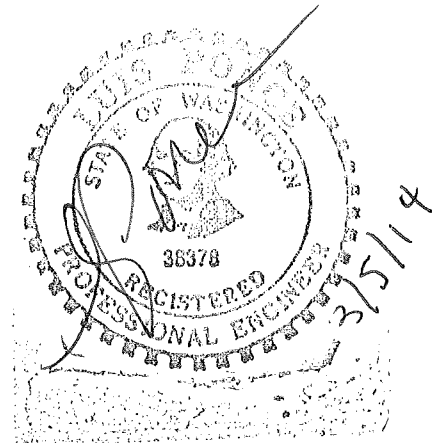


CONTRACT DOCUMENTS
FOR:
CITY OF FERNDALE, WASHINGTON
CHURCH ROAD IMPROVEMENTS PROJECT

Federal Aid No. STPUS -8033(001)

Consisting of:

Bid Documents
Contract Forms
Specifications & Conditions
Drawings



Plans Provided for:

City of Ferndale
Janice Marlega, P.E., Public Works Director
2095 Main Street
Ferndale, WA 98248
Phone: (360) 384-4006

Engineer:

Reichhardt & Ebe Engineering, Inc.
423 Front Street
Lynden, WA 98264
Phone: (360) 354-3687
Fax: (360) 354-0407

**CHURCH ROAD IMPROVEMENTS PROJECT
FERNDALE, WASHINGTON**

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BID PROCEDURES AND CONDITIONS

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**INVITATION FOR BID
CITY OF FERNDALE
CHURCH ROAD IMPROVEMENTS PROJECT
Federal Aid No. STPUS-8033(001)**

Sealed bid proposals will be received by the City of Ferndale at Ferndale City Hall, 2095 Main Street, Ferndale, Washington, 98248, (360) 384-4006, until 4:00 P.M., March 26, 2014, and will then and there be opened and publicly read for improvements of approximately 3,700 lineal feet of Church Road, from the intersection of Main Street northerly to Thornton Road, Ferndale Washington. Work will include clearing, grubbing, grading, roadway excavation, installing an enclosed storm drainage system, installing sanitary main and watermain, placing of gravel base, retaining walls, hot mix asphalt paving, curb and gutters, sidewalks, and other work, all in accordance with the Contract Plans, Special Provisions, the Standard Specifications and Standard Plans.

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 amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond and payment bond both in an amount of 100 percent (100%) of the contract price within the time stated in the specifications, the bid proposal deposit shall be forfeited to the City of Ferndale. All bidders and subcontractors shall have a contractor's license to work in the State of Washington and a City of Ferndale Business License.

Project Documents:

Maps, plans, and specifications may be obtained from the Ferndale City Hall upon payment in the amount of \$70 for specifications and plan sets. Informational copies of maps, plans and specifications are on file for inspection in the Ferndale City Hall, 2095 Main Street, Ferndale, Washington 98248.

The City of Ferndale 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.

Bidders, prior to submittal of a bid, may attend a pre-bid conference with the Project Engineer. The meeting will start at 10:00 AM on March 17, 2014, at the Ferndale City Hall, 2095 Main Street, Ferndale, Washington 98248. A jobsite visit may follow upon request.

The City of Ferndale is an Equal Opportunity and Affirmative Action Employer. Minority and Women-Owned firms are encouraged to submit bids.

Sam Taylor

City Clerk - City of Ferndale

Ferndale Record Journal - Published Wednesday, March 5, 2014 and March 12, 2014

Daily Journal of Commerce – Published Wednesday, March 5, 2014 and March 12, 2014

BID PROPOSAL PACKAGE
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BID PROPOSAL

FOR

**CHURCH ROAD IMPROVEMENTS PROJECT
Federal Aid No. STPUS -8033(001)
FERNDALE, WASHINGTON**

Date: _____

TO: City of Ferndale

Gentlepersons:

This certifies that the Undersigned: has examined the location of the project site and the conditions of work; and has carefully read and thoroughly understands the contract documents entitled: "**CHURCH ROAD IMPROVEMENTS PROJECT**" in Ferndale, including the "Bid Procedures and Conditions", "Specifications and Conditions", "Contract Forms", and "Plans" governing the work embraced in this project and the method by which payment will be made for said work. The Undersigned hereby proposes to undertake and complete the work embraced in this project in accordance with said contract documents, and agrees to accept as payment for said work, the schedule of lump sum and unit prices as set forth in the "Bid" below.

The Undersigned acknowledges that payment will be based on the actual work performed and material used as measured or provided for in accordance with the said contract documents, and that no additional compensation will be allowed for any taxes not included in each lump sum or unit price, and that the basis for payment will be the actual work performed and measured or provided for in accordance with the said contract documents.

BID PROPOSAL FORM

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
SCHEDULE A - CIVIL ITEMS				
1	1 LUMP SUM	MOBILIZATION 1-09	\$	\$
			per LS	
2	1 LUMP SUM	SPCC PLAN 1-07	\$	\$
			per LS	
3	5,000 HOUR	FLAGGERS AND SPOTTERS 1-10	\$	\$
			per HR	
4	500 HOUR	OTHER TRAFFIC CONTROL LABOR 1-10	\$	\$
			per HR	
5	1 LUMP SUM	TRAFFIC CONTROL SIGNS AND DEVICES 1-10	\$	\$
			per LS	
6	1 LUMP SUM	CLEARING AND GRUBBING 2-01	\$	\$
			per LS	
7	1 LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS 2-02	\$	\$
			per LS	
8	4,000 LINEAR FOOT-INCH	SAWCUT ACP 2-02	\$	\$
			per LF-IN	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
9	1,200 LINEAR FOOT-INCH	SAWCUT PCC 2-02	\$	\$
			per LF-IN	
10	20 EACH	REMOVING DRAINAGE STRUCTURES 2-02		
			per EA	
11	12,800 CUBIC YARD	ROADWAY EXCAVATION INCLUDING HAUL 2-03	\$	\$
			per CY	
12	600 CUBIC YARD	EMBANKMENT COMPACTION 2-03	\$	\$
			per CY	
13	700 CUBIC YARD	UNSUITABLE FOUNDATION EXCAVATION, INCL. HAUL 2-03	\$	\$
			per CY	
14	100 M. Gal	WATER 2-07	\$	\$
			M. Gal	
15	75 CUBIC YARD	STRUCTURE EXCAVATION CL A INCLUDING HAUL 2-09	\$	\$
			per CY	
16	1 LUMP SUM	SHORING OR EXTRA EXCAVATION CLASS A 2-09	\$	\$
			per LS	
17	18,000 SQUARE YARD	CONSTRUCTION GEOTEXTILE FOR SUBGRADE SEPARATION 2-12	\$	\$
			per SY	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
18	21,000 TON	GRAVEL BASE 4-02	\$	\$
			per TON	
19	2,500 TON	CRUSHED SURFACING TOP COURSE INCLUDING HAUL 4-04	\$	\$
			per TON	
20	125 SQUARE YARD	PLANING BITUMINOUS PAVEMENT 5-04	\$	\$
			per SY	
21	6,000 TON	HMA CLASS 1/2" PG 64-22 5-04	\$	\$
			per TON	
22	0 CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT 5-04	\$	\$
			CALC	
23	0 CALC	COMPACTION PRICE ADJUSTMENT 5-04	\$	\$
			CALC	
24	0 CALC	ASPHALT COST PRICE ADJUSTMENT 5-04	\$	\$
			CALC	
25	1,450 SQUARE FOOT	TYPE "A" MONOLITHIC RETAINING WALL 6-02	\$	\$
			per SF	
26	70 CUBIC YARD	GRAVEL BACKFILL FOR WALL 6-02	\$	\$
			per CY	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
27	650 SQUARE FOOT	STRUCTURAL EARTH WALL, KEYSTONE, GRAVITY COMPAC 6-13	\$	\$
			per SF	
28	80 SQUARE FOOT	STRUCTURAL EARTH WALL, KEYSTONE, REINFORCED COMPAC 6-13	\$	\$
			per SF	
29	1 FORCE ACCOUNT	EROSION/WATER POLLUTION CONTROL 8-01	\$ 20,000.00 FA	\$ 20,000.00
30	1 LUMP SUM	ESC LEAD 8-01	\$	\$
			per LS	
31	4,500 SQUARE YARD	PERMANENT EROSION CONTROL BLANKET 8-01	\$	\$
			per SY	
32	400 SQUARE YARD	STABILIZED CONSTRUCTION ENTRANCE 8-01	\$	\$
			per SY	
33	3,300 LINEAR FOOT	SILT FENCE 8-01	\$	\$
			per LF	
34	200 HOUR	STREET CLEANING 8-01	\$	\$
			per HR	
35	30 EACH	INLET PROTECTION 8-01	\$	\$
			per EA	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
36	1 LUMP SUM	SWPP PLAN PREPARATION 8-01	\$	\$
			per LS	
37	4,500 SQUARE YARD	SEEDED LAWN INSTALLATION 8-02	\$	\$
			per SY	
38	1 FORCE ACCOUNT	LANDSCAPE RESTORATION 8-02	\$ 30,000.00	\$ 30,000.00
			FA	
39	7,255 LINEAR FOOT	CEMENT CONCRETE CURB AND GUTTER 8-04	\$	\$
			per LF	
40	1,675 SQUARE YARD	CEMENT CONC. DRIVEWAY ENTRANCE 6 IN. THICK 8-06	\$	\$
			per SY	
41	20 HUND	RAISED PAVEMENT MARKERS, TYPE 1 8-09	\$	\$
			per HUND	
42	4 HUND	RAISED PAVEMENT MARKERS, TYPE 2 8-09	\$	\$
			per HUND	
43	2,100 SQUARE YARD	CEMENT CONCRETE SIDEWALK 8-14	\$	\$
			per SY	
44	420 SQUARE YARD	CEMENT CONCRETE SIDEWALK WITH RAISED EDGE 8-14	\$	\$
			per SY	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
45	16 EACH	CEMENT CONC. CURB RAMP TYPE PARALLEL A 8-14		
			per EA	
46	225 SQUARE YARD	REINFORCED CEMENT CONCRETE SIDEWALK, 6 IN. THICK 8-14		
			\$	\$
			per SY	
47	60 EACH	MAILBOX SUPPORT TYPE 1 8-18		
			\$	\$
			per EA	
48	1 LUMP SUM	PERMANENT SIGNING 8-21		
			\$	\$
			per LS	
49	700 SQUARE FOOT	PLASTIC CROSSWALK LINE 8-22		
			\$	\$
			per SF	
50	160 SQUARE FOOT	PLASTIC STOP LINE 8-22		
			\$	\$
			per SF	
51	1 EACH	PLASTIC TRAFFIC ARROW 8-22		
			\$	\$
			per EA	
52	6,900 LINEAR FOOT	PAINT LINE 8-22		
			\$	\$
			per LF	
53	160 LINEAR FOOT	PAINTED WIDE LINE 8-22		
			per LF	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
54	30 EACH	POTHOLE EXISTING UNDERGROUND UTILITY 8-30	\$ per EA	\$
55	1 FORCE ACCOUNT	REPAIR EX. PUBLIC & PRIVATE FACILITIES 8-31	\$20,000.00 FA	\$20,000.00
56	1 FORCE ACCOUNT	UNANTICIPATED SITE WORK 8-32	\$50,000.00 FA	\$50,000.00

TOTAL SCHEDULE A \$

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
SCHEDULE B - STORM DRAIN ITEMS				
57	1 LUMP SUM	MOBILIZATION 1-09	\$	\$
			per LS	
58	500 HOUR	FLAGGERS AND SPOTTERS 1-10	\$	\$
			per HR	
59	50 HOUR	OTHER TRAFFIC CONTROL LABOR 1-10	\$	\$
			per HR	
60	2,000 CUBIC YARD	STRUCTURE EXCAVATION CLASS B INCL. HAUL 2-09	\$	\$
			per CY	
61	16,000 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CLASS B 2-09	\$	\$
			per SF	
62	1,500 TON	GRAVEL BASE 4-04	\$	\$
			per TON	
63	330 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 6 IN. DIAM. 7-04	\$	\$
			per LF	
64	50 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 8 IN. DIAM. 7-04	\$	\$
			per LF	
65	220 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 12 IN. DIAM. 7-04	\$	\$
			per LF	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
66	370 LINEAR FOOT	DUCTILE IRON STORM SEWER PIPE 12 IN. DIAM. 7-04	\$	\$
			per LF	
67	3,450 LINEAR FOOT	CORRUGATED POLY STORM SEWER PIPE, 18 IN. DIAM. 7-04	\$	\$
			per LF	
68	3,450 LINEAR FOOT	TESTING STORM SEWER PIPE 7-04	\$	\$
			per LF	
69	4 EACH	CONCRETE INLET 7-05	\$	\$
			per EA	
70	14 EACH	CATCH BASIN TYPE 1 7-05	\$	\$
			per EA	
71	23 EACH	CATCH BASIN TYPE IL 7-05	\$	\$
			per EA	
72	4 EACH	CATCH BASIN TYPE II, 48 IN. DIAM. 7-05	\$	\$
			per EA	
73	1 LUMP SUM	ADJUSTMENT TO FINISHED GRADE 7-05	\$	\$
			per LS	
74	200 CUBIC YARD	REMOVAL OF UNSUITABLE MATERIAL INCL. HAUL 7-08	\$	\$
			per CY	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
75	400 TON	QUARRY SPALLS 8-15		
			\$	\$
			per TON	
76	15 EACH	POTHOLE EXISTING UNDERGROUND UTILITY 8-30		
				\$
			per EA	
77	1 FORCE ACCOUNT	REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES 8-31		
			\$	\$
			5,000.00	5,000.00
			FA	
78	1 FORCE ACCOUNT	UNANTICIPATED SITE WORK 8-32		
			\$	\$
			12,500.00	12,500.00
			FA	

TOTAL SCHEDULE B \$

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
SCHEDULE C - SANITARY SEWER ITEMS				
79	1 LUMP SUM	MOBILIZATION 1-09	\$	\$
			per LS	
80	400 HOUR	FLAGGERS AND SPOTTERS 1-10	\$	\$
			per HR	
81	40 HOUR	OTHER TRAFFIC CONTROL LABOR 1-10	\$	\$
			per HR	
82	2,200 CUBIC YARD	STRUCTURE EXCAVATION CL B INCL. HAUL 2-09	\$	\$
			per CY	
83	15,000 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CL B 2-09	\$	\$
			per SF	
84	3,200 TON	GRAVEL BASE 4-02	\$	\$
			per TON	
85	10 EACH	SOLID LOCKING RING & COVER 7-05	\$	\$
			per EA	
86	11 EACH	MANHOLE 48 IN. DIAM. TYPE 1 7-05	\$	\$
			per EA	
87	1 EACH	MANHOLE 54 IN. DIAM. TYPE 1 7-05	\$	\$
			per EA	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
88	1 EACH	DROP MANHOLE CONNECTION 7-05	\$ per EA	\$
89	140 CUBIC YARD	REMOVAL OF UNSUITABLE MATERIAL INCL. HAUL 7-08	\$ per CY	\$
90	350 LINEAR FOOT	PVC SANITARY SEWER PIPE, 6 IN. DIAM. 7-17	\$ per LF	\$
91	1,020 LINEAR FOOT	PVC SANITARY SEWER PIPE, 8 IN. DIAM. 7-17	\$ per LF	\$
92	1,350 LINEAR FOOT	PVC SANITARY SEWER PIPE, 12 IN. DIAM. 7-17	\$ per LF	\$
93	300 TON	QUARRY SPALLS 8-15	\$ per TON	\$
94	10 EACH	POTHOLE EXISTING UNDERGROUND UTILITY 8-30	\$ per EA	\$
95	1 FORCE ACCOUNT	REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES 8-31	\$ 5,000.00 FA	\$ 5,000.00
96	1 FORCE ACCOUNT	UNANTICIPATED SITE WORK 8-32	\$ 12,500.00 FA	\$ 12,500.00

SUBTOTAL SCHEDULE C \$

Sales Tax @ 8.7% (Schedule C) \$

TOTAL SCHEDULE C (Including Sales Tax) \$

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
97	1 LUMP SUM	MOBILIZATION 1-09	\$	\$
			per LS	
98	400 HOUR	FLAGGERS AND SPOTTERS 1-10	\$	\$
			per HR	
99	30 HOUR	OTHER TRAFFIC CONTROL LABOR 1-10	\$	\$
			per HR	
100	1 FORCE ACCOUNT	ABANDONMENT OF ASBESTOS CEMENT WATER MAIN 2-02	\$5,000.00	\$5,000.00
			FA	
101	2,500 SQUARE FOOT	SHORING OR EXTRA EXCAVATION CL B 2-09	\$	\$
			per SF	
102	950 TON	GRAVEL BASE 4-04	\$	\$
			per TON	
103	30 CUBIC YARD	CONTROLLED DENSITY FILL 2-09	\$	\$
			per CY	
104	1 LUMP SUM	ADJUSTMENT TO FINISHED GRADE 7-05	\$	\$
			per LS	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
105	40 CUBIC YARD	REMOVAL OF UNSUITABLE MATERIAL INCL. HAUL 7-08	\$	\$
			per CY	
106	20 LINEAR FOOT	D.I. PIPE FOR WATERMAIN 6 IN. DIAM. 7-09	\$	\$
			per LF	
107	605 LINEAR FOOT	D.I. PIPE FOR WATERMAIN 8 IN DIAM 7-09	\$	\$
			per LF	
108	3 EACH	CONNECT TO EXISTING AC WATERMAIN 6 IN DIAM. 7-09	\$	\$
			per EA	
109	1 EACH	CONNECT TO EXISTING AC WATERMAIN 8 IN. DIAM. 7-09	\$	\$
			per EA	
110	2 EACH	STOVEPIPE WATERMAIN, 8 IN. DIAM. 7-09	\$	\$
			per EA	
111	6 EACH	BLOWOFF ASSEMBLY 7-09	\$	\$
			per EA	
112	1 LUMP SUM	TESTING WATERMAIN 7-09	\$	\$
			per LS	
113	100 CUBIC YARD	EXTRA TRENCH EXCAVATION 7-09	\$	\$
			per CY	
114	5 EACH	TAPPING SLEEVE AND GATE VALVE ASSEMBLY, 10 IN. X 8 IN. 7-12	\$	\$
			per EA	

() SECTION REFERENCE

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
115	5 EACH	TAPPING SLEEVE AND GATE VALVE ASSEMBLY, 12 IN. X 8 IN. 7-12	\$ per EA	\$
116	7 EACH	HYDRANT ASSEMBLY 7-14	\$ per EA	\$
117	44 EACH	SERVICE CONNECTION 1 IN. DIAM. 7-15	\$ per EA	\$
118	4 EACH	SERVICE CONNECTION 2 IN. DIAM. 7-15	\$ per EA	\$
119	80 TON	QUARRY SPALLS 8-15	\$ per TON	\$
120	20 EACH	POTHOLE EXISTING UNDERGROUND UTILITY 8-30	\$ per EA	\$
121	1 FORCE ACCOUNT	REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES 8-31	\$5,000.00 FA	\$5,000.00
122	1 FORCE ACCOUNT	UNANTICIPATED SITE WORK 8-32	\$7,000.00 FA	\$7,000.00

SUBTOTAL SCHEDULE D \$

Sales Tax @ 8.7% (Schedule D) \$

TOTAL SCHEDULE D (Including Sales Tax) \$

TOTAL SCHEDULE A, B, C, D \$

(INCLUDING SALES TAX)

BIDDER IDENTIFICATION

The name of the Bidder submitting this proposal, the address and phone number to which all communications concerned with this proposal shall be made and the number which has been assigned indicating the Bidder is licensed to do business in the State of Washington are as follows:

Firm Name: _____

Address: _____

Telephone: _____

Fax: _____

Contractor's Number: _____

The Firm submitting this proposal is a _____ Sole Proprietorship
_____ Partnership
_____ Corporation

The names and titles of the principal officers of the corporation submitting this proposal, or of the partnership, or of all persons interested in this proposal as principals are as follows:

NOTE: Signatures of this proposal must be identified above. Failure to identify the Signatories will be cause for considering the proposal irregular and for subsequent rejection of the bid.

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

NON-COLLUSION DECLARATION

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

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

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

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

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

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.

Local Agency Proposal - Signature Page

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

- Cash In the Amount of _____
Cashier's Check _____ Dollars
Certified Check (\$ _____) Payable to the State Treasurer
Proposal Bond In the Amount of 5% of the Bid

Receipt is hereby acknowledged of addendum(s) No.(s) _____, _____ & _____

Signature of Authorized Official(s)

Firm Name

Address

State of Washington Contractor's License No. _____

Federal ID No. _____

Note:

- (1) This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the _____ 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, re: "Preparation of Proposal," or "Article 4" of the Instruction to Bidders for building construction jobs.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we of _____, as principal, and the _____ a corporation duly organized under the laws of the State of _____ and having its principal place of business at _____, in the State of Washington, as Surety, are held and firmly bound unto the City of Ferndale, a Municipal Corporation in the State of Washington, in the full and penal sum of five percent (5%) of the total bid amount appearing on the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, jointly and severally, firmly by these presents.

The condition of this bond is such that, whereas, the principal herein is herewith submitting his or its bid proposal for, **CHURCH ROAD IMPROVEMENTS PROJECT**, said bid proposal, by reference thereto, being hereby made a part hereof.

NOW, THEREFORE, if the said bid proposal submitted by the 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 the performance bond as required by the bidding and contract documents within a period of ten (10) days from and after said award, exclusive of the day of such award, then its obligation to pay the above-mentioned penal sum as liquidated damages shall be null and void, otherwise it shall remain and be in full force and effect.

SIGNED AND SEALED this _____ day of _____, 2014.

Principal

By _____ (Seal)

Surety

By _____
Attorney-In-Fact

The Attorney-in-fact who executes this bond on behalf of the surety company, must attach a copy of his power-of-attorney as evidence of his authority.

Local Agency Disadvantaged Business Enterprise Utilization Certification

To be eligible for award of this contract the bidder must fill out and submit, as part of its bid proposal, the following Disadvantaged Business Enterprise Utilization Certification relating to Disadvantaged Business Enterprise (DBE) requirements. The Contracting Agency shall consider as non-responsive and shall reject any bid proposal that does not contain a DBE Certification which properly demonstrates that the bidder will meet the DBE participation requirements in one of the manners provided for in the proposed contract. The Bidder must submit good faith effort documentation only in the event the bidder's efforts to solicit sufficient DBE participation has been unsuccessful. The successful bidder's Disadvantage Business Enterprise Utilization Certification shall be deemed a part of the resulting contract. Information on certified firms is available from OMWBE, telephone 360-664-9750 or Toll Free 1-866-208-1064.

_____ certifies that the Disadvantaged Business Enterprise (DBE)
(Box 1) Name of Bidder

Firms listed below have been contacted regarding participation on this project. If this bidder is successful on this project and is awarded the contract, it shall assure that subcontracts or supply agreements are executed with those firms where an "Amount to be Applied Towards Goal" is listed. (If necessary, use additional sheet.)

Column 1 Name of DBE Certificate Number	Column 2 Project Role <small>(Prime, Joint Venture, Subcontractor, Manufacturer, Regular Dealer)</small>	Column 3 Description of Work	Column 4 Amount to be Applied Towards Goal
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

Disadvantaged Business Enterprise Subcontracting Goal: _____ DBE Total \$ _____
Box 2 Box 3

- * Regular Dealer status must be approved prior to bid submittal by the Office of Equal Opportunity, Wash. State Dept. of Transportation, on each contract.
- ** See the section "Crediting DBE Participation Toward Meeting the Goal" in the Contract Document.
- *** The Contracting Agency will utilize this amount to determine whether or not the bidder has met the goal. In the event of an arithmetic difference between this total and the sum of the individual amounts listed above, then the sum of the amounts listed shall prevail and the total will be revised accordingly. Participation in excess of the goal amount will be considered voluntary or race-neutral participation.

Local Agency Disadvantaged Business Enterprise (DBE) Written Confirmation Document

As an authorized representative of the Disadvantaged Business Enterprise (DBE), I confirm that we have been contacted by the referenced bidder with regard to the referenced project and if the bidder is awarded the contract we will enter into an agreement with the bidder to participate in the project consistent with the information provided in the bidder's Disadvantaged Business Enterprise Utilization Certification.

Contract Title: _____

Bidder's Business Name: _____

DBE's Business Name: _____

DBE Signature: _____

DBE's Title: _____

Date: _____

The entries must be consistent with what is shown on the bidder's Disadvantaged Business Enterprise Utilization Certification. Failure to do so will result in bid rejection. See contract provision; *Disadvantaged Business Enterprise Condition of Award Participation*.

Description of Work: _____

Amount to be Applied Towards Goal: _____

Local Agency Name
Local Agency Address

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name _____

Failure to list subcontractors with whom the bidder, if awarded the contract, will directly subcontract for performance of the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical, as described in Chapter 19.28 RCW or naming more than one subcontractor to perform the same work will result in your bid being non-responsive and therefore void.

Subcontractor(s) with whom the bidder will directly subcontract that are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW **must** be listed below. The work to be performed is to be listed below the subcontractor(s) name.

To the extent the Project includes one or more categories of work referenced in RCW 39.30.060, and no subcontractor is listed below to perform such work, the bidder certifies that the work will either (i) be performed by the bidder itself, or (ii) be performed by a lower tier subcontractor who will not contract directly with the bidder.

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

* Bidder's are notified that is the opinion of the enforcement agency that PVC or metal conduit, junction boxes, etc, are considered electrical equipment and therefore considered part of electrical work, even if the installation is for future use and no wiring or electrical current is connected during the project.

SPECIFICATIONS AND CONDITIONS

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INTRO.AP1
INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2012 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

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

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

1-01.AP1
Section 1-01, Definition and Terms
August 5, 2013

1-01.2(2) Items of Work and Units of Measurement

The following abbreviation in this section is deleted:

ATB Asphalt Treated Base

1-01.3 Definitions

The definition for “**Bid Documents**” is revised to read:

The component parts of the proposed Contract which may include, but are not limited to, the Proposal Form, the proposed Contract Provisions, the proposed Contract Plans, Addenda, and, for projects with Contracting Agency subsurface investigations, the Summary of Geotechnical Conditions and subsurface boring logs (if any).

The definition for “**Superstructures**” is revised to read:

The part of the Structure *above*:

1. The bottom of the grout pad for the simple and continuous span bearing, or
2. The bottom of the block supporting the girder, or
3. Arch skewback and construction joints at the top of vertical abutment members or rigid frame piers.

Longitudinal limits of the Superstructure extend from end to end of the Structure in accordance with the following criteria:

1. From the face of end diaphragm abutting the bridge approach embankment for end piers without expansion joints, or
2. From the end pier expansion joint for bridges with end pier expansion joints.

Superstructures include, but are not limited to, the bottom slab and webs of box girders, the bridge deck and diaphragms of all bridges, and the sidewalks when shown on the bridge deck. The Superstructure also includes the girders, expansion joints, bearings, barrier, and railing attached to the Superstructure when such Superstructure components are not otherwise covered by separate unit measured or lump sum bid items.

Superstructures do not include endwalls, wingwalls, barrier and railing attached to the wingwalls, and cantilever barriers and railings unless supported by the Superstructure.

1-02.AP1

Section 1-02, Bid Procedures and Conditions
January 2, 2012

1-02.4(2) Subsurface Information

The first two sentences in the first paragraph are revised to read:

If the Contracting Agency has made subsurface investigation of the site of the proposed work, the boring log data, soil sample test data, and geotechnical recommendations reports obtained by the Contracting Agency will be made available for inspection by the Bidders at the location specified in the Special Provisions. The Summary of Geotechnical Conditions, as an appendix to the Special Provisions, and the boring logs shall be considered as part of the Contract.

1-03.AP1

Section 1-03, Award and Execution of Contract
April 2, 2012

1-03.1(1) Tied Bids

This section's title is revised to read:

1-03.1(1) Identical Bid Totals

Section 1-03, Award and Execution of Contract
March 3, 2014

1-03.4 Contract Bond

The last word of item 3 is deleted.

Item 4 is renumbered to 5.

The following is inserted after item 3 (after the preceding Amendments are applied):

4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and

1-05.AP1

Section 1-05, Control of Work

August 6, 2012

1-05.13(1) Emergency Contact List

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

The list shall include, at a minimum, the Prime Contractor's Project Manager, or equivalent, the Prime Contractor's Project Superintendent, the Erosion and Sediment Control (ESC) Lead and the Traffic Control Supervisor.

1-06.AP1

Section 1-06, Control of Material

August 5, 2013

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

The last paragraph is revised to read the following two new paragraphs:

Aggregate materials that are not approved for use in the ASA database may be sampled and tested by the Agency, for a specified use on a project, from the source or from a processed stockpile of the material and all cost for the sampling and testing will be deducted from the Contract.

The Contractor agrees to authorize the Project Engineer to deduct the sampling and testing costs from any money due or coming due to the Contractor.

1-06.1(4) Fabrication Inspection Expense

The first paragraph is revised to read:

In the event the Contractor elects to have items fabricated beyond 300 miles from Seattle, Washington, the Contracting Agency will deduct from payment due the Contractor costs to perform fabrication inspection on the following items:

- Bridge Bearings (Cylindrical, Disc, Fabric Pad, Pin, Pendulum, Rocker, and Spherical)
- Cantilever Sign Structures and Sign Bridges
- Epoxy-Coated Reinforcing Steel
- Metal Bridge Railing and Handrail
- Modular Expansion Joints
- Painted Piling and Casing
- Painted and Powder-Coated Luminaire and Signal Poles
- Precast Concrete Catch Basins, Manholes, Inlets, Drywells, and Risers
- Precast Concrete Drain, Perforated Underdrain, Culvert, Storm Sewer, and Sanitary Sewer Pipe
- Precast Concrete Three Sided Structures
- Precast Concrete Junction Boxes, Pull Boxes, Cable Vaults, Utility Vaults, and Box Culverts
- Precast Concrete Traffic Barrier
- Precast Concrete Marine Pier Deck Panels
- Precast Concrete Floor Panels
- Precast Concrete Structural Earth Walls, Noise Barrier Walls, and Wall Stem Panels
- Precast Concrete Retaining Walls, including Lagging Panels

- Prestressed Concrete Girders and Precast Bridge Components
- Prestressed Concrete Piles
- Seismic Retrofit Earthquake Restrainers
- Soldier Piles
- Steel Bridges and Steel Bridge Components
- Steel Column Jackets
- Structural Steel for Ferry Terminals, including items such as Dolphins, Wingwalls, and Transfer Spans
- Treated Timber and Lumber 6-inch by 6-inch or larger
- Timber
- Additional items as may be determined by the Engineer

The footnote below the table is revised to read:

- * An inspection day includes any calendar day or portion of a calendar day spent by one inspector inspecting, on standby, or traveling to and from a place of fabrication. An additional cost per inspection day will be assessed for each additional inspector. Reimbursement will be assessed at \$280.00 per day for weekends and holidays for each on site inspector in travel status, but not engaged in inspection or travel activities when fabrication activities are not taking place.

1-07.AP1

Section 1-07, Legal Relations and Responsibilities to the Public

April 1, 2013

1-07.1 Laws to be Observed

The following two sentences are inserted after the first sentence in the third paragraph:

In particular the Contractor's attention is drawn to the requirements of WAC 296.800 which requires employers to provide a safe workplace. More specifically WAC 296.800.11025 prohibits alcohol and narcotics from the workplace.

1-07.9(2) Posting Notices

This section is revised to read:

Notices and posters shall be placed in areas readily accessible to read by employees. The Contractor shall ensure the following are posted:

1. EEOC - P/E-1 (revised 11/09) - Equal Employment Opportunity is THE LAW published by US Department of Labor. Post for projects with federal-aid funding
2. FHWA-1022 (revised 11/11) - NOTICE Federal-Aid Project published by Federal Highway Administration (FHWA). Post for projects with federal-aid funding
3. WH 1321 (revised 04/09) - Employee Rights under the Davis-Bacon Act published by US Department of Labor. Post for projects with federal-aid funding
4. WHD 1088 (revised 07/09) - Employee Rights under the Fair Labor Standards Act published by US Department of Labor. Post on all projects

5. WHD - 1420 (revised 01/09) - Employee Rights and Responsibilities under The Family and Medical Leave Act published by US Department Of Labor. Post on all projects
6. WHD-1462 (revised 01/12) – Employee Polygraph Protection Act published by US Department of Labor. Post on all projects
7. F416-081-909 (revised 12/12) - Job Safety and Health Law published by Washington State Department of Labor and Industries. Post on all projects
8. F242-191-909 (revised 12/12) - Notice to Employees published by Washington State Department of Labor and Industries. Post on all projects
9. F700-074-909 (revised 12/12) - Your Rights as a Worker in Washington State by Washington State Department of Labor and Industries (L&I). Post on all projects
10. EMS 9874 (revised 04/12) - Unemployment Benefits published by Washington State Employee Security Department. Post on all projects
11. Post one copy of the approved “Statement of Intent to Pay Prevailing Wages” for the Contractor, each Subcontractor, each lower tier subcontractor, and any other firm (Supplier, Manufacturer, or Fabricator) that falls under the provisions of RCW 39.12 because of the definition of “Contractor” in WAC 296-127-010
12. Post one copy of the prevailing wage rates for the project

1-07.9(5) Required Documents

Item number 2. in the first paragraph is revised to read:

2. A copy of an approved “Affidavit of Prevailing Wages Paid”, State L&I’s form number F700-007-000. The Contracting Agency will not grant Completion until all approved Affidavit of Wages paid for Contractor and all Subcontractors have been received by the Project Engineer. The Contracting Agency will not release to the Contractor any funds retained under RCW 60.28.011 until all of the “Affidavit of Prevailing Wages Paid” forms have been approved by State L&I and a copy of all the approved forms have been submitted to the Engineer.

1-07.14 Responsibility for Damage

The fifth paragraph is revised to read:

Pursuant to RCW 4.24.115, if such claims, suits, or actions result from the concurrent negligence of (a) the indemnitee or the indemnitee’s agents or employees and (b) the Contractor or the Contractor’s agent or employees, the indemnity provisions provided in the preceding paragraphs of this Section shall be valid and enforceable only to the extent of the Contractor’s negligence or the negligence of its agents and employees.

1-07.15 Temporary Water Pollution/Erosion Control

The third paragraph is deleted.

1-07.AP1

**Section 1-07, Legal Relations and Responsibilities to the Public
January 6, 2014**

1-07.2 State Taxes

This section is revised to read:

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 Contracting Agency will not adjust its payment if the Contractor bases a Bid on a misunderstood tax liability.

The Contracting Agency may deduct from its payments to the Contractor, retainage or lien the bond, in the amount the Contractor owes the State Department of Revenue, whether the amount owed relates to the Contract in question or not. Any amount so deducted will be paid into the proper State fund on the contractor's behalf. For additional information on tax rates and application refer to applicable RCWs, WACs or the Department of Revenue's website.

1-07.2(1) State Sales Tax: Work Performed on City, County, or Federally-Owned Land

This section including title is revised to read:

1-07.2(1) State Sales Tax: WAC 458-20-171 – Use Tax

For Work designated as Rule 171, **Use Tax**, the Contractor shall include for compensation the amount of any taxes paid in the various unit Bid prices or other Contract amounts. Typically, these taxes are collected on materials incorporated into the project and items such as the purchase or rental of; tools, machinery, equipment, or consumable supplies not integrated into the project.

The Summary of Quantities in the Contract Plans identifies those parts of the project that are subject to **Use Tax** under Section 1-07.2(1).

1-07.2(2) State Sales Tax: Work on State-Owned or Private Land

This section including title is revised to read:

1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax

For Work designated as Rule 170, **Retail Sales Tax**, the Contractor shall collect from the Contracting Agency, **Retail Sales Tax** on the full Contract price. The Contracting Agency will automatically add this **Retail Sales Tax** to each payment to the Contractor and for this reason; the Contractor shall not include the **Retail Sales Tax** in the unit Bid prices or in any other Contract amount. However, the Contracting Agency will not provide additional compensation to the Prime Contractor or Subcontractor for **Retail Sales Taxes** paid by the Contractor in addition to the **Retail Sales Tax** on the total contract amount. Typically, these taxes are collected on items such as 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 prices or in any other Contract amounts.

The Summary of Quantities in the Contract Plans identifies those parts of the project that are subject to **Retail Sales Tax** under Section 1-07.2(2).

1-07.2(3) Services

This section is revised to read:

Any contract wholly for professional or other applicable services is generally not subject to **Retail Sales Tax** and therefore the Contractor shall not collect **Retail Sales Tax** from the Contracting Agency on those Contracts. Any incidental taxes paid as part of providing the services shall be included in the payments under the contract.

1-08.AP1

Section 1-08, Prosecution and Progress

April 1, 2013

1-08.1 Subcontracting

In the eighth paragraph, "Contracting Agency" is revised to read "WSDOT".

1-08.3(1) General Requirements

The following new paragraph is inserted after the first paragraph:

Total float belongs to the project and shall not be for the exclusive benefit of any party.

1-08.5 Time for Completion

The last paragraph in this section is supplemented with the following:

- e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors

1-08.7 Maintenance During Suspension

The second paragraph is revised to read:

At no expense to the Contracting Agency, the Contractor shall provide through the construction area safe, smooth, and unobstructed roadways and pedestrian access routes for public use during the suspension (as required in Section 1-07.23 or the Special Provisions.) This may include a temporary road, alternative pedestrian access route or detour.

1-09.AP1

Section 1-09, Measurement and Payment

April 1, 2013

1-09.1 Measurement of Quantities

The following new sentence is inserted after the sentence "'Ton':2,000 pounds of avoirdupois weight":

Items of payment that have "Lump Sum" or "Force Account" in the Bid Item of Work shall have no specific unit of measurement requirement.

1-09.2(5) Measurement

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

The frequency of verification checks will be such that at least one test weekly is performed for each scale used in weighing contract items of Work.

1-09.6 Force Account

In item No. **3. For Equipment**, the last sentence in the third sub-paragraph is revised to read:

In the event that prior quotations are not obtained and the vendor is a firm independent from the Contractor or Subcontractor, then after-the-fact quotations may be obtained by the Engineer from the open market in the vicinity and the lowest such quotation may be used in place of submitted invoice.

3-01.AP3

Section 3-01, Production From Quarry and Pit Sites

August 5, 2013

3-01.1 Description

In the first paragraph, “asphalt treated base” is deleted.

3-04.AP3

Section 3-04, Acceptance of Aggregate

August 5, 2013

3-04.3(7)D4 An Entire Lot

The last sentence is deleted.

3-04.3(8) Price Adjustments for Quality of Aggregate

The calculation in the first paragraph is revised to read:

Aggregate Compliance Price Adjustment = (Composite Pay Factor – 1.00)
(quantity of material) (unit bid price or Contingent Unit Price as shown in Table 1, whichever is higher.)

3-04.5 Payment

In the second paragraph, the reference “Section 3-04.3(6)C “ is revised to read “Section 3-04.3(8)“.

In Table 1, the top two rows are revised to read the following three new rows:

9-03.1	Concrete Aggregate (except pavement)	2000	1000 ¹	\$15.00 ²	\$30.00 ²
9-03.1	Concrete Aggregate (pavement)	4000	2000 ¹	\$15.00 ²	\$30.00 ²
9-03.4(2)	Crushed Screening ³	1000	500	\$20.00	\$40.00

In Table 1, the row containing the item “Gravel Borrow for Geosynthetic Retaining Wall” is revised to read:

9-03.14(4)	Gravel Borrow for Structural Earth Walls	4000	2000	\$30	\$60
------------	--	------	------	------	------

The footnotes below the Table 1 are revised to read:

1. Based on 1000 CY of Concrete.
2. Price adjustment only applies to the actual quantity of aggregate used in the concrete.
3. Contingent unit price per S.Y. is \$0.30.

In Table 2, the first row is revised to read:

9-03.1	Concrete Aggregate (all concrete aggregate -including pavement)	2	2	2	10	20				
--------	---	---	---	---	----	----	--	--	--	--

In Table 2, the row containing the item “Gravel Backfill for Foundations Class A” is revised to read:

9-03.12(1)A	Gravel Backfill for Foundations Class A ³									
-------------	--	--	--	--	--	--	--	--	--	--

In Table 2, the row containing the item “Gravel Borrow for Geosynthetic Retaining Wall” is revised to read:

9-03.14(4)	Gravel Borrow for Structural Earth Walls	2	2	5	5	5	10		Other ⁴
------------	--	---	---	---	---	---	----	--	--------------------

Item 1 in the footnotes below Table 2 is revised to read:

- 1 For Aggregate, the nominal maximum size sieve is the largest standard sieve opening listed in the applicable specification upon which more than 1-percent of the material by weight is permitted to be retained. For concrete aggregate, the nominal maximum size sieve is the smallest standard sieve opening through which the entire amount of aggregate is permitted to pass.

The footnotes below the Table 2 are supplemented with the following:

- 3 Use the price adjustment factors for the material that is actually used.
- 4 Resistivity 10, pH 10, Chlorides 5, and Sulfates 5.

4-06.AP4

**Section 4-06, Asphalt Treated Base
August 5, 2013**

This section including title is deleted in its entirety and replaced with the following:

Vacant

5-01.AP5

**Section 5-01, Cement Concrete Pavement Rehabilitation
January 6, 2014**

5-01.2 Materials

The referenced section for the following item is revised to read:

Dowel Bars 9-07.5

Section 5-01, Cement Concrete Pavement Rehabilitation
August 5, 2013

5-01.3(2)B Portland Cement Concrete

The fifth sentence in the third paragraph is revised to read:

The lower Specification limit for compressive strength shall be 4,000-psi.

The last two sentences in the third paragraph are deleted.

5-01.3(4) Replace Portland Cement Concrete Panel

This section is supplemented with the following:

Replacement panels that crack shall be repaired as specified in Section 5-05.3(22) at no cost to the Contracting Agency. Epoxy-coated dowel bars meeting the requirements of Section 9-07.5(1) may be substituted for the corrosion resistant dowel bars specified.

5-01.3(6) Dowel Bar Retrofit

The second sentence in the ninth paragraph is revised to read:

The foam insert shall fit tightly around the dowel and to the bottom and edges of the slot and extend to the top of the existing pavement surface.

5-01.3(11) Concrete Slurry

This section including title is revised to read:

5-01.3(11) Concrete Slurry and Grinding Residue

All concrete slurry and grinding residue shall be removed from the pavement surface on a continual basis immediately behind the grinding or cutting operations. Slurry shall not be allowed to drain into an area open to traffic, off of the paved surface or into any drainage structure.

The Contractor shall collect the concrete slurry and grinding residue from the pavement surface and dispose of it in accordance with Section 2-03.3(7)C.

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

5-02.AP5

Section 5-02, Bituminous Surface Treatment
August 5, 2013

In this section, "Asphalt Emulsion" is revised to read "Emulsified Asphalt".

5-02.1(1) New Construction

This section is revised to read:

This method of treatment requires two applications of emulsified asphalt and three applications of aggregate. The first application of emulsified asphalt is applied to an untreated Roadway that is followed with an application of aggregate. The second application of emulsified asphalt is followed with two additional applications of aggregate.

5-02.1(2) Seal Coats

This section is revised to read:

This method requires the placing of one application of emulsified asphalt and one or more sizes of aggregate as specified to an existing pavement to seal and rejuvenate the surface and to produce a uniform Roadway surface with acceptable nonskid characteristics.

5-02.2 Materials

The following new paragraph is inserted after the second paragraph:

Each source of aggregate for bituminous surface treatment shall be evaluated separately for acceptance in accordance with Section 3-04.

The second and fourth paragraphs (after implementing the preceding Amendment) are deleted.

5-02.3(1) Equipment

The second sentence in the second paragraph is revised to read:

A temperature measuring device shall be capable of reporting the temperature of emulsified asphalt in the tank.

5-02.3(2)A New Construction

The fourth and fifth paragraphs are revised to read:

Immediately before the first application of emulsified asphalt, the Roadway surface shall be in the following condition: firm and unyielding, damp, free from irregularities and material segregation, and true to line, grade, and cross-section.

No traffic will be allowed on the prepared surface until the first application of emulsified asphalt and aggregate has been completed.

5-02.3(3) Application of Asphalt and Aggregate

The table “Application Rate” is revised to read:

Application Rate			
	Undiluted Emulsified Asphalt (gal. per sq. yd.) Applied	Aggregate Size	Aggregate Application Rate (lbs. per sq. yd.)
New Construction			
First Application	0.35-0.65	½ inch- No. 4 or ¾ inch-½ inch	25-45
Second Application	0.35-0.60	½ inch- No. 4	25-40
Choke Stone	N/A	No. 4 - 0	4-6
Seal Coats			
⅝ inch – No. 4 Choke Stone	0.40-0.65	⅝ inch- No. 4 No. 4 - 0	25-45 4-6
½ inch – No. 4 Choke Stone	0.35-0.55	½ inch- No. 4 No. 4 - 0	20-35 4-6
⅜ inch – No. 4	0.35-0.55	⅜ inch- No. 4	20-30
Choke Stone	N/A	No. 4 - 0	4-6

The table “Pavement Sealing” is deleted.

The second paragraph is revised to read:

The Project Engineer will determine the application rates. The second application of emulsified asphalt shall be applied the next day, or as approved by the Project Engineer.

The second to last paragraph is revised to read:

Before application of the fog seal, all surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. The fog seal emulsified asphalt shall be CSS-1 or CSS-1h diluted with water at a rate of one part water to one part emulsified asphalt unless otherwise approved by the Project Engineer. The fog seal shall be uniformly applied to the pavement at a diluted rate of 0.10 – 0.18 gal/sy. The finished application shall be free of streaks and bare spots.

5-02.3(5) Application of Aggregates

The sixth paragraph is revised to read:

The Contractor shall apply choke stone to the Roadway with additional spreading equipment immediately following the initial rolling of the coarse aggregate unless otherwise specified in the Contract documents or specified by the Project Engineer. Excess aggregate shall be removed from the Roadway. A minimum of one pass with a pneumatic roller shall be made across the entire width of the applied choke stone.

5-02.3(7) Patching and Correction of Defects

The last sentence in the last paragraph is revised to read:

The CSS-1 or CSS-1h emulsified asphalt may be diluted with water at a rate of one part water to one part emulsified asphalt unless otherwise specified by the Project Engineer.

5-02.5 Payment

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

The unit Contract price per mile for “Processing and Finishing” shall be full pay for all cost to perform the specified work including, blading, scarifying, processing, leveling, finishing, and the manipulation of aggregates as required

The third paragraph is revised to read

“Emulsified Asphalt (_____)”, per ton.

The fourth paragraph is revised to read:

The unit Contract price per ton for “Emulsified Asphalt (_____)” shall be full pay for all costs to perform the specified Work including furnishing, heating, hauling, and spreading the emulsified asphalt on the Roadway.

The sixth paragraph is revised to read:

The unit Contract price per ton for “Asphalt for Fog Seal” shall be full pay for all costs to perform the specified Work for the fog seal.

The eighth paragraph is revised to read:

The unit Contract price per cubic yard for “Aggregate from Stockpile for BST” shall be full pay for all costs to perform the specified Work including loading, transporting, and placing the material in the finished Work.

The eleventh paragraph is revised to read:

The unit Contract price per cubic yard or per ton for “Furnishing and Placing Crushed () shall be full pay for costs to perform the specified Work including furnishing, transporting, and placing the material in the finished Work.

The thirteenth paragraph is revised to read:

The unit Contract price per hour for “Additional Brooming” shall be full pay for all costs to perform the specified Work including rebrooming the Roadway.

5-04.AP5

**Section 5-04, Hot Mix Asphalt
January 6, 2014**

5-04.3(7)A3 Commercial Evaluation

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

Mix designs for HMA accepted by commercial evaluation shall be submitted to the Project Engineer on WSDOT Form 350-042.

**Section 5-04, Hot Mix Asphalt
April 1, 2013**

5-04.2 Materials

The following material reference is deleted from this section:

Blending Sand 9-03.8(4)

The fourth paragraph is revised to read:

The grade of asphalt binder shall be as required by the Contract. Blending of asphalt binder from different sources is not permitted.

5-04.3(7)A1 General

This section is supplemented with the following:

The Contractor shall include the brand and type of anti-stripping additive in the mix design submittal and provide certification from the asphalt binder manufacture that the anti-stripping additive is compatible with the crude source and formulation of asphalt binder proposed in mix design.

5-04.3(7)A3 Commercial Evaluation

The second sentence in the second paragraph is deleted.

5-04.3(10)B3 Longitudinal Joint Density

The section including title is revised to read:

5-04.3(10)B3 Vacant

5-04.3(11)D General

The last sentence in the first paragraph is deleted.

5-04.3(12)A Transverse Joints

In the second paragraph “planning” is revised to read “planing”.

5-04.3(20) Anti-Stripping Additive

This section is revised to read:

Anti-stripping additive shall be added to the liquid asphalt by the asphalt supplier prior to shipment to the asphalt mixing plant. For HMA accepted by statistical and nonstatistical evaluation the anti-stripping additive shall be added in the amount designated in the WSDOT mix design/anti-strip evaluation report provided by the Contracting Agency. For HMA accepted by commercial evaluation the Project Engineer will determine the amount of anti-strip to be added; paving shall not begin before the anti-strip requirements have been provided to the Contractor.

5-04.4 Measurement

The first sentence in the first paragraph is revised to read:

HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture.

The last paragraph is deleted.

5-04.5 Payment

The bid item “Longitudinal Joint Density Price Adjustment”, by calculation and paragraph following bid item are deleted.

5-05.AP5

Section 5-05, Cement Concrete Pavement

August 5, 2013

5-05.3(1) Concrete Mix Design for Paving

The title in the table titled “Portland Cement Concrete Batch Volumes” is revised to read:

Portland Cement Concrete Batch Weights, per cubic yard of Concrete
--

5-05.3(6) Subgrade

The last paragraph in this section is deleted.

6-02.AP6

Section 6-02, Concrete Structures

January 6, 2014

6-02.3(6)A2 Cold Weather Protection

The first sentence in the first paragraph is revised to read:

This Specification applies when the weather forecast on the day of concrete placement predicts air temperatures below 35°F at any time during the 7 days following placement.

6-02.3(15) Date Numerals

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

When an existing Structure is widened or when traffic barrier is placed on an existing Structure, the date shall be for the year in which the original Structure was completed.

6-02.3(17)A Design Loads

The fifth paragraph is revised to read:

Live loads shall consist of a minimum uniform load of not less than 25 psf, applied over the entire falsework plan area, plus the greater of:

1. Actual weights of the deck finishing equipment applied at the rails, or;
2. A minimum load of 75 pounds per linear foot applied at the edge of the bridge deck.

6-02.3(17)J Face Lumber, Studs, Wales, and Metal Forms

The second to last paragraph is deleted.

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

The first five paragraphs are deleted and replaced with the following two new paragraphs:

Grout shall conform to Section 9-20.3(2) for anchor bolts and for bearing assemblies with bearing plates. Grout shall conform to Section 9-20.3(3) for elastomeric bearing pads and fabric pad bearings without bearing plates.

Grout shall be a workable mix with a viscosity that is suitable for the intended application. The Contractor shall receive approval from the Engineer before using the grout.

6-02.3(26)F Prestressing Reinforcement

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

If the prestressing reinforcement will not be stressed and grouted for more than 7 calendar days after it is placed in the ducts, the Contractor shall place an approved corrosion inhibitor conforming to Federal Specification MIL-I-22110C in the ducts.

Section 6-02, Concrete Structures

January 7, 2013

6-02.3(2) Proportioning Materials

The Lean Concrete value in the column “Minimum Cementitious Content (pounds)” in the table titled “Cementitious Requirement for Concrete” is revised to read:

****145

The following new note is inserted after the note “**** No maximum specified” in the table titled “Cementitious Requirement for Concrete”:

****Maximum of 200 pounds

The paragraph following the table “Cementitious Requirements for Concrete” is revised to read:

When both ground granulated blast furnace slag and fly ash are included in the concrete mix, the total weight of both these materials is limited to 40 percent by weight of the total cementitious material for concrete Class 4000D and 4000A, and 50 percent by weight of the total cementitious material for all other classes of concrete.

6-02.3(2)B Commercial Concrete

The second paragraph is revised to read:

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

6-02.3(2)D Lean Concrete

This section is revised to read:

Lean concrete shall meet the cementitious requirements of Section 6-02.3(2) and have a maximum water/cement ratio of 2.

6-02.3(4)A Qualification of Concrete Suppliers

The first paragraph is revised to read :

Batch Plant Prequalification requires a certification by the National Ready Mix Concrete Association (NRMCA). Information concerning NRMCA certification may be obtained from the NRMCA at 900 Spring Street, Silver Springs, MD 20910 or online at www.nrmca.org. The NRMCA certification shall be valid for a 2-year period from the date of certificate. The following documentation shall be submitted to the Project Engineer; a copy of the current NRMCA Certificate of Conformance, the concrete mix design(s) (WSDOT Form 350-040), along with copies of the truck list, batch plant scale certification, admixture dispensing certification, and volumetric water batching devices (including water meters) verification.

6-02.3(5)G Sampling and Testing Frequency for Temperature, Consistency, and Air Control

The last sentence in the second paragraph is revised to read:

Sampling shall be performed in accordance with WSDOT FOP for WAQTC TM 2 and random samples shall be selected in accordance with WSDOT TM 716.

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

This section is revised to read:

The Contractor shall submit the pigmented sealer manufacturer’s written instructions covering, at a minimum, the following:

1. Surface preparation
2. Application methods
3. Requirements for concrete curing prior to sealer application
4. Temperature, humidity and precipitation limitations for application
5. Rate of application and number of coats to apply

The Contractor shall not begin applying pigmented sealer to the surfaces specified to receive the sealer until receiving the Engineer's approval of the submittal.

All surfaces specified in the Plans to receive pigmented sealer shall receive a Class 2 surface finish (except that concrete barrier surfaces shall be finished in accordance with Section 6-02.3(11)A). The Contractor shall not apply pigmented sealer from a batch greater than 12 months past the initial date of color sample approval of that batch by the Engineer.

The pigmented sealer color or colors for specific concrete surfaces shall be as specified in the Special Provisions.

The final appearance shall be even and uniform without blotchiness, streaking or uneven color. Surface finishes deemed unacceptable by the Engineer shall be re-coated in accordance with the manufacturer's recommendations at no additional expense to the Contracting Agency.

For concrete surfaces such as columns, retaining walls, pier walls, abutments, concrete fascia panels, and noise barrier wall panels, the pigmented sealer shall extend to 1 foot below the finish ground line, unless otherwise shown in the Plans.

6-02.3(16) Plans for Falsework and Formwork

Item No. 4 in the seventh paragraph is revised to read:

4. Conditions required by other Sections of 6-02.3(17), Falsework and Formwork.

Item's No. 5, 6, 7, and 8 in the seventh paragraph are deleted.

The following paragraph is inserted after the seventh paragraph:

Plan approval can be done by the Project Engineer for footings and walls 4 to 8 feet high (excluding pedestal height) provided:

1. Concrete placement rate is 4 feet per hour or less.
2. Facing is ¾-inch plywood with grades as specified per Section 6-02.3(17)I.
3. Studs, with plywood face grain perpendicular, are 2 by 4's spaced at 12 inches.
4. Walers with 3,000 pound safe working load ties spaced at 24 inches are two 2 by 4's spaced at 24 inches.

6-02.3(17)F Bracing

In the first paragraph, the phrase “per Section 6-02.3(17)F” is revised to read “in accordance with Section 6-02.3(17)F”.

This section is supplemented with the following new sub-section:

6-02.3(17)F5 Temporary Bracing for Bridge Girders During Diaphragm and Bridge Deck Concrete Placement

Prestressed concrete girders shall be braced to resist forces that would cause rotation or torsion in the girders caused by the placing of precast concrete deck panels and concrete for the bridge deck.

Bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. These braces shall be furnished, installed, and removed by the Contractor at no additional cost to the Contracting Agency. The Contractor may consider the bracing effects of the diaphragms in developing the falsework/formwork plans. The Contractor shall account for the added load from concrete finishing machines and other construction loadings in the design of the bracing.

Falsework support brackets and braces shall not be welded to structural steel bridge members or to steel reinforcing bars.

6-02.3(17)F4 Temporary Bracing for Bridge Girders

This section including title is revised to read:

6-02.3(17)F4 Temporary Bracing for Bridge Girders During Erection

Steel girders shall be braced in accordance with Section 6-03.3(7)A.

Prestressed concrete girders shall be braced sequentially during girder erection. The bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. The Contractor shall furnish, install, and remove the bracing at no additional cost to the Contracting Agency.

At a minimum, the Contractor shall brace girders at each end and at midspan to prevent lateral movement or rotation. This bracing shall be placed prior to the release of each girder from the erection equipment. If the bridge is constructed with cast-in-place concrete diaphragms, the bracing may be removed once the concrete in the diaphragms has been placed and cured for a minimum of 24 hours.

6-02.3(17)H Formwork Accessories

The first paragraph is deleted and replaced with the following two new paragraphs:

Formwork accessories such as form ties, form anchors, form hangers, anchoring inserts, and similar hardware shall be specifically identified in the formwork plans including the name and size of the hardware, manufacturer, safe working load, and factor of safety. The grade of steel shall also be indicated for threaded rods, coil rods, and similar hardware. Wire form ties shall not be used. Welding or clamping formwork accessories to Contract Plan reinforcing steel will not be allowed. Driven types of anchorages for fastening forms or form supports to concrete, and Contractor fabricated “J” hooks shall not be used. Field drilling of holes in prestressed girders is not allowed.

Taper ties may be used provided the following conditions are met:

1. The structure is not designed to resist water pressure (pontoons, floating dolphins, detention vaults, etc.)
2. After the taper tie is removed, plugs designed and intended for plugging taper tie holes shall be installed at each face of concrete. The plug shall be installed a minimum of 1 ½" clear from the face of concrete.
3. After the plug is installed, the hole shall be cleaned of all grease, contamination and foreign matter.
4. Holes on the exposed faces of concrete shall be patched and finished to match the surrounding concrete.

6-02.3(25)N Prestressed Concrete Girder Erection

The third sentence in the fifth paragraph is revised to read:

The girders shall be braced in accordance with Sections 6-02.3(17)F4 and 6-02.3(17)F5.

6-02.3(26)E5 Leak Tightness Testing

The first sentence in the first paragraph is revised to read:

The Contractor shall test each completed duct assembly for leak tightness after placing concrete but prior to placing post tensioning reinforcement.

The second paragraph is revised to read:

Prior to testing, all grout caps shall be installed and all vents, grout injection ports, and drains shall either be capped or have their shut-off valves closed. The Contractor shall pressurize the completed duct assembly to an initial air pressure of 50 psi. This pressure shall be held for five minutes to allow for internal adjustments within the assembly. After five minutes, the air supply valve shall be closed. The Contractor shall monitor and measure the pressure maintained within the closed assembly, and any subsequent loss of pressure, over a period of one minute following the closure of the air supply valve. The maximum pressure loss for duct assemblies equal to or less than 150 feet in length shall be 25 psig. The maximum pressure loss for duct assemblies greater than 150 feet in length shall be 15 psig. If the pressure loss exceeds the allowable, locations of leakage shall be identified, repaired or reconstructed using methods approved by the Engineer. The repaired system shall then be retested. The cycle of testing, repair and retesting of each completed duct assembly shall continue until the completed duct assembly completes a test with pressure loss within the specified amount.

6-03.AP6

Section 6-03, Steel Structures

August 5, 2013

6-03.3(7)A Erection Methods

The following new paragraph is inserted after the second paragraph:

The Contractor may submit for approval the use of an engineered and fabricated lifting bracket bolted to the girder top flanges providing the following requirements are satisfied:

1. The lifting bracket shall be engineered and supporting calculations shall be submitted with the erection plan;
2. The calculations shall include critical stresses in the girder including local stresses in the flanges at lifting bracket locations;
3. The calculations shall include computation of the lifting bracket and associated bolt hole locations and the expected orientation of the girder during picking operation;
4. The lifting bracket shall be load tested and certified for a load at least 2 times the working load and at all angles it will be used (angle of load or rigging). Certification documentation from a previous project may be submitted for approval;
5. Bolt holes in girders added for the lifting bracket connections shall be shown in the shop plans and shall be drilled in the shop. Field drilling of bolt holes for lifting brackets will not be permitted;
6. Bolt holes in girder top flanges shall be filled with high strength bolts after erection in accordance with Section 6-02.3(17)K.

The last sentence in the fourth paragraph (after implementing the preceding Amendment) is revised to read:

The plan, including lifting bracket working drawings and calculations, shall be prepared by (or under the direct supervision of) a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and shall carry the engineer's seal and signature, in accordance with Section 6-02.3(16).

6-03.3(13) Fabricating Tension Members

Item number 2. is revised to read:

2. Fabricated from plate stock with the primary rolling direction of the stock parallel to the length of the member, or as shown in the Plans.

6-03.3(28)A Method of Shop Assembly

The first sentence in Item 2.C. is revised to read:

For Trusses and Girders – After the first stage has been completed, each subsequent stage shall be assembled to include: at least one truss panel or girder shop section of the previous stage and two or more truss panels or girder shop sections added at the advancing end.

6-03.3(32) Assembling and Bolting

The first sentence in the fourth paragraph is revised to read:

To complete a joint following one of the methods listed above, the Contractor shall fill all remaining holes of the field connection or splice place with bolts and tighten to snug-tight.

The following two new paragraphs are inserted after the fourth paragraph:

The Contractor shall complete the joint or connection within ten calendar days of installing the first bolt or within a duration approved by the Engineer. Any bolts inserted in an incomplete connection, either loose or tightened snug-tight, which exceed the specified duration for completing the connection, shall be subject to the following requirements:

1. Three assemblies for each size and length shall be removed from connection(s) that are to be tensioned. Rotational capacity tests shall be performed on the removed assemblies to demonstrate the assembly has sufficient lubricant to be tensioned satisfactorily.
2. Five assemblies shall be removed from the connection to establish the inspection torque.
3. In the case of tension controlled bolts, three assemblies shall be removed and tested in accordance with Section 6-03.3(33)A to verify the minimum specified tension can be achieved prior to shearing of the spline.

Assemblies removed for the purpose of rotational capacity testing, determination of the inspection torques, or verification of tension controlled bolt performance shall be replaced with new bolts at no additional expense to the Contracting Agency. To minimize the number of removed assemblies, the Contractor may combine rotational capacity testing and inspection torque determination as approved by the Engineer.

6-03.3(33) Bolted Connections

The fourth paragraph is revised to read:

All bolted connections are slip critical. Painted structures require either Type 1 or Type 3 bolts. Unpainted structures require Type 3 bolts. Bolts shall not be galvanized unless specified in the Contract documents. AASHTO M 253 bolts shall not be galvanized and shall not be used in contact with galvanized metal.

In the tenth paragraph, the first paragraph of Item number 3. is revised to read:

3. **Twist Off Type Tension Control Structural Bolt/Nut/Washer Assembly Method (Tension Control Bolt Assembly)** - Tension control bolt assemblies shall include the bolt, nut, and washer(s) packaged and shipped as a single assembly. Unless otherwise approved by the Engineer, tension control bolt assembly components shall not be interchanged for testing or installation and shall comply with all provisions of ASTM F 1852. If approved by the Engineer, the tension control bolt assembly components may be interchanged within the same component lot for girder web splices or other locations where access to both sides of the connection is restricted.

6-03.3(33)A Pre-Erection Testing

The following new paragraph is inserted after the fourth paragraph:

Three twist off-type tension controlled bolt assemblies, per assembly lot, shall be tested in a bolt tension calibrator. The bolts shall first be tensioned to a snug tight condition. Tensioning shall then be completed by tightening the assembly nut in a continuous operation using a spline drive installation tool until the spline shears from the bolt. The bolt assembly tension shall meet the requirements of Table 1. If any specimen fails, the assembly lot is rejected.

6-03.3(33)B Bolting Inspection

The first paragraph is revised to read:

The Contractor, in the presence of the Project Engineer, shall inspect the tightened bolt using a calibrated inspection torque wrench, regardless of bolting method. The Contractor shall supply the inspection torque wrench. Inspection shall be performed within seven calendar days from the completion of each bolted connection or as approved by the Project Engineer.

6-03.3(36) Setting and Grouting Masonry Plates

Item number 2. in the second paragraph is revised to read:

2. Place steel shims under the masonry plates to position pin centers or bearings to line and grade and in relationship to each other. Steel shims shall be the size and be placed at the locations shown in the Plans;

6-03.3(39) Swinging the Span

The second and third paragraphs are revised to read:

After the falsework is released (spans swung free), the masonry plates, shoes, and keeper plates are grouted, and before any load is applied, the Contractor (or the Engineer if the Contracting Agency is responsible for surveying) shall survey elevations at the tenth points along the centerline on top of all girders and floorbeams. The Contractor shall calculate the theoretical top of girder or floorbeam flange elevations and compare the calculated elevations to the surveyed elevations. The theoretical pad or haunch depth shown in the Plans shall be increased or decreased by the difference between the theoretical and surveyed top of girder or floorbeam elevations. The soffit (deck formwork) shall be set based on the Plan bridge deck thickness and the adjusted pad or haunch depth.

The Contractor shall submit all survey data and calculations to the Engineer for review ten working days prior to placing any load, beyond the maximum five pounds per square foot of form weight allowed, on the Structure.

6-05.AP6

Section 6-05, Piling

August 6, 2012

6-05.5 Payment

The paragraph following the bid item, "Driving St. Pile", per each is revised to read:

The unit Contract price per each for "Driving (type) Pile (____)" shall be full pay for driving the pile to the ultimate bearing and/or penetration specified.

6-06.AP6

Section 6-06, Bridge Railings

August 6, 2012

6-06.3(2) Metal Railings

The third paragraph is revised to read:

Anchor bolts shall be positioned with a template to ensure that bolts match the hole spacing of the bottom channels or anchorage plates.

6-07.AP6

Section 6-07, Painting

January 6, 2014

6-07.3(10)E Surface Preparation – Full Paint Removal

This section is revised to read:

For structures where full removal of existing paint is specified, the Contractor shall remove any visible oil, grease, and road tar in accordance with SSPC-SP 1.

Following preparation by SSPC-SP 1, all steel surfaces to be painted shall be prepared in accordance with SSPC-SP 10, near-white metal blast cleaning. Surfaces inaccessible to near-white metal blast cleaning shall be prepared in accordance with SSPC-SP 11, power tool cleaning to bare metal, as allowed by the Engineer.

Section 6-07, Painting

August 5, 2013

6-07.3(9)A Paint System

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

All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-07.3(10)H Paint System

The first and second sentences in the second paragraph are revised to read:

All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-07.3(10)N Field Coating Application Methods

The first sentence is revised to read:

The Contractor shall apply paint materials in accordance with the manufacturer's recommendations by air or airless spray, brush, roller, or any combination of these methods unless otherwise specified.

The third sentence is revised to read:

The Contractor shall use brushes to apply the stripe coat, to ensure complete coverage around structural geometric irregularities, and to push the paint into gaps between existing steel surfaces and around rivets and bolts.

6-07.3(10)O Applying Field Coatings

The first sentence in the sixth paragraph is revised to read:

All steel surfaces cleaned to bare metal by abrasive blast cleaning shall receive the primer coat within the same working day as the cleaning to bare metal and before any rust begins to form.

6-07.5 Payment

The third paragraph is revised to read:

The lump sum Contract price for "Cleaning and Painting - _____" shall be full pay for the Work as specified, including developing all submittals, arranging for and accommodating contact and on-site attendance by the paint manufacturer's technical representative, furnishing and placing all necessary staging and rigging, furnishing, operating and mooring barges, furnishing and operating fixed and movable work platforms, accommodating Contracting Agency inspection access, conducting the Contractor's quality control inspection program, providing material, labor, tools, and equipment, furnishing containers for containment waste, collecting and storing containment waste, collecting, storing, testing, and disposing of all containment waste not conforming to the definition in Section 6-07.3(10)F, performing all cleaning and preparation of surfaces to be painted, applying all coats of paint and sealant, correcting coating deficiencies, completing coating repairs, and completing project site cleanup.

The first sentence in the fourth paragraph is revised to read:

Progress payments for "Cleaning and Painting - _____" will be made on a monthly basis and will be based on the percentage of the total estimated area satisfactorily cleaned and coated as determined by the Project Engineer.

6-10.AP6

Section 6-10, Concrete Barrier

August 5, 2013

6-10.3 Construction Requirements

This section is supplemented with the following:

Steel welded wire reinforcement deformed, conforming to Section 9-07.7, may be substituted in concrete barrier in place of deformed steel bars conforming to Section 9-07.2, subject to the following conditions:

1. Steel welded wire reinforcement spacing shall be the same as the deformed steel bar spacing as shown in the Standard Plans.
2. The minimum cross sectional area for steel welded wire reinforcement shall be no less than 86 percent of the cross sectional area for the deformed steel bars being substituted.
3. Development lengths and splice lengths shall conform to requirements specified in the AASHTO LRFD Bridge Design Specifications, current edition.

6-10.3(6) Placing Concrete Barriers

The first and second sentences in the first paragraph are revised to read:

Precast concrete barrier Types 2 and 4, precast single slope barrier, and transitions shall rest on a paved foundation shaped to a uniform grade and section. The foundation surface for precast concrete barrier Types 2 and 4, precast single slope barrier, and transitions shall meet this test for uniformity:

6-10.5 Payment

In the second paragraph, the bid item "Conc. Class 4000" is revised to read:

"Conc. Class 4000 ___"

6-12.AP6

Section 6-12, Noise Barrier Walls

August 6, 2012

6-12.3(3) Shaft Construction

The third sentence in the fifth paragraph is revised to read:

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-12.5.

6-12.3(6) Precast Concrete Panel Fabrication and Erection

The second sentence in item number 3 is deleted.

6-12.5 Payment

This section is supplemented with the following:

"Removing Noise Barrier Wall Shaft Obstructions", estimated.

Payment for removing obstructions, as defined in Section 6-12.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Noise Barrier Wall Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;
2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-13.AP6
Section 6-13, Structural Earth Walls
April 1, 2013

6-13.2 Materials

In the first paragraph, the following item is inserted after the item “Aggregates for Portland Cement Concrete”:

Gravel Borrow for Structural Earth Walls 9-03.14(4)

6-13.4 Measurement

In the second paragraph, “Backfill” is revised to read “Gravel borrow”.

6-13.5 Payment

In this section, the bid item “Backfill for Structural Earth Wall Incl. Haul” is revised to read:

“Gravel Borrow for Structural Earth Wall incl. Haul”.

6-14.AP6
Section 6-14, Geosynthetic Retaining Walls
April 1, 2013

6-14.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Portland Cement	9-01
Aggregates for Portland Cement Concrete	9-03.1
Sand	9-03.13(1)
Gravel Borrow for Structural Earth Wall	9-03.14(4)
Polyurethane Sealant	9-04.2(3)
Closed Cell Foam Backer Rod	9-04.2(3)A
Anchor Rods and Associated Nuts, Washers, and Couplers	9-06.5(1)
Reinforcing Steel	9-07
Wire Mesh for Concrete Reinforcement	9-07.7
Grout	9-20.3(4)
Construction Geosynthetic	9-33

6-14.4 Measurement

In the second paragraph, “geosynthetic retaining wall backfill” is revised to read ”structural earth wall backfill”.

6-14.5 Payment

In this section, the bid item “Gravel Borrow for Geosynthetic Ret. Wall Incl. Haul”. Is revised to read:

“Gravel Borrow for Structural Earth Wall incl. Haul”

6-15.AP6
Section 6-15, Soil Nail Walls
January 2, 2012

6-15.2 Materials

The referenced section for the following item is revised to read:

Grout 9-20.3(4)

6-15.3(3) Submittals

Item f beneath item number 3 is revised to read:

- f. Mix design and procedures for placing the grout.

6-15.3(6) Soil Nailing

This section is supplemented with the following:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification and proof testing of the soil nails has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

6-16.AP6
Section 6-16, Soldier Pile and Soldier Pile Tieback Walls
January 2, 2012

6-16.3(3) Shaft Excavation

The third sentence in the seventh paragraph is revised to read:

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-16.5.

6-16.5 Payment

This section is supplemented with the following:

“Removing Soldier Pile Shaft Obstructions”, estimated.

Payment for removing obstructions, as defined in Section 6-16.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Soldier Pile Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;
2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-17.AP6

Section 6-17, Permanent Ground Anchors
August 6, 2012

6-17.3(3) Submittals

The first sentence in the sixth paragraph is revised to read:

The Contractor shall submit the mix design for the grout conforming to Section 9-20.3(4) and the procedures for placing the grout to the Engineer for approval.

6-17.3(7) Installing Permanent Ground Anchors

The following new paragraph is inserted after the sixth paragraph:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification, performance and proof testing of the permanent ground anchors has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

6-17.3(9) Permanent Ground Anchor Acceptance Criteria

The fourth paragraph is deleted.

6-19.AP6

Section 6-19, Shafts
August 5, 2013

6-19.3(2) Submittal

This section including title is revised to read:

Shaft Construction Submittals

The shaft construction submittal shall be comprised of the following three components: construction experience; shaft installation narrative; and shaft slurry technical assistance. The submittal shall be

submitted in a PDF format to the Project Engineer a minimum of 30 calendar days prior to the start of the Work.

6-19.3(2)A Construction Experience Submittal

This section's title is revised to read:

Construction Experience

The first sentence in the first paragraph is revised to read:

The Contractor shall submit a project reference list to the Project Engineer for verifying the successful completion by the Contractor of at least three separate foundation projects with shafts of diameters and depths similar to or larger than those shown in the Plans, and ground conditions similar to those identified in the Contract.

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

The Contractor shall submit a list identifying the on-site supervisors and drill rig operators potentially assigned to the project to the Project Engineer.

The first and second sentences in the last paragraph are deleted.

6-19.3(2)B Shaft Installation Narrative Submittal

This section's title is revised to read:

Shaft Installation Narrative

The first sentence in the first paragraph is revised to read:

The Contractor shall submit a shaft installation narrative to the Engineer.

Item number 4. (except the table) is revised to read:

4. A slurry mix design, including all additives and their specific purpose in the slurry mix, with a discussion of its suitability to the anticipated subsurface conditions shall be submitted and include the procedures for mixing, using, and maintaining the slurry. A detailed plan for quality control of the selected slurry, including tests to be performed, test methods to be used, and minimum and/or maximum property requirements which must be met to ensure the slurry functions as intended, considering the anticipated subsurface conditions and shaft construction methods, in accordance with the slurry manufacturer's recommendations and these Special Provisions shall be included. As a minimum, the slurry quality control plan shall include the following tests:

Item number 9. is revised to read (except the lettered items):

9. Reinforcing steel shop drawings with details of reinforcement placement, including bracing, centering, and lifting methods, and the method to ensure the reinforcing cage position is maintained during construction, including use of bar boots and/or rebar cage base plates, and including placement of rock backfill below the bottom of shaft elevation, provided the conditions of Section 6-19.3(5)D are satisfied.

The reinforcing steel shop drawings and shaft installation narrative shall include, at a minimum:

The paragraph following item number 9 n is deleted.

The first sentence in the paragraph following item number 9 n.. (after implementing the preceding Amendment) is revised to read:

The Engineer will evaluate the shaft installation narrative for conformance with the Plans, Specifications, and Special Provisions, within the review time specified.

6-19.3(2)C Shaft Slurry Technical Assistance Submittal

This section's title is revised to read:

Shaft Slurry Technical Assistance

The second sentence in the first paragraph (except for the numbered items) is revised to read:

The Contractor shall submit the following to the Engineer:

6-19.3(4)B Minimum Level of Slurry in the Excavation

This section is revised to read:

When slurry is used in a shaft excavation the following is required:

1. The height of the slurry shall be as required to provide and maintain a stable hole to prevent bottom heave, caving, or sloughing of all unstable zones.
2. The Contractor shall provide casing, or other means, as necessary to meet these requirements.
3. The slurry level in the shaft while excavating shall be maintained above the groundwater level the greater of the following dimensions:
 - a. Not less than 5 feet for mineral slurries.
 - b. Not less than 10 feet for water slurries.
 - c. Not less than 10 feet for synthetic slurries.
4. The slurry level in the shaft throughout all stops as specified in Section 6-19.3(3)A and during concrete placement as specified in Section 6-19.3(7) shall be no lower than the water level elevation outside the shaft.

6-19.3(4)F Slurry Disposal

This section including title is revised to read:

6-19.3(4)F Disposal of Slurry and Slurry Contacted Spoils

The Contractor shall dispose of the slurry and slurry-contacted spoils as specified in the shaft installation narrative in accordance with Section 6-19.3(2)B, item 8, and in accordance with the following requirements:

1. Water slurry with no additives may be infiltrated to an upland area within the confines of the Contracting Agency Right of Way for the project. Infiltration is allowed provided the ground-line at the disposal site is at least 5 feet above the current water table, and that disposal operations conform to the temporary erosion and sedimentation control (TESC) requirements established for this project. For the purposes of water slurry disposal, upland is defined as an area that has no chance of discharging directly to waters of the State, including wetlands or conveyances that indirectly lead to wetlands or waters of the State. Spoils in contact with this slurry may be disposed of as clean fill.

2. Synthetic slurry and water slurry with polymer-based additives shall be contained and disposed of by the Contractor at an approved facility. The Contractor shall acquire all permits or approvals necessary for disposal of the slurry and shall provide copies to the Engineer. Spoils in contact with synthetic slurry or water slurry with polymer-based additives shall be disposed of in accordance with Section 2-03.3(7)C. With approval of the Engineer, the Contractor may re-use these spoils on-site.
3. Mineral slurry may be infiltrated to a temporary sediment trap located in an upland area within the confines of the Contracting Agency Right of Way for the project. Infiltration is allowed provided the ground-line at the disposal site is at least 5 feet above the current water table, and that disposal operations conform to the temporary erosion and sedimentation control (TESC) requirements established for this project. For the purposes of mineral slurry disposal, upland is defined as an area that has no chance of discharging directly to waters of the State, including wetlands or conveyances that indirectly lead to wetlands or waters of the State. Spoils in contact with mineral slurry shall be disposed of in accordance with Section 2-03.3(7)C. With approval of the Engineer, the Contractor may re-use these spoils on-site.

7-02.AP7

Section 7-02, Culverts

August 6, 2012

7-02.2 Materials

Note 3 in the table titled, "Culvert Pipe Schedules" is revised to read:

³Polypropylene pipe, 12 inch to 30 inch diameters approved for Schedule A and Schedule B, 36 inch to 60 inch diameters approved for Schedule A only.

7-02.5

The bid item "Steel Rib Reinforced Polyethylene Culvert Pipe _____ In. Diam.", per linear foot is revised to read:

"St. Rib Reinf Polyethylene Culv. Pipe _____ In. Diam.", per linear foot

7-03.AP7

Section 7-03, Structural Plate Pipe, Pipe Arch, Arch, and Underpass

August 6, 2012

7-03.3(1) Foundations, General

This section is supplemented with the following:

When aluminum pipe or pipe arch is in contact with cement concrete, two coats of paint shall be applied in accordance with Section 7-08.3(2)D.

7-03.3(5) Headwalls

This section is supplemented with the following:

When aluminum pipe or pipe arch is in contact with cement concrete, two coats of paint shall be applied in accordance with Section 7-08.3(2)D.

7-04.AP7

Section 7-04, Storm Sewers
August 6, 2012

7-04.3(1)B Exfiltration Test – Storm Sewers

The fifth column title “PE⁴” is revised to read “PP⁴” from the table titled, “Storm Sewer Pipe Schedules”.

Note 4 in the table titled, “Storm Sewer Pipe Schedules” is revised to read:

⁴PP = Polypropylene Pipe, 12 inch to 30 inch approved for Schedule A and Schedule B, 36 inch to 60 inch diameters approved for Schedule A only.

7-04.5

The bid item “Steel Rib Reinforced Polyethylene Storm Sewer Pipe _____ In Diam”, per linear foot is revised to read:

“St. Rib Reinf Polyethylene Storm Sewer Pipe _____ In. Diam”, per linear foot

7-05.AP7

Section 7-05, Manholes, Inlets, Catch Basins, and Drywells
April 2, 2012

7-05.3 Construction Requirements

The third paragraph is supplemented with the following:

Leveling and adjustment devices that do not modify the structural integrity of the metal frame, grate or cover, and do not void the originating foundry’s compliance to these specifications and warranty is allowed. Approved leveling devices are listed in the Qualified Products List. Leveling and adjusting devices that interfere with the backfilling, backfill density, grouting and asphalt density will not be allowed. The hardware for leveling and adjusting devices shall be completely removed when specified by the Project Engineer.

7-08.AP7

Section 7-08, General Pipe Installation Requirements
August 6, 2012

7-08.3(2)D Pipe Laying – Steel or Aluminum

The following new sentence is inserted after the first sentence in the second paragraph:

The paint shall cover all the surface in contact with the concrete and extend one inch beyond the point of contact.

7-09.AP7

Section 7-09, Water Mains
August 6, 2012

7-09.3(19)A Connections to Existing Mains

In the second paragraph, “Special Conditions” is revised to read “Special Provisions”.

8-01.AP8

**Section 8-01, Erosion Control and Water Pollution Control
August 5, 2013**

8-01.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Corrugated Polyethylene Drain Pipe	9-05.1(6)
Quarry Spalls	9-13
Seed	9-14.2
Fertilizer	9-14.3
Mulch and Amendments	9-14.4
Tackifiers	9-14.4(7)
Erosion Control Devices	9-14.5
High Visibility Fence	9-14.5
Construction Geotextile	9-33

8-01.3(1) General

The last two sentences in the first paragraph are deleted.

In the seventh paragraph, “perimeter silt fencing” is revised to read “silt fencing”.

8-01.3(2)D Mulching

The following two new paragraphs are inserted after the fourth paragraph:

Short-Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and may be applied in one lift.

Moderate-Term Mulch and 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.

8-01.3(2)E Soil Binders and Tacking Agents

This section including title is revised to read:

8-01.3(2)E Tackifiers

Tackifiers applied using a hydroseeder shall have a mulch tracer added to visibly aid uniform application. This tracer shall not be harmful to plant, aquatic, or animal life. A minimum of 125 pounds per acre and a maximum of 250 pounds per acre of Short-Term Mulch shall be used as a tracer. Tackifier shall be mixed and applied in accordance with the manufacturer’s recommendations.

Soil Binding Using Polyacrylamide (PAM) – The PAM shall be applied on bare soil completely dissolved and mixed in water or applied as a dry powder. Dissolved PAM shall be applied at a rate of not more than $\frac{2}{3}$ pound per 1,000 gallons of water per acre. A minimum of 200 pounds per acre of Short-Term Mulch shall be applied with the dissolved PAM. Dry powder applications may be at a rate of 5 pounds per acre using a hand-held fertilizer spreader or a tractor-mounted spreader.

PAM shall be applied only to areas that drain to completed sedimentation control BMPs in accordance with the TESC Plan. PAM may be reapplied on actively worked areas after a 48-hour period.

PAM shall not be applied during rainfall or to saturated soils

8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch

In the first paragraph, "Engineer" is revised to read "Project Engineer".

Note 1 of the table in the first paragraph is revised to read:

¹ Where Contract timing is appropriate, seeding, fertilizing, and mulching shall be accomplished during the fall period listed above

The third paragraph is deleted.

8-01.3(3) Placing Erosion Control Blanket

This section including title is revised to read:

8-01.3(3) Placing Biodegradable Erosion Control Blanket

Biodegradable Erosion Control Blankets are used as an erosion prevention device and to enhance the establishment of vegetation. Erosion control blankets shall be installed according to the manufacturer's recommendations.

Seeding and fertilizing shall be done prior to blanket installation.

Select erosion control blanket material for an area based on the intended function: slope or ditch stabilization, and site specific factors including soil, slope gradient, rainfall, and flow exposure. Erosion Control Blankets shall not be used on slopes or in ditches that exceed the manufacturer's recommendations.

8-01.3(4) Placing Compost Blanket

This section is revised to read:

Compost blanket shall be placed to a depth of 3 inches over bare soil. Compost blanket shall be placed prior to seeding or other planting. An organic tackifier shall be placed over the entire composted area when dry or windy conditions are present or expected before the final application of mulch or erosion control blanket. The tackifier shall be applied immediately after the application of compost to prevent compost from leaving the composted area.

Compost shall be Medium Compost.

8-01.3(5) Placing Plastic Covering

This section including title is revised to read:

Plastic Covering

Erosion Control - Plastic coverings used to temporarily cover stock piled materials, slopes or bare soils shall be installed and maintained in a way that prevents water from intruding under the plastic and prevents the plastic cover from blowing open in the wind. Plastic coverings shall be placed with at least a 12-inch overlap of all seams and be a minimum of 6 mils thick.

Containment - Plastic coverings used to line concrete washout areas, contain wastewaters, or used in secondary containment to prevent spills, shall be seamless to prevent infiltration and be a minimum of 10 mils thick.

Vegetation Management - Plastic covering placed over areas that have been seeded shall be clear and where vegetative growth is to be inhibited it shall be black and be a minimum of 4 mils thick.

8-01.3(6) Check Dams

This section is revised to read:

Check dams are used as an erosion and sediment control device in channels or conveyance areas. Check dams shall be installed as soon as construction will allow, or when designated by the Project Engineer. The Contractor may substitute a different check dam material, in lieu of what is specified in the contract, with approval of the Project Engineer. Check dam materials shall meet the requirements in Section 9-14.5(4). Straw bales shall not be used as check dams. The check dam is a temporary or permanent structure, built across a minor channel placed perpendicular to the flow of water. Water shall not flow freely through the check dam structure. Check dams shall be constructed in a manner that creates a ponding area upstream of the dam to allow pollutants to settle, with water from increased flows channeled over a spillway in the check dam. The check dam shall be constructed to prevent erosion in the area below the spillway. The outer edges shall extend up the sides of the conveyance to prevent water from going around the check dam. Check dams shall be of sufficient height to maximize detention, without causing water to leave the ditch.

Wattles, coir logs and compost sock used as check dams shall not be trenched in and shall be installed as shown in the Standard Plans.

When wattles, coir logs, and compost socks are used as check dams they shall be measured and paid as check dam in accordance with Section 8-01.4 and 8-01.5.

8-01.3(6)A Geotextile-Encased Check Dam

This section's content including title is deleted.

8-01.3(6)B Quarry Spall Check Dam

This section's content including title is deleted.

8-01.3(6)C Sandbag Check Dam

This section's content including title is deleted.

8-01.3(6)D Wattle Check Dam

This section's content including title is deleted.

8-01.3(6)E Coir Log

This section including title and section number is revised to read:

8-01.3(6)A Coir Log

Coir logs are used as erosion and sediment control or bank stabilizing device. Coir logs shall be laid out, spaced, staked and installed in accordance with the Standard Plans.

Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes.

8-01.3(7) Stabilized Construction Entrance

The first paragraph is revised to read:

Temporary stabilized construction entrance shall be constructed in accordance with the Standard Plans, prior to beginning any clearing, grubbing, embankment or excavation. All quarry spall material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.

8-01.3(9)A Silt Fence

This section and all sub-sections including title is revised to read:

8-01.3(9)A Fencing

8-01.3(9)A1 High Visibility Fencing

High visibility fencing (HVF) shall be orange in color and installed along the site preservation lines shown in the Plans or as specified by the Engineer. Post spacing and attachment of the fencing material to the posts shall be as shown in the Standard Plans and in accordance with Section 9-14.5(8). The HVF shall not be fastened to trees.

8-01.3(9)A2 Silt Fence

Silt fence shall be black in color and used as a sediment control device to prevent sediment laden water from leaving project boundaries, to manage stormwater within the site, or to create small detention areas. Silt fence shall be installed at locations shown in the Plans. The geotextile shall be securely attached to the posts and support system. Post spacing and attachments shall be as shown in Standard Plans.

Geotextile material shall meet the requirements of Section 9-33.2(1), Table 6 and be sewn together at the point of manufacture, or at a location approved by the Engineer, to form geotextile lengths as required. All sewn seams and overlaps shall be located at a support post.

Posts shall be either wood or steel. Wood posts shall have minimum dimensions of 1¼ by 1¼ inches by the minimum length shown in the Plans.

When sediment deposits reach approximately ⅓ the height of the silt fence, the deposits shall be removed and stabilized in accordance with Section 8-01.3(15).

If trenching is not feasible due to rocky soils or not advisable due to proximity to a downslope sensitive area, a different sediment control device that does not require trenching shall be used in place of silt fence.

Silt Fence with Backup Support

Where backup support is needed for silt fence in areas where extra strength may be required, such as the toe of steep cut or fill slopes or areas where equipment may push excessive soils toward the fence. When backup support is used, wire shall have a maximum mesh spacing of 2 inches, and the plastic mesh shall be as resistant to ultraviolet radiation as the geotextile it supports. The strength of the wire or plastic mesh shall be equivalent to or greater than as required in Section 9-33.2(1), Table 6, for unsupported geotextile (i.e., 180 lbs. grab tensile strength in the machine direction). Post spacing and attachments shall be as shown in Standard Plans.

8-01.3(9)A3 High Visibility Silt Fence

High visibility silt fence (HVSF) shall be orange in color and only be used for the dual purpose of demarcating site preservation lines and a sediment control device in a location where high visibility mesh fence and black silt fence would otherwise be used together at same location. If use of HVSF is allowed the geotextile material shall meet the material requirements of Section 9-33.2(1), Table 6. Post spacing and attachments shall be as shown in Standard Plans.

High Visibility Silt Fence with Backup Support

Where backup support is needed for high visibility silt fence (HVSF) in areas where extra strength may be required, such as the toe of steep cut or fill slopes or areas where equipment may push excessive soils toward the sensitive or protected areas. When backup support is used, wire shall have a maximum mesh spacing of 2 inches, and the plastic mesh shall be as resistant to ultraviolet radiation as the geotextile it supports. The strength of the wire or plastic mesh shall be equivalent to or greater than as required in Section 9-33.2(1), Table 6, for unsupported geotextile (i.e., 180 lbs. grab tensile strength in the machine direction). Post spacing shall be as shown in Standard Plans.

When sediment deposits reach approximately 1/3 the height of the silt fence, or 8 inches whichever is lower, the deposits shall be removed and stabilized in accordance with Section 8-01.3(15).

8-01.3(9)B Gravel Filter, Wood Chip, or Compost Berm

The first paragraph is revised to read:

Filter berms shall retain sediment and direct flows. The gravel filter berm shall be a minimum of 1 foot in height and shall be maintained at this height for the entire time they are in use. Rock material used for filter berms shall meet the grading requirements in Section 9-03.9(2), but shall not include any recycled materials as outlined in Section 9-03.21.

The last sentence in the third paragraph is revised to read:

Compost shall be Medium Compost.

8-01.3(9)C Straw Bale Barrier

This section including title is revised to read:

8-01.3(9)C Vacant

8-01.3(10) Wattles

This section is revised to read:

Wattles are used as a flow control and sediment control device. Wattles shall be installed as soon as construction will allow or when designated by the Engineer. Wattle installation and trenching shall begin from the base of the slope and work uphill prior to any topsoil or compost placement. Excavated material from trenching shall be spread evenly along the uphill slope and be compacted using hand tamping or other method approved by the Engineer. On gradually sloped or clay-type soils trenches shall be 2 to 3 inches deep. On loose soils, in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or half the thickness of the wattle, whichever is greater.

Wattles shall be laid out, spaced and staked in accordance with the Standard Plans. Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes. If trenching and staking is not possible due to rocky soils, compost socks shall be used instead of wattles.

The Contractor shall exercise care when installing wattles to ensure the method of installation minimizes disturbance and prevents sediment or pollutant discharge into water bodies.

8-01.3(11) Vacant

This section including title is revised to read:

8-01.3(11) Outlet Protection

Outlet protection shall prevent scour at the outlets of ponds, pipes, ditches or other conveyances. All quarry spall material used for outlet protection shall be free of extraneous material and meet the gradation requirements in Section 9-13.6.

8-01.3(12) Compost Socks

This section is revised to read:

Compost socks are used as a flow control and sediment control device. Compost socks shall be installed as soon as construction will allow or when designated by the Project Engineer. Compost socks shall be installed prior to any mulching or compost placement. Compost socks shall be laced together end-to-end with coir rope or ends shall be securely overlapped to create a continuous length. Terminal ends of the continuous length shall be curved 2 to 4 feet upward into the slope to prevent concentrated flows from going around the terminal ends. Finished grades shall be of a natural appearance with smooth transitions. Compost for compost socks shall be Medium Compost.

Compost sock shall be laid out, spaced and staked in accordance with the Standard Plans. Live stakes in accordance with Section 9-14.6(1) can be used in addition to, but not as a replacement for, wooden stakes. If staking is not possible or if the compost sock is being used on concrete, heavy blocks or an equivalent item shall be used to weigh down and secure the sock. Compost socks shall be laid out, spaced and staked in accordance with the Standard Plans.

The Contractor shall exercise care when installing compost socks to ensure that the method of installation minimizes disturbance of waterways and prevents sediment or pollutant discharge into water bodies. Stakes shall be removed to minimize soil disturbance.

8-01.3(13) Temporary Curb

This section is revised to read:

Temporary curbs shall divert or redirect water around erodible soils.

Temporary curbs shall be installed along pavement edges to prevent runoff from flowing onto erodible slopes. Water shall be directed to areas where erosion can be controlled. The temporary curbs shall be a minimum of 4 inches in height. Ponding shall not be in roadways.

8-01.3(16) Removal

The first sentence in the first paragraph is revised to read:

When the Project Engineer determines that an erosion control BMP is no longer required, the Contractor shall remove the BMP and all associated hardware from the project limits.

The first and second sentences in the second paragraph are revised to read:

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 BMP's.

8-01.4 Measurement

The third paragraph is revised to read:

Check dams will be measured per linear foot one time only along the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

The ninth paragraph is deleted.

The twelfth paragraph (after the preceding amendment is applied) is revised to read:

Seeding, fertilizing, liming, mulching, mowing, and tackifier will be measured by the acre by ground slope measurement or through the use of design data

The fifteenth paragraph (after the preceding amendment is applied) is revised to read:

Fencing will be measured by the linear foot along the ground line of the completed fence.

This section is supplemented with the following:

Outlet Protection will be measured per each initial installation at an outlet location.

8-01.5 Payment

The paragraph following the bid item, "Plastic Covering", per square yard is revised to read:

The unit Contract price per square yard for "Plastic Covering" shall be full payment to perform the Work as specified in Section 8-01.3(5) and as shown in the Plans, including removal and disposal at an approved disposal site.

The bid item "Straw Bale", per each is deleted.

The bid item "___Erosion Control Blanket", per square yard is deleted.

The bid item "Soil Binder or Tacking Agent", per acre is deleted.

This section is supplemented with the following:

"Outlet Protection", per each.

The unit Contract price per each for “Outlet Protection” shall be full payment for all costs incurred to complete the Work.

“Tackifier”, per acre.

The unit Contract price per acre for “Tackifier” shall be full payment for all costs incurred to complete the Work.

“Biodegradable Erosion Control Blanket”, per square yard.

The unit Contract price per square yard for “Biodegradable Erosion Control Blanket” shall be full pay for all costs to complete the specified Work.

“High Visibility Silt Fence”, per linear foot.

8-02.AP8

Section 8-02, Roadside Restoration

August 5, 2013

In this section, “psiPE” is revised to read “PSIPE”.

8-02.3(2) Roadside Work Plan

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

The Roadside Work Plan shall also include a copy of the approved progress schedule.

The sub paragraph titled “**Progress Schedule**” is deleted.

8-02.3(4)C Topsoil Type C

In this section, “9-14.1(2)” is revised to read “9-14.1(3)”.

8-02.3(8) Planting

Item number 1 in the second paragraph is revised to read:

1. Non-Irrigated Plant Material
West of the summit of the Cascade Range - October 1 to March 1.
East of the summit of the Cascade Range - October 1 to November 15.

8-02.4 Measurement

The first sentence is revised to read:

Topsoil, mulch and soil amendments will be measured by the acre along the grade and slope of the area covered immediately after application.

The seventh sentence is revised to read:

Compost will be measured by the acre along the grade and slope of the area covered immediately after application.

8-02.5 Payment

The bid item “Topsoil Type _____”, per cubic yard and following paragraph are revised to read:

“Topsoil Type _____”, per acre.

The unit contract price per acre for “Topsoil Type _____” shall be full pay for providing the source of material for topsoil Type A and C, for pre-excavation weed control, excavating, loading, hauling, intermediate windrowing, stockpiling, weed control on stockpiles or windrows, and removal, placing, spreading, processing, cultivating, and compacting topsoil Type A, Type B, and Type C.

The bid item “Fine Compost”, per cubic yard is revised to read:

“Fine Compost”, per acre.

The bid item “Medium Compost”, per cubic yard is revised to read:

“Medium Compost”, per acre.

The bid item “Coarse Compost”, per cubic yard and following paragraph are revised to read:

“Coarse Compost”, per acre.

The unit Contract price per cubic yard for “Fine Compost”, Medium Compost” or “Coarse Compost” shall be full pay for furnishing and spreading the compost onto the existing soil.

The bid item “Soil Amendment”, per cubic yard and following paragraph are revised to read:

“Soil Amendment”, per acre.

The unit Contract price per acre for “Soil Amendment” shall be full pay for furnishing and incorporating the mulch onto the existing soil.

The bid item “Bark or Wood Chip Mulch”, per cubic yard and following paragraph are revised to read:

“Bark or Wood Chip Mulch”, per acre.

The unit Contract price per acre for “Bark or Wood Chip Mulch” shall be full pay for furnishing and spreading the mulch onto the existing soil.

8-03.AP8

Section 8-03, Irrigation Systems

April 2, 2012

8-03.3(7) Flushing and Testing

The fifth paragraph is deleted.

8-04.AP8

Section 8-04, Curbs, Gutters, and Spillways
January 6, 2014

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

The first sentence in the fourth paragraph is revised to read:

Expansion joints in the curb or curb and gutter shall be spaced as shown in the Plans, and placed at the beginning and ends of curb returns, drainage Structures, bridges, and cold joints with existing curbs and gutters.

8-04.3(1)A Extruded Cement Concrete Curb

The second sentence in the second paragraph is revised to read:

Cement concrete curbs shall be anchored to the existing pavement by placing steel reinforcing bars 1 foot on each side of every joint.

The third paragraph is revised to read:

Steel reinforcing bars shall meet the dimensions shown in the Standard Plans.

Section 8-04, Curbs, Gutters, and Spillways
April 2, 2012

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

This section is supplemented with the following new sub-section:

8-04.3(1)B Roundabout Cement Concrete Curb and Gutter

Roundabout cement concrete curb and gutter and roundabout splitter island nosing curb shall be shaped and finished to match the shape of the adjoining curb as shown in the Plans. All other requirements for cement concrete curb and cement concrete curb and gutter shall apply to roundabout cement concrete curb and gutter.

8-04.4 Measurement

This section is supplemented with the following:

Roundabout splitter island nosing curb will be measured per each.

8-04.5 Payment

The bid item, "Roundabout Truck Apron Cement Concrete Curb", per linear foot is deleted.

This section is supplemented with the following:

"Roundabout Cement Concrete Curb and Gutter", per linear foot

The unit Contract price per linear foot for "Roundabout Cement Concrete Curb and Gutter" shall be full payment for all costs for the Work including transitioning the roundabout cement concrete curb and gutter to the adjoining curb shape.

"Roundabout Splitter Island Nosing Curb", per each.

The unit Contract price per each for "Roundabout Splitter Island Nosing Curb" shall be full payment for all costs for the Work including transitioning the roundabout splitter island nosing curb to the adjoining curb shape.

8-07.AP8

**Section 8-07, Precast Traffic Curb and Block Traffic Curb
January 7, 2013**

This section's title is revised to read:

8-07 Precast Traffic Curb

8-07.1 Description

This section is revised to read:

This Work consists of furnishing and installing precast traffic sloped mountable curb or dual faced sloped mountable curb of the design and type specified in the Plans in accordance with these Specifications and the Standard Plans in the locations indicated in the Plans or as staked by the Engineer.

8-07.2 Materials

The material reference "Block Traffic Curb 9-18.3" is deleted from this section.

The referenced section for the following item is revised to read:

Paint 9-34.2

8-07.3(1) Installing Curbs

The fifth and seventh paragraphs are deleted from this section.

8-07.4 Measurement

The first paragraph is deleted from this section.

8-07.5 Payment

The following bid items are deleted from this section:

"Type A Precast Traffic Curb", per linear foot.

"Type C Precast Traffic Curb", per linear foot.

"Type A Block Traffic Curb", per linear foot.

"Type C Block Traffic Curb", per linear foot.

8-11.AP8

**Section 8-11, Guardrail
January 6, 2014**

8-11.3(1)A Erection of Posts

The second paragraph in this section is deleted.

8-11.3(1)C Terminal and Anchor Installation

The last sentence in the last paragraph is deleted.

Section 8-11, Guardrail

August 5, 2013

8-11.2 Materials

The following material reference is deleted from this section:

Weathering Steel Beam Guardrail 9-16.8

8-11.3(1)B Erection of Rail

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

All holes shall be painted with two coats of paint conforming to Section 9-08.1(2)B.

The fourth paragraph is revised to read:

Galvanized steel rail plates shall be fastened to the posts with galvanized bolts, washers, and nuts of the size and kind shown in the Plans.

The last paragraph is deleted.

8-11.3(1)D Removing Guardrail and Guardrail Anchor

The first two sentences in the first paragraph are revised to read:

Removal of the various types of guardrail shall include removal of the rail, cable elements, hardware, and posts, including transition sections, expansion sections, terminal sections and the rail element of anchor assemblies. Removal of the various types of guardrail anchors shall include removal of the anchor assembly, including concrete bases, rebar, steel tubes, and any other appurtenances in the anchor assembly.

8-11.4 Measurement

The seventh paragraph is revised to read:

Measurement of removal of guardrail will be by the linear foot measured along the line of guardrail removed including transition sections, expansion sections, guardrail anchor rail elements and terminal sections.

8-11.5 Payment

The bid item “Weathering St. Beam Guardrail Type ____”, per linear foot is deleted.

The second paragraph is revised to read:

The unit Contract price per linear foot for “Beam Guardrail Type____”, “Beam Guardrail Type 1-____ Ft. Long Post”, and “Beam Guardrail Type 31-____ Ft. Long Post”, shall be full payment for all costs to obtain and provide materials and perform the Work as described in Sections 8-11.3(1)A and 8-11.3(1)B, including costs for additional rail elements when nested rail is required, and when connections to concrete masonry Structures are required.

The paragraph following the bid item “Removing Guardrail Anchor”, per each is revised to read:

The unit Contract price per each for “Removing Guardrail Anchor” shall be full payment for all costs to perform the Work as described in Section 8-11.3(1)D, including rail removal, if there isn’t a Bid Item for Removing Guardrail in the run of guardrail connecting to the anchor.

8-12.AP8

Section 8-12, Chain Link Fence and Wire Fence

April 2, 2012

In this Section “Engineer” is revised to read “Project Engineer”.

8-12.2 Materials

This section is supplemented with the following:

Paint 9-08.1(2)B

8-12.3(1)A Posts

The words “for Type 3 and Type 4 fences” and “on Type 3 and Type 4 fences” are deleted from this section.

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

After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The third sentence in the sixth paragraph is replaced with the following two sentences:

After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The seventh paragraph is deleted.

The ninth paragraph is revised to read:

Steep slopes or abrupt topography may require changes in various elements of the fence. It shall be the responsibility of the Contractor to provide all posts of sufficient length to accommodate the chain link fabric.

The tenth paragraph is revised to read:

All round posts shall have approved top caps fastened securely to the posts. The base of the top cap fitting for round posts shall feature an apron around the outside of the posts.

8-12.3(1)B Top Rail

This section’s content including title is deleted and replaced with:

8-12.3(1)B Vacant

8-12.3(1)C Tension Wire and Tension Cable

This section’s content including title is revised to read:

8-12.3(1)C Tension Wire

Tension Wires shall be attached to the posts as detailed in the Plans or as approved by the Engineer.

8-12.3(1)D Chain Link Fabric

The first three paragraphs are revised to read:

Chain link fabric shall be attached after the cables and wires have been properly tensioned.

Chain link fabric shall be placed on the face of the post away from the Highway, except on horizontal curves where it shall be placed on the face on the outside of the curve unless otherwise directed by the Project Engineer.

Chain link fabric shall be placed approximately 1-inch above the ground and on a straight grade between posts by excavating high points of ground. Filling of depressions will be permitted only upon approval of the Project Engineer.

The fourth sentence in the fourth paragraph is revised to read:

The top and bottom edge of the fabric shall be fastened with hog rings to the top and bottom tension wires as may be applicable, spaced at 24-inch intervals.

8-12.3(1)E Chain Link Gates

The third paragraph is deleted.

8-12.3(2)A Posts

In the second paragraph, "commercial" is deleted.

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

After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The fourth sentence in the sixth paragraph is replaced with the following two sentences:

After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The tenth paragraph is revised to read:

Where the new fence joins an existing fence, the 2 shall be attached in a manner satisfactory to the Project Engineer, and end or corner posts shall be set as necessary.

The eleventh paragraph is deleted.

8-12.5 Payment

The paragraph following the item "Chain Link Fence Type ____", per linear foot is revised to read:

The unit Contract price per linear foot for "Chain Link Fence Type ____" shall be full payment for all costs for the specified Work including brace post installation and all other requirements of Section 8-12 for Chain Link Fence, unless covered in a separate Bid Item in this Section.

The following paragraph is inserted after the item “End, Gate, Corner, and Pull Post for Chain Link Fence”, per each:

The unit Contract price per each for “End, Gate, Corner, and Pull Post for Chain Link Fence” shall be full payment for all costs for the specified Work.

The following paragraph is inserted after the item “Single 6 Ft. Chain Link Gate”, per each:

The unit Contract price per each for “Double 14 Ft. Chain Link Gate”, “Double 20 Ft. Chain Link Gate”, and “Single 6 Ft. Chain Link Gate”, shall be full payment for all costs for the specified Work.

The paragraph following the item “Wire Fence Type ____”, per linear foot is revised to read

The unit Contract price per each for “Wire Fence Type ____” shall be full payment for all costs for the specified Work including payment for clearing of the fence line.

The following paragraph is inserted after the item “Double Wire Gate 20 Ft. Wide”, per each:

The unit contract price per each for “Single Wire Gate 14 Ft. Wide” and “Double Wire Gate 20 Ft. Wide” shall be full payment for all costs for the specified Work.

The paragraph following the item “Access Control Gate”, per each is revised to read:

The unit contract price per each for “Access Control Gate” shall be full payment for all costs to perform the specified Work.

8-15.AP8

Section 8-15, Riprap

April 2, 2012

8-15.1 Description

The second paragraph is revised to read:

Riprap will be classified as heavy loose riprap, light loose riprap, and hand placed riprap.

8-20.AP8

Section 8-20, Illumination, Traffic Signal Systems, And Electrical

August 5, 2013

8-20.3(4) Foundations

The first paragraph is revised to read:

Foundation concrete shall conform to the requirements for the specified class, be cast-in-place concrete and be constructed in accordance with Sections 6-02.2 and 6-02.3. Concrete for Type II, III, IV, V, and CCTV signal standards and light standard foundations shall be Class 4000P. Concrete for pedestals and cabinets, Type PPB, PS, I, FB, and RM signal standards and other foundations shall be Class 3000. Concrete placed into an excavation where water is present shall be placed using an approved tremie. If water is not present, the concrete shall be placed such that the free-fall is vertical down the center of the shaft without hitting the sides, the steel reinforcing bars, or

the steel reinforcing bar cage bracing. The Section 6-02.3(6) restriction for 5-foot maximum free-fall shall not apply to placement of Class 4000P concrete into a shaft. Steel reinforcing bars for foundations shall conform to Section 9-07.

8-20.3(5) Conduit

This sections content is deleted and replaced with the following new sub-sections:

8-20.3(5)A General

The ends of all conduit, metallic and nonmetallic, shall be reamed to remove burrs and rough edges. Field cuts shall be made square and true. The ends of unused conduits shall be capped. When conduit caps are removed, the threaded ends of metal conduit shall be provided with approved conduit bushings and non-metal conduit shall be provided with end bells.

Reducing couplings will not be permitted.

Existing conduit in place scheduled for installation of new conductor(s) shall first have any existing conductor(s) removed and a cleaning mandrel shall be pulled through. The existing conduit shall then be prepared subject to the same requirements outlined in this paragraph, for new conduit and innerduct, unless otherwise indicated in the plans. All new conduit and all innerduct shall be blown clean with compressed air. Then in the presence of the Engineer, an 80 percent sizing mandrel, correctly sized for the raceway, shall be pulled through to ensure that the raceway has not been deformed. This shall be done prior to pulling wire or fiber optic cable and after final assembly is in place. Existing conductor(s) shall be reinstalled unless otherwise indicated in the Plans.

As soon as the sizing mandrel has been pulled through innerduct, a 200-lb minimum tensile strength pull string shall be installed and attached to duct plugs at both ends. When conduit is installed for future use, as soon as the bushing or end bell has been installed and the sizing mandrel has been pulled through, the ground wire shall be installed and both ends shall be capped.

8-20.3(5)A1 Fiber Optic Conduit

Where conduit to contain fiber optic cable or conduit identified to contain future fiber optic cable is installed by open trenching, Detectable Underground Warning Tape shall be placed 12-inches above the conduit unless otherwise detailed in the Plans. Detectable Underground Warning Tape shall extend 2-feet into boxes or vaults. Splicing of the tape shall be in accordance with tape manufacturer's recommended materials and procedures.

Location Wire shall be installed with all nonmetallic conduit that contains fiber optic cable and all conduits identified to contain future fiber optic cable. When open trenching is used, the location wire shall be placed in continuous lengths directly above the conduit. Where conduit is installed by other methods, the Location Wire shall be attached to the outside of the conduit with electrical tape placed at minimum 18-inch intervals. Location Wire shall extend 12-feet into boxes or vaults. Splices shall be crimped using a non-insulated butt splice, soldered and covered with moisture-blocking heat shrink.

8-20.3(5)A2 ITS and Cabinet Outer and Inner Duct Conduit

ITS conduit and both ends of conduit runs entering cabinets, with the exception of the ½ inch grounding conduit, shall be sealed with self expanding water proof foam or mechanical plugs; unless otherwise required. At other locations conduit shall be sealed with Duct Seal.

Outer-duct conduit with non factory assembled innerduct shall be sealed around the innerduct with self-expanding waterproof foam. Outer-duct conduit with factory assembled innerduct shall be sealed around the innerduct with a multiplex expansion plug. Innerduct containing one

cable shall be plugged using an expandable split plug. Innerduct with multiple cables shall be sealed with self-expanding waterproof foam. Duct plugs shall be installed in all unused innerducts (those that are specified as empty) at the time of conduit installation. Duct plugs shall be installed in all used innerducts (as specified in the Plans), at the time of conduit installation, unless cable pulling for those innerducts will commence within 48-hours. Installation shall conform to the manufacturer's recommendations.

Foam sealant shall be installed with the following additional requirements:

1. Penetration of the sealant into the conduit or duct shall be limited using a high temperature backer rod material or rag.
2. Penetration of the sealant into the conduit shall be limited to 1-inch.
3. The foam sealant shall not project outside the end of the conduit or duct.

Where open trenching is allowed and conduit with innerduct is installed, a maximum of 1000-feet of continuous open trench will be allowed unless otherwise approved by the Engineer.

8-20.3(5)B Conduit Type

Conduit shall be PVC, high density polyethylene (HDPE), rigid metal conduit (RMC) or liquid tight flexible metal depending on the application.

Rigid metal conduit (RMC) shall be installed at the following locations:

1. Within railroad right of way.
2. All pole risers, except when otherwise required by owning utilities.
3. All surface-mounted conduit, with the exception of electrical service utility poles.
4. All runs within slip form placed concrete.

Service lateral runs shall be Schedule 80 PVC except when otherwise required by owning utilities. Conduit installed using the plowing method, shall be schedule 80 high-density polyethylene (HDPE).

Conduit runs, including outer-duct, that enter the traveled way or shoulders, shall be Schedule 80 high-density polyethylene (HDPE), Schedule 80 PVC, or rigid metal conduit (RMC).

Conduit runs, including outer-duct, which do not enter the traveled way or shoulders, shall be Schedule 80 high-density polyethylene (HDPE), Schedule 40 PVC or rigid metal conduit (RMC).

Liquid tight flexible metal conduit is allowed only at locations called for in the Plans.

Except as described under Non-Metallic Conduit, unless otherwise indicated in the Plans or Standard Plans, the same type of conduit shall be used for the entire length of the run, from outlet to outlet.

Innerduct shall have a smooth wall non ribbed interior surface, with factory pre-lubricated coating.

Innerduct within the Traveled Way or Shoulders and innerduct which is not factory installed shall be schedule 40 high-density polyethylene (HDPE). The innerduct shall be continuous with no splices. Innerduct which is pulled into the outer duct in the field shall be installed with an extra 2 feet of

conduit beyond each end of the outer-duct and shall be allowed to finish contracting for 21 calendar days before it is terminated. Innerduct shall be terminated with end bells flush to ¼ inch out of the outer-duct and the space between the outer-duct and innerduct shall be sealed with rodent and moisture resistant foam designed for this application and installed in accordance with the manufacturer's recommendations.

8-20.3(5)B1 Rigid Metal Conduit

Slip joints or running threads will not be permitted for coupling metallic conduit; however, running threads will be permitted in traffic signal head spiders and rigid metal conduit (RMC) outer-duct. When installing rigid metal conduit (RMC), if a standard coupling cannot be used, an approved three-piece coupling shall be used. Conduit bodies, fittings and couplings for rigid metal conduit (RMC) shall be cleaned first and then painted with one coat of paint conforming to Section 9-08.1(2)B. The paint shall have a minimum wet film thickness of 3-mils. The painted coating shall cover the entire coupling or fitting. The threads on all metal conduit shall be rust-free, clean, and painted with colloidal copper suspended in a petroleum vehicle before couplings are made. All metallic couplings shall be tightened so that a good electrical connection will be made throughout the entire length of the conduit run. If the conduit has been moved after assembly, it shall be given a final tightening from the ends prior to backfilling.

Rigid metal conduit (RMC) ends shall be terminated with grounded end bushings. Rigid metal conduit (RMC) entering cable vaults or pull boxes shall extend 2-inches beyond the inside wall face. (for the installation of grounded end bushing and bonding.)

Rigid metal conduit (RMC) entering concrete shall be wrapped in 2-inch-wide pipe wrap tape with a minimum 1-inch overlap for 12-inches on each side of the concrete face. Pipe wrap tape shall be installed in accordance with the manufacturer's recommendations.

Rigid metal conduit (RMC) bends shall have a radius consistent with the requirements of Code Article 344.24 and other articles of the Code. Where factory bends are not used, conduit shall be bent, using an approved conduit bending tool employing correctly sized dies, without crimping or flattening, using the longest radius practicable.

Where the coating on galvanized conduit has been damaged in handling or installing, such damaged areas shall be thoroughly painted with paint conforming to Section 9-08.1(2)B.

Metal conduit ends shall be threaded and protected with a snug fitting plastic cap that covers the threads until wiring is started.

8-20.3(5)B2 Non-Metallic Conduit

Where non-metallic conduit is installed, care shall be used in excavating, installing, and backfilling, so that no rocks, wood, or other foreign material will be left in a position to cause possible damage.

PVC conduit ends shall be terminated with end bell bushings. PVC or HDPE conduit entering cable vaults and pull boxes shall terminate with the end bell flush with the inside walls of the Structure.

Non-metallic conduit bends, where allowed, shall conform to Article 352.24 of the Code. Eighteen-inch radius elbows shall be used for PVC conduit of 2-inch nominal diameter or less. Standard sweep elbows shall be used for PVC conduit with greater than 2-inch nominal diameter unless otherwise specified in the Plans. In nonmetallic conduit less than 2-inch nominal diameter, pull ropes or flat tapes for wire installation shall be not less than ¼-inch

diameter or width. In nonmetallic conduit of 2-inch nominal diameter or larger, pull ropes or flat tapes for wire installation shall be not less than ½-inch diameter or width. When HDPE conduit is used for directional boring, it shall be continuous, with no joints, for the full length of the bore. The conduit run shall be extended to the associated outlets with the same schedule HDPE or PVC conduit. Entry into associated junction box outlets shall be with the same schedule PVC conduit and elbows. The same requirements apply for extension of an existing HDPE conduit crossing.

PVC conduit and elbows shall be connected to HDPE conduit with an approved mechanical coupling. The connection shall have minimum pullout strength of 700-pounds. Prior to installation of a mechanical coupling, the HDPE conduit shall first be prepared with a clean, straight edge. A water-based pulling lubricant may be applied to the threaded end of the mechanical coupling before installation. Solvent cement or epoxy shall not be used on the threaded joint when connecting the HDPE conduit to the mechanical coupling. The mechanical coupling shall be rotated until the HDPE conduit seats approximately ¾ of the distance into the threaded coupling depth.

For PVC installation through a directional bore, the PVC shall be in rigid sections assembled to form a watertight bell and spigot-type mechanical joint with a solid retaining ring around the entire circumference of the conduit installed in accordance with the manufacturer's recommendations. The conduit run shall be extended beyond the length of the bore, to the associated outlets with the same mechanical coupled PVC or with standard PVC conduit of the same schedule. The same requirements apply for extension of an existing PVC conduit Roadway crossing.

PVC conduit shall be assembled using the solvent cement specified in Section 9-29.1.

Conduit ends shall be protected with a snug fitting plastic cap until wiring is started.

Conduit caps, end bells and the section of PVC between the coupling and end bell bushing in cabinet foundations shall be installed without glue.

8-20.3(5)C Conduit Size

The size of conduit used shall be as shown in the Plans. Conduits smaller than 1-inch electrical trade size shall not be used unless otherwise specified, except that grounding conductors at service points may be enclosed in ½-inch-diameter conduit.

Conduit between light standards, PPB, PS, or Type 1 poles and the nearest junction box shall be the diameter specified in the Plans. Larger size conduit is not allowed at these locations. At other locations it shall be the option of the Contractor, at no expense to the Contracting Agency, to use larger size conduit if desired, provided that junction box or vault capacity is not exceeded. Where larger size conduit is used, it shall be for the entire length of the run from outlet to outlet.

Conduit runs with innerduct, shall have 4-inch outer-duct and shall be installed with four 1-inch innerduct unless otherwise indicated in the plans.

8-20.3(5)D Conduit Placement

Conduit shall be laid so that the top of the conduit is a minimum depth of:

1. 24-inches below the bottom of curb in the sidewalk area.
2. 24-inches below the top of the roadway base.

3. 48-inches below the bottom of ties under railroad tracks unless otherwise specified by the railroad company.
4. 36-inches below finish grade when installed using conduit plowing method.
5. 24-inches below the finish grade in all other areas.

Conduit entering through the bottom of a junction box shall be located near the end walls to leave the major portion of the box clear. At all outlets, conduit shall enter from the direction of the run, terminating 6 to 8-inches below the junction box lid and within 3-inches of the box wall nearest its entry location.

Conduit runs shown in the Plans are for Bidding purposes only and may be relocated with approval of the Engineer, to avoid obstructions.

8-20.3(5)D1 Surface Mounting

Where surface mounting of conduit is required, supports shall consist of channel with clamps sized for the conduit. Support spacing shall comply with the Code, with the exception that spacing of channel supports for conduit shall not exceed 5-feet.

The minimum distance between adjacent clamps and between the clamp and the end of the channel supports shall be 1-inch. Channel supports shall be installed with stops, to prevent clamps from sliding out of the ends.

8-20.3(5)D2 Structures

All conduits attached to or routed within bridges, retaining walls, and other structures shall be equipped with approved expansion, deflection, and/or combination expansion/deflection fittings at all expansion joints and at all other joints where structure movement is anticipated, including locations where the Contractor, due to construction method, installs expansion and/or construction joints with movement. All conduit fittings shall have movement capacity appropriate for the anticipated movement of the Structure at the joint. Approved deflection fittings shall also be installed at the joint between the bridge end and the retaining wall end, and the transition from bridge, wall, or other structure to the underground section of conduit pipe.

8-20.3(5)E Method of Conduit Installation

Conduit shall be placed under existing pavement by approved directional boring, jacking, or drilling methods at locations approved by the Engineer. The pavement shall not be disturbed unless allowed in the Plans or with the approval of the Engineer in the event obstructions or impenetrable soils are encountered. High density polyethylene (HDPE) conduit runs, which enter the traveled way or shoulders, shall be installed using the directional boring method.

8-20.3(5)E1 Open Trenching

When open trenching is allowed, trench construction shall conform to the following:

1. The pavement shall be saw-cut a minimum of 3-inches deep. The cuts shall be parallel to each other and extend 2-feet beyond the edge of the trench.
2. Pavement shall be removed in an approved manner.
3. Trench depth shall provide a minimum cover for conduit of 24-inches below the top of the roadway base

4. Trench width shall be 8-inches or the conduit diameter plus 2-inches, whichever is larger.
5. Trenches located within paved Roadway areas shall be backfilled with Controlled density fill (CDF) meeting the requirements of Section 2-09.3(1)E. The controlled density fill shall be placed level to, and at the bottom of, the existing pavement. The pavement shall be replaced with paving material that matches the existing pavement.
6. On new construction, conduit shall be placed prior to placement of base course pavement.

8-20.3(5)E2 Conduit Plowing

All conduit plowing shall be supervised by a licensed electrical Contractor.

The starting point shall be anchored or held such that conduit movement at the start of the plowing operation is kept to a minimum. The conduit reel shall be mounted on the vehicle such that conduit movement is kept to a minimum once it is in the ground. Use of a stationary reel is not allowed. The feed shoe shall have rollers which conform to the conduit at a radius of not less than 15 times the diameter of the conduit. The conduit will not be permitted to pass over stationary guides nor over rollers or sheaves, which will permit a bend radius of less than 15 times conduit diameter. The width of the tooth and feed shoe shall not exceed the conduit diameter by more than 2-inches

The conduit shall be installed using a continuous reel, with no joints, for the full length of the conduit run, unless conduit splicing is allowed as indicated below.

If an obstruction is encountered that cannot be plowed through, the following remedies shall be attempted in order:

1. Contractor shall stop the plowing operation and attempt to remove the obstruction. If the obstruction is removed, plowing operations shall continue along the approved path.
2. Deviations of up to one foot from the projected path may be authorized by the Engineer, provided the new route does not result in total conduit run bends exceeding NEC requirements. Deviations in excess of one foot from the projected path are not allowed and the maximum taper rate is 1-inch per linear foot of conduit.
3. The Contractor may request approval to intercept the installed conduit and route another section of HDPE to avoid the obstruction, provided the new route does not result in total conduit run bends exceeding NEC requirements. Connection between the sections shall be accomplished using an approved fusion splicing method, which is compatible with the conduit manufacturer's recommendations.
4. Where none of the above remedies are successful, all conduit installed so far in that run shall be removed and a new plow path established to avoid the obstruction.

In the event of a breakage, all conduit installed in that run shall be removed.

The conduit run shall be extended to the associated outlets, subject to the same requirements indicated when HDPE is installed using the directional boring method.

The depth of installation shall be continually adjusted as necessary to compensate for changes in terrain.

Plowed conduit shall be laid so that the top of the conduit is a minimum depth of 36-inches below the finish grade with the exception that the conduit shall be swept up to enter the knock outs of associated pull boxes or cable vaults.

The plow placing the conduit shall be marked at a proper distance above the plow's conduit exit point to indicate when the minimum installation depth is not met. The mark shall be visible from a safe distance from the plowing operation when it is exposed above ground. While plowing this mark must remain below ground level at all times, with the exception of the entry and exit points at the end of the run, in order to ensure that minimum burial depth of the conduit is achieved.

If the depth mark on the plow comes above ground, the Contractor shall stop the plowing operation and attempt to correct the placement depth. If the conduit depth can be verified to meet the minimum burial requirements at the location where the depth mark came above ground, the plowing operation shall resume subject to the Engineers approval.

The compacted surface shall be firm, non-yielding, and result in a finished surface that matches the lines and grades of the terrain prior to plowing.

8-20.3(5)E3 Boring

Bore pits shall be backfilled and compacted in accordance with Section 2-09.3(1)E. Directional boring, jacking or drilling pits shall be a minimum of 2-feet from the edge of any type of pavement, unless otherwise approved by the engineer. Excessive use of water that might undermine the pavement or soften the Subgrade will not be permitted.

When approved by the Engineer, small test holes may be cut in the pavement to locate obstructions. When the Contractor encounters obstructions or is unable to install conduit because of soil conditions, as determined by the Engineer, additional Work to place the conduit will be paid in accordance with Section 1-04.4.

8-20.3(5)E4 Directional Boring

Directional boring for electrical installations shall be supervised by a licensed electrical contractor in accordance with Section 8-20.1(1). Where directional boring is called for, conduit shall be installed using a surface-launched, steerable drilling tool. Drilling shall be accomplished using a high-pressure fluid jet tool-head. The drilling fluid shall be used to maintain the stability of the tunnel, reduce drag on the conduit, and provide backfill between the conduit and tunnel. A guidance system that measures the depth, lateral position, and roll shall be used to guide the tool-head when creating the pilot hole. Once the pilot hole is established, a reamer and swivel shall be used to install the conduit. Reaming diameter shall not exceed 1.5 times the diameter of the conduits being installed. Conduit that is being pulled into the boring shall be installed in such a manner that the conduit is not damaged during installation. The pullback force on the conduit shall be controlled to prevent damage to the conduit. A vacuum spoils extraction system shall be used to remove any excess spoils generated during the installation. Excess drilling fluid and spoils shall be disposed of. The method and location used for disposal of excess drilling fluid and spoils shall be subject to the Engineer's approval. Drilling fluid returns (caused by fracturing of formations) at locations other than the entry and exit points shall be minimized. Any drilling fluid that surfaces through fracturing shall be cleaned up immediately. Mobile spoils-removal equipment capable of quickly

removing spoils from entry or exit pits and areas with returns caused by fracturing shall be used as necessary during drilling operations.

8-20.3(5)E5 Boring with Casing

Where boring with casing is called for, the casing shall be placed using an auger inside the casing to remove the soil as the casing is jacked forward. The auger head shall proceed no more than 4-inches ahead of the pipe being jacked. Boring operations shall be conducted to prevent caving ahead of the pipe. Installed casing pipe shall be free from grease, dirt, rust, moisture, and any other deleterious contaminants.

The space between the conduit and casing shall be plugged with sandbags and a grout seal 12-inches thick at each end of the casing. Casing abandoned due to an encountered obstruction shall be grout sealed in the same manner. Grout shall conform to Section 9-20.3(4).

In lieu of sandbags and grout, unopened prepackaged concrete and grout may be used to seal the casing.

Material shall not be removed from the boring pit by washing or sluicing.

All joints shall be welded by a Washington State certified welder. Welding shall conform to AWS D 1.1-80 Structural Welding Code, Section 3, Workmanship.

8-20.3(8) Wiring

The fifteenth through seventeenth paragraphs are revised to read:

When conductors, either cable or single, are being installed, the Contractor shall not exceed the tension limitations recommended by the manufacturer. Conductors may be pulled directly by hand, or with mechanical assistance. If conductors are pulled by any mechanical means, a dynamometer with drop-needle hand shall be used on every mechanically assisted pull.

On mechanically assisted pulls, insulation shall be stripped off the individual conductor and the conductor formed into a pulling eye and firmly attached to the pulling rope/tape, or a cable grip shall be used. The Contractor shall determine the maximum allowable pulling tension, taking into account the direction of the pull, type of raceway, cable geometry, weight of the cable, the coefficient of friction, and side wall pressure, using the information from the cable manufacturer. If there are bends in the raceway or sheaves are used for the cable pull, the Contractor shall use the cable manufacture's side wall pressure limits to determine the maximum pulling tension. The maximum pulling force applied directly to the conductor when pulling eyes are used or when the conductor is formed into a loop, shall be limited to that shown in the following table for copper conductor. When a cable grip is applied over nonmetallic sheathed cables, the maximum pulling force shall be limited to 1,000-pounds provided this is not in excess of the force as determined above.

Conductor	Pounds
8	132
6	210
4	334

3	421
2	531
1	669
1/0	845
2/0	1,065
3/0	1,342
4/0	1,693
250Kcmil	2,000
500Kcmil	4,000

Adequate lubrication of the proper type to reduce friction in conduit and duct pulls shall be utilized. The grease and oil-type lubricants used on lead sheathed cables shall not be used on nonmetallic sheathed cables.

8-20.3(9) Bonding, Grounding

The first sentence in the second paragraph is replaced with the following two sentences:

All conduit installed shall have an equipment ground conductor installed in addition to the conductors noted in the Contract. Conduit with innerducts shall have an equipment ground conductor installed in each innerduct that has an electrical conductor.

8-21.AP8

Section 8-21, Permanent Signing

January 7, 2013

8-21.2 Materials

The third sentence is revised to read:

Materials for sign mounting shall conform to Section 9-28.11.

8-21.3(9)A Fabrication of Steel Structures

The first sentence in the first paragraph is revised to read:

Fabrication shall conform to the applicable requirements of Section 6-03 and 9-06.

This section is supplemented with the following:

All fabrication, including repairs, adjustments or modifications of previously fabricated sign structure members and connection elements, shall be performed in the shop, under an Engineer approved shop drawing prepared and submitted by the Contractor for the original fabrication or the specific repair, adjustment or modification. Sign structure fabrication repair, adjustment or modification of any kind in the field is not permitted. If fabrication repair, adjustment or modification occurs after a sign structure member or connection element has been galvanized, the entire member or element shall be re-galvanized in accordance with AASHTO M 111.

8-21.3(9)B Vacant

This section including title is revised to read:

8-21.3(9)B Erection of Steel Structures

Erection shall conform to the applicable requirements of Sections 6-03 and 8-21.3(9)F. Section 8-21.3(9)F notwithstanding, the Contractor may erect a sign bridge prior to completion of the shaft cap portion of one foundation for one post provided the following conditions are satisfied:

1. The Contractor shall submit design calculations and working drawings of the temporary supports and falsework supporting the sign bridge near the location of the incomplete foundation to the Engineer for approval in accordance with Section 6-01.9. The submittal shall include the method of releasing and removing the temporary supports and falsework without inducing loads and stress into the sign bridge.
2. The Contractor shall submit the method used to secure the anchor bolt array in proper position with the sign bridge while casting the shaft cap concrete to complete the foundation.
3. The Contractor shall erect the sign bridge and temporary supports and falsework, complete the remaining portion of the incomplete foundation, and remove the temporary supports and falsework, in accordance with the working drawing submittals as approved by the Engineer.

8-21.3(9)F Foundations

The following new paragraph is inserted after the second paragraph:

Concrete placed into an excavation where water is present shall be placed using an approved tremie. If water is not present, the concrete shall be placed such that the free-fall is vertical down the center of the shaft without hitting the sides, the steel reinforcing bars, or the steel reinforcing bar cage bracing. The Section 6-02.3(6) restriction for 5-foot maximum free-fall shall not apply to placement of Class 4000P concrete into a shaft.

The ninth paragraph (after implementing the preceding Amendment) is replaced with the following three new paragraphs:

After construction of concrete foundations for sign bridge and cantilever sign structures, the Contractor shall survey the foundation locations and elevations, the anchor bolt array locations and lengths of exposed threads. The Contractor shall confirm that the survey conforms to the sign structure post, beam, span and foundation design geometry shown in the Plans, and shall identify any deviations from the design geometry shown in the Plans. When deviations are identified, the Contractor shall notify the Engineer, and such notice shall be accompanied by the Contractor's proposed method(s) of addressing the deviations, including removal and reconstruction of the shaft

cap portion of the affected concrete foundation as outlined in this Section, or fabrication repair, adjustment or modification, with associated shop drawings, in accordance with Section 8-21.3(9)A.

If the Contractor's survey indicates that a concrete foundation has been constructed incorrectly for a sign structure that has already been fabricated, the Contractor may remove and reconstruct the shaft cap portion of the foundation, in accordance with Section 1-07.13, provided the following conditions are satisfied:

1. The Contractor shall submit the method and equipment to be used to remove the portion of the concrete foundation to be removed and reconstructed to the Engineer for approval in accordance with Section 1-05.3. The submittal shall include confirmation that the equipment and the method of operation is appropriate to ensure that the existing anchor bolt array and primary shaft vertical steel reinforcing bars will not be damaged.
2. All steel reinforcing bars, except for steel reinforcing bars extending from the bottom portion of the foundation to remain, shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C, and shall be replaced with new steel reinforcing bars conforming to the size, dimensions and geometry shown in the Plans. All concrete of the removed portion of the foundation shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C.
3. The Contractor shall adjust the primary shaft vertical steel reinforcing bars as necessary in accordance with Section 6-02.3(24)C to provide clearance for the anchor bolt array.

Sign structures shall not be erected on concrete foundations until the Contractor confirms that the foundations and the fabricated sign structures are either compatible with each other and the design geometry shown in the Plans, or have been modified in accordance with this Section and as approved by the Engineer to be compatible with each other, and the foundations have attained a compressive strength of 2,400-psi.

Item number 4 in the twelfth paragraph (after implemented the preceding Amendments) is revised to read:

4. Concrete shall be Class 4000P, except as otherwise specified. The concrete for the shaft cap (the portion containing the anchor bolt array assemblies above the construction joint at the top of the shaft) shall be Class 4000.

Item number 3 in the thirteenth paragraph (after implemented the preceding Amendments) is revised to read:

3. Unless otherwise shown in the Plans, concrete shall be Class 4000P.

8-21.5 Payment

This section is supplemented with the following:

All costs in connection with surveying completed concrete foundations for sign bridges and cantilever sign structures shall be included in the lump sum contract price for "Structure Surveying", except that when no Bid item is included in the Proposal for "Structure Surveying" then such costs shall be included in the lump sum contract price(s) for "Sign Bridge No. ____" and "Cantilever Sign Structure No. ____".

8-22.AP8
Section 8-22, Pavement Marking
January 7, 2013

8-22.3(3)D Line Applications

The last paragraph is supplemented with the following:

Grooved line pavement marking shall not be constructed on bridge decks or on bridge approach slabs.

8-22.3(6) Removal of Pavement Markings

The following two new sentences are inserted after the first sentence:

Grinding to remove painted markings is not allowed. Grinding to remove plastic marking is allowed to a depth just above the pavement surface, then water blasting or shot blasting shall be required to remove the remaining markings.

8-22.4 Measurement

The items "Painted Wide Line" and "Plastic Wide Line" are deleted from the fourth paragraph.

The sixth paragraph is revised to read:

Diagonal lines used to delineate parking stalls that are constructed of painted or plastic 4-inch lines will be measured as "Paint Line" or "Plastic Line" by the linear foot of line installed. Crosswalk line will be measured by the square foot of marking installed.

The following two new paragraphs are inserted after the sixth paragraph:

Crosshatch markings used to delineate median and gore areas will be measured by the completed linear foot as "Painted Crosshatch Marking" or "Plastic Crosshatch Marking".

The measurement for "Painted Crosshatch Marking" and for "Plastic Crosshatch Marking" will be based on the total length of each 8-inch or 12-inch wide line installed.

8-22.5 Payment

The bid items "Painted Wide Line", per linear foot and "Plastic Wide Line", per linear foot are deleted from this section.

This section is supplemented with the following two new bid items:

"Painted Crosshatch Marking", per linear foot.

"Plastic Crosshatch Marking", per linear foot.

The following new paragraph is inserted after the last bid item in this section:

The unit Contract price for the aforementioned Bid items shall be full payment for all costs to perform the Work as described in Section 8-22.

8-25.AP8

Section 8-25, Glare Screen

April 9, 2012

In this section, “tension cable” and “cable” are deleted.

8-25.3(3) Posts

The first sentence in the first paragraph is revised to read:

Posts shall be constructed in accordance with the Standard Plans and applicable provisions of Section 8-12.3(1)A.

The last paragraph is revised to read:

All round posts for Type 1 Design B and Type 2 glare screen shall be fitted with a watertight top securely fastened to the post. Line posts shall have tops designed to carry the top tension wire.

8-25.3(5) Tension Cables

This sections content including title is deleted:

8-25.3(6) Fittings, Attachments, and Hardware

This sections content including title is deleted.

8-29.AP8

Section 8-29, Wire Mesh Slope Protection

January 7, 2013

This section is deleted in its entirety and replaced with the following:

8-29 Wire Mesh Slope Protection

8-29.1 Description

This Work consists of furnishing and installing the anchors and the wire mesh slope protection in accordance with these Specifications and the details shown in the Plans and in conformity with the lines and dimensions shown in the Plans or established by the Engineer.

8-29.2 Materials

Materials shall meet the requirements of Section 9-16.4.

8-29.3 Construction Requirements

8-29.3(1) Submittals

The Contractor shall submit a wire mesh slope protection plan to the Project Engineer a minimum of seven calendar days prior to beginning the work. The wire mesh slope protection plan shall include the following:

1. Plan sheets for anchor layout and installation, and the equipment and process used to confirm the capacity of the constructed anchors including the calibration data for the stressing devices used to proof test the anchors, as completed by an independent testing laboratory within 60 calendar days of the wire mesh slope work.

2. Working drawings for the temporary yoke or load frame to be used for anchor proof testing in accordance with Section 6-01.9.
3. Plans and details for assembling wire mesh and erecting the assembled mesh on the slope.

All costs for the Work required for Submittals shall be included in the unit Bid price detailed in Section 8-29.5.

8-29.3(2) Anchors

The Contractor shall install anchors of the type shown in the Plans and in conformance with the layout shown in the Wire Mesh Protection Plan as described in Section 8-29.3(1). The spacing and number of the anchors and wire ropes as shown in the Plans are approximate only, and upon review of the wire mesh slope protection plan, the Engineer may arrange the spacing to better hold the wire mesh against the slope. Backfill material shall be thoroughly compacted with a mechanical compactor.

The Contractor shall proof test up to 25 percent of the anchors in vertical pullout to the minimum allowable anchor capacity specified in the Plans. Proof testing of anchors shall be performed against a temporary yoke or load frame. No part of the temporary yoke or load frame shall bear within three feet of the anchor being tested. For vertical pullout proof testing, an anchor is acceptable if it sustains the specified capacity for 10 minutes with no loss of load. Anchors that fail this criterion shall be replaced and retested. If more than three anchors fail, the Contractor shall proof test all anchors.

8-29.3(3) Wire Rope

All wire rope loops shall include a thimble. No wire rope splicing will be allowed.

8-29.3(4) Wire Mesh

The wire mesh shall be fastened to the completed wire rope assembly as shown in the Plans. High tensile steel fasteners on the vertical seams shall be staggered across width of the seam. Horizontal splices joining 2 rolls of mesh shall be made by overlapping the mesh approximately 3 feet and either weaving 3 rows of lacing wires through every mesh opening or using 4 rows of high tensile steel fasteners placed on approximately 3-inch spacing. All top and bottom laps shall be made by folding the mesh to the outside, away from the slope, to avoid the possibility of falling material hanging up in the folds. The bottom of the mesh shall be located as shown in the Plans. The ends of all lacing wires shall be secured to the mesh with a minimum of 1½-turns.

The wire mesh shall not be tensioned in any direction, but is to remain loose so as to increase its dampening effect on rolling rocks. The Contractor shall use care in the handling and installing of the wire mesh and wire rope. Any mesh or wire rope damaged due to the Contractor's operations shall be replaced by the Contractor at no expense to the Contracting Agency.

8-29.4 Measurement

Measurement of anchors will be per each for the completed anchor. Anchor types will not be differentiated.

Wire mesh slope protection will be measured by the square foot of wire mesh erected on the slope. There will be no deduction made for overlapping the wire mesh material as required for splices or for coverage due to variations in the slope or ground conditions.

8-29.5 Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal:

“Wire Mesh Slope Protection Anchor”, per each.

The unit Contract price per each for “Wire Mesh Slope Protection Anchor” shall be full payment for all costs for the Work described in Sections 8-29.3(1) and 8-29.3(2).

“Wire Mesh Slope Protection”, per square foot

The unit Contract price per square foot for “Wire Mesh Slope Protection” shall be full payment for all costs for the Work described in Section 8-29.3(3) and 8-29.3(4).

9-02.AP9

Section 9-02, Bituminous Materials

August 5, 2013

In this section, “Asphalt Emulsion” is revised to read “Emulsified Asphalt”.

9-02.1 Asphalt Material, General

In this section, “Cationic Emulsified Asphalt” is revised to read “Emulsified Asphalt”.

The first paragraph is revised to read:

Asphalt furnished under these Specifications shall not have been distilled at a temperature high enough to produce flecks of carbonaceous matter, and upon arrival at the Work, shall show no signs of separation into lighter and heavier components.

9-02.1(6) Cationic Emulsified Asphalt

The "Cationic Emulsified Asphalt Table" is revised to read:

Cationic Emulsified Asphalt Table															
Grade	Type AASHTO Test Method	Rapid Setting				Medium Setting						Slow Setting			
		CRS-1		CRS-2		CMS-2S		CMS-2		CMS-2h		CSS-1		CSS-1h	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Tests on Emulsified Asphalts:															
Viscosity SFS @ 77°F (25°C)	T 59											20	100	20	100
Viscosity SFS @ 122°F (50°C)	T 59	20	100	150	400	50	450	50	450	50	450				
Storage stability test 1 day %	T 59		1		1		1		1		1		1		1
Demulsibility 35 ml															
0.8% sodium dioctyl sulfosuccinate, % ^a	T 59	40		40											
Particle charge test	T 59	Pos		Pos		Pos		Pos		Pos		Pos ^b		Pos ^b	
Sieve Test, %	T 59		0.10		0.10		0.10		0.10		0.10		0.10		0.10
Cement mixing test, %	T 59												2.0		2.0
Distillation:															
Oil distillate by vol. of emulsions %	T 59		3	1.5	3		20		12		12				

Residue, %	T 59	60		65		60		65		65		57		57	
Tests on residue from distillation tests:															
Penetration, 77°F (25°C)	T 49	100	250	100	250	100	250	100	250	40	90	100	250	40	90
Ductility, 77°F (25°C) 5 cm/min., cm	T 51	40		40		40		40		40		40		40	
Solubility in trichloroethylene, %	T 44	97.5		97.5		97.5		97.5		97.5		97.5		97.5	

^a The demulsibility test shall be made within 30 days from date of shipment.

^b If the particle charge test for CSS-1 and CSS-1h is inconclusive, material having a maximum pH value of 6.7 will be acceptable.

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

The first paragraph (except for the table) is revised to read:

CRS-2P shall be a polymerized cationic emulsified asphalt. The polymer shall be milled into the asphalt or emulsion during the manufacturing of the emulsified asphalt. CRS-2P shall meet the following requirements:

Footnote 1 below the table is revised to read:

1. Distillation modified to use 300 grams of emulsified asphalt heated to 350°F ± 9°F and maintained for 20 minutes.

9-02.1(8) Flexible Bituminous Pavement Marker Adhesive

The fifth row in the table is revised to read:

Ductility, 39.2°F, 1 cm/minute, cm	AASHTO T 51	5 Min.
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9-02.4 Anti-Stripping Additive

This section is revised to read:

Anti-stripping additive shall be a product listed in the current WSDOT Qualified Products List (QPL).

9-03.AP9
Section 9-03, Aggregates
April 7, 2014

9-03.1(2)C Use of Substandard Gradings

This section including title is deleted in its entirety and replaced with the following:

Vacant

Section 9-03, Aggregates
August 5, 2013

9-03.1(1) General Requirements

The eighth paragraph is deleted.

9-03.6 Aggregate for Asphalt Treated Base (ATB)

This section including title is deleted in its entirety and replaced with the following:

Vacant

9-03.8(4) Blending Sand

This sections including title is revised to read:

Vacant

9-03.13 Backfill for Sand Drains

This section is supplemented with the following:

That portion of backfill retained on a No. 4 sieve shall not contain more than 0.05 percent by weight of wood waste.

9-03.13(1) Sand Drainage Blanket

The last paragraph is revised to read:

That portion of backfill retained on a No. 4 sieve shall not contain more than 0.05 percent by weight of wood waste.

9-03.14(1) Gravel Borrow

Note ¹ is deleted, including the reference in the table.

9-03.14(2) Select Borrow

Note ¹ is deleted.

Note ² is re-numbered Note ¹, including the reference in the table.

9-03.14(4) Gravel Borrow for Geosynthetic Retaining Wall

This section including title is revised to read:

Gravel Borrow for Structural Earth Wall

All backfill material within the reinforced zone for structural earth walls shall consist of granular material, either naturally occurring or processed, and shall be free draining, free from organic or otherwise deleterious material. 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, portland cement concrete rubble, or asphaltic concrete rubble. The backfill material shall meet the following requirements for grading and quality:

	Geosynthetic Reinforcement	Metallic Reinforcement
Sieve Size	Percent Passing	Percent Passing
4		99-100
2		75-100
1 ¼ " 1	99-100	
1"	90-100	
No. 4	50-80	50-80
No. 40	30 max.	30 max.
No. 200	7.0 max.	7.0 max.
Sand Equivalent	50 min.	50 min.

All percentages are by weight

Property	Test Method	Geosynthetic Reinforcement Requirements	Metallic Reinforcement Requirements
Los Angeles Wear 500 rev.	AASHTO T 96	35 percent max.	35 percent max
Degradation Factor	WSDOT Test Method T 113	15 min.	15 min.
Resistivity	WSDOT Test Method T 417		3,000 ohm-cm, min.
pH	WSDOT Test Method 113	4.5-9	5-10
Chlorides	AASHTO T 291		100 ppm max.
Sulfates	AASHTO T 290		200 ppm max.

If the resistivity of the gravel borrow equals or exceeds 5,000 ohm-cm, the specified chloride and sulfate limits may be waived.

Wall backfill material satisfying these grading and property requirements shall be classified as nonaggressive.

9-03.21(1) General Requirements

The first sentence in the first paragraph is revised to read:

Hot Mix Asphalt, Concrete Rubble, Recycled Glass (glass cullet), and Steel Furnace Slag may be used as, or blended uniformly with naturally occurring materials for aggregates.

9-03.21(1)C Vacant

This section including title is revised to read:

9-03.21(1)C Recycled Glass (Glass Cullet)

Glass Cullet shall meet the requirements of AASHTO M 318 with the additional requirement that the glass cullet is limited to the maximum amounts set in Section 9-03.21(1)E for recycled glass. Prior to use the Contractor shall provide certification to the Project Engineer that the recycled glass meets the physical properties and deleterious substances requirements in AASHTO M-318.

9-03.21(1) E Table on Maximum Allowable Percent (By Weight) of Recycled Material

In the table, the row containing the item “Aggregate for Asphalt Treated Base (ATB)” is deleted.

The column heading “Recycled Glass” is revised to read “Recycled Glass (Glass Cullet) in the table.

In the column “Recycled Glass (Glass Cullet)” all amounts are revised to read “20” beginning with the item “Ballast” and continuing down until the last item in the table.

9-04.AP9

**Section 9-04, Joint And Crack Sealing Materials
January 7, 2013**

9-04.2 Joint Sealants

This section is supplemented with the following new sub-sections:

9-04.2(3) Polyurethane Sealant

Polyurethane sealant shall conform to ASTM C 920 Type S Grade NS Class 25 Use M.

Polyurethane sealant shall be compatible with the closed cell foam backer rod. When required, compatibility characteristics of sealants in contact with backer rods shall be determined by Test Method ASTM C 1087.

9-04.2(3)A Closed Cell Foam Backer Rod

Closed cell foam backer rod for use with polyurethane sealant shall conform to ASTM C 1330 Type C.

9-04.10 Crack Sealing – Rubberized Asphalt

This section is deleted.

9-04.11 Butyl Rubber and Nitrile Rubber

This sections number is revised to read:

9-04.10

9-05.AP9

**Section 9-05, Drainage Structures, Culverts, and Conduits
January 7, 2013**

9-05.0 Acceptance by Manufacturer’s Certification

This section including title is revised to read:

9-05.0 Acceptance and Approval of Drainage Structures, and Culverts

The Drainage Structure or Culvert may be selected from the Qualified Products List, or submitted using a Request for Approval of Materials (RAM) in accordance with Section 1-06.

Certain drainage materials may be accepted by the Engineer based on a modified acceptance criteria when materials are selected from the Qualified Products List (QPL). The modified acceptance criteria are defined in the QPL for each material.

9-05.1(6) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (Up to 10 Inch)

This section is supplemented with the following:

Corrugated polyethylene drain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.1(7) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (12 Inch Through 60 Inch)

This section is supplemented with the following:

Corrugated polyethylene drain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.2(7) Perforated Corrugated Polyethylene Underdrain Pipe (Up to 10 Inch)

This section is supplemented with the following:

Perforated corrugated polyethylene underdrain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.2(8) Perforated Corrugated Polyethylene Underdrain Pipe (12-Inch Through 60 Inch Diameter Maximum), Couplings, and Fittings

This section is supplemented with the following:

Perforated corrugated polyethylene underdrain pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.19 Corrugated Polyethylene Culvert Pipe, Couplings, and Fittings

The word "producer" is revised to read "manufacturer".

The second paragraph is revised to read:

Joints for corrugated polyethylene culvert pipe shall be made with either a bell/bell or bell and spigot coupling and shall incorporate the use of a gasket conforming to the requirements of ASTM D 1056 Type 2 Class B Grade 3 or ASTM F 477. All gaskets shall be factory installed on the coupling or on the pipe by the qualified manufacturer.

This section is supplemented with the following:

Corrugated polyethylene culvert pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.20 Corrugated Polyethylene Storm Sewer Pipe, Couplings, and Fittings

The word “producer” is revised to read “manufacturer”.

The first paragraph is revised to read:

Corrugated polyethylene storm sewer pipe, couplings, and fittings shall meet the requirements of AASHTO M 294 Type S or D. The maximum pipe diameter for corrugated polyethylene storm sewer pipe shall be the diameter for which a manufacturer has submitted. Fittings shall be blow molded, rotational molded, or factory welded.

This section is supplemented with the following:

Corrugated polyethylene culvert pipe manufacturers shall participate in the National Transportation Product Evaluation Program (NTPEP) work plan for HDPE (High Density Polyethylene) Thermoplastic Pipe and be listed on the NTPEP audit website displaying they are NTPEP compliant.

9-05.24 Polypropylene Culvert Pipe, Polypropylene Storm Sewer Pipe, and Polypropylene Sanitary Sewer Pipe

This sections content is deleted and replaced with the following:

All joints for polypropylene pipe shall be made with a bell/bell or bell and spigot coupling and shall conform to ASTM D 3212 using elastomeric gaskets conforming to ASTM F 477. All gaskets shall be factory installed on the pipe in accordance with the producer’s recommendations.

Qualification for each producer of polypropylene storm sewer pipe requires joint system conformance to ASTM D 3212 using elastomeric gaskets conforming to ASTM F 477 and a formal quality control plan for each plant proposed for consideration.

A Manufacturer’s Certificate of Compliance shall be required and shall accompany the materials delivered to the project. The certificate shall clearly identify production lots for all materials represented. The Contracting Agency may conduct verification tests of pipe stiffness or other properties it deems appropriate.

This section is supplemented with the following new sub-sections:

9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe

Polypropylene culvert and storm sewer pipe shall conform to the following requirements:

1. For dual wall pipe sizes up to 30 inches: ASTM F2736. .
2. For triple wall pipe sizes from 30 to 60 inches: ASTM F2764.
3. For dual wall profile pipe sizes 36 to 60 inches: AASHTO MP 21, Type S or Type D.

4. Fittings shall be factory welded, injection molded or PVC.

9-05.24(2) Polypropylene Sanitary Sewer Pipe

Polypropylene sanitary sewer pipe shall conform to the following requirements:

1. For pipe sizes up to 30 inches: ASTM F2736.
2. For pipe sizes from 30 to 60 inches: ASTM F2764.
3. Fittings shall be factory welded, injection molded or PVC.

9-06.AP9

Section 9-06, Structural Steel and Related Materials

April 1, 2013

9-06.5(3) High Strength Bolts

In this section, "AASHTO M 291" is revised to read "ASTM A 563", "AASHTO M 164" is revised to read "ASTM A 325", "AASHTO M 293" is revised to read "ASTM F 436", "AASHTO M 253" is revised to read "ASTM A 490", and "AASHTO M 298" is revised to read "ASTM B 695".

9-06.5(4) Anchor Bolts

In this section, "AASHTO M 291" is revised to read "ASTM A 563".

9-07.AP9

Section 9-07, Reinforcing Steel

January 6, 2014

9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement)

This section's title is revised to read:

9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and Cement Concrete Pavement Rehabilitation)

Section 9-07, Reinforcing Steel

August 6, 2012

9-07.7 Wire Mesh

The first sentence in the first paragraph is revised to read:

Wire mesh for concrete reinforcement shall conform to the requirements of AASHTO M 55, Welded Steel Wire Fabric for Concrete Reinforcement or AASHTO M 221, Steel Welded Wire Reinforcement, Deformed for Concrete.

9-09.AP9

Section 9-09, Timber and Lumber

January 6, 2014

9-09.3(1) General Requirements

The fourth paragraph is revised to read:

All orders of treated timber and lumber shall be accompanied by a Certificate of Treatment record. The Certificate of Treatment showing conformance to this specification and AWWA standards shall include the following information:

Name and location of the wood preserving company,

Customer identification,

Date of treatment and charge number,

Type of chemical used and amount of retention,

Treating process and identification of the Specification used,

Boring records verifying treatment penetration for timber and lumber with a nominal dimension of 6" x 6" or larger,

Description of material that was treated, and

Signature of a responsible plant official.

The fifth paragraph is deleted.

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

All timber and lumber to be used in aquatic environments, unless specified otherwise in the Contract, shall be chemically treated using Western Wood Preservers Institute Best Management Practices (BMPs).

9-10.AP9

Section 9-10, Piling

April 2, 2012

9-10.4 Steel Pile Tips and Shoes

In the first paragraph "ASTM A 148 Grade 60-90" is revised to read "ASTM A 148 Grade 90-60".

9-13.AP9

Section 9-13, Riprap, Quarry Spalls, Slope Protection, & Rock for Erosion and Scour Protection and Rock Walls

April 1, 2013

9-13.5(1) Semi-Open Concrete Masonry Units Slope Protection

In this section, "ASTM C 90" is revised to read "ASTM C 1319".

9-14.AP9

**Section 9-14, Erosion Control and Roadside Planting
January 6, 2014**

9-14.4(7) Tackifier

This section is revised to read:

Tackifiers are used as a tie-down for soil, compost, seed, and/or mulch. Tackifiers shall contain no growth or germination-inhibiting materials and shall not reduce infiltration rates. Tackifiers shall hydrate in water and readily blend with other slurry materials.

The Contractor shall provide test results documenting the tackifier meets the requirements for Acute Toxicity, Solvents, and Heavy Metals as required in Table 1 in Section 9-14.4(2). The tests shall be performed at the manufacturer’s recommended application rate.

9-14.6(2) Quality

The second and third paragraphs in this section are revised to read:

All plant material shall comply with State and Federal laws with respect to inspection for plant diseases and insect infestation. Plants must meet Washington State Department of Agriculture plant quarantines and have a certificate of inspection. Plants originating in Canada must be accompanied by a phytosanitary certificate stating the plants meet USDA health requirements.

**Section 9-14, Erosion Control and Roadside Planting
August 5, 2013**

9-14.3 Fertilizer

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

It may be separate or in a mixture containing the percentage of total nitrogen, available phosphoric acid, and water-soluble potash or sulfur in the amounts specified.

9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)

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

All HECPs shall be furnished premixed by the manufacturer with Organic or Synthetic Tackifier as specified in Section 9-14.4(7).

The third and fourth rows in Table 1 is revised to read:

Heavy Metals	EPA 6020A Total Metals	Antimony – < 4 mg/kg Arsenic – < 6 mg/kg Barium – < 80 mg/kg Boron – < 160 mg/kg Cadmium – < 2 mg/kg Total Chromium – < 4 mg/kg Copper – < 10 mg/kg Lead – < 5 mg/kg Mercury – < 2 mg/kg
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		Nickel – < 2 mg/kg Selenium – < 10 mg/kg Strontium – < 40 mg/kg Zinc – < 30 mg/kg
Water Holding Capacity	ASTM D 7367	800 percent minimum

9-14.4(2)A Long Term Mulch

In the first paragraph, the phrase “within 2 hours of application” is deleted.

9-14.4(4) Wood Strand Mulch

The last sentence in the second paragraph is deleted.

This section is supplemented with the following new paragraph:

The Contractor shall provide Material Safety Data Sheet (MSDS) that demonstrates that the product is not harmful to plant life and a test report performed in accordance with WSDOT Test Method 125 demonstrating compliance to this specification prior to acceptance.

9-14.4(8) Compost

The second paragraph is revised to read:

Compost production and quality shall comply with WAC 173-350 and for biosolids composts, WAC 173-308.

The third paragraph is to read:

Compost products shall meet the following physical criteria:

1. Compost material shall be tested in accordance with U.S. Composting Council Testing Methods for the Examination of Compost and Composting (TMECC) 02.02-B, “Sample Sieving for Aggregate Size Classification”.

Fine compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
1”	100	
5/8”	90	100
1/4”	75	100

Note Maximum particle length of 4 inches.

Medium compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
1”	100	
5/8”	85	100
1/4”	70	85

Note Maximum particle length of 4 inches. Medium compost shall have a carbon to nitrogen ration (C:N) between 18:1 and 35:1. The carbon to nitrogen ration shall be calculated using dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

Coarse compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
2”	100	
1”	90	100
¾”	70	100
¼”	40	60

Note Maximum particle length of 6 inches. Coarse compost shall have a carbon to nitrogen ratio (C:N) between 25:1 and 35:1. The carbon to nitrogen ratio shall be calculated using the dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

2. The pH shall be between 6.0 and 8.5 when tested in accordance with U.S. Composting Council TMECC 04.11-A, “1:5 Slurry pH”.
3. Physical contaminants, defined in WAC 173-350 (plastic, concrete, ceramics, metal, etc.) shall be less than 0.5 percent by weight as determined by U.S. Composting Council TMECC 03.08-A “Classification of Inerts by Sieve Size”.
4. Minimum organic matter shall be 40 percent by dry weight basis as determined by U.S. Composting Council TMECC 05.07A “Loss-On-Ignition Organic Matter Method (LOI)”.
5. Soluble salt contents shall be less than 4.0 mmhos/cm when tested in accordance with U.S. Composting Council TMECC 04.10 “Electrical Conductivity.”
6. Maturity shall be greater than 80 percent in accordance with U.S. Composting Council TMECC 05.05-A, “Germination and Root Elongation”.
7. Stability shall be 7-mg CO₂-C/g OM/day or below in accordance with U.S. Composting Council TMECC 05.08-B “Carbon Dioxide Evolution Rate”.
8. The compost product shall originate from organic feedstocks as defined in WAC 173 350 as “Wood waste”, “Yard debris”, “Post-consumer food waste”, “Pre-consumer animal-based wastes”, and/or “Pre-consumer vegetative waste”. The Contractor shall provide a list of feedstock sources by percentage in the final compost product.
9. The Engineer may also evaluate compost for maturity using U.S. Composting Council TMECC 05.08-E “Solvita® Maturity Index”. Fine compost shall score a number 6 or above on the Solvita® Compost Maturity Test. Medium and Coarse compost shall score a 5 or above on the Solvita® Compost Maturity Test.

9-14.4(8)A Compost Approval

This section's title is revised to read:

9-14.4(8)A Compost Submittal Requirements

The first sentence in this section up until the colon is revised to read:

The Contractor shall submit the following information to the Engineer for approval:

Item No. 2 in the first paragraph is revised to read:

2. A copy of the Solid Waste Handling Permit issued to the manufacturer by the Jurisdictional Health Department in accordance with WAC 173-350 (Minimum Functional Standards for Solid Waste Handling) or for biosolid composts a copy of the Coverage Under the General Permit for Biosolids Management issued to the manufacturer by the Department of Ecology in accordance with WAC 173-308 (Biosolids Management).

9-14.5 Erosion Control Devices

This section is supplemented with the following new sub-section:

9-14.5(9) High Visibility Silt Fence

High visibility silt fence shall be a minimum of 5 feet in height, high visibility orange, UV stabilized and shall meet the geotextile requirements in Section 9-33 Table 6. Support posts shall be in accordance with the Standard Plans. The posts shall have sufficient strength and durability to support the fence through the life of the project.

9-14.5(1) Polyacrylamide (PAM)

The fourth sentence is replaced with the following two new sentences:

The minimum average molecular weight shall be greater than 5-mg/mole. The charge density shall be no less than 15 percent and no greater than 30 percent.

9-14.5(2) Erosion Control Blanket

This section including title is deleted in its entirety and replaced with the following:

9-14.5(2) Biodegradable Erosion Control Blanket

Biodegradable erosion control blankets shall be made of natural plant fibers, and all netting material, if present, shall biodegrade within a life span not to exceed 2 years.

The Contractor shall provide independent test results from the National Transportation Product Evaluation Program (NTPEP) meeting the requirements of Section 9-14.5(2)B, 9-14.5(2)C and 9-14.5(2)D.

9-14.5(2)A Approval and Acceptance of Biodegradable Erosion Control Blankets

The erosion control blanket may be selected from the Qualified Products List, or submitted using a Request for Approval of Materials (RAM) in accordance with Section 1-06. Erosion control blankets may be accepted by the Engineer based on the modified acceptance criteria when materials are selected from the QPL. The modified acceptance criteria are defined in the QPL for each material.

9-14.5(2)B Biodegradable Erosion Control Blanket for Slopes Steeper than 3:1 (H:V)
Table 6

Properties	ASTM Test Method	Requirements for Slopes Steeper than 3:1
Protecting Slopes from Rainfall-Induced Erosion	ASTM D 6459 Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle	C factor = 0.04 maximum for cumulative R-Factor<231
Mass Per Unit Area	ASTM D 6475	7.6 oz./sq. yd. minimum
Light Penetration	ASTM D 6567	44 % maximum
Tensile Strength MD x XD*	ASTM D 6818	10.0 x 6.0 pounds/inch minimum
Tensile Elongation MD x XD*	ASTM D 6818	38% x 33% maximum
*MD is Machine Design and XD is Cross Direction **Natural Resource Conservation Services		

9-14.5(2)C Biodegradable Erosion Control Blanket for Slopes Flatter than 3:1(H:V)

Table 7

Properties	ASTM Test Method	Slope Flatter than 3:1 Requirements
Protecting Slopes from Rainfall-Induced Erosion	ASTM D 6459 Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle	C factor = 0.15 maximum for cumulative R-Factor<231
Mass Per Unit Area	ASTM D 6475	7.6 oz./sq. yd. minimum
Light Penetration	ASTM D 6567	40% maximum
Tensile Strength MD x XD*	ASTM D 6818	6.5 x 2.3 pounds/inch minimum
Tensile Elongation MD x	ASTM D 6818	38% x 33% maximum

XD*		
*MD is Machine Design and XD is Cross Direction **Natural Resource Conservation Services		

9-14.5(2)D Biodegradable Erosion Control Blanket for Ditches

Table 8

Properties	Test Method	Requirements
Performance in Protecting Earthen Channels from Stormwater-Induced Erosion	ASTM D 6460 Soil tested shall be sandy loam as defined by the NRCS** Soil Texture Triangle	Limiting Shear (T_{Limit}) = 2.0 psf minimum. Limiting Velocity (V_{Limit}) = 7.5 ft/sec flow minimum.
Mass per Unit Area	ASTM D 6475	7.4 oz./ sq. yd. minimum
Light Penetration	ASTM D 6567	65 % maximum
Tensile Strength MD x XD*	ASTM D 6818	9.6 x 3.2 lbs/inch minimum
Tensile Elongation MD x XD*	ASTM D 6818	38% x 33% maximum
*MD is Machine Design and XD is Cross Direction **Natural Resource Conservation Services		

9-14.5(3) Clear Plastic Covering

This section including title is revised to read:

Plastic Covering

Plastic covering shall meet the requirements of ASTM D 4397 for polyethylene sheeting.

9-14.5(4) Geotextile Encased Check Dam

This section including title is revised to read:

9-14.5(4) Check Dams

All materials used for check dams shall be non-toxic and not pose a threat to wildlife when installed.

This section is supplemented with the following new sub-sections:

9-14.5(4)A Biodegradable Check Dams

Biodegradable check dams shall meet the following requirements:

Biodegradable Check Dams	Materials
Wattle Check Dam	9-14.5(5)
Compost Sock Check Dam	9-14.5(6)
Coir Log Check Dam	9-14.5(7)

The Contractor may substitute a different biodegradable check dam as long as it complies with the following and is approved by the Engineer:

1. Made of natural plant fiber.
2. Netting if present shall be biodegradable.
3. Straw bales shall not be used as check dams.

9-14.5(4)B Non-biodegradable Check Dams

Non-biodegradable check dams shall meet the following requirements:

1. Geotextile materials shall conform to section 9-33 for silt fence.
2. Other such devices that fulfill the requirements of section 9-14.5(4) and shall be approved by the Engineer prior to installation.

9-14.5(5) Wattles

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

Wattle shall be a minimum of 8-inches in diameter.

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

Compost filler shall be Medium Compost and shall meet the material requirements as specified in Section 9-14.4(8).

The last paragraph is revised to read:

Wood stakes for wattles shall be made from untreated Douglas fir, hemlock, or pine species. Wood stakes shall be 2 by 2-inch nominal dimension and a minimum 24 inches in length.

9-14.5(6) Compost Socks

In this section, "Coarse Compost" is revised to read "Medium Compost".

The last paragraph is revised to read:

Wood stakes for compost socks shall be made from untreated Douglas fir, hemlock, or pine species. Wood stakes shall be 2 by 2-inch nominal dimension and a minimum 24 inches in length.

9-14.5(8) High Visibility Fencing

The first paragraph is revised to read:

High visibility fence shall be UV stabilized, orange, high-density polyethylene or polypropylene mesh.

9-14.6(1) Description

In item No. C in the fourth paragraph, “22-inch” is revised to read “2-inch”.

9-15.AP9

Section 9-15, Irrigation System

April 1, 2013

9-15.1(2) Polyvinyl Chloride Pipe and Fittings

In the first paragraph, “ASTM D 1784” is revised to read “ASTM D 1785”.

9-16.AP9

Section 9-16, Fence and Guardrail

August 5, 2013

9-16.1(1)A Post Material for Chain Link Fence

The first paragraph is revised to read:

Except as noted otherwise, post material shall conform to the requirements of AASHTO M 181, Type 1 (zinc-coated steel), Grade 1 or 2, and shall include all round and roll-formed material (line posts, brace posts, end posts, corner posts, and pull posts).

The last sentence in the fourth paragraph is deleted.

9-16.1(1)C Tension Wire and Tension Cable

This section including title is revised to read:

9-16.1(1)C Tension Wire

Tension wire shall meet the requirements of AASHTO M 181. Tension wire galvanizing shall be Class 1.

9-16.1(1)D Fittings and Hardware

The second sentence in the first paragraph is deleted.

The last paragraph is deleted.

9-16.1(2) Approval

This section is deleted.

9-16.2(2) Approval

This section is deleted.

9-16.3(2) Posts and Blocks

The first sentence in the first paragraph is revised to read:

Posts and blocks may be of creosote, pentachlorophenol, waterborne chromate copper arsenate (CCA), or ammoniacal copper zinc arsenate (ACZA), treated timber, or galvanized steel (galvanized steel posts only – no blocks).

The following reference is deleted from the third paragraph:

ACA 0.50 lbs. pcf

The sixth paragraph is deleted.

9-16.4(2) Wire Mesh

This section is revised to read:

The galvanized wire mesh shall be a Style 1 double-twisted hexagonal mesh conforming to ASTM A 975 with 8 by 10 opening, except when a colorized, polyvinyl chloride coating is required then the Style shall be a Style 3.

The longitudinal edges of the wire mesh fabric shall have knuckled selvages with continuous selvage wire as specified in ASTM A 975.

9-16.4(3) Wire Rope

This section is revised to read:

Wire rope shall be $\frac{3}{4}$ - inch-diameter, independent wire rope class (IWRC) 6x19, extra improved plow steel (EIP) wire rope galvanized in accordance with ASTM A1023. Each lot of wire rope shall be accompanied by a Manufacturer's Certificate of Compliance, a mill certificate, and a test report showing the wire rope meets the minimum breaking force requirements of ASTM A 1023.

9-16.4(4) Hardware

This section is revised to read:

Weldless steel rings shall be drop-forged steel and heat treated after forging; have a single pull, working load limit of at least 10,000 lbs; and meet performance requirements of Federal Specification RR-C-271D Type VI.

Thimbles required for all wire rope loops shall be standard weight, galvanized, and meet performance requirements of Federal Specification FF-T-276b Type II.

Wire rope clips shall have drop-forged steel bases, be galvanized, and meet performance requirements of Federal Specification FF-C-450 Type I Class 1.

9-16.4(5) Hog Rings and Tie Wire

This section including title is revised to read:

9-16.4(5) Fasteners and Lacing Wire

Fasteners shall consist of 11 gauge high tensile steel. Lacing wire shall consist of 9 gauge, zinc-coated steel wire conforming to ASTM A 641.

9-16.4(6) Grout

This section including title is deleted.

9-16.4(7) Anchor

This section including title and section number is revised to read:

9-16.4(6) Ground Anchors

Threaded bar ground anchors shall be deformed, continuously threaded, steel reinforcement bars conforming to either Section 9-07.2 or Section 9-07.11. Threaded bar ground anchors shall be either epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3 or galvanized after fabrication in accordance with ASTM A 767 Class I.

Hollow-core anchor bars shall have continuous threads/deformations and be fabricated from steel tubing conforming to ASTM A 519. Couplers and nuts shall provide 100% of the guaranteed minimum tensile strength of the hollow core anchor bars.

Bearing plates shall conform to ASTM A 572 Grade 50 and shall be galvanized after fabrication in accordance with AASHTO M 111. Nuts shall conform to either AASHTO M 291 Grade B, hexagonal, or Section 9-07.11. Nuts shall be galvanized after fabrication in accordance with AASHTO M 111 for plate washers and AASHTO M 232 for all other hardware.

Grout for ground anchors shall be Grout Type 2 for Nonshrink Applications, conforming to Section 9-20.3(2).

Concrete for soil anchor deadmen shall be either commercial concrete conforming to Section 6-02.3(2)B or Class 3000 conforming to Section 6-02.

Steel reinforcing bars for soil anchor deadmen shall conform to Section 9-07.2, and shall be epoxy-coated in accordance with Sections 6-02.3(24)H and 9-07.3.

9-16.6(3) Posts

This section is revised to read:

Line posts for Types 1 and 2 glare screens shall be 2 inch inside diameter galvanized steel pipe with a nominal weight of 3.65 pounds per linear foot. End, corner, brace, and pull posts for Type 1 Design A and B and Type 2 shall be 2 ½ inch inside diameter galvanized steel pipe with a nominal weight of 5.79 pounds per linear foot. Intermediate pull posts (braced line posts) shall be as specified for line posts.

The base material for the manufacture of steel pipes used for posts shall conform to the requirements of ASTM A 53, except the weight tolerance on tubular posts shall be applied as provided below.

Posts provided for glare screen will have an acceptance tolerance on the weight per linear foot, as specified, equal to plus or minus 5 percent. This tolerance will apply to each individual post.

All posts shall be galvanized in accordance with AASHTO M 181 Section 32. The minimum average zinc coating is per square foot of surface area. This area is defined as the total area inside and outside. A sample for computing the average of mass of coating is defined as a 12-inch piece cut from each end of the galvanized member.

9-16.6(5) Cable

This section including title is revised to read:

9-16.6(5) Vacant

9-16.6(6) Cable and Tension Wire Attachments

This section including title is revised to read:

9-16.6(6) Tension Wire Attachments

All tension wire attachments shall be galvanized steel conforming to the requirements of AASHTO M 232 unless otherwise specified. Eye bolts shall have either a shoulder or a back-up nut on the eye end and be provided with an eye nut where needed or standard hex nut and lock washer $\frac{3}{8}$ -inch diameter for tension wire and of sufficient length to fasten to the type of posts used. Turnbuckles shall be of the shackle end type, $\frac{1}{2}$ inch diameter, with standard take-up of 6 inches and provided with $\frac{3}{8}$ inch diameter pins.

9-16.6(9) Fabric Bands and Stretcher Bars

The first paragraph is revised to read:

Fabric bands shall be $\frac{1}{8}$ inch by 1 inch nominal. Stretcher bars shall be $\frac{3}{16}$ inch by $\frac{3}{4}$ inch nominal or $\frac{5}{16}$ inch diameter round bar nominal. A $\frac{5}{16}$ inch diameter round stretcher bar shall be used with Type 1. Nominal shall be construed to be the area of the cross section of the shape obtained by multiplying the specified width by thickness. A variation of minus 5-percent from this theoretical area shall be construed as “nominal” size. All shall be galvanized to meet the requirements of ASTM F 626.

9-16.7 Vacant

This section including title is deleted in its entirety.

9-16.8 Weathering Steel Beam Guardrail

This section including title is deleted in its entirety.

9-18.AP9

Section 9-18, Precast Traffic Curb and Block Traffic Curb August 6, 2012

This section's title is revised to read:

9-18 Precast Traffic Curb

9-18.3 Block Traffic Curb

This section including title is revised to read:

9-18.3 Vacant

9-20.AP9

Section 9-20, Concrete Patching Material, Grout, and Mortar January 2, 2012

9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications

This section is revised to read:

Grout Type 3 shall be a prepackaged material meeting the requirements of ASTM C 928 – Table 1, R2 Concrete or Mortar.

9-20.3(4) Grout Type 4 for Multipurpose Applications

In the third sentence of the first paragraph, the reference “0.40” is revised to read “0.45”.

9-23.AP9

**Section 9-23, Concrete Curing Materials and Admixtures
August 5, 2013**

9-23.2 Liquid Membrane-Forming Concrete Curing Compounds

In the first paragraph, “moisture loss” is revised to read “water retention”.

9-23.6(9) Type S Specific Performance Admixtures

The first sentence is revised to read the following two new sentences:

Type S Specific Performance admixtures are limited to ASR-mitigating, viscosity modifying, shrinkage reducing, rheology-controlling, and workability-retaining admixtures. They shall conform to the requirements of ASTM C 494 Type S.

9-26.AP9

**Section 9-26, Epoxy Resins
August 5, 2013**

9-26.3(1)A Traffic Bearing Applications

The first sentence in the first paragraph is revised to read:

Epoxy grout/mortar/concrete for traffic bearing applications shall have a 7-day compressive strength of not less than 4,000 psi when tested in accordance with ASTM C 579.

9-28.AP9

**Section 9-28, Signing Materials and Fabrication
April 1, 2013**

9-28.14(2) Steel Structures and Posts

“AASHTO M 291” is revised to read “ASTM A 563” and “AASHTO M 293” is revised to read “ASTM F 436”.

9-29.AP9

**Section 9-29, Illumination, Signal, Electrical
August 5, 2013**

9-29.1(4) Non-Metallic Conduit

This section is supplemented with the following new sub-section:

9-29.1(4)D Deflection Fittings

Deflection Fittings for use with rigid PVC conduit shall be as described in 9-29.1(2)A

9-29.2 Junction Boxes, Cable Vaults, and Pull Boxes

The section is supplemented with the following:

The Contractor shall perform quality control inspection. The Contracting Agency intends to perform Quality Assurance Inspection. By its inspection, the Contracting Agency intends only to verify the quality of that Work. This inspection shall not relieve the Contractor of any responsibility for identifying and replacing defective material and workmanship. Prior to the start of production of the precast concrete units, the Contractor shall advise the Engineer of the production schedule. The Contractor shall give the Inspector safe and free access to the Work. If the Inspector observes any nonspecification Work or unacceptable quality control practices, the Inspector will advise the plant manager. If the corrective action is not acceptable to the Engineer, the unit(s) will be rejected.

9-29.2(1) Standard Duty and Heavy-Duty Junction Boxes

The third paragraph is deleted and replaced with the following new paragraphs:

The Contractor shall provide shop drawings for all components, hardware, lid, frame, reinforcement, and box dimensions. The shop drawings shall be prepared by (or under the supervision of) a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and each sheet shall include the following:

1. Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.
2. The initials and dates of all participating design professionals
3. Clear notation of all revisions including identification of who authorized the revision, who made the revision, and the date of the revision.
4. Design calculations shall carry on the cover page, the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.

For each type of junction box, or whenever there is a change to the junction box design, a proof test, as defined in this Specification, shall be performed and new shop drawings submitted.

9-29.2(1)A Standard Duty Junction Boxes

The first paragraph is supplemented with the following:

All Standard Duty Junction Boxes placed in sidewalks, walkways, and shared use paths shall have slip resistant surfaces. Non-slip lids and frames shall be hot dip galvanized in accordance with AASHTO M 111.

The sub-paragraph's titled "**Concrete Junction Boxes**" are revised to read:

Concrete Junction Boxes

The Standard Duty Concrete Junction Box steel frame, lid support, and lid shall be painted with a black paint containing rust inhibitors or painted with a shop applied, inorganic zinc primer in accordance with Section 6-07.3, or hot-dip galvanized in accordance with AASHTO M 111.

Concrete used in Standard Duty Junction Boxes shall have a minimum compressive strength of 6,000 psi when reinforced with a welded wire hoop, or 4,000 psi when reinforced with welded wire

fabric or fiber reinforcement. The frame shall be anchored to the box by welding headed studs $\frac{3}{8}$ by 3 inches long, as specified in Section 9-06.15, to the frame. The wire fabric shall be attached to the studs and frame with standard tie practices. The box shall contain ten studs located near the centerline of the frame and box wall. The studs shall be placed one anchor in each corner, one at the middle of each width and two equally spaced on each length of the box.

Materials for Type 1, 2, and 8 Concrete Junction Boxes shall conform to the following:

Materials	Requirement
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Fiber Reinforcing	ASTM C 1116, Type III
Lid	ASTM A 786 diamond plate steel
Slip Resistant Lid	ASTM A 36 steel
Frame	ASTM A 786 diamond plate steel or ASTM A36 steel
Slip Resistant Frame	ASTM A 36 steel
Lid Support	ASTM A 36, or ASTM A1011 Grade SS
Handle & Handle support	ASTM A 36 steel or ASTM A1011 Grade CS or SS
Anchors (studs)	Section 9-06.15
Bolts, Studs, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless Steel grade 302, 304, or 316 steel in accordance with approved shop drawing
Locking and Latching Mechanism Hardware and Bolts	In accordance with approved shop drawings

9-29.2(1)B Heavy Duty Junction Boxes

The section is revised to read:

Heavy-Duty Junction Boxes shall be concrete and have a minimum vertical load rating of 46,000 pounds without permanent deformation and 60,000 pounds without failure when tested in accordance with Section 9-29.2(1)C.

The Heavy-Duty Junction Box steel frame, lid support and lid shall be painted with a shop applied, inorganic zinc primer in accordance with Section 6-07.3.

Materials for Type 4, 5, and 6 Concrete Junction Boxes shall conform to the following:

Materials	Requirement
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Lid	ASTM A 786 diamond plate steel, rolled from plate complying with ASTM A 572, grade 50 or ASTM A 588, and having a min. CVN toughness of 20 ft-lb at 40 degrees F.

Frame and stiffener plates	ASTM A 572 grade 50 or ASTM A 588, both with min. CVN toughness of 20 ft-lb at 40 degrees F
Handle	ASTM A 36 steel or ASTM A 1011 Grade CS or SS
Anchors (studs)	Section 9-06.15
Bolts, Studs, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless steel grade 302, 304, or 316 in accordance with approved shop drawing
Hinges and Locking and Latching Mechanism Hardware and Bolts	In accordance with approved shop drawings

The lid stiffener plates shall bear on the frame, and be milled so that there is full even contact, around the perimeter, between the bearing seat and lid stiffener plates, after fabrication of the frame and lid. The bearing seat and lid perimeter bar shall be free from burrs, dirt, and other foreign debris that would prevent solid seating. Bolts and nuts shall be liberally coated with anti-seize compound. Bolts shall be installed snug tight. The bearing seat and lid perimeter bar shall be machined to allow a minimum of 75 percent of the bearing areas to be seated with a tolerance of 0.0 to 0.005 inches measured with a feeler gage. The bearing area percentage will be measured for each side of the lid as it bears on the frame.

9-29.2(1)C Testing Requirements

The first paragraph is revised to read:

The Contractor shall provide for testing of junction boxes, cable vaults and pull boxes. Junction boxes, cable vaults and pull boxes shall be tested by an independent materials testing facility, and a test report issued documenting the results of the tests performed.

The second paragraph is revised to read:

For concrete junction boxes, vaults and pull boxes, the independent testing laboratory shall meet the requirements of AASHTO R 18 for Qualified Tester and Verified Test Equipment. The test shall be conducted in the presence of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and each test sheet shall have the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration. One copy of the test report shall be furnished to the Contracting Agency certifying that the box and cover meet or exceed the loading requirements for a concrete junction box, and shall include the following information:

1. Product identification.
2. Date of testing.
3. Description of testing apparatus and procedure.
4. All load deflection and failure data.
5. Weight of box and cover tested.

6. Upon completion of the required test(s) the box shall be loaded to failure.
7. A brief description of type and location of failure.

The third paragraph is revised to read:

For non-concrete junction boxes the independent testing laboratory shall meet the requirements of AASHTO R 18 for Qualified Tester and Verified Test Equipment. The test shall be conducted in the presence of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and each test sheet shall have the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration. One copy of the test report shall be furnished to the Contracting Agency certifying that the box and cover meet or exceed the loading requirements for a non-concrete junction box, and shall include the following information:

1. Product identification.
2. Date of testing.
3. Description of testing apparatus and procedure.
4. All load deflection data.
5. Weight of box and cover tested.

The first paragraph following the title "**Testing for the Standard Duty Non-Concrete Junction Boxes**" is revised to read:

Non-concrete Junction Boxes shall be tested as defined in the ANSI/SCTE 77-2007 Tier 15 test method with test load minimum of 22,500 lbs. In addition, the Contractor shall provide a Manufacture Certificate of Compliance for each non-concrete junction box installed.

9-29.2(2) Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes

This section is revised to read:

Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes shall be constructed as a concrete box and as a concrete lid. The lid for the Heavy-Duty and Standard Duty Cable Vaults and Pull Boxes shall be interchangeable and both shall fit the same box as shown in the Standard Plans.

The Contractor shall provide shop drawings for all components, including concrete box, Cast Iron Ring, Ductile Iron Lid, Steel Rings, and Lid. In addition, the shop drawings shall show placement of reinforcing steel, knock outs, and any other appurtenances. The shop drawing shall be prepared by or under the direct supervision of a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural, and each sheet shall carry the following:

1. Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.
2. The initials and dates of all participating design professionals
3. Clear notation of all revisions including identification of who authorized the revision, who made the revision, and the date of the revision.

4. Design calculations shall carry on the cover page, the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration.

For each type of box or whenever there is a change to the Cable Vault or Pull box design, a proof test, as defined in this Specification, shall be performed and new shop drawings submitted.

9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes

This section is revised to read:

Standard Duty Cable Vaults and Pull boxes shall be concrete and have a minimum load rating of 22,500 pounds and be tested in accordance with Section 9-29.2(1)C for concrete Standard Duty Junction Boxes.

Concrete for standard duty cable vaults and pull boxes shall have a minimum compressive strength of 4,000 psi. The lid frame shall be anchored to the vault/box concrete lid by welding headed studs $\frac{3}{8}$ by 3 inches long, as specified in Section 9-06.15, to the frame. The wire fabric shall be attached to the studs and frame with standard tie practices. The vault/box concrete lid shall contain ten studs located near the centerline of the frame and wall. Studs shall be placed one anchor in each corner, one at the middle of each width and two equally spaced on each length of the vault/box. The steel frame, lid support, and lid shall be painted with a black paint containing rust inhibitors or painted with a shop applied, inorganic zinc primer in accordance with Section 6-07.3 or hot-dip galvanized in accordance with ASTM M 111.

All Standard Duty Cable Vaults and Pull Boxes placed in sidewalks, walkways, and shared-use paths shall have slip-resistant surfaces. The steel frame, lid support, and lid for the Standard Duty Cable Vaults and Pull Boxes shall be hot-dip galvanized.

Materials for Standard Duty Cable Vaults and Pull Boxes shall conform to the following:

Materials	Requirements
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Lid	ASTM A 786 diamond plate steel
Slip Resistant Lid	ASTM A 36 Steel
Frame	ASTM A 786 diamond plate steel or ASTM A 36
Slip Resistant Frame	ASTM A 36 Steel
Lid Support	ASTM A 36 Steel, or ASTM A 1011 Grade SS
Handle & Handle Support	ASTM A 36 steel or ASTM A 1011 Grade CS or SS
Anchors (studs)	Section 9-06.15
Bolts, Studs, Nuts, Washers	ASTM F593 or A 193, type 304 or 316, or Stainless steel grade 302, 304, 316 per approved shop drawing
Hinges and Locking Mechanism Hardware and Bolts	In accordance with approved shop drawings

9-29.2(2)B Heavy-Duty Cable Vaults and Pull Boxes

This section is revised to read:

Heavy-Duty Cable Vaults and Pull Boxes shall be constructed of concrete having a minimum compressive strength of 4,000 psi, and have a minimum vertical load rating of 46,000 pounds without permanent deformation and 60,000 pounds without failure when tested in accordance with Section 9-29.2(1)C for Heavy-Duty Junction Boxes.

Materials for Heavy Duty Cable Vaults and Pull boxes shall conform to the following:

Materials	Requirements
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Cover	Section 9-05.15(1)
Ring	Section 9-05.15(1)
Anchors (studs)	Section 9-06.15
Bolts, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless steel grade 302, 304, 316 in accordance with approved shop drawing

9-29.6(2) Slip Base Hardware

“AASHTO M 291” is revised to read “ASTM A 563”, “AASHTO M 164” is revised to read “ASTM A 325”, and “AASHTO M 293” is revised to read “ASTM F 436”.

9-29.6(5) Foundation Hardware

“AASHTO M 291” is revised to read “ASTM A 563”.

9-29.10 Luminaires

The third paragraph is revised to read:

All luminaires shall be provided with markers for positive identification of light source type and wattage in accordance with ANSI C136.15-2011. Legends shall be sealed with transparent film resistant to dust, weather, and ultraviolet exposure.

9-29.10(2) Decorative Luminaries

The second sentence in the third paragraph is deleted.

9-29.13 Traffic Signal Controllers

This section and all sub-sections including title is revised to read:

9-29.13 Control Cabinet Assemblies

Control cabinet assemblies shall include all necessary equipment and auxiliary equipment for controlling the operation of traffic signals, programmable message signs, illumination systems, ramp meters, data stations, CCTV, and similar systems as required for the specific application. Traffic Signal Controller Cabinet Assemblies shall meet the requirements of the NEMA TS1 and TS2 specification or the California Department of Transportation “Transportation Electrical Equipment Specifications” (TEES) dated March 12, 2009 as defined in this specification.

9-29.13(1) Environmental, Performance, and Test Standards for Solid-State Traffic Controller Assemblies

The scope of this Specification includes the controller of solid-state design installed in a weatherproof controller cabinet. The controller assembly includes the cabinet, controller unit, load switches, signal conflict monitoring circuitry, accessory logic circuitry, AC line filters, vehicle detectors, coordination equipment and interface, and preemption equipment. NEMA control assemblies shall meet or exceed current NEMA TS 1 Environmental Standards. Normal operation will be required while the control assembly is subjected to any combination of high and low environmental limits (such as low voltage at high temperature with high repetition noise transients). All other control equipment shall meet the environmental requirements of California Department of Transportation "Transportation Electrical Equipment Specifications" (TEES) dated March 12, 2009.

The Contractor shall furnish to the Contracting Agency all guarantees and warranties furnished as a normal trade practice for all control equipment provided.

9-29.13(2) Manufacturing Quality

The fabricator of the Control, cabinet Assemblies shall perform quality control (QC) inspections based on their QC program. Their QC program shall be submitted and approved by WSDOT at least annually. The fabricator of the controller shall certify that the controller meets all requirements of the Standard Specifications and Special Provisions for the specific application.

The QC program shall include, but not be limited to, the following:

1. Quality Statement
2. Individual responsible for quality (organizational chart)
3. Fabrication procedures
4. Test procedures
5. Documented inspection reports
6. Documented test reports
7. Certification package

9-29.13(2)A Traffic Signal Controller Assembly Testing

Each traffic signal controller assembly shall be tested as follows. The supplier shall:

1. Seven days prior to shipping, arrange appointment for controller cabinet assembly, and testing at the WSDOT Materials Laboratory or the facility designated in the Special Provisions.
2. Assembly shall be defined as but not limited to tightening all screws, nuts and bolts, verifying that all wiring is clear of moving parts and properly secured, installing all pluggables, connecting all cables, Verify that all Contract required documents are present, proper documentation is provided, and all equipment required by the Contract is installed.
3. The assembly shall be done at the designated WSDOT facility in the presence of WSDOT personnel.
4. The supplier shall demonstrate that all of the functions required by this Specification and the Contract Plans and Special Provisions perform as intended. Demonstration shall include but not be limited to energizing the cabinet and verifying that all 8 phases, 4 pedestrian movements, 4 overlaps (as required by the Contract Provisions) operate in accordance with Section 9-29.13. The supplier shall place the controller in minimum recall with interval timing set at convenient value for testing purposes. Upon a satisfactory demonstration the controller assembly will then be accepted by WSDOT for testing.
5. If the assembly and acceptance for testing is not complete within 5 working days of delivery, the Project Engