50 miles and less than 60
 miles of the respective city of the above mentioned cities.
 ZONE 5: Projects located more than 60 miles and less than 70
 miles of the respective city of the above mentioned cities
 ZONE 6: Projects located more than 70 miles of the respected
 city of the above mentioned cities

 CARP0770-003 06/01/2018

	Rates	Fringes
CARPENTER		
CENTRAL WASHINGTON:		
CHELAN, DOUGLAS (WEST OF		
THE 120TH MERIDIAN),		
KITTITAS, OKANOGAN (WEST		
OF THE 120TH MERIDIAN) AND		

YAKIMA COUNTIES

CARPENTERS ON CREOSOTE

MATERIAL.....	\$ 29.15	13.93
CARPENTERS.....	\$ 29.05	13.93
DIVERS TENDER.....	\$ 48.59	16.12
DIVERS.....	\$ 97.43	16.12
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 45.42	16.12
PILEDRIIVER, DRIVING,		
PULLING, CUTTING, PLACING		
COLLARS, SETTING, WELDING		
OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 44.17	13.93

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIVERS

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

CARP0770-006 06/01/2018

Rates

Fringes

CARPENTER

WESTERN WASHINGTON:
CLALLAM, GRAYS HARBOR,
ISLAND, JEFFERSON, KING,
KITSAP, LEWIS (excludes
piledrivers only), MASON,
PACIFIC (North of a

straight line made by
 extending the north
 boundary line of Wahkiakum
 County west to the Pacific
 Ocean), PIERCE, SAN JUAN,
 SKAGIT, SNOHOMISH,
 THURSTON AND WHATCOM
 COUNTIES

BRIDGE CARPENTERS.....\$ 43.92	16.12
CARPENTERS ON CREOSOTE	
MATERIAL.....\$ 44.02	16.12
CARPENTERS.....\$ 43.92	16.12
DIVERS TENDER.....\$ 48.59	16.12
DIVERS.....\$ 97.48	16.12
MILLWRIGHT AND MACHINE	
ERECTORS.....\$ 45.42	16.12
PILEDRIIVER, DRIVING,	
PULLING, CUTTING, PLACING	
COLLARS, SETTING, WELDING	
OR CRESOTE TREATED	
MATERIAL, ALL PILING.....\$ 44.17	16.12

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL
 CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS)

Hourly Zone Pay shall be paid on jobs located outside of the
 free zone computed from the city center of the following
 listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT
 AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall,
 Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

 ELEC0046-001 02/04/2019

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 58.84	22.48
ELECTRICIAN.....	\$ 53.49	22.31

* ELEC0048-003 01/01/2019

CLARK, KLINKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 44.85	23.57

HOURLY ZONE PAY:

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Portland, The Dalles, Hood River, Tillamook, Seaside and Astoria

Zone Pay:

Zone 1: 31-50 miles \$1.50/hour
 Zone 2: 51-70 miles \$3.50/hour
 Zone 3: 71-90 miles \$5.50/hour
 Zone 4: Beyond 90 miles \$9.00/hour

*These are not miles driven. Zones are based on Delorme Street Atlas USA 2006 plus.

ELEC0048-029 01/01/2019

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 44.85	23.57

ELEC0073-001 07/01/2019

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 34.10	16.68
ELECTRICIAN.....	\$ 36.05	19.18

ELEC0076-002 08/31/2018

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.06	23.23
ELECTRICIAN.....	\$ 43.69	23.10

ELEC0112-005 06/01/2019

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA
WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.35	21.13
ELECTRICIAN.....	\$ 46.05	21.06

ELEC0191-003 06/01/2018

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.23	17.73
ELECTRICIAN.....	\$ 44.95	21.42

ELEC0191-004 06/01/2018

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.82	17.63
ELECTRICIAN.....	\$ 42.45	21.34

ENGI0302-003 06/01/2018

CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF
THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN),
SAN JUNA, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE
120TH MERIDIAN) COUNTIES

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1A.....	\$ 44.44	19.97
Group 1AA.....	\$ 45.09	19.97
Group 1AAA.....	\$ 45.73	19.97
Group 1.....	\$ 43.79	19.97
Group 2.....	\$ 43.23	19.97
Group 3.....	\$ 42.74	19.97
Group 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) - \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent,
Mount Vernon, Port Angeles, Port Townsend, Seattle,
Shelton, Wenatchee, Yakima

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom
(including jib with attachments); Tower crane over 175 ft
in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge
type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels,
excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building
work; Excavator, shovel, backhoes over 3 yards and under 6
yards; Hard tail end dump articulating off-road equipment
45 yards and over; Loader- overhead 6 yards to, but not
including 8 yards; Mucking machine, mole, tunnel, drill
and/or shield; Quad 9, HD 41, D-10; Remote control operator
on rubber tired earth moving equipment; Rollagon;
Scrapers-self propelled 45 yards and over; Slipform pavers;
Transporters, all truck or track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-overhead, bridge type-20 tons through 44
tons; Chipper; Concrete Pump-truck mount with boom
attachment; Crusher; Deck Engineer/Deck Winches (power);
Drilling machine; Excavator, shovel, backhoe-3yards and
under; Finishing Machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Horizontal/directional drill
operator; Loaders-overhead under 6 yards; Loaders-plant
feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant;
Motor patrol graders-finishing; Piledriver (other than
crane mount); Roto-mill, roto-grinder; Screedman, spreader,
topside operator-Blaw Knox, Cedar Rapids, Jaeger,
Caterpillar, Barber Green; Scraper-self propelled, hard
tail end dump, articulating off-road equipment-under 45
yards; Subgrade trimmer; Tractors, backhoes-over 75 hp;
Transfer material service machine-shuttle buggy, blaw
knox-roadtec; Truck crane oiler/driver-100 tons and over;
Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments;
A-frame crane over 10 tons; Drill oilers-auger type, truck
or crane mount; Dozers-D-9 and under; Forklift-3000 lbs.
and over with attachments; Horizontal/directional drill

locator; Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrpers-concrete and carry-all; Service engineer-equipment; Trenching machines; Truck Crane Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete finish mahine-laser screed; Cranes-A frame-10 tons and under; Elevator and Manlift-permanent or shaft type; Gradechecker, Stakehop; Forklifts under 3000 lbs. with attachments; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger, mechanical; Power plant; Pumps, water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

HANDLING OF HAZARDOUS WASTE MATERIALS:

Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be elgible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class ""C"" Suit - Base wage rate plus \$.25 per hour.

H-3 Class ""B"" Suit - Base wage rate plus \$.50 per hour.

H-4 Class ""A"" Suit - Base wage rate plus \$.75 per hour.

ENGI0370-002 06/01/2018

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN), COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 27.51	15.95
GROUP 2.....	\$ 27.83	15.95
GROUP 3.....	\$ 28.44	15.95
GROUP 4.....	\$ 28.60	15.95
GROUP 5.....	\$ 28.76	15.95

GROUP 6.....	\$ 29.04	15.95
GROUP 7.....	\$ 29.31	15.95
GROUP 8.....	\$ 30.41	15.95

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - \$2.00

Zone 1: Within 45 mile radius of Spokane, Pasco, Washington;
Lewiston, Idaho

Zone 2: Outside 45 mile radius of Spokane, Pasco,
Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Fireman & Heater Tender; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine; Crane Oiler-Driver (CLD required) & Cable Tender, Mucking Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat (Skid Steer); Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumora, Adams or similar); Generator Plant Engineers (diesel or electric); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or

similar); Spreader Machine; Dozer/Tractor (up to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under 1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8 inch bit)

GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment (8 inch bit & over) (Robbins, reverse circulation & similar); Hoe Ram; Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operatr (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar); Grade Checker

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments); Cable Controller (dispatcher); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Drill Doctor; Loader Operator (front-end & overhead, 4 yds. incl. 8 yds.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yds.); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker; Lime Batch Tank Operator (REcycle Train); Lime Brain Operator (Recycle Train); Mobile Crusher Operator (Recycle Train)

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. & over); Whirleys & Hammerheads,

ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Goldhofer, Shaurerly and Similar); Ultra High Pressure Waterjet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)
180 ft to 250 ft \$.50 over scale
Over 250 ft \$.80 over scale

NOTE:

In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom.

HAZMAT:

Anyone working on HAZMAT jobs, working with supplied air shall receive \$1.00 an hour above classification.

ENGI0612-001 09/28/2018

PIERCE County

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in

height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead, 6 yards to, but not including, 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9 HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled 45 yards and over; Slipform pavers; Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-Overhead, bridge type, 20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck engineer/deck winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Loaders, overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics- all; Mixers, asphalt plant; Motor patrol graders, finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barber Green; Scraper-self-propelled, hard tail end dump, articulating off-road equipment- under 45 yards; Subgrader trimmer; Tractors, backhoe over 75 hp; Transfer material service machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane oiler/driver-100 tons and over; Truck Mount Portable Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch

seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing, Class "D" Suit - Base wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0612-012 09/28/2018

LEWIS, PACIFIC (portion lying north of a parallel line extending west from the northern boundary of Wahkaikum County to the sea) AND THURSTON COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00
Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in
height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge
type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels,
excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building
work; Excavator, shovel, backhoes over 3 yards and under 6
yards; Hard tail end dump articulating off-road equipment
45 yards and over; Loader- overhead, 6 yards to, but not
including, 8 yards; Mucking machine, mole, tunnel, drill
and/or shield; Quad 9 HD 41, D-10; Remote control operator
on rubber tired earth moving equipment; Rollagon; Scrapers-
self-propelled 45 yards and over; Slipform pavers;
Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-Overhead, bridge type, 20 tons through
44 tons; Chipper; Concrete pump-truck mount with boom
attachment; Crusher; Deck engineer/deck winches (power);
Drilling machine; Excavator, shovel, backhoe-3 yards and
under; Finishing machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Loaders, overhead under 6
yards; Loaders-plant feed; Locomotives-all; Mechanics- all;
Mixers, asphalt plant; Motor patrol graders, finishing;
Piledriver (other than crane mount); Roto-mill, roto-
grinder; Screedman, spreader, topside operator-Blaw Knox,
Cedar Rapids, Jaeger, Caterpillar, Barber Green;
Scraper-self- propelled, hard tail end dump, articulating
off-road equipment- under 45 yards; Subgrader trimmer;
Tractors, backhoe over 75 hp; Transfer material service
machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane
oiler/driver-100 tons and over; Truck Mount Portable
Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments;
Crane-A-frame over 10 tons; Drill oilers-auger type, truck
or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and
over with attachments; Horizontal/directional drill
locator; Outside Hoists-(elevators and manlifts), air
tuggers, strato tower bucket elevators; Hydralifts/boom
trucks over 10 tons; Loaders-elevating type, belt; Motor

patrol grader-nonfinishing; Plant oiler- asphalt, crusher;
Pump-Concrete; Roller, plant mix or multi-lfit materials;
Saws-concrete; Scrapers, concrete and carry all; Service
engineers-equipment; Trenching machines; Truck crane
oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor;
Concrete Finish Machine-laser screed; Cranes A-frame 10
tons and under; Elevator and manlift (permanent and shaft
type); Forklifts-under 3000 lbs. with attachments;
Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and
under; Oil distributors, blower distribution and mulch
seeding operator; Pavement breaker; Posthole
digger-mechanical; Power plant; Pumps-water; Rigger and
Bellman; Roller-other than plant mix; Wheel Tractors,
farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings
and bridges whose total value is less than \$1.5 million
excluding mechanical, electrical, and utility portions of
the contract.
2. Projects of less than \$1 million where no building is
involved. Surfacing and paving included, but utilities
excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all
craft classifications subject to working inside a federally
designated hazardous perimeter shall be eligible for
compensation in accordance with the following group
schedule relative to the level of hazardous waste as
outlined in the specific hazardous waste project site
safety plan.

H-1 Base wage rate when on a hazardous waste site when not
outfitted with protective clothing, Class "D" Suit - Base
wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0701-002 01/01/2018

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND
WAHKIAKUM COUNTIES

POWER RQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 41.65	14.35
GROUP 1A.....	\$ 43.73	14.35

GROUP 1B.....	\$ 45.82	14.35
GROUP 2.....	\$ 39.74	14.35
GROUP 3.....	\$ 38.59	14.35
GROUP 4.....	\$ 37.51	14.35
GROUP 5.....	\$ 36.27	14.35
GROUP 6.....	\$ 33.05	14.35

Zone Differential (add to Zone 1 rates):

Zone 2 - \$3.00

Zone 3 - \$6.00

For the following metropolitan counties: MULTNOMAH;
CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA;
CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS
INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens ""Blast Zone"" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE;
GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1

Concrete Batch Plant and or Wet mix three (3) units or more;
Crane, Floating one hundred and fifty (150) ton but less than two hundred and fifty (250) ton; Crane, two hundred (200) ton through two hundred ninety nine (299) ton with

two hundred foot (200') boom or less (including jib, inserts and/or attachments); Crane, ninety (90) ton through one hundred ninety nine (199) ton with over two hundred (200') boom Including jib, inserts and/or attachments); Crane, Tower Crane with one hundred seventy five foot (175') tower or less and with less than two hundred foot (200') jib; Crane, Whirley ninety (90) ton and over; Helicopter when used in erecting work

Group 1A

Crane, floating two hundred fifty (250) ton and over; Crane, two hundred (200) ton through two hundred ninety nine (299) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Crane, three hundred (300) ton through three hundred ninety nine (399) ton; Crane, Tower Crane with over one hundred seventy five foot (175') tower or over two hundred foot (200') jib; Crane, tower Crane on rail system or 2nd tower or more in work radius

Group 1B

Crane, three hundred (300) ton through three hundred ninety nine (399) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Floating crane, three hundred fifty (350) ton and over; Crane, four hundred (400) ton and over

Group 2

Asphalt Plant (any type); Asphalt Roto-Mill, pavement profiler eight foot (8') lateral cut and over; Auto Grader or "Trimmer"; Blade, Robotic; Bulldozer, Robotic Equipment (any type); Bulldozer, over one hundred twenty thousand (120,000) lbs. and above; Concrete Batch Plant and/or Wet Mix one (1) and two (2) drum; Concrete Diamond Head Profiler; Canal Trimmer; Concrete, Automatic Slip Form Paver (Assistant to the Operator required); Crane, Boom Truck fifty (50) ton and with over one hundred fifty foot (150') boom and over; Crane, Floating (derrick barge) thirty (30) ton but less than one hundred fifty (150) ton; Crane, Cableway twenty-five (25) ton and over; Crane, Floating Clamshell three (3) cu. Yds. And over; Crane, ninety (90) ton through one hundred ninety nine (199) ton up to and including two hundred foot (200') of boom (including jib inserts and/or attachments); Crane, fifty (50) ton through eighty nine (89) ton with over one hundred fifty foot (150') boom (including jib inserts and/or attachments); Crane, Whirley under ninety (90) ton; Crusher Plant; Excavator over one hundred thirty thousand (130,000) lbs.; Loader one hundred twenty thousand (120,000) lbs. and above; Remote Controlled Earth Moving Equipment; Shovel, Dragline, Clamshell, five (5) cu. Yds. And over; Underwater Equipment remote or otherwise, when used in construction work; Wheel Excavator any size

Group 3

Bulldozer, over seventy thousand (70,000) lbs. up to and including one hundred twenty thousand (120,000) lbs.; Crane, Boom Truck fifty (50) ton and over with less than

one hundred fifty foot (150') boom; Crane, fifty (50) ton through eighty nine (89) ton with one hundred fifty foot (150') boom or less (including jib inserts and/or attachments); Crane, Shovel, Dragline or Clamshell three (3) cu. yds. but less than five (5) cu. Yds.; Excavator over eighty thousand (80,000) lbs. through one hundred thirty thousand (130,000) lbs.; Loader sixty thousand (60,000) lbs. and less than one hundred twenty thousand (120,000) lbs.

Group 4

Asphalt, Screed; Asphalt Paver; Asphalt Roto-Mill, pavement profiler, under eight foot (8') lateral cut; Asphalt, Material Transfer Vehicle Operator; Back Filling Machine; Backhoe, Robotic, track and wheel type up to and including twenty thousand (20,000) lbs. with any attachments; Blade (any type); Boatman; Boring Machine; Bulldozer over twenty thousand (20,000) lbs. and more than one hundred (100) horse up to seventy thousand (70,000) lbs.; Cable-Plow (any type); Cableway up to twenty five (25) ton; Cat Drill (John Henry); Chippers; Compactor, multi-engine; Compactor, Robotic; Compactor with blade self-propelled; Concrete, Breaker; Concrete, Grout Plant; Concrete, Mixer Mobile; Concrete, Paving Road Mixer; Concrete, Reinforced Tank Banding Machine; Crane, Boom Truck twenty (20) ton and under fifty (50) ton; Crane, Bridge Locomotive, Gantry and Overhead; Crane, Carry Deck; Crane, Chicago Boom and similar types; Crane, Derrick Operator, under one hundred (100) ton; Crane, Floating Clamshell, Dragline, etc. Operator, under three (3) cu. yds. Or less than thirty (30) ton; Crane, under fifty (50) ton; Crane, Quick Tower under one hundred foot (100') in height and less than one hundred fifty foot (150') jib (on rail included); Diesel-Electric Engineer (Plant or Floating); Directional Drill over twenty thousand (20,000) lbs. pullback; Drill Cat Operator; Drill Doctor and/or Bit Grinder; Driller, Percussion, Diamond, Core, Cable, Rotary and similar type; Excavator Operator over twenty thousand (20,000) lbs. through eighty thousand (80,000) lbs.; Generator Operator; Grade-all; Guardrail Machines, i.e. punch, auger, etc.; Hammer Operator (Piledriver); Hoist, stiff leg, guy derrick or similar type, fifty (50) ton and over; Hoist, two (2) drums or more; Hydro Axe (loader mounted or similar type); Jack Operator, Elevating Barges, Barge Operator, self-unloading; Loader Operator, front end and overhead, twenty five thousand (25,000) lbs. and less than sixty thousand (60,000) lbs.; Log Skidders; Piledriver Operator (not crane type); Pipe, Bending, Cleaning, Doping and Wrapping Machines; Rail, Ballast Tamper Multi-Purpose; Rubber-tired Dozers and Pushers; Scraper, all types; Side-Boom; Skip Loader, Drag Box; Strump Grinder (loader mounted or similar type); Surface Heater and Planer; Tractor, rubber-tired, over fifty (50) HP Flywheel; Trenching Machine three foot (3') depth and deeper; Tub Grinder (used for wood debris); Tunnel Boring Machine Mechanic; Tunnel, Mucking Machine; Ultra High Pressure Water Jet Cutting Tool System Operator; Vacuum Blasting Machine Operator; Water pulls, Water wagons

Group 5

Asphalt, Extrusion Machine; Asphalt, Roller (any asphalt mix); Asphalt, Roto-Mill pavement profiler ground man; Bulldozer, twenty thousand (20,000) lbs. or less, or one hundred (100) horse or less; Cement Pump; Chip Spreading Machine; Churn Drill and Earth Boring Machine; Compactor, self-propelled without blade; Compressor, (any power) one thousand two hundred fifty (1,250) cu. ft. and over, total capacity; Concrete, Batch Plant Quality control; Concrete, Combination Mixer and compressor operator, gunite work; Concrete, Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete, Finishing Machine; Concrete, Grouting Machine; Concrete, Internal Full Slab Vibrator Operator; Concrete, Joint Machine; Concrete, Mixer single drum, any capacity; Concrete, Paving Machine eight foot (8') or less; Concrete, Planer; Concrete, Pump; Concrete, Pump Truck; Concrete, Pumpcrete Operator (any type); Concrete, Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Conveyored Material Hauler; Crane, Boom Truck under twenty (20) tons; Crane, Boom Type lifting device, five (5) ton capacity or less; Drill, Directional type less than twenty thousand (20,000) lbs. pullback; Fork Lift, over ten (10) ton or Robotic; Helicopter Hoist; Hoist Operator, single drum; Hydraulic Backhoe track type up to and including twenty thousand (20,000) lbs.; Hydraulic Backhoe wheel type (any make); Laser Screed; Loaders, rubber-tired type, less than twenty five thousand (25,000) lbs.; Pavement Grinder and/or Grooving Machine (riding type); Pipe, cast in place Pipe Laying Machine; Pulva-Mixer or similar types; Pump Operator, more than five (5) pumps (any size); Rail, Ballast Compactor, Regulator, or Tamper machines; Service Oiler (Greaser); Sweeper Self-Propelled; Tractor, Rubber-Tired, fifty (50) HP flywheel and under; Trenching Machine Operator, maximum digging capacity three foot (3') depth; Tunnel, Locomotive, Dinkey; Tunnel, Power Jumbo setting slip forms, etc.

Group 6

Asphalt, Pugmill (any type); Asphalt, Raker; Asphalt, Truck Mounted Asphalt Spreader, with Screed; Auger Oiler; Boatman; Bobcat, skid steer (less than one (1) yard); Broom, self-propelled; Compressor Operator (any power) under 1,250 cu. ft. total capacity; Concrete Curing Machine (riding type); Concrete Saw; Conveyor Operator or Assistant; Crane, Tugger; Crusher Feeder; Crusher Oiler; Deckhand; Drill, Directional Locator; Fork Lift; Grade Checker; Guardrail Punch Oiler; Hydrographic Seeder Machine, straw, pulp or seed; Hydrostatic Pump Operator; Mixer Box (CTB, dry batch, etc.); Oiler; Plant Oiler; Pump (any power); Rail, Brakeman, Switchman, Motorman; Rail, Tamping Machine, mechanical, self-propelled; Rigger; Roller grading (not asphalt); Truck, Crane Oiler-Driver

IRON0014-005 07/01/2018

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,

GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.18	27.82

IRON0029-002 05/01/2018		

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHKAUKUM
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.00	27.87

IRON0086-002 07/01/2018		

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.18	27.82

IRON0086-004 07/01/2018		

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.81	28.22

LABO0238-004 06/01/2018		

PASCO AREA: ADAMS, BENTON, COLUMBIA, DOUGLAS (East of 120th
Meridian), FERRY, FRANKLIN, GRANT, OKANOGAN, WALLA WALLA

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE,
STEVENS & WHITMAN COUNTIES

	Rates	Fringes
LABORER (PASCO)		
GROUP 1.....	\$ 24.84	12.35
GROUP 2.....	\$ 26.94	12.35
GROUP 3.....	\$ 27.21	12.35
GROUP 4.....	\$ 27.48	12.35
GROUP 5.....	\$ 27.76	12.35
LABORER (SPOKANE)		
GROUP 1.....	\$ 24.74	12.45
GROUP 2.....	\$ 26.84	12.45
GROUP 3.....	\$ 27.11	12.45
GROUP 4.....	\$ 27.38	12.45
GROUP 5.....	\$ 27.66	12.45

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder, Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multi-plate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation

of Barco, Essex and similar tampers); Trencher, Shawnee;
Tugger Operator; Wagon Drills; Water Pipe Liner;
Wheelbarrow (power driven)

GROUP 4: Air and Hydraulic Track Drill; Asphalt Raker; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or fume control above 40 feet high); Guniting (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrapper; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to include raise and shaft miner, laser beam operator on raises and shafts)

LABO0238-006 06/01/2018

COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA, WHITMAN

	Rates	Fringes
Hod Carrier.....	\$ 27.75	12.25

LABO0242-003 06/01/2019

KING COUNTY

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.10	11.94
GROUP 2A.....	\$ 31.03	11.94
GROUP 3.....	\$ 38.78	11.94
GROUP 4.....	\$ 39.72	11.94
GROUP 5.....	\$ 40.36	11.94
Group 6.....	\$ 40.36	12.04

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,

TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2A: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating
Screed; Asbestos Abatement Laborer; Ballast Regulator
Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter
Tender; Cement Finisher Tender; Change House or Dry Shack;
Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender;
Clean-up Laborer; Concrete Form Stripper; Curing Laborer;
Demolition (wrecking and moving including charred
material); Ditch Digger; Dump Person; Fine Graders;
Firewatch; Form Setter; Gabian Basket Builders; Grout
Machine Tender; Grinders; Guardrail Erector; Hazardous
Waste Worker (Level C: uses a chemical "splash suit" and
air purifying respirator); Maintenance Person; Material
Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale
Person; Sloper Sprayer; Signal Person; Stock Piler; Stake
Hopper; Toolroom Man (at job site); Topper-Tailer; Track
Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.);
Clary Power Spreader; Concrete Dumper/Chute Operator;
Concrete Saw Operator; Drill Operator (hydraulic, diamond,
aiartrac); Faller and Bucker Chain Saw; Grade Checker and
Transit Person; Groutmen (pressure) including post tension
beams; Hazardous Waste Worker (Level B: uses same
respirator protection as Level A. A supplied air line is
provided in conjunction with a chemical "splash suit");

High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and gas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

Group 6: Miner

LABO0252-010 06/01/2019

CLALLAM, GRAYS HARBOR, JEFFERSON, KITSAP, LEWIS, MASON, PACIFIC (EXCLUDING SOUTHWEST), PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.10	11.94
GROUP 2.....	\$ 31.03	11.94
GROUP 3.....	\$ 38.78	11.94
GROUP 4.....	\$ 39.72	11.94
GROUP 5.....	\$ 40.36	11.94

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT, TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT. TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective city hall
 ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall
 ZONE 3 - More than 45 radius miles from the respective city hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):
 ZONE 2 - \$1.00
 ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective city hall
 ZONE 2 - More than 25 radius miles from the respective city hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Grade Checker and Transit Person; High Scaler; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0292-008 06/01/2019

ISLAND, SAN JUAN, SKAGIT, SNOHOMISH, AND WHATCOM COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.10	11.94
GROUP 2.....	\$ 31.03	11.94
GROUP 3.....	\$ 38.78	11.94
GROUP 4.....	\$ 39.72	11.94
GROUP 5.....	\$ 40.36	11.94
BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT, TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT. TOWNSEND, PT. ANGELES, AND BREMERTON		
ZONE 1 - Projects within 25 radius miles of the respective city hall		
ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall		
ZONE 3 - More than 45 radius miles from the respective city hall		
ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):		
ZONE 2 - \$1.00		
ZONE 3 - \$1.30		
BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA		
ZONE 1 - Projects within 25 radius miles of the respective city hall		
ZONE 2 - More than 25 radius miles from the respective city hall		
ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):		
ZONE 2 - \$2.25		
LABORERS CLASSIFICATIONS		
GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)		
GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car		
GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical ""splash suit"" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake		

Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0335-001 06/01/2018

CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIACUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHKIACUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 31.72	11.49
GROUP 2.....	\$ 32.38	11.49
GROUP 3.....	\$ 32.87	11.49
GROUP 4.....	\$ 33.29	11.49
GROUP 5.....	\$ 28.98	11.49
GROUP 6.....	\$ 26.31	11.49
GROUP 7.....	\$ 22.78	11.49

Zone Differential (Add to Zone 1 rates):

Zone 2 \$ 0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.

ZONE 2: More than 30 miles but less than 40 miles from the

respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Median Rail Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (above ground); Weight-Man- Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Clean- up Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunit Nozzleman Tender; Gunit or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bullgang (underground)

GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunit Nozzleman; High Scalars, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Powdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and

Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls);
Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam
(pipelaying)-applicable when employee assigned to move, set
up, align; Laser Beam; Tunnel Miners; Motorman-Dinky
Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

LABO0335-019 06/01/2018

	Rates	Fringes
Hod Carrier.....	\$ 31.72	11.49

LABO0348-003 06/01/2019

CHELAN, DOUGLAS (W OF 12TH MERIDIAN), KITTITAS, AND YAKIMA
COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 23.12	11.94
GROUP 2.....	\$ 26.51	11.94
GROUP 3.....	\$ 29.01	11.94
GROUP 4.....	\$ 29.71	11.94
GROUP 5.....	\$ 30.22	11.94

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall
ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):
ZONE 2 - \$1.00
ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

PAIN0005-002 06/01/2019

STATEWIDE EXCEPT CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH),

SKAMANIA, AND WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 31.85	15.73

PAIN0005-004 03/01/2009

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND
WHATCOM COUNTIES

	Rates	Fringes
PAINTER.....	\$ 20.82	7.44

* PAIN0005-006 07/01/2018

ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE);
CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS,
LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,
WHITMAN AND YAKIMA COUNTIES

	Rates	Fringes
PAINTER		
Application of Cold Tar		
Products, Epoxies, Polyure		
thanes, Acids, Radiation		
Resistant Material, Water		
and Sandblasting.....	\$ 30.19	11.71
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping,		
Steam-cleaning and Spray....	\$ 22.94	11.61
Lead Abatement, Asbestos		
Abatement.....	\$ 21.50	7.98

*\$.70 shall be paid over and above the basic wage rates
listed for work on swing stages and high work of over 30
feet.

PAIN0055-003 07/01/2018

CLARK, COWLITZ, KLUCKITAT, PACIFIC, SKAMANIA, AND WAHKIAKUM
COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 23.51	11.94
High work - All work 60		
ft. or higher.....	\$ 24.26	11.94
Spray and Sandblasting.....	\$ 23.51	11.94

PAIN0055-006 07/01/2018

CLARK, COWLITZ, KLINKITAT, SKAMANIA and WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT		
STRIPER.....	\$ 35.02	12.06

PLAS0072-004 06/01/2018

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA
COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 29.07	14.13

Zone Differential (Add to Zone 1 rate): Zone 2 - \$2.00

BASE POINTS: Spokane, Pasco, Lewiston; Wenatchee
Zone 1: 0 - 45 radius miles from the main post office
Zone 2: Over 45 radius miles from the main post office

PLAS0528-001 06/01/2019

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, LEWIS, MASON, PACIFIC, PIERCE, SAN JUAN, SKAGIT,
SNOHOMISH, THURSTON, WAHIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
CEMENT MASON		
CEMENT MASON.....	\$ 44.43	18.04
COMPOSITION, TROWEL		
MACHINE, GRINDER, POWER		
TOOLS, GUNNITE NOZZLE.....	\$ 44.93	18.04
TROWELING MACHINE OPERATOR		
ON COMPOSITION.....	\$ 44.93	18.04

* PLAS0555-002 07/01/2019

CLARK, KLINKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
CEMENT MASON		
CEMENT MASONS DOING BOTH		
COMPOSITION/POWER		

MACHINERY AND		
SUSPENDED/HANGING SCAFFOLD...	\$ 37.32	18.77
CEMENT MASONS ON		
SUSPENDED, SWINGING AND/OR		
HANGING SCAFFOLD.....	\$ 36.58	18.77
CEMENT MASONS.....	\$ 35.85	18.77
COMPOSITION WORKERS AND		
POWER MACHINERY OPERATORS...	\$ 36.58	18.77

Zone Differential (Add To Zone 1 Rates):

Zone 2 - \$0.65
 Zone 3 - 1.15
 Zone 4 - 1.70
 Zone 5 - 3.00

BASE POINTS: BEND, CORVALLIS, EUGENE, MEDFORD, PORTLAND,
 SALEM, THE DALLES, VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall
 ZONE 2: More than 30 miles but less than 40 miles from the
 respective city hall.
 ZONE 3: More than 40 miles but less than 50 miles from the
 respective city hall.
 ZONE 4: More than 50 miles but less than 80 miles from the
 respective city hall.
 ZONE 5: More than 80 miles from the respective city hall

 TEAM0037-002 06/01/2019

CLARK, COWLITZ, KLUCKITAT, PACIFIC (South of a straight line
 made by extending the north boundary line of Wahkiakum County
 west to the Pacific Ocean), SKAMANIA, AND WAHAKIYAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 29.08	15.27
GROUP 2.....	\$ 29.20	15.27
GROUP 3.....	\$ 29.34	15.27
GROUP 4.....	\$ 29.62	15.27
GROUP 5.....	\$ 29.85	15.27
GROUP 6.....	\$ 30.03	15.27
GROUP 7.....	\$ 30.24	15.27

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65
 Zone 3 - 1.15
 Zone 4 - 1.70
 Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city
 hall.

ZONE 2: More than 30 miles but less than 40 miles from the

respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup Truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix- 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom Truck/Hydra-lift or Retracting Crane; Challenger; Dumpsters or similar equipment all sizes; Dump Trucks/Articulated Dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix trucks: over 5 cu. yds. and including 7 cu. yds.; Vacuum Trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia Nitrate Distributor Driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated Dump Trucks; Self-Propelled Street Sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and Clean-up Truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt Burner; Dump Trucks, side, end and bottom dumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds. includes Articulated Dump Trucks; Fire Guard; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons

GROUP 5: Composite Crewman; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or

combinations thereof: over 50 cu. yds. and including 60 cu. yds. includes Articulated Dump Trucks

GROUP 6: Bulk Cement Spreader w/o Auger; Dry Pre-Batch concrete Mix Trucks; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds., and includes Articulated Dump Trucks; Skid Truck

GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds., includes Articulated Dump Trucks; Industrial Lift Truck (mechanical tailgate)

* TEAM0174-001 01/01/2018

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE A:		
GROUP 1:.....	\$ 35.63	18.67
GROUP 2:.....	\$ 34.79	18.67
GROUP 3:.....	\$ 31.98	18.67
GROUP 4:.....	\$ 27.01	18.67
GROUP 5:.....	\$ 35.18	18.67
ZONE B (25-45 miles from center of listed cities*): Add \$.70 per hour to Zone A rates.		
ZONE C (over 45 miles from centr of listed cities*): Add \$1.00 per hour to Zone A rates.		

*Zone pay will be calculated from the city center of the following listed cities:

BELLINGHAM	CENTRALIA	RAYMOND	OLYMPIA
EVERETT	SHELTON	ANACORTES	BELLEVUE
SEATTLE	PORT ANGELES	MT. VERNON	KENT
TACOMA	PORT TOWNSEND	ABERDEEN	BREMERTON

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or similar equipment when "A" frame or "Hydralift" and Boom truck or similar equipment is used; Buggymobile; Bulk Cement Tanker; Dumpsters and similar equipment, Tournorockers, Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le Tourneau, Westinghouse, Athye Wagon, Euclid Two and Four-Wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump Trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with 16 yards to 30 yards capacity:

Over 30 yards \$.15 per hour additional for each 10 yard increment; Explosive Truck (field mix) and similar equipment; Hyster Operators (handling bulk loose aggregates); Lowbed and Heavy Duty Trailer; Road Oil Distributor Driver; Spreader, Flaherty Transit mix used exclusively in heavy construction; Water Wagon and Tank Truck-3,000 gallons and over capacity

GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, Cat. D.W. Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and batch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by \$2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C: +\$.25 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B: +\$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."

LEVEL A: +\$.75 per hour - This level utilizes a fully-encapsulated suit with a self-contained breathing apparatus or a supplied air line.

TEAM0690-004 01/01/2019

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT KITTITAS, LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA COUNTIES

Rates

Fringes

Truck drivers: (AREA 1:
SPOKANE ZONE CENTER: Adams,
Chelan, Douglas, Ferry,
Grant, Kittitas, Lincoln,
Okanogan, Pen Oreille,
Spokane, Stevens, and Whitman
Counties

AREA 1: LEWISTON ZONE CENTER:
Asotin, Columbia, and
Garfield Counties

AREA 2: PASCO ZONE CENTER:
Benton, Franklin, Walla Walla
and Yakima Counties)

AREA 1:

GROUP 1.....	\$ 23.91	17.40
GROUP 2.....	\$ 26.18	17.40
GROUP 3.....	\$ 26.68	17.40
GROUP 4.....	\$ 27.01	17.40
GROUP 5.....	\$ 27.12	17.40
GROUP 6.....	\$ 27.29	17.40
GROUP 7.....	\$ 27.82	17.40
GROUP 8.....	\$ 28.18	17.40

AREA 2:

GROUP 1.....	\$ 26.05	17.40
GROUP 2.....	\$ 28.69	17.40
GROUP 3.....	\$ 28.80	17.40
GROUP 4.....	\$ 29.13	17.40
GROUP 5.....	\$ 29.24	17.40
GROUP 6.....	\$ 29.24	17.40
GROUP 7.....	\$ 29.78	17.40
GROUP 8.....	\$ 30.10	17.40

Zone Differential (Add to Zone 1 rate: Zone 1 + \$2.00)

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: Outside 45 radius miles from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power
Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and
under); Leverperson (loading trucks at bunkers); Trailer
Mounted Hydro Seeder and Mulcher; Seeder & Mulcher;
Stationary Fuel Operator; Tractor (small, rubber-tired,
pulling trailer or similar equipment)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile &
Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. &
under); Flat Bed Truck with Hydraulic System; Fork Lift
(3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner &
Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo;

Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Trucks Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumptor (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DWs & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001- 14,000 gallons); Lowboy(over 50 tons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end, bottom and articulated end dump (over 100 yds.); Helicopter Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in additon to the classification working in as follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction with a chemical splash suit or fully encapsulated suit with a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four(4) and eight(8) hours.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour
over applicable truck rate

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.
=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

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- Wednesday, Aug 7, 2019, 8:11 PM

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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: 08/06/2019

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Franklin	Asbestos Abatement Workers	Journey Level	\$38.16	<u>5D</u>	<u>1H</u>		View
Franklin	Boilermakers	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>		View
Franklin	Brick Mason	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>		View
Franklin	Building Service Employees	Janitor	\$12.00		<u>1</u>		View
Franklin	Building Service Employees	Shampooer	\$12.00		<u>1</u>		View
Franklin	Building Service Employees	Waxer	\$12.00		<u>1</u>		View
Franklin	Building Service Employees	Window Cleaner	\$12.00		<u>1</u>		View
Franklin	Cabinet Makers (In Shop)	Journey Level	\$12.00		<u>1</u>		View
Franklin	Carpenters	Carpenter	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Carpenters	Floor Finisher	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Carpenters	Floor Layer	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Carpenters	Form Builder	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Carpenters	Scaffold Erecting & Dismantling	\$49.80	<u>5A</u>	<u>1B</u>		View
Franklin	Cement Masons	Journey Level	\$43.20	<u>7B</u>	<u>1N</u>		View
Franklin	Divers & Tenders	Assistant Tender	\$51.92	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Dive Supervisor	\$95.42	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Diver	\$93.92	<u>5A</u>	<u>1B</u>	<u>8V</u>	View
Franklin	Divers & Tenders	Diver on Standby	\$55.16	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Diver Tender	\$54.16	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Diving Master	\$64.41	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Manifold Operator	\$54.16	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Manifold Operator Mixed Gas	\$58.16	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Remote Operated Vehicle Operator	\$54.16	<u>5A</u>	<u>1B</u>		View
Franklin	Divers & Tenders	Remote Operated Vehicle Tender/Technician	\$51.92	<u>5A</u>	<u>1B</u>		View
Franklin	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>		View
Franklin	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>		View
Franklin	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>		View
Franklin	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>		View
Franklin	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>		View
Franklin	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>		View

Franklin	Dredge Workers	Oiler	\$56.00	5D	3F		View
Franklin	Drywall Applicator	Journey Level	\$45.11	5A	1B	8N	View
Franklin	Drywall Tapers	Journey Level	\$40.10	7E	1P		View
Franklin	Electrical Fixture Maintenance Workers	Journey Level	\$12.00		1		View
Franklin	Electricians - Inside	Cable Splicer	\$66.39	5A	1E		View
Franklin	Electricians - Inside	Journey Level	\$64.15	5A	1E		View
Franklin	Electricians - Inside	Welder	\$68.63	5A	1E		View
Franklin	Electricians - Motor Shop	Craftsman	\$15.37		1		View
Franklin	Electricians - Motor Shop	Journey Level	\$14.69		1		View
Franklin	Electricians - Powerline Construction	Cable Splicer	\$79.60	5A	4D		View
Franklin	Electricians - Powerline Construction	Certified Line Welder	\$72.98	5A	4D		View
Franklin	Electricians - Powerline Construction	Groundperson	\$47.94	5A	4D		View
Franklin	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$72.98	5A	4D		View
Franklin	Electricians - Powerline Construction	Journey Level Lineperson	\$72.98	5A	4D		View
Franklin	Electricians - Powerline Construction	Line Equipment Operator	\$62.06	5A	4D		View
Franklin	Electricians - Powerline Construction	Meter Installer	\$47.94	5A	4D	8W	View
Franklin	Electricians - Powerline Construction	Pole Sprayer	\$72.98	5A	4D		View
Franklin	Electricians - Powerline Construction	Powderperson	\$54.55	5A	4D		View
Franklin	Electronic Technicians	Journey Level	\$41.22	5I	1B		View
Franklin	Elevator Constructors	Mechanic	\$94.22	7D	4A		View
Franklin	Elevator Constructors	Mechanic In Charge	\$101.73	7D	4A		View
Franklin	Fabricated Precast Concrete Products	Journey Level	\$12.00		1		View
Franklin	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$12.00		1		View
Franklin	Fence Erectors	Fence Erector	\$39.29	7B	1M		View
Franklin	Fence Erectors	Fence Laborer	\$39.29	7B	1M		View
Franklin	Flaggers	Journey Level	\$37.19	7B	1M		View
Franklin	Glaziers	Journey Level	\$30.59	7L	4L		View
Franklin	Heat & Frost Insulators And Asbestos Workers	Journey Level	\$51.04	5K	1U		View
Franklin	Heating Equipment Mechanics	Journey Level	\$60.31	5A	1X		View
Franklin	Hod Carriers & Mason Tenders	Journey Level	\$40.54	7B	1M		View
Franklin	Industrial Power Vacuum Cleaner	Journey Level	\$12.00		1		View
Franklin	Inland Boatmen	Journey Level	\$12.00		1		View
Franklin	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$12.00		1		View
Franklin	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$12.00		1		View

Franklin	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		<u>1</u>		View
Franklin	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$12.00		<u>1</u>		View
Franklin	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$12.00		<u>1</u>		View
Franklin	Insulation Applicators	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Ironworkers	Journeyman	\$61.21	<u>7N</u>	<u>1O</u>		View
Franklin	Laborers	Air And Hydraulic Track Drill	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Asphalt Raker	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Asphalt Roller, Walking	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Brick Pavers	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Brush Hog Feeder	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Brush Machine	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Caisson Worker, Free Air	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Carpenter Tender	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Cement Finisher Tender	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Cement Handler	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Chain Saw Operator & Faller	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Clean-up Laborer	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Compaction Equipment	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Concrete Crewman	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Concrete Saw, Walking	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Concrete Signalman	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Concrete Stack	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Confined Space Attendant	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Crusher Feeder	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Demolition	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Demolition Torch	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Dope Pot Fireman, Non-mechanical	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Driller Helper (when Required To Move & Position Machine)	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Drills With Dual Masts	\$40.11	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Dry Stack Walls	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Dumpman	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Erosion Control Laborer	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Final Detail Cleanup (i.e., Dusting, Vacuuming, Window Cleaning; Not Construction Debris Cleanup)	\$37.19	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Firewatch	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Form Cleaning Machine Feeder, Stacker	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Form Setter, Paving	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	General Laborer	\$39.29	<u>7B</u>	<u>1M</u>		View

Franklin	Laborers	Grade Checker	\$41.82	7B	1M	View
Franklin	Laborers	Grout Machine Header Tender	\$39.29	7B	1M	View
Franklin	Laborers	Guard Rail	\$39.29	7B	1M	View
Franklin	Laborers	Guniting	\$39.83	7B	1M	View
Franklin	Laborers	Hazardous Waste Worker (level A)	\$40.11	7B	1M	View
Franklin	Laborers	Hazardous Waste Worker (level B)	\$39.83	7B	1M	View
Franklin	Laborers	Hazardous Waste Worker (level C)	\$39.56	7B	1M	View
Franklin	Laborers	Hazardous Waste Worker (level D)	\$39.29	7B	1M	View
Franklin	Laborers	Hdpe Or Similar Liner Installer	\$39.29	7B	1M	View
Franklin	Laborers	High Scaler	\$39.83	7B	1M	View
Franklin	Laborers	Jackhammer Operator Miner, Class "b"	\$39.56	7B	1M	View
Franklin	Laborers	Laser Beam Operator	\$39.83	7B	1M	View
Franklin	Laborers	Miner, Class "a"	\$39.29	7B	1M	View
Franklin	Laborers	Miner, Class "c"	\$39.83	7B	1M	View
Franklin	Laborers	Miner, Class "d"	\$40.11	7B	1M	View
Franklin	Laborers	Monitor Operator, Air Track Or Similar Mounting	\$39.83	7B	1M	View
Franklin	Laborers	Mortar Mixer	\$39.83	7B	1M	View
Franklin	Laborers	Nipper	\$39.29	7B	1M	View
Franklin	Laborers	Nozzleman	\$39.83	7B	1M	View
Franklin	Laborers	Nozzleman, Water (to Include Fire Hose), Air Or Steam	\$39.56	7B	1M	View
Franklin	Laborers	Pavement Breaker, 90 Lbs. & Over	\$39.83	7B	1M	View
Franklin	Laborers	Pavement Breaker, Under 90 Lbs.	\$39.56	7B	1M	View
Franklin	Laborers	Pipelayer	\$39.83	7B	1M	View
Franklin	Laborers	Pipelayer, Corrugated Metal Culvert And Multi-plate	\$39.56	7B	1M	View
Franklin	Laborers	Pipewrapper	\$39.83	7B	1M	View
Franklin	Laborers	Plasterer Tenders	\$39.83	7B	1M	View
Franklin	Laborers	Pot Tender	\$39.56	7B	1M	View
Franklin	Laborers	Powderman	\$41.48	7B	1M	View
Franklin	Laborers	Powderman Helper	\$39.56	7B	1M	View
Franklin	Laborers	Power Buggy Operator	\$39.56	7B	1M	View
Franklin	Laborers	Power Tool Operator, Gas, Electric, Pneumatic	\$39.56	7B	1M	View
Franklin	Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	\$39.56	7B	1M	View
Franklin	Laborers	Railroad Power Spiker Or Puller, Dual Mobile	\$39.56	7B	1M	View
Franklin	Laborers	Remote Equipment Operator	\$40.11	7B	1M	View
Franklin	Laborers		\$39.56	7B	1M	View

		Remote Equipment Operator (i.e. Compaction And Demolition)					
Franklin	Laborers	Rigger/signal Person	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Riprap Person	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Rodder & Spreader	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Sandblast Tailhoesman	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Scaffold Erector, Wood Or Steel	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Stake Jumper	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Structural Mover	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Tailhoesman (water Nozzle)	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Timber Bucker & Faller (by Hand)	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Track Laborer (rr)	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Traffic Control Laborer	\$37.19	<u>7B</u>	<u>1M</u>	<u>8T</u>	View
Franklin	Laborers	Traffic Control Supervisor	\$38.19	<u>7B</u>	<u>1M</u>	<u>8S</u>	View
Franklin	Laborers	Trencher, Shawnee	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Trenchless Technology Technician	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Truck Loader	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Tugger Operator	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Vibrators, All	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Wagon Drills	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Water Pipe Liner	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Welder, Electric, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	\$40.11	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Well-point Person	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers	Wheelbarrow, Power Driven	\$39.56	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers - Underground Sewer & Water	General Laborer & Topman	\$39.29	<u>7B</u>	<u>1M</u>		View
Franklin	Laborers - Underground Sewer & Water	Pipe Layer	\$39.83	<u>7B</u>	<u>1M</u>		View
Franklin	Landscape Construction	Landscape Laborer	\$37.19	<u>7B</u>	<u>1M</u>	<u>8T</u>	View
Franklin	Landscape Construction	Landscape Operator	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Landscape Maintenance	Groundskeeper	\$15.09		<u>1</u>		View
Franklin	Lathers	Journey Level	\$45.11	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Marble Setters	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>		View
Franklin	Metal Fabrication (In Shop)	Fitter	\$12.76		<u>1</u>		View
Franklin	Metal Fabrication (In Shop)	Laborer	\$12.00		<u>1</u>		View
Franklin	Metal Fabrication (In Shop)	Machine Operator	\$12.66		<u>1</u>		View
Franklin	Metal Fabrication (In Shop)	Painter	\$12.00		<u>1</u>		View
Franklin	Metal Fabrication (In Shop)	Welder	\$12.76		<u>1</u>		View
Franklin	Millwright	Journey Level	\$64.25	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Modular Buildings	Journey Level	\$12.00		<u>1</u>		View
Franklin	Painters	Journey Level	\$34.65	<u>6Z</u>	<u>1W</u>		View
Franklin	Pile Driver	Journey Level	\$46.24	<u>5A</u>	<u>1B</u>	<u>8N</u>	View
Franklin	Plasterers	Journey Level	\$42.88	<u>7K</u>	<u>1N</u>		View
Franklin	Playground & Park Equipment Installers	Journey Level	\$12.00		<u>1</u>		View

Franklin	Plumbers & Pipefitters	Journey Level	\$80.93	6Z	1Q		View
Franklin	Power Equipment Operators	A-frame Truck (2 Or More Drums)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	A-frame Truck (single Drum)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Asphalt Plant Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Assistant Refrigeration Plant (under 1000 Ton)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Automatic Subgrader (ditches & Trimmers)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Backfillers (cleveland & Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoe & Hoe Ram (under 3/4 Yd.)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoe (45,000 Gw & Under)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoe (45,000 Gw To 110,000 Gw)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoe (over 110,000 Gw)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoes & Hoe Ram (3 Yds & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Bagley Or Stationary Scraper	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Batch Plant & Wet Mix Operator, Single Unit (concrete)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Batch Plant (over 4 Units)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Belt Finishing Machine	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Belt Loader (kocal Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Belt-crete Conveyors With Power Pack Or Similar	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Bending Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Bit Grinders	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Blade Operator (motor Patrol & Attachments)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Blower Operator (cement)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Boat Operator	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Bob Cat (skid Steer)	\$44.39	7B	1M	8D	View

Franklin	Power Equipment Operators	Bolt Threading Machine	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Boom Cats (side)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Boring Machine (earth)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Bump Cutter (wayne, Saginaw Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Cableway Controller (dispatcher)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Cableway Operators	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Canal Lining Machine (concrete)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Carrydeck & Boom Truck (under 25 Tons)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Cement Hog	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Chipper (without Crane) Cleaning & Doping Machine (pipeline)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Clamshell, Dragline	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators	Compactor (self-propelled With Blade)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Concrete Cleaning / Decontamination Machine Operator	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Concrete Pump Boon Truck	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Concrete Saw (multiple Cut)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Concrete Slip Form Paver	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Conveyor Aggregate Delivery Systems (c.a.d.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Crane Oiler- Driver (cdl Required) & Cable Tender, Mucking Machine	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Cranes (25 Tons To And Including 45 Tons), All Attachments Incl. Clamshell, Dragline	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Cranes (45 Tons To 85 Tons), All Attachments Incl. Clamshell And Dragline	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Cranes (85 Tons & Over) And All Climbing,	\$46.36	7B	1M	8D	View

		Overhead, Rail & Tower. All Attachments Incl.					
Franklin	Power Equipment Operators	Crusher Feeder	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Crusher, Grizzle & Screening Plant Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Curb Extruder (asphalt Or Concrete)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Deck Engineer	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Deck Hand	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Derricks & Stifflegs (65 Tons & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Derricks & Stifflegs (under 65 Tons)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Distributor Leverman	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Ditch Witch Or Similar	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Dope Pots (power Agitated)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Dozer / Tractor (up To D-6 Or Equivalent) And Traxcavator	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Dozer / Tractors (d-6 & Equivalent & Over)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Dozer, 834 R/t & Similar	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Drill Doctor	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Driller Licensed	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators	Drillers Helper	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Drills (churn, Core, Calyx Or Diamond)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Elevating Belt (holland Type)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Elevating Belt-type Loader (euclid, Barber Green & Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Elevating Grader-type Loader (dumor, Adams Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Elevator Hoisting Materials	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Equipment Serviceman, Greaser & Oiler	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Fireman & Heater Tender	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Fork Lift Or Lumber Stacker, Hydra-life & Similar	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Generator Plant Engineers (diesel Or Electric)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Gin Trucks (pipeline)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Grade Checker	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Gunite Combination Mixer & Compressor	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	H.d. Mechanic	\$45.26	7B	1M	8D	View

Franklin	Power Equipment Operators	H.d. Welder	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Heavy Equipment Robotics Operator	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Helicopter Pilot	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators	Helper, Mechanic Or Welder, H.D	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Hoe Ram	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Hoist (2 Or More Drums Or Tower Hoist)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Hoist, Single Drum	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Hydro-seeder, Mulcher, Nozzleman	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Lime Batch Tank Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Lime Brain Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Loaders (bucket Elevators And Conveyors)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Loaders (overhead & Front-end, Over 8 Yds. To 10 Yds.)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Loaders (overhead And Front-end, 10 Yds. & Over)	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators	Locomotive Engineer	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Longitudinal Float	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Master Environmental Maintenance Technician	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Mixer (portable - Concrete)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Mixermobile	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Mobile Crusher Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Mucking Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Multiple Dozer Units With Single Blade	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Pavement Breaker, Hydra-hammer & Similar	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Paving (dual Drum)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Paving Machine (asphalt And Concrete)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Piledriving Engineers	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Plant Oiler	\$43.46	7B	1M	8D	View

Franklin	Power Equipment Operators	Posthole Auger Or Punch	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Power Broom	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Pump (grout Or Jet)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Pumpman	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Quad-track Or Similar Equipment	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Railroad Ballast Regulation Operator (self-propelled)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Railroad Power Tamper Operator (self-propelled)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Railroad Tamper Jack Operator (self-propelled)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Railroad Track Liner Operator (self-propelled)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Refrigeration Plant Engineer (1000 Tons & Over)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Refrigeration Plant Engineer (under 1000 Ton)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Rollerman (finishing Asphalt Pavement)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar, or Compacting Vibrator), Except When Pulled B	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Roto Mill (pavement Grinder)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Rotomill Groundsman	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Rubber-tired Skidders (r/t With Or Without Attachments)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Scrapers, All, Rubber-tired	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Screed Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Shovels (3 Yds. & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Shovels (under 3 Yds.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Signalman (whirleys, Highline, Hammerheads Or Similar)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators	Soil Stabilizer (p & H Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Spray Curing Machine (concrete)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Spreader Box (self-propelled)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Spreader Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Steam Cleaner	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators		\$43.78	7B	1M	8D	View

		Straddle Buggy (ross & Similar On Construction Job Only)					
Franklin	Power Equipment Operators	Surface Heater & Planer Machine	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Tractor (farm Type R/t With Attachments, Except Backhoe)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Traverse Finish Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Trenching Machines (7 Ft. Depth & Over)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Trenching Machines (under 7 Ft. Depth Capacity)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Tug Boat Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Tugger Operator	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators	Turnhead (with Re-screening)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Turnhead Operator	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators	Ultra High Pressure Waterjet Cutting Tool System Operator, (30,000 Psi)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Vactor Guzzler, Super Sucker	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators	Vacuum Blasting Machine Operator	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators	Vacuum Drill (reverse Circulation Drill Under 8" Bit)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators	Welding Machine	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators	Whirleys & Hammerheads, All	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	A-frame Truck (2 Or More Drums)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	A-frame Truck (single Drum)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Assistant Refrigeration Plant (under 1000 Ton)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Automatic Subgrader (ditches & Trimmers)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backfillers (cleveland & Similar)	\$44.39	7B	1M	8D	View

Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoe & Hoe Ram (under 3/4 Yd.)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoe (45,000 Gw & Under)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoe (45,000 Gw To 110,000 Gw)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoe (over 110,000 Gw)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoes & Hoe Ram (3 Yds & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Bagley Or Stationary Scraper	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Batch Plant & Wet Mix Operator, Single Unit (concrete)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Batch Plant (over 4 Units)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Belt Finishing Machine	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Belt Loader (kocal Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Belt-crete Conveyors With Power Pack Or Similar	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Bending Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Bit Grinders	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Blade Operator (motor Patrol & Attachments)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Blower Operator (cement)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Boat Operator	\$43.46	7B	1M	8D	View

Franklin	Power Equipment Operators- Underground Sewer & Water	Bob Cat (skid Steer)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Bolt Threading Machine	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Boom Cats (side)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Boring Machine (earth)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Bump Cutter (wayne, Saginaw Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cableway Controller (dispatcher)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cableway Operators	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Canal Lining Machine (concrete)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Carrydeck & Boom Truck (under 25 Tons)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cement Hog	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Chipper (without Crane) Cleaning & Doping Machine (pipeline)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Clamshell, Dragline	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Compactor (self-propelled With Blade)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Concrete Cleaning / Decontamination Machine Operator	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Concrete Pump Boon Truck	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	\$44.55	7B	1M	8D	View
Franklin		Concrete Saw (multiple Cut)	\$43.78	7B	1M	8D	View

	Power Equipment Operators- Underground Sewer & Water						
Franklin	Power Equipment Operators- Underground Sewer & Water	Concrete Slip Form Paver	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Conveyor Aggregate Delivery Systems (c.a.d.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Crane Oiler- Driver (cdl Required) & Cable Tender, Mucking Machine	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cranes (25 Tons To And Including 45 Tons), All Attachments Incl. Clamshell, Dragline	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cranes (45 Tons To 85 Tons), All Attachments Incl. Clamshell And Dragline	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Cranes (85 Tons & Over) And All Climbing, Overhead, Rail & Tower. All Attachments Incl.	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Crusher Feeder	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Crusher, Grizzle & Screening Plant Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Curb Extruder (asphalt Or Concrete)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Deck Engineer	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Deck Hand	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Derricks & Stifflegs (65 Tons & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Derricks & Stifflegs (under 65 Tons)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Distributor Leverman	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Ditch Witch Or Similar	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Dope Pots (power Agitated)	\$43.78	7B	1M	8D	View
Franklin			\$44.39	7B	1M	8D	View

	Power Equipment Operators- Underground Sewer & Water	Dozer / Tractor (up To D-6 Or Equivalent) And Traxcavator					
Franklin	Power Equipment Operators- Underground Sewer & Water	Dozer / Tractors (d-6 & Equivalent & Over)	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Dozer, 834 R/t & Similar	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Drill Doctor	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Driller Licensed	\$46.36	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Drillers Helper	\$43.46	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	\$44.71	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Drills (churn, Core, Calyx Or Diamond)	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Elevating Belt (holland Type)	\$45.26	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Elevating Belt-type Loader (euclid, Barber Green & Similar)	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Elevating Grader-type Loader (dumor, Adams Or Similar)	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Elevator Hoisting Materials	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Equipment Serviceman, Greaser & Oiler	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Fireman & Heater Tender	\$43.46	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Fork Lift Or Lumber Stacker, Hydra-life & Similar	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Generator Plant Engineers (diesel Or Electric)	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Gin Trucks (pipeline)	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Grade Checker	\$44.71	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Gunite Combination Mixer & Compressor	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin		H.d. Mechanic	\$45.26	<u>7B</u>	<u>1M</u>	<u>8D</u>	View

	Power Equipment Operators- Underground Sewer & Water						
Franklin	Power Equipment Operators- Underground Sewer & Water	H.d. Welder	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Heavy Equipment Robotics Operator	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Helicopter Pilot	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Helper, Mechanic Or Welder, H.D	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Hoe Ram	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Hoist (2 Or More Drums Or Tower Hoist)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Hoist, Single Drum	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Hydro-seeder, Mulcher, Nozzleman	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Lime Batch Tank Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Lime Brain Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loaders (bucket Elevators And Conveyors)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loaders (overhead & Front-end, Over 8 Yds. To 10 Yds.)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Loaders (overhead And Front-end, 10 Yds. & Over)	\$46.36	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Locomotive Engineer	\$44.39	7B	1M	8D	View
Franklin		Longitudinal Float	\$43.78	7B	1M	8D	View

	Power Equipment Operators- Underground Sewer & Water						
Franklin	Power Equipment Operators- Underground Sewer & Water	Master Environmental Maintenance Technician	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Mixer (portable - Concrete)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Mixermobile	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Mobile Crusher Operator (recycle Train)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Mucking Machine	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Multiple Dozer Units With Single Blade	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker, Hydra-hammer & Similar	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Paving (dual Drum)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Paving Machine (asphalt And Concrete)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Piledriving Engineers	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Plant Oiler	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Posthole Auger Or Punch	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Power Broom	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Pump (grout Or Jet)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Pumpman	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Quad-track Or Similar Equipment	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Railroad Ballast Regulation Operator (self-propelled)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Railroad Power Tamper Operator (self-propelled)	\$43.78	7B	1M	8D	View
Franklin		Railroad Tamper Jack Operator (self-propelled)	\$43.78	7B	1M	8D	View

	Power Equipment Operators- Underground Sewer & Water						
Franklin	Power Equipment Operators- Underground Sewer & Water	Railroad Track Liner Operator (self-propelled)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Refrigeration Plant Engineer (1000 Tons & Over)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Refrigeration Plant Engineer (under 1000 Ton)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Rollerman (finishing Asphalt Pavement)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar, or Compacting Vibrator), Except When Pulled B	\$43.46	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Roto Mill (pavement Grinder)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Rotomill Groundsman	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Rubber-tired Skidders (r/t With Or Without Attachments)	\$44.55	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Scrapers, All, Rubber-tired	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Screed Operator	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Shovels (3 Yds. & Over)	\$45.26	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Shovels (under 3 Yds.)	\$44.99	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Signalman (whirleys, Highline, Hammerheads Or Similar)	\$44.71	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Soil Stabilizer (p & H Or Similar)	\$44.39	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Spray Curing Machine (concrete)	\$43.78	7B	1M	8D	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Spreader Box (self-propelled)	\$43.78	7B	1M	8D	View
Franklin		Spreader Machine	\$44.39	7B	1M	8D	View

	Power Equipment Operators- Underground Sewer & Water						
Franklin	Power Equipment Operators- Underground Sewer & Water	Steam Cleaner	\$43.46	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Straddle Buggy (ross & Similar On Construction Job Only)	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Surface Heater & Planer Machine	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Tractor (farm Type R/t With Attachments, Except Backhoe)	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Traverse Finish Machine	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Trenching Machines (7 Ft. Depth & Over)	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Trenching Machines (under 7 Ft. Depth Capacity)	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Tug Boat Operator	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Tugger Operator	\$43.78	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Turnhead (with Re-screening)	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Turnhead Operator	\$44.39	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Ultra High Pressure Waterjet Cutting Tool System Operator, (30,000 Psi)	\$45.26	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Vactor Guzzler, Super Sucker	\$44.99	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Vacuum Blasting Machine Operator	\$45.26	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Vacuum Drill (reverse Circulation Drill Under 8" Bit)	\$44.55	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Welding Machine	\$43.46	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Equipment Operators- Underground Sewer & Water	Whirleys & Hammerheads, All	\$45.26	<u>7B</u>	<u>1M</u>	<u>8D</u>	View
Franklin	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$49.96	<u>5A</u>	<u>4A</u>		View
Franklin	Power Line Clearance Tree Trimmers	Spray Person	\$47.37	<u>5A</u>	<u>4A</u>		View

Franklin	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$49.96	<u>5A</u>	<u>4A</u>		View
Franklin	Power Line Clearance Tree Trimmers	Tree Trimmer	\$44.57	<u>5A</u>	<u>4A</u>		View
Franklin	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$33.60	<u>5A</u>	<u>4A</u>		View
Franklin	Refrigeration & Air Conditioning Mechanics	Journey Level	\$80.93	<u>6Z</u>	<u>1Q</u>		View
Franklin	Residential Brick Mason	Journey Level	\$28.42		<u>1</u>		View
Franklin	Residential Carpenters	Journey Level	\$21.60		<u>1</u>		View
Franklin	Residential Cement Masons	Journey Level	\$43.20	<u>7B</u>	<u>1N</u>		View
Franklin	Residential Drywall Applicators	Journey Level	\$20.46		<u>1</u>		View
Franklin	Residential Drywall Tapers	Journey Level	\$19.32		<u>1</u>		View
Franklin	Residential Electricians	Journey Level	\$22.73		<u>1</u>		View
Franklin	Residential Glaziers	Journey Level	\$23.10		<u>1</u>		View
Franklin	Residential Insulation Applicators	Journey Level	\$14.86		<u>1</u>		View
Franklin	Residential Laborers	Journey Level	\$13.64		<u>1</u>		View
Franklin	Residential Marble Setters	Journey Level	\$28.42		<u>1</u>		View
Franklin	Residential Painters	Journey Level	\$13.17		<u>1</u>		View
Franklin	Residential Plumbers & Pipefitters	Journey Level	\$29.71		<u>1</u>		View
Franklin	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$13.07		<u>1</u>		View
Franklin	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$44.14	<u>5A</u>	<u>1X</u>		View
Franklin	Residential Soft Floor Layers	Journey Level	\$23.11	<u>5A</u>	<u>1N</u>		View
Franklin	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$13.07		<u>1</u>		View
Franklin	Residential Stone Masons	Journey Level	\$28.42		<u>1</u>		View
Franklin	Residential Terrazzo Workers	Journey Level	\$14.86		<u>1</u>		View
Franklin	Residential Terrazzo/Tile Finishers	Journey Level	\$14.86		<u>1</u>		View
Franklin	Residential Tile Setters	Journey Level	\$19.23		<u>1</u>		View
Franklin	Roofers	Irritable Bituminous Roofer	\$43.21	<u>7G</u>	<u>4I</u>		View
Franklin	Roofers	Journeyman Roofer, Waterproofing, Kettleman	\$40.21	<u>7G</u>	<u>4I</u>		View
Franklin	Sheet Metal Workers	Journey Level (Field or Shop)	\$60.31	<u>5A</u>	<u>1X</u>		View
Franklin	Sign Makers & Installers (Electrical)	Journey Level	\$14.65		<u>1</u>		View
Franklin	Sign Makers & Installers (Non-Electrical)	Journey Level	\$14.65		<u>1</u>		View
Franklin	Soft Floor Layers	Journey Level	\$23.11	<u>5A</u>	<u>1N</u>		View
Franklin	Solar Controls For Windows	Journey Level	\$12.00		<u>1</u>		View
Franklin	Sprinkler Fitters (Fire Protection)	Journey Level	\$56.82	<u>7J</u>	<u>1R</u>		View
Franklin	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>		View
Franklin	Stone Masons	Journey Level	\$49.04	<u>5A</u>	<u>1M</u>		View

Franklin	Street And Parking Lot Sweeper Workers	Journey Level	\$14.00		<u>1</u>		View
Franklin	Surveyors	All Classifications	\$23.49	<u>0</u>	<u>1</u>		View
Franklin	Telecommunication Technicians	Journey Level	\$41.22	<u>5I</u>	<u>1B</u>		View
Franklin	Telephone Line Construction - Outside	Cable Splicer	\$41.22	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.12	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Installer (Repairer)	\$39.53	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.22	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.41	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.22	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$38.36	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Telephone Lineperson	\$38.36	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Television Groundperson	\$21.92	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.13	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Television System Technician	\$34.68	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Television Technician	\$31.18	<u>5A</u>	<u>2B</u>		View
Franklin	Telephone Line Construction - Outside	Tree Trimmer	\$38.36	<u>5A</u>	<u>2B</u>		View
Franklin	Terrazzo Workers	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>		View
Franklin	Tile Setters	Journey Level	\$42.21	<u>5A</u>	<u>1M</u>		View
Franklin	Tile, Marble & Terrazzo Finishers	Journey Level	\$34.33	<u>5A</u>	<u>1M</u>		View
Franklin	Traffic Control Stripers	Journey Level	\$46.23	<u>7A</u>	<u>1K</u>		View
Franklin	Truck Drivers	Asphalt Mix Over 20 Yards	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers	Asphalt Mix To 20 Yards	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers	Dump Truck	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers	Dump Truck & Trailer	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers	Other Trucks	\$46.53	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers - Ready Mix	Transit Mixers 3 yards to include 6 yards	\$46.20	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers - Ready Mix	Transit Mixers over 10 yards to include 20 yards	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers - Ready Mix	Transit Mixers over 20 yards	\$47.18	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Truck Drivers - Ready Mix	Transit Mixers over 6 yards to include 10 yards	\$46.64	<u>5D</u>	<u>1V</u>	<u>8M</u>	View
Franklin	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$18.45		<u>1</u>		View
Franklin	Well Drillers & Irrigation Pump Installers	Oiler	\$12.00		<u>1</u>		View
Franklin	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.00		<u>1</u>		View

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.

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.

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.

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).

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.

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.

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.)

Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's
Predetermined List for
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

ITEM DESCRIPTION	YES	NO
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		X
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		X
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		X
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		X
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		X
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		X
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		X

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contract Plans for item description and shop drawings.	X	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		X
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		X
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		X
22. Vault Risers - For use with Valve Vaults and Utilities X Vaults.		X
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.,) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

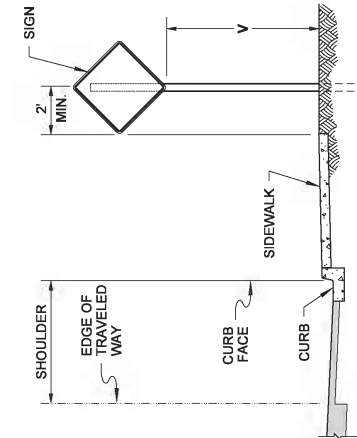
(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

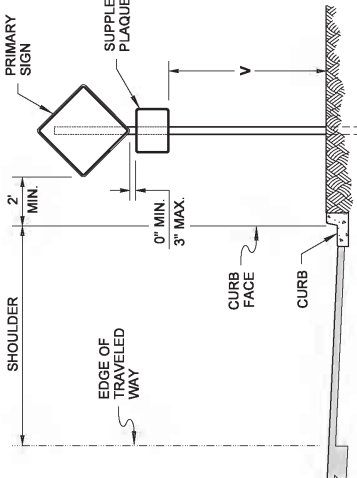
STANDARD PLANS

NOTES

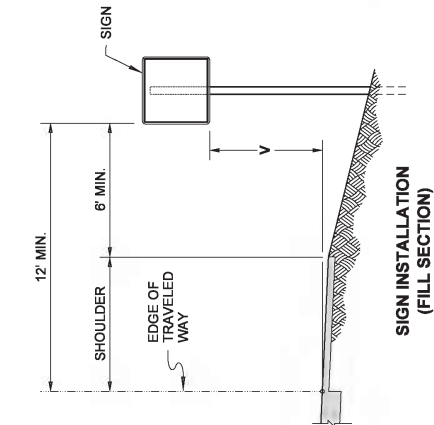
1. For sign installation details, see **Standard Plan G - series**.
2. Where it is impractical to locate a sign with the lateral offset, a minimum of 2'(ft) offset may be used. A 1'(ft) lateral offset may be used in business, commercial or residential areas.
3. The "V" height for signs, with an area of more than 50 square feet and two or more sign supports, is 7 feet in both rural and urban areas.



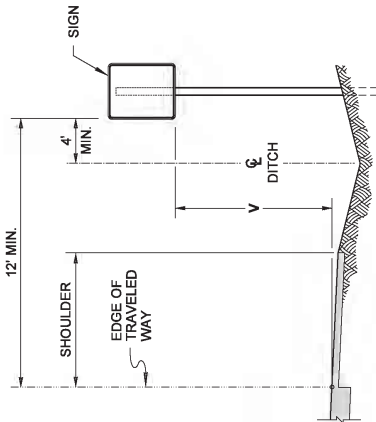
**SIGN INSTALLATION
(SIDEWALK AND CURB SECTION)**



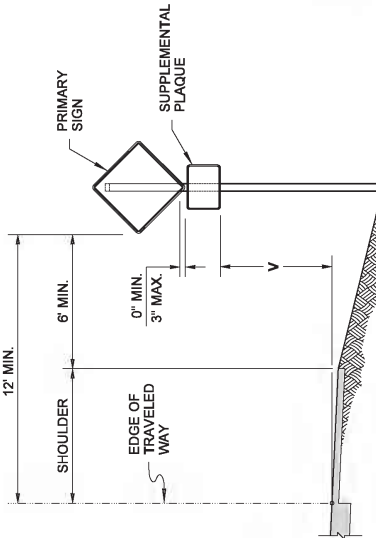
**SIGN INSTALLATION
(CURB SECTION)**



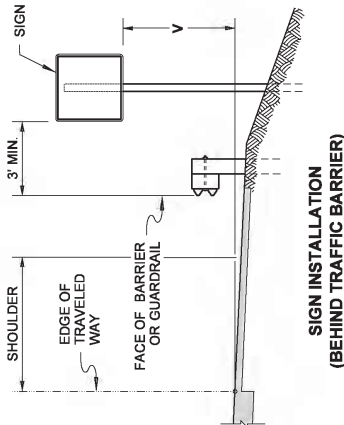
**SIGN INSTALLATION
(FILL SECTION)**



**SIGN INSTALLATION
(DITCH SECTION)**



**SIGN WITH SUPPLEMENTAL
PLAQUE INSTALLATION
(FILL SECTION)**



**SIGN INSTALLATION
(BEHIND TRAFFIC BARRIER)**

HEIGHT V	
TO BOTTOM OF SIGN (NO SUPPLEMENTAL PLAQUE)	TO BOTTOM OF SUPPLEMENTAL PLAQUE (WHEN REQUIRED)
RURAL 5' MINIMUM	4' MINIMUM
URBAN 7' MINIMUM	6' MINIMUM

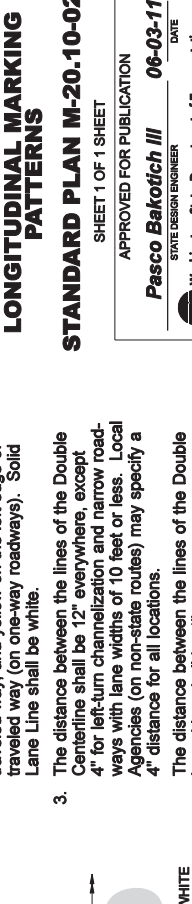
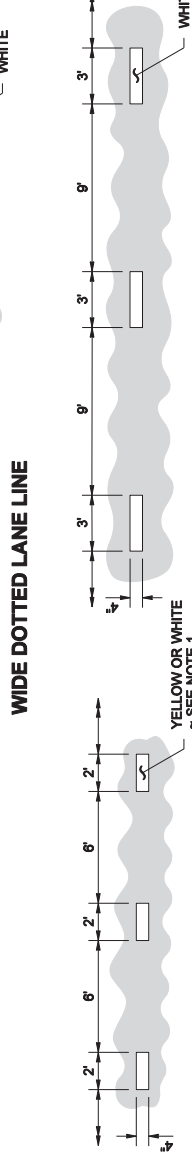
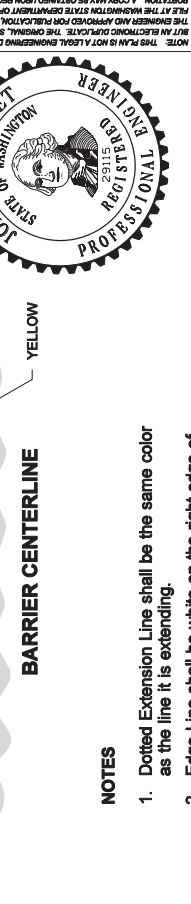
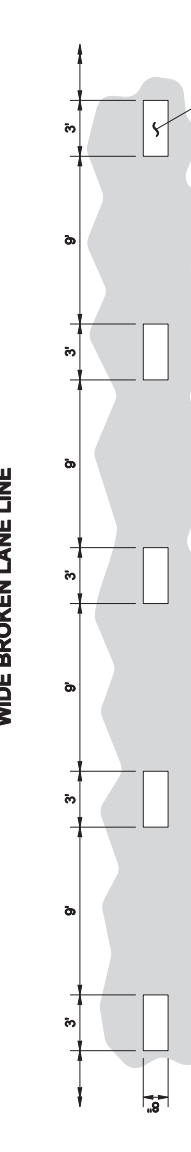
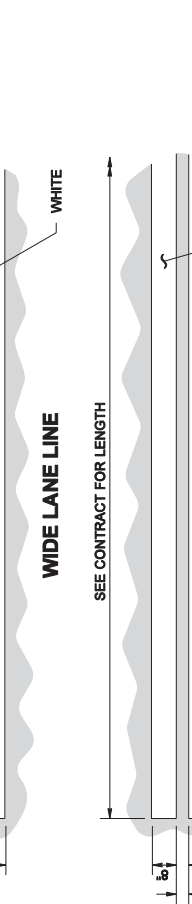
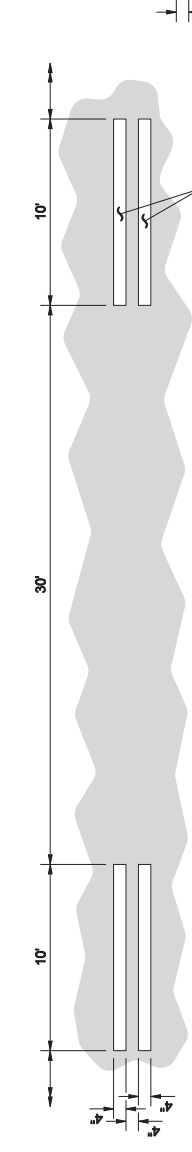
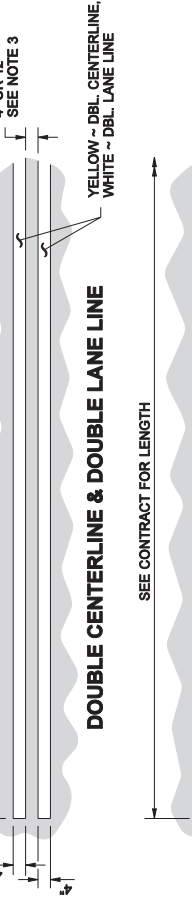
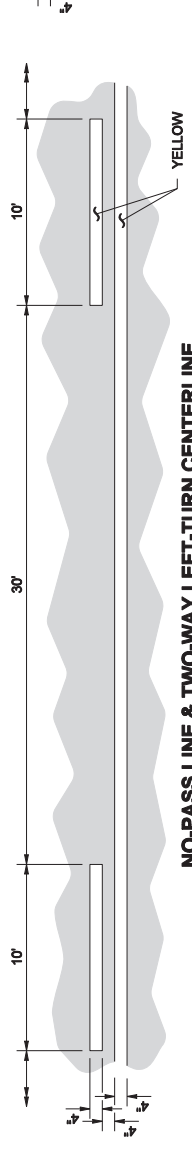
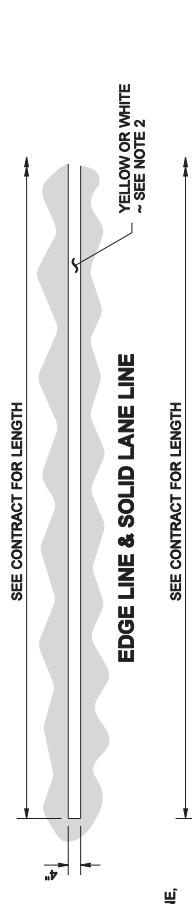
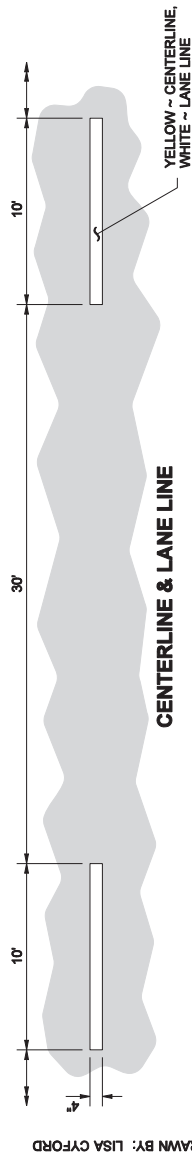


Nisbet, John
Nisbet, John
May 16 2016 9:57 AM

**CLASS A
CONSTRUCTION SIGNING
INSTALLATION
STANDARD PLAN K-80.10-01**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Carpenter, Jeff
Jan 1 2016 4:20 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



NOTES

1. Dotted Extension Line shall be the same color as the line it is extending.
2. Edge Line shall be white on the right edge of traveled way, and yellow on the left edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
3. The distance between the lines of the Double Centerline shall be 12" everywhere, except 4" for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4' distance for all locations. The distance between the lines of the Double Lane Line shall be 4".



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT. IT IS AN ILLUSTRATION. ANY CHANGES TO THE ORIGINAL SHALL BE MADE BY THE ENGINEER AND APPROVED FOR PUBLICATION. THE ORIGINAL SHALL BE KEPT AT THE ENGINEER'S OFFICE. A COPY MAY BE OBTAINED UPON REQUEST.

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-02

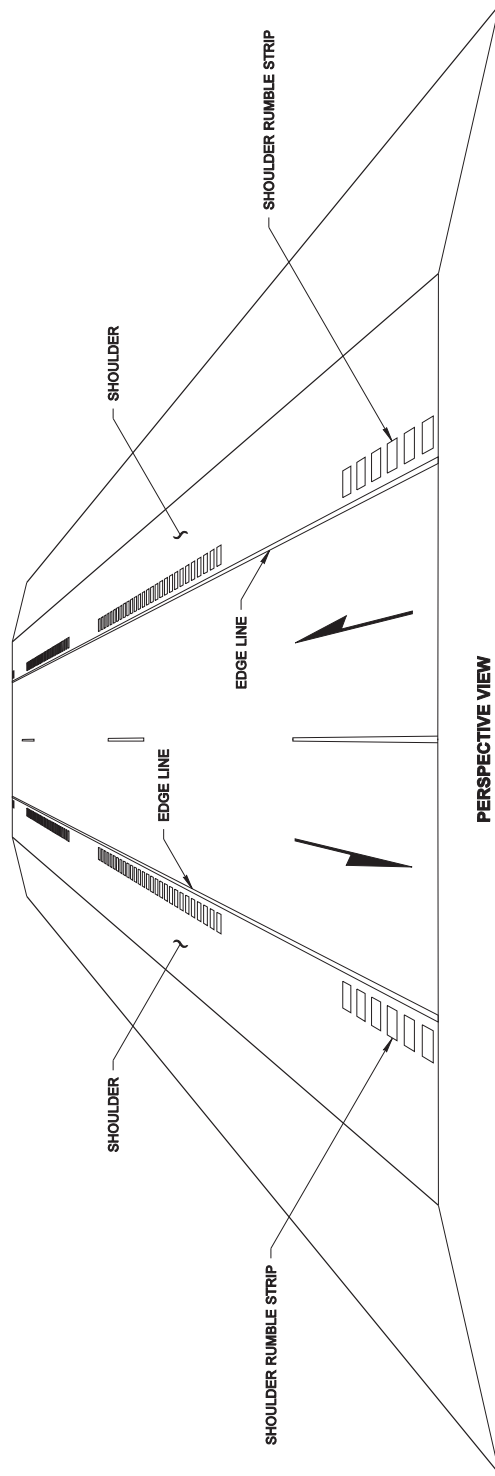
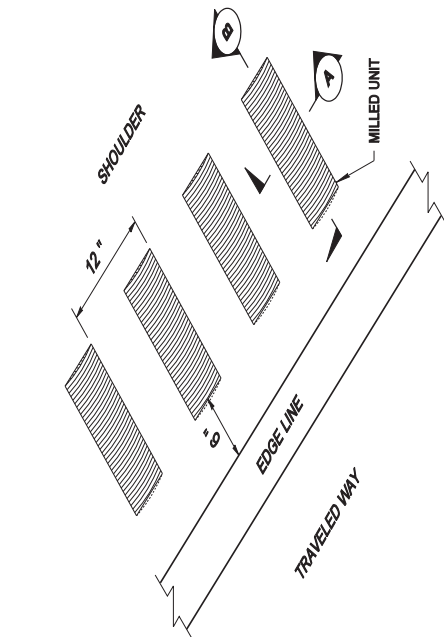
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakofich III 06-03-11

STATE DESIGN ENGINEER

Washington State Department of Transportation



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**SHOULDER RUMBLE STRIP
FOR TYPES 2, 3, AND 4
FOR UNDIVIDED HIGHWAYS
STANDARD PLAN M-60.20-02**

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakofich III 06-27-11

STATE DESIGN ENGINEER

Washington State Department of Transportation

48 MILLED UNITS 12' OR 16' GAP 48 MILLED UNITS EDGE OF PAVED SHOULDER ~ EPS

EDGE LINE

SHOULDER RUMBLE STRIPS

EDGE LINE

EPS

TYPE 2 ~ 12' GAP AND 12" WIDE STRIP
TYPE 3 ~ 16' GAP AND 16" WIDE STRIP

28 MILLED UNITS 12' GAP 28 MILLED UNITS 12' GAP 28 MILLED UNITS EDGE OF PAVED SHOULDER ~ EPS

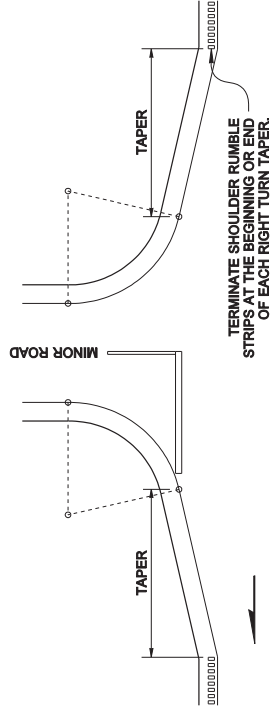
EDGE LINE

SHOULDER RUMBLE STRIPS

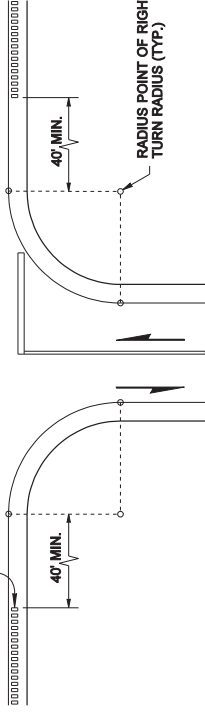
EDGE LINE

EPS

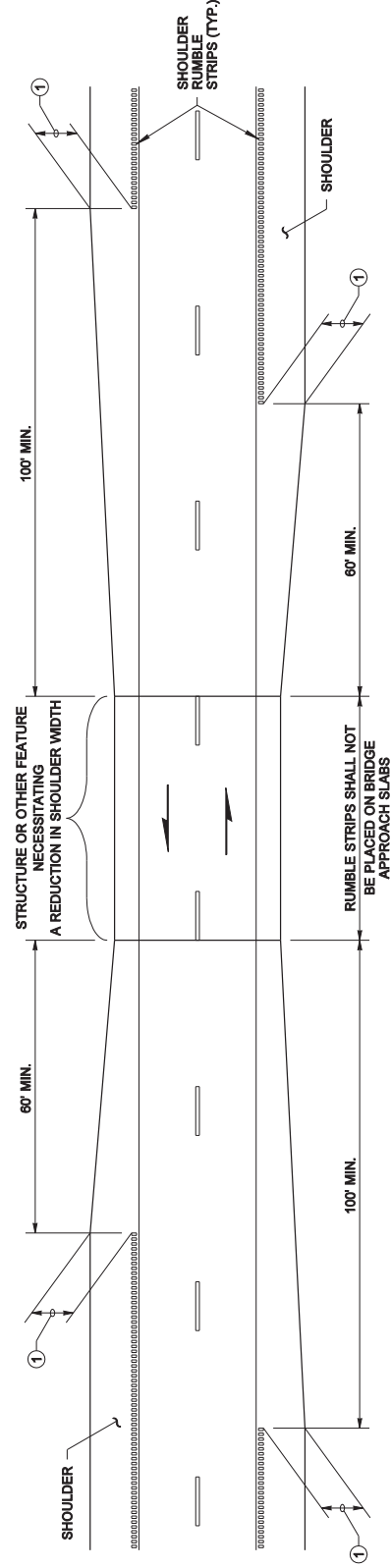
TYPE 4 ~ 12" WIDE STRIP



TERMINATE SHOULDER RUMBLE STRIPS 40' MINIMUM FROM THE BEGINNING OR END OF EACH RIGHT TURN RADIUS.



RUMBLE STRIP PLACEMENT AT INTERSECTIONS



① NOT LESS THAN 4' ~ PROVIDE 5' WHEN BARRIER OR GUARDRAIL IS PLACED AT EDGE OF SHOULDER

SHOULDER TAPER DETAIL



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SHOULDER RUMBLE STRIP TYPES 2, 3, AND 4 FOR UNDIVIDED HIGHWAYS STANDARD PLAN M-60.20-02

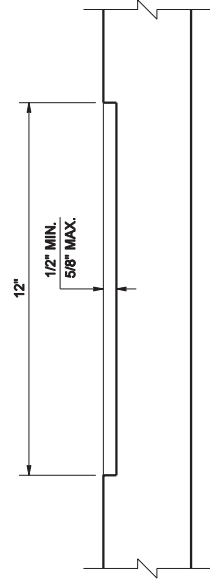
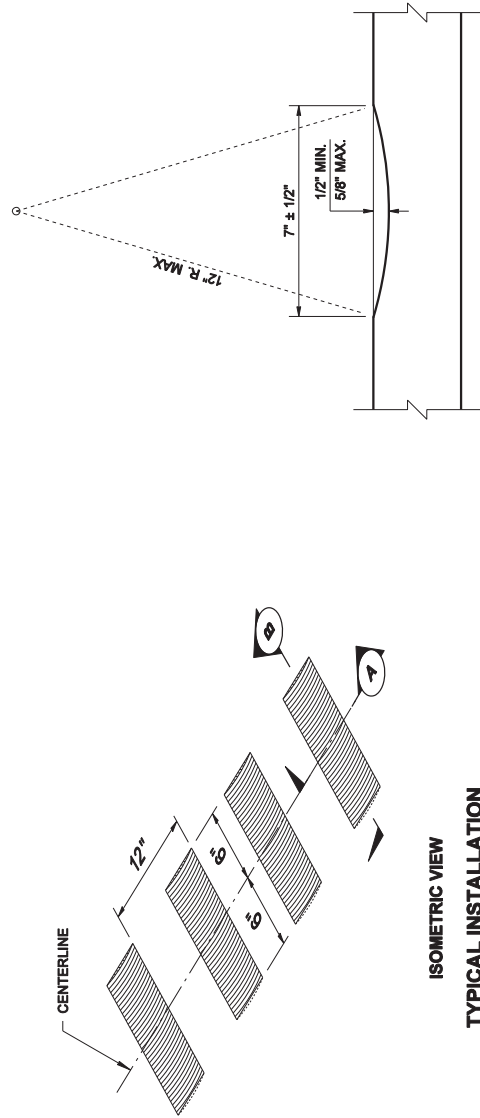
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

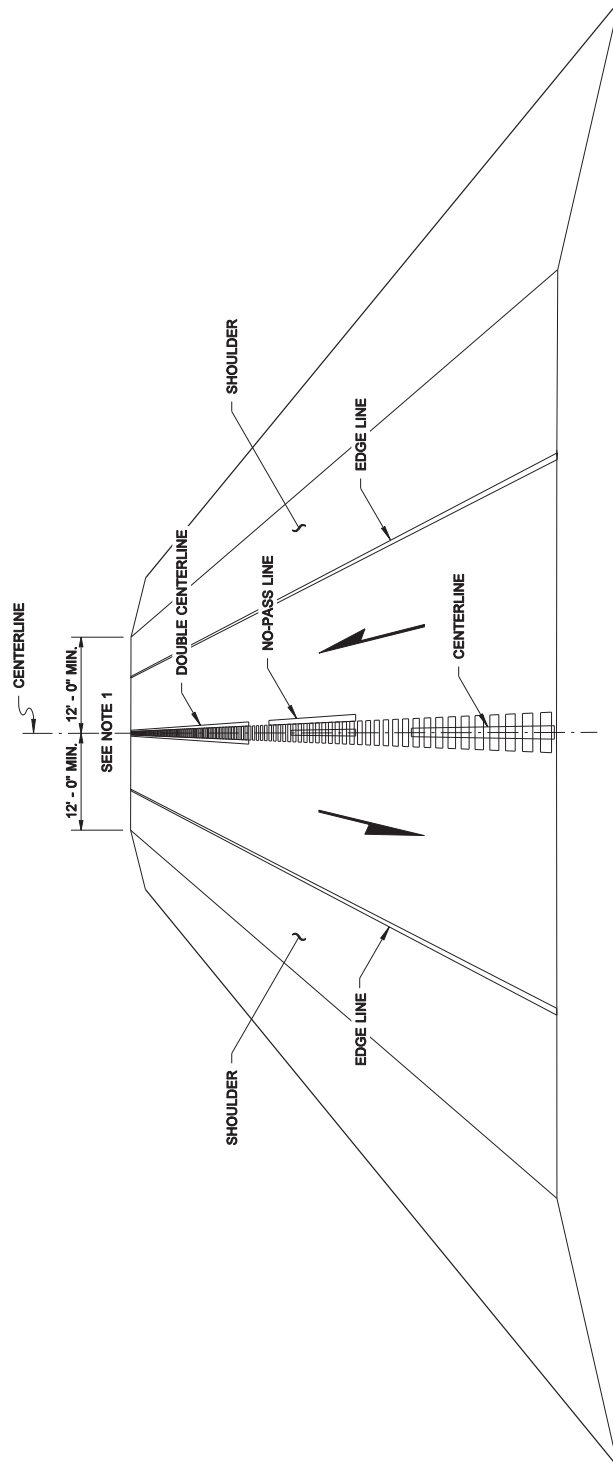
Pasco Bakofich III 06-27-11
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

NOTES

1. Centerline Rumble Strip installation requires a minimum distance of 12 feet from Centerline to edge of paved shoulder.
2. When directed by the Engineer, Rumble Strips may be installed along the turn pocket taper where there is a history of rear-end collisions in the turn pocket.



SECTION A



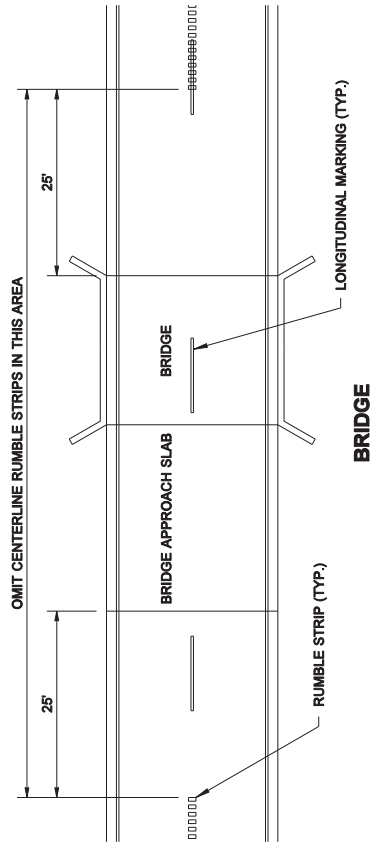
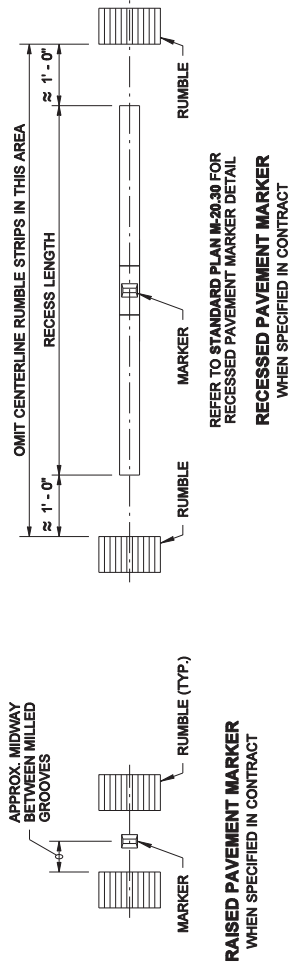
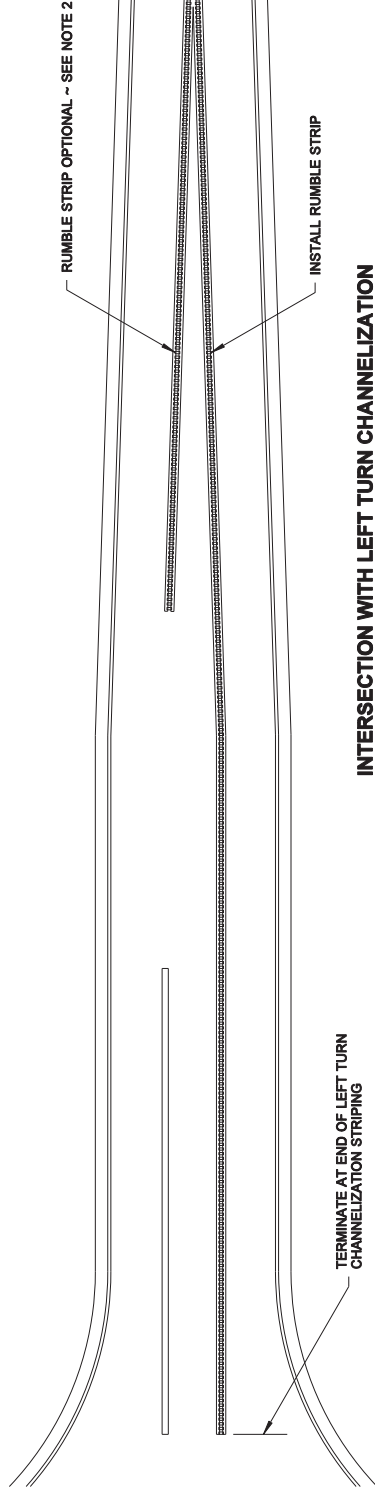
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CENTERLINE
RUMBLE STRIP
STANDARD PLAN M-65.10-02

SHEET 1 OF 2 SHEETS

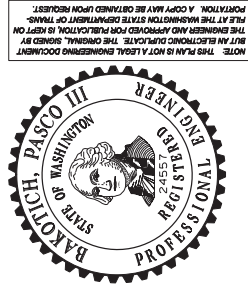
APPROVED FOR PUBLICATION

Pasco Bakotich III
STATE DESIGN ENGINEER
DATE 05-11-11
Washington State Department of Transportation

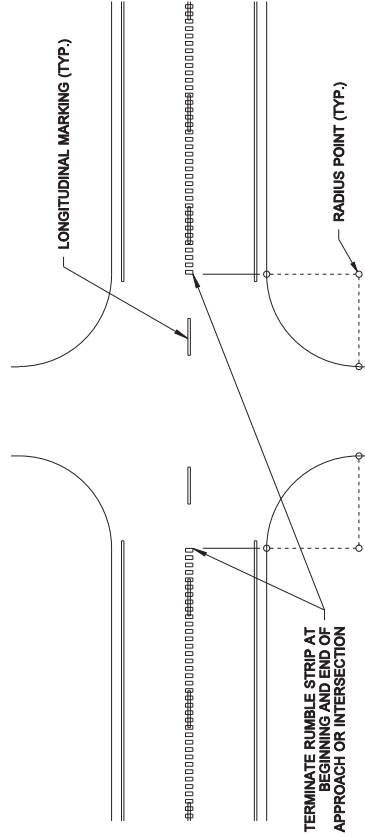
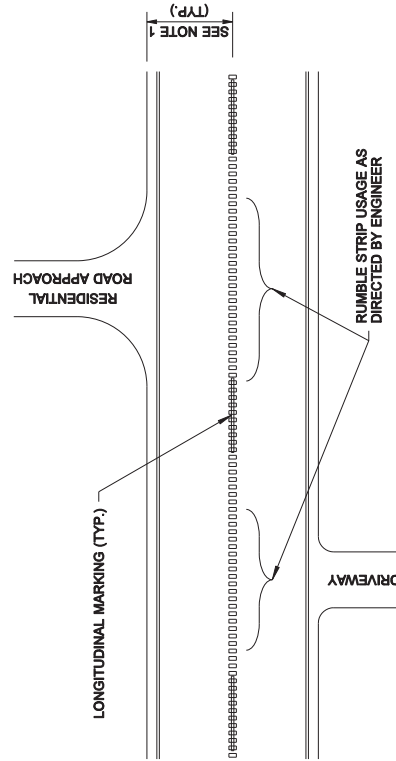


RAISED PAVEMENT MARKER

WHEN SPECIFIED IN CONTRACT



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CENTERLINE RUMBLE STRIP

STANDARD PLAN M-65.10-02

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III 05-11-11

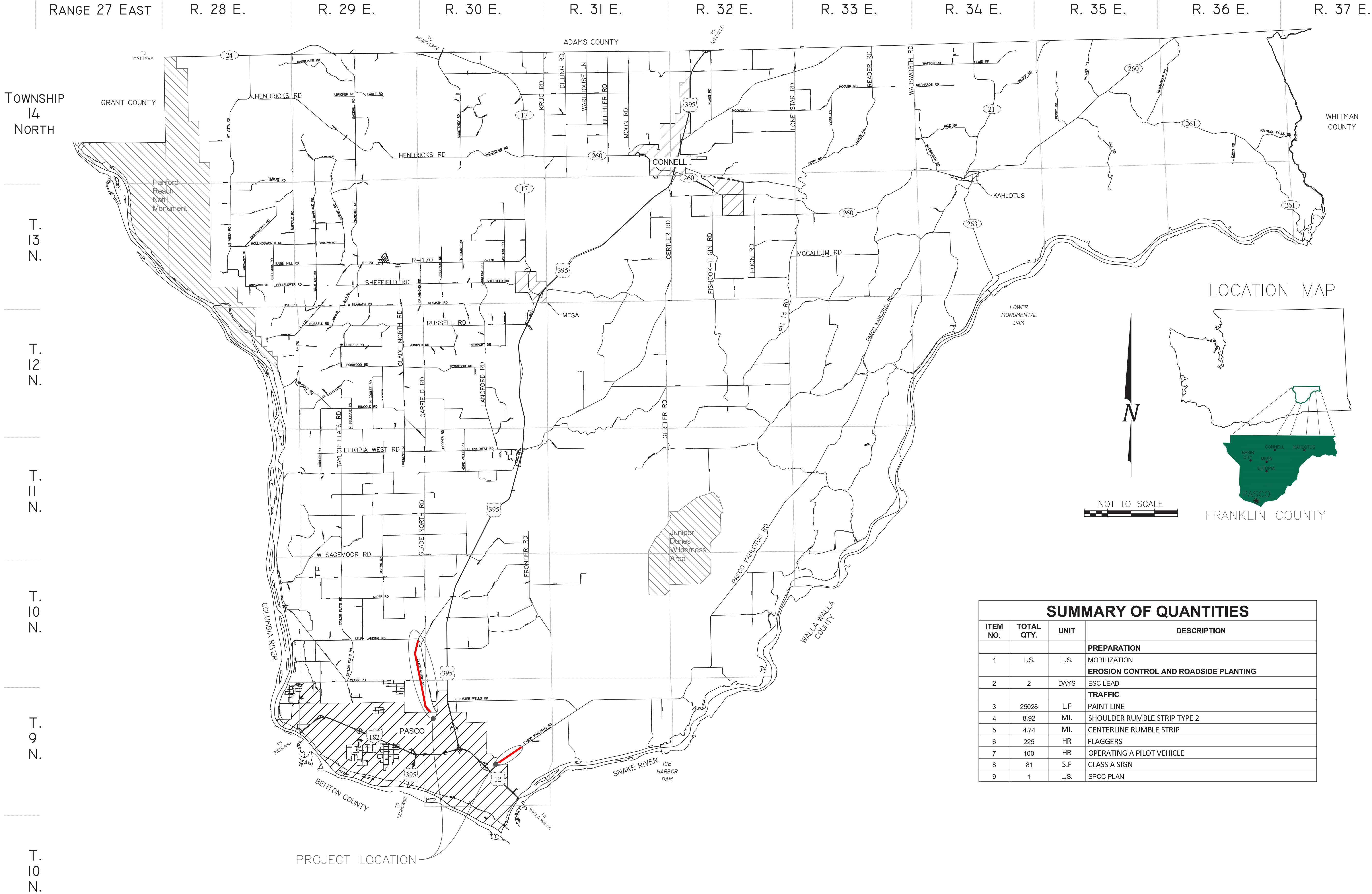
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

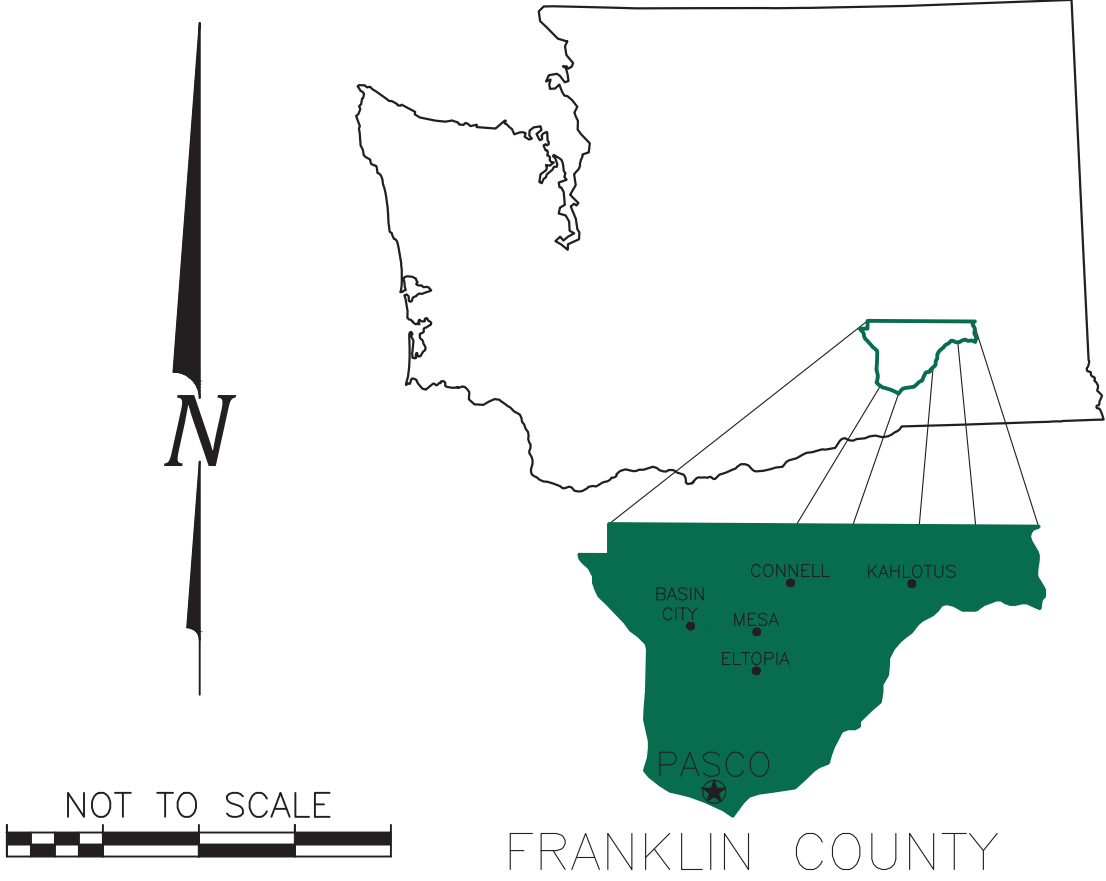
UNCHANNELIZED INTERSECTIONS AND COMMERCIAL ROAD APPROACHES

NON-COMMERCIAL ROAD APPROACHES AND DRIVEWAYS

CONSTRUCTION PLANS



LOCATION MAP



SUMMARY OF QUANTITIES				
ITEM NO.	TOTAL QTY.	UNIT	DESCRIPTION	
			PREPARATION	
1	L.S.	L.S.	MOBILIZATION	
			EROSION CONTROL AND ROADSIDE PLANTING	
2	2	DAYS	ESC LEAD	
			TRAFFIC	
3	25028	L.F	PAINT LINE	
4	8.92	MI.	SHOULDER RUMBLE STRIP TYPE 2	
5	4.74	MI.	CENTERLINE RUMBLE STRIP	
6	225	HR	FLAGGERS	
7	100	HR	OPERATING A PILOT VEHICLE	
8	81	S.F	CLASS A SIGN	
9	1	L.S.	SPCC PLAN	



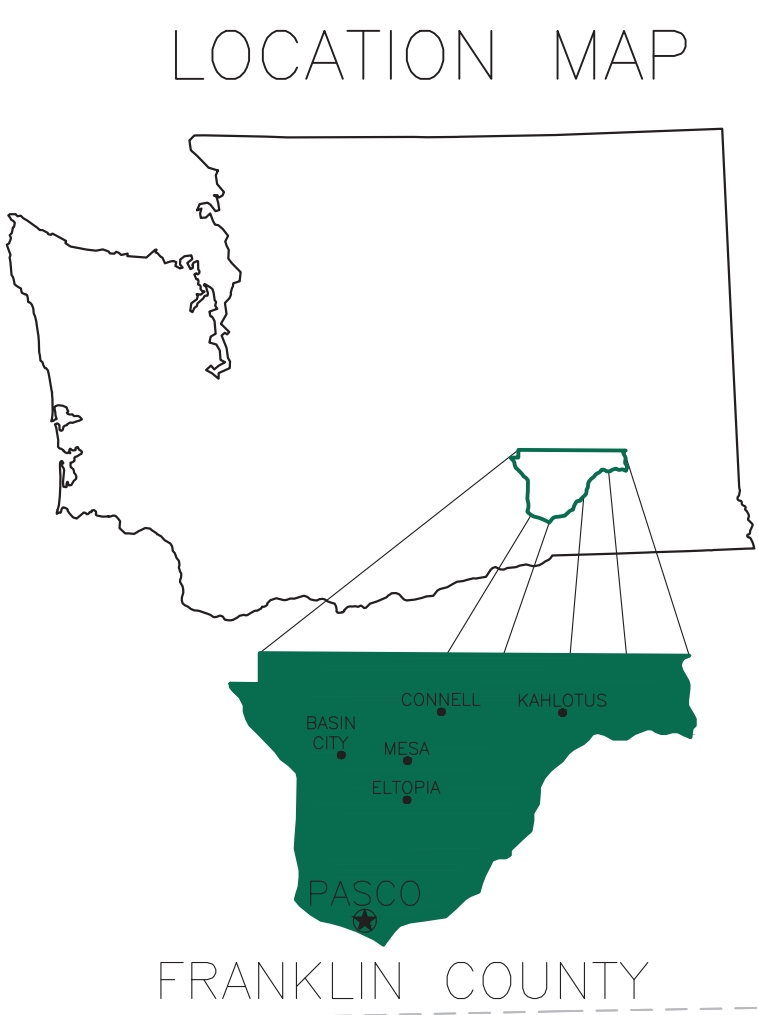
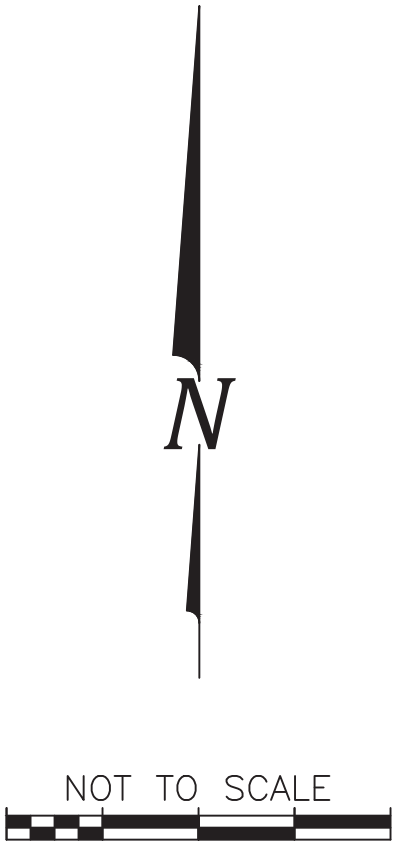
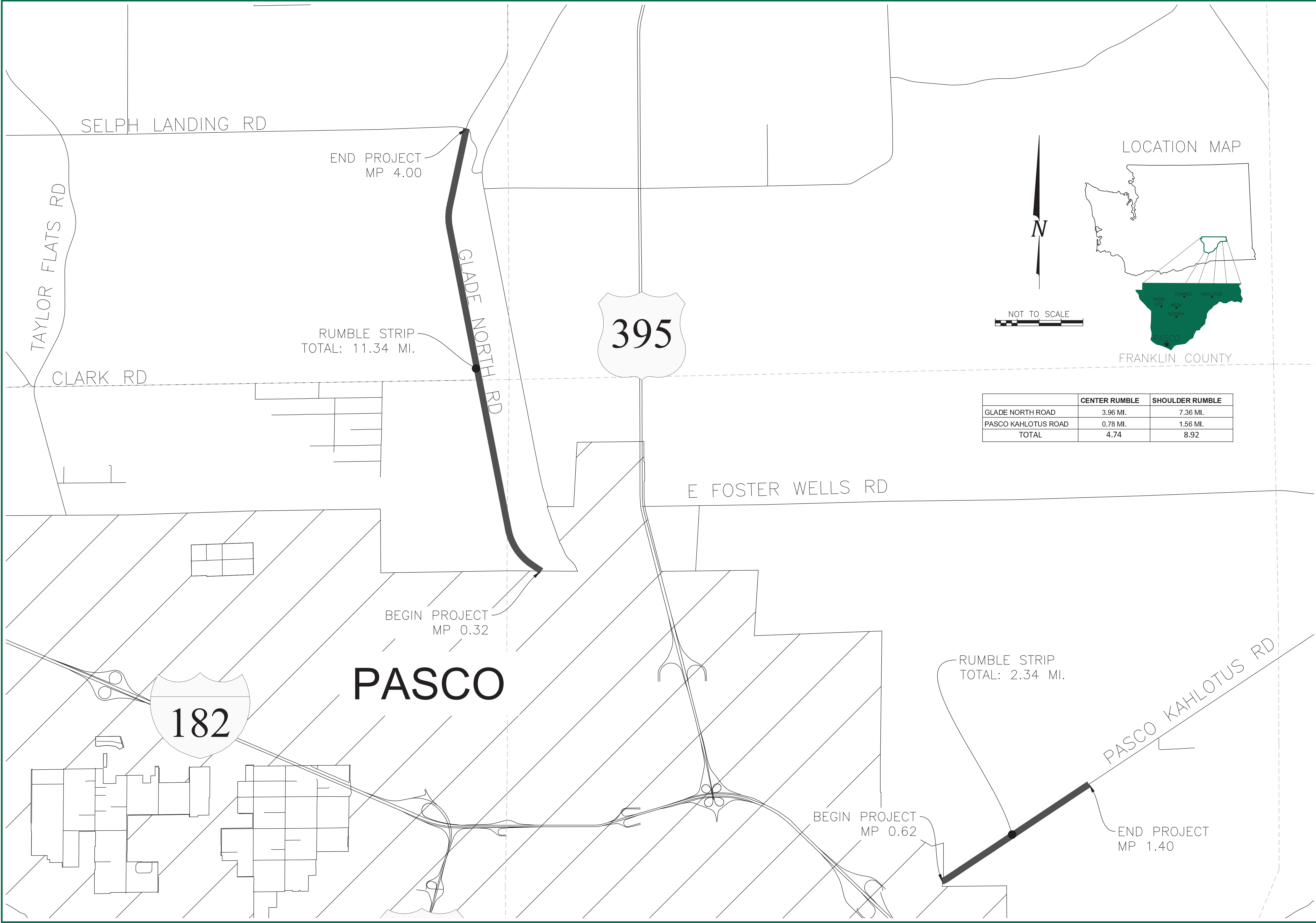
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PUBLIC WORKS DEPARTMENT
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PASCO, WA 99301
(509) 645-3514
WEB: WWW.CO.FRANKLIN.WA.US

REVISION		DESCRIPTION	BY	DATE
NO.				

CRP 618
SAFETY - RUMBLE STRIPS
VICINITY MAP



FEDERAL AID NUMBER
HSIP-000S(494)
CONTRACT NUMBER
LA-9349
STATE WA REGION SC
PLAN CHECK
DRAWN BY: HMB
DESIGNED BY: HMB
CHECKED BY: JRC, KAN, SCA
DATE: 2019-07-11 10:13:53
CADD DWG
CRP618-VICINTYMAP
REF. NO. SHEET
G1 1 OF 5



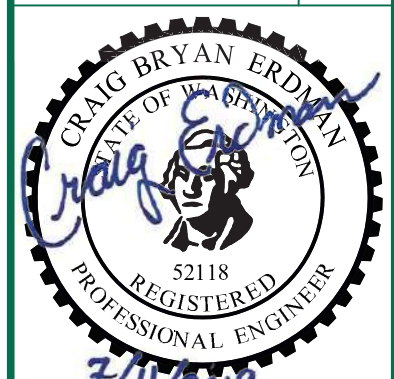
	CENTER RUMBLE	SHOULDER RUMBLE
GLADE NORTH ROAD	3.96 MI.	7.36 MI.
PASCO KAHLOTUS ROAD	0.78 MI.	1.56 MI.
TOTAL	4.74	8.92



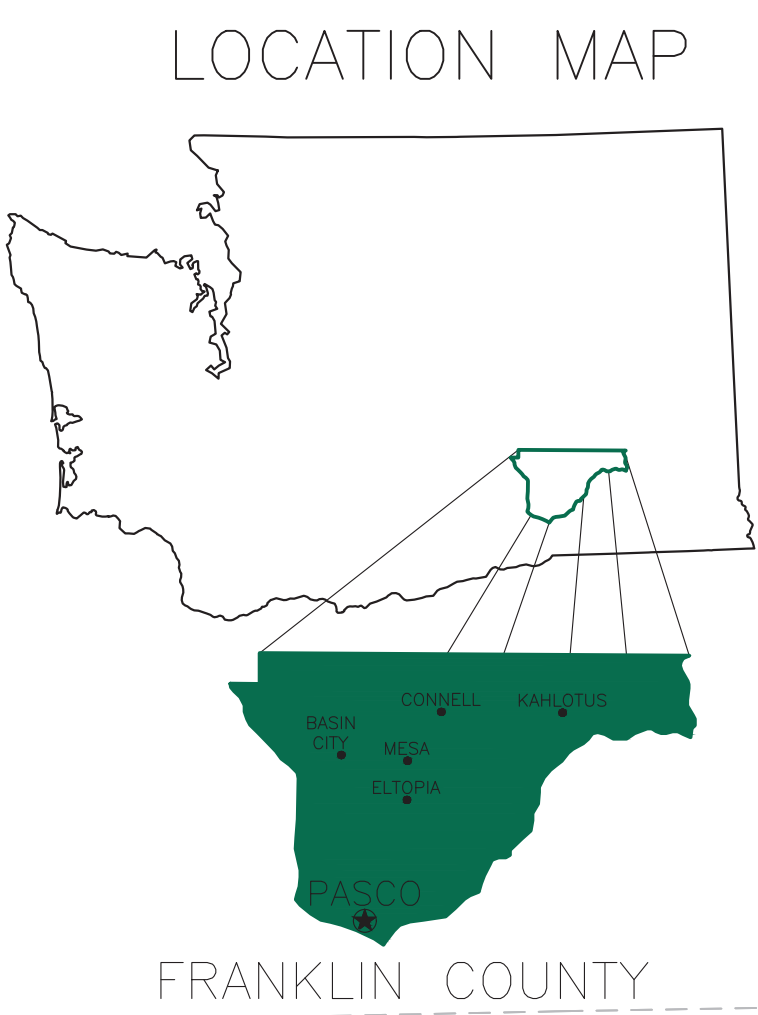
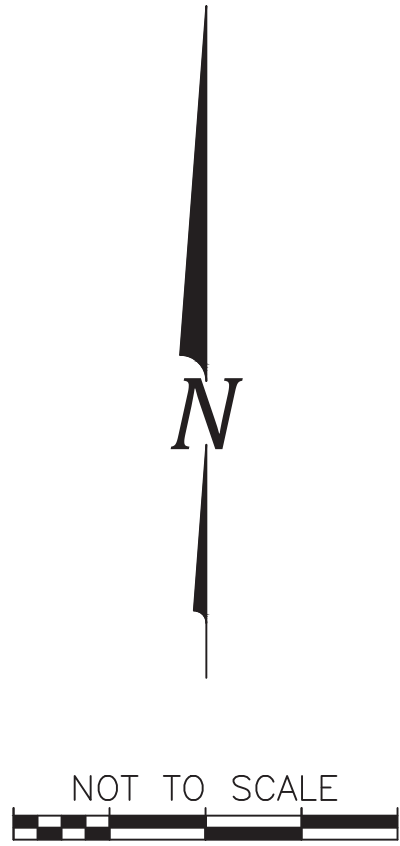
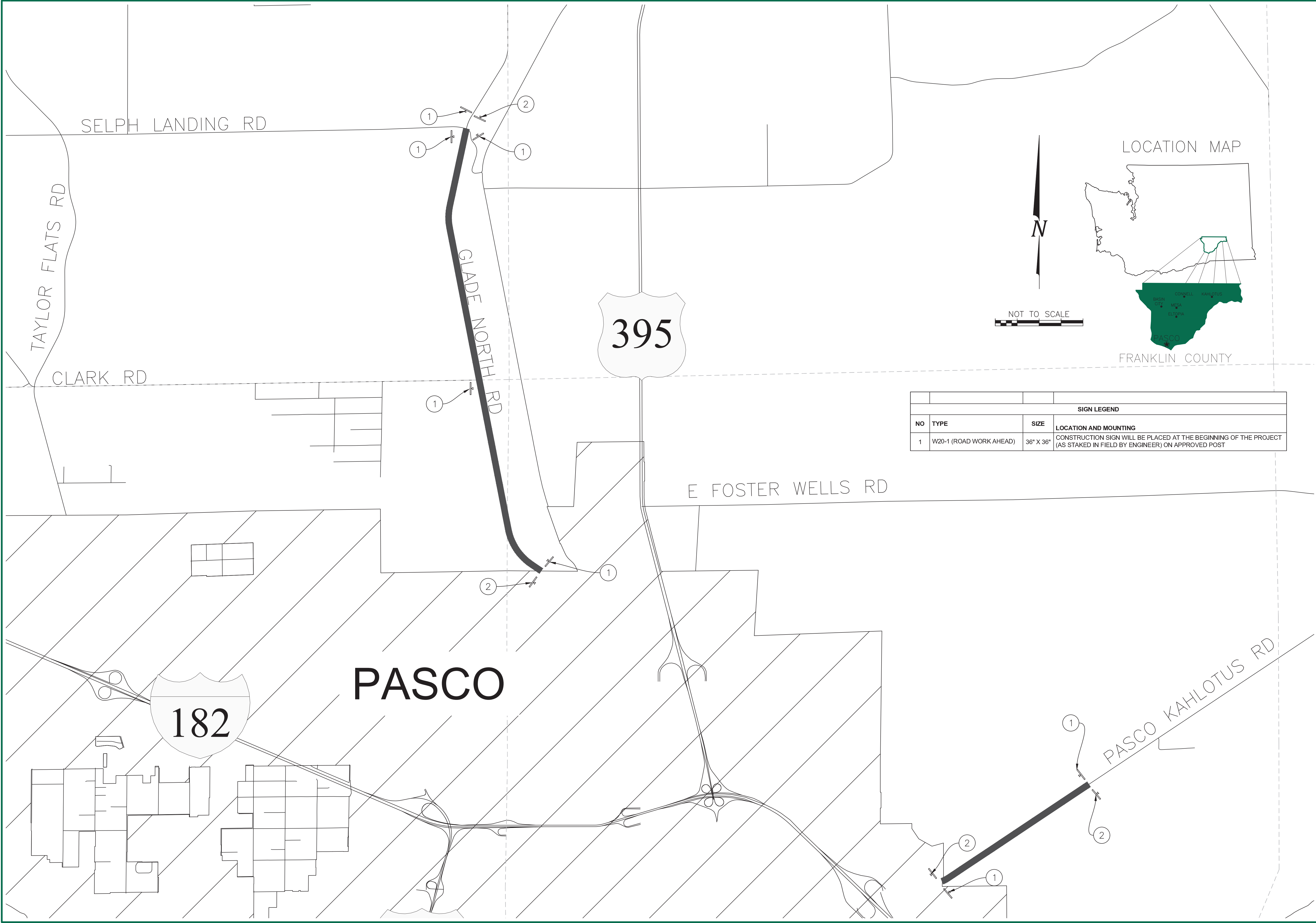
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REVISION	NO.	DESCRIPTION	BY	DATE

CRP 618
SAFETY - RUMBLE STRIPS
PLAN



FEDERAL AID NUMBER HSIP-000S(494)	STATE WA	REGION SC
CONTRACT NUMBER LA-9349	PLAN CHECK	
DRAWN BY: HMB		
DESIGNED BY: HMB		
CHECKED BY: JRC, KAN, SCA		
DATE: 2019-07-11 10:13:53		
CADD DWG		
CRP618-VICINTYMAP		
REF. NO.	SHEET	
C1	2 OF 5	



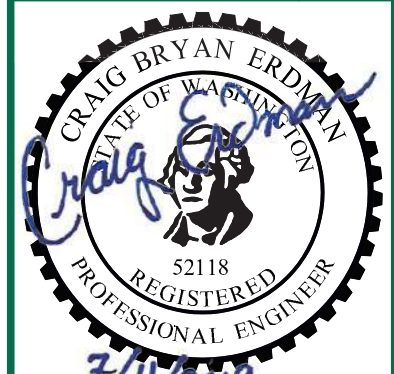
SIGN LEGEND			
NO	TYPE	SIZE	LOCATION AND MOUNTING
1	W20-1 (ROAD WORK AHEAD)	36" X 36"	CONSTRUCTION SIGN WILL BE PLACED AT THE BEGINNING OF THE PROJECT (AS STAKED IN FIELD BY ENGINEER) ON APPROVED POST



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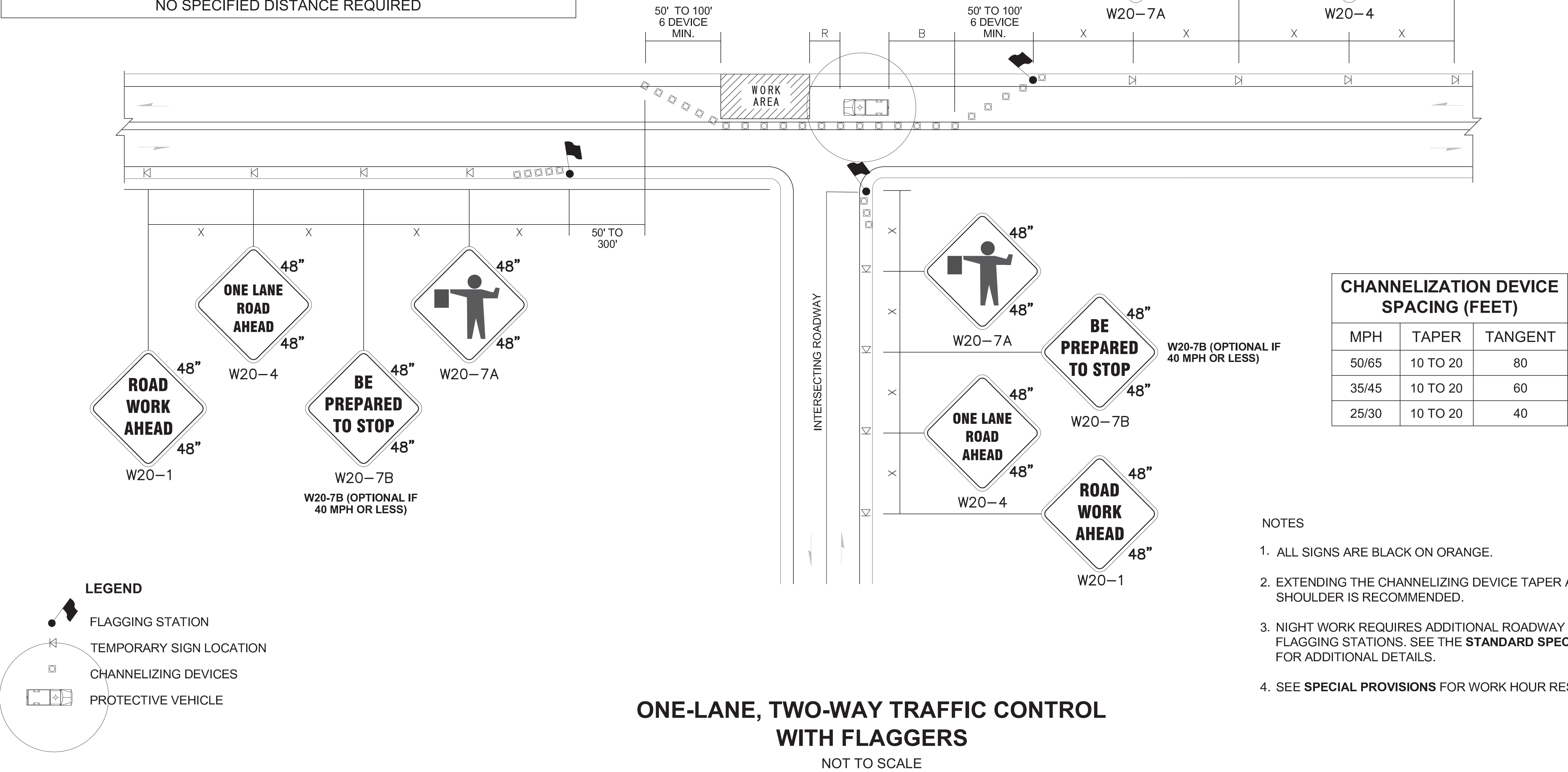
CRP 618
SAFETY - RUMBLE STRIPS
TRAFFIC CONTROL



FEDERAL AID NUMBER HSIP-000S(494)	
CONTRACT NUMBER LA-9349	
STATE WA	REGION SC
PLAN CHECK	
DRAWN BY: HMB	
DESIGNED BY: HMB	
CHECKED BY: JRC, KAN, SCA	
DATE: 2019-07-11 10:13:54	
CADD DWG	
CRP618-VICINTYMAP	
REF. NO.	SHEET
TC1	3 OF 5

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH		> 55 MPH		< 45 MPH	45-55 MPH		> 55 MPH		
100'	123'		172'		74'	100'		150'		
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

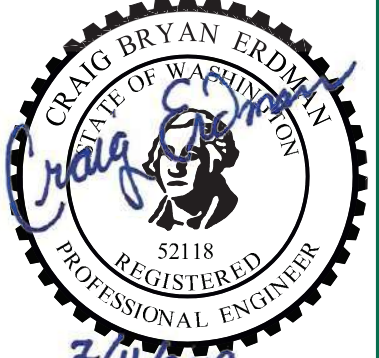
- NOTES
- ALL SIGNS ARE BLACK ON ORANGE.
 - EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
 - NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE **STANDARD SPECIFICATIONS** FOR ADDITIONAL DETAILS.
 - SEE **SPECIAL PROVISIONS** FOR WORK HOUR RESTRICTIONS.



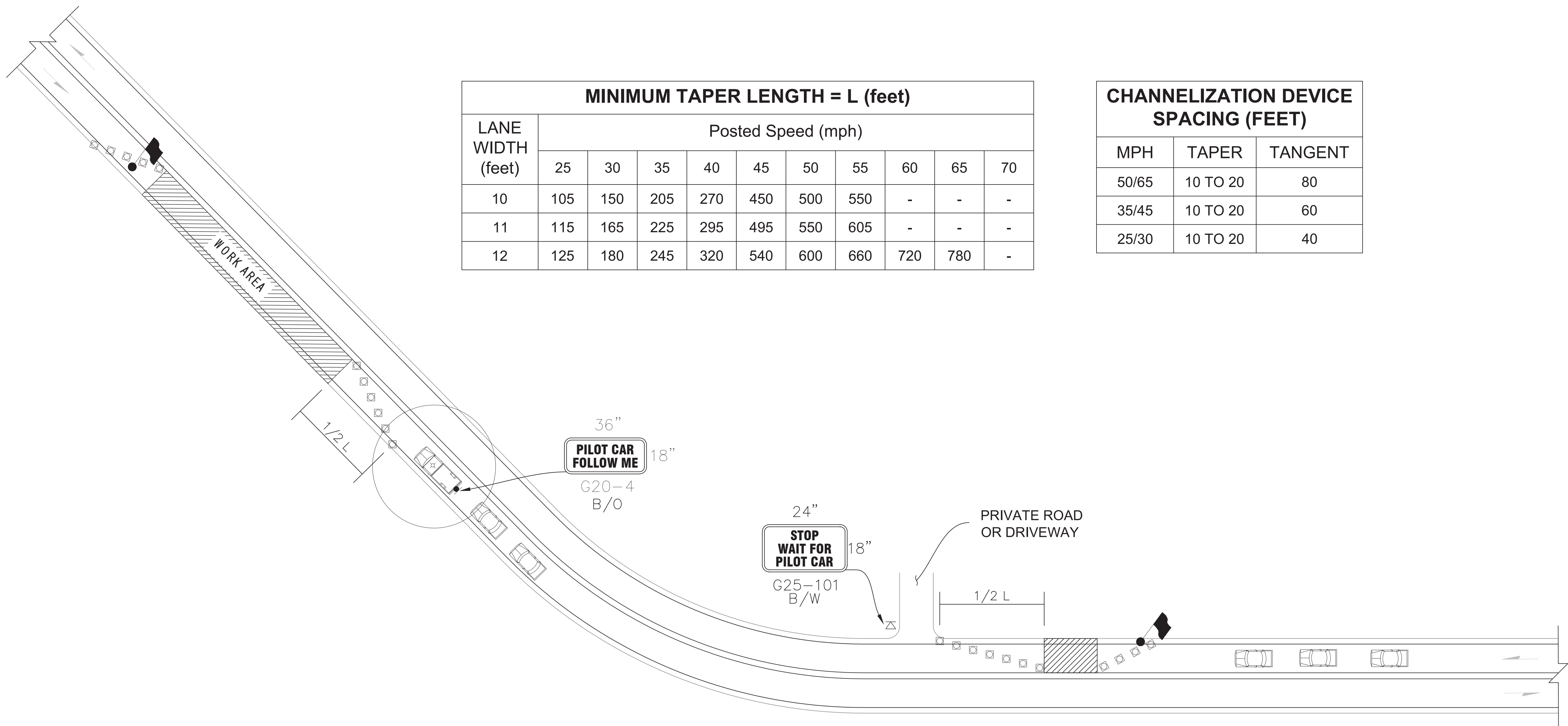
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REVISION		NO.		DESCRIPTION	BY	DATE

CRP-618
SAFETY - RUMBLE STRIPS
TRAFFIC CONTROL



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CONTRACT NUMBER LA-9349	
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CRP618-VICINTYMAP	
REF. NO.	SHEET



LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	-	-	-
12	125	180	245	320	540	600	660	720	780	-

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

LEGEND

FLAGGING STATION

TEMPORARY SIGN LOCATION

CHANNELIZING DEVICES

PILOT VEHICLE

MOTORIST VEHICLE

PILOT CAR OPERATION

NOT TO SCALE

NOTES

1. REFER TO SHEET TC2 FOR ADDITIONAL SIGNING AND FLAGGING DETAILS NOT SHOWN.
2. CHANNELIZING DEVICES ARE RECOMMENDED ALONG CENTERLINE TO SEPARATE TRAFFIC FROM WORK OPERATION. DEVICES ARE REQUIRED AT TAPERS TO SHIFT TRAFFIC MOVEMENT BETWEEN LANES AND TO PROTECT FLAGGING STATIONS.
3. SIGN G25-101 IS RECOMMENDED FOR NON-STOP SIGN CONTROLLED APPROACHES SUCH AS PRIVATE ROADS AND DRIVEWAYS. THIS SIGN IS NOT REQUIRED TO BE ALUMINUM SUBSTRATE AND CAN BE MADE OF ALTERNATIVE MATERIALS.



FRANKLIN COUNTY

PUBLIC WORKS DEPARTMENT

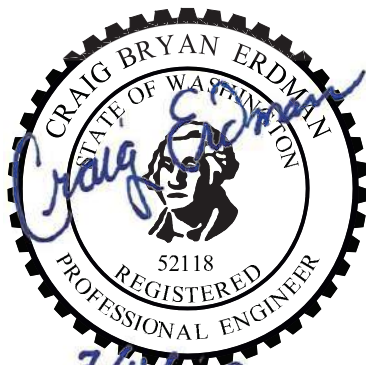
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CRP-618

SAFETY - RUMBLE STRIPS

TRAFFIC CONTROL



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WA	SC
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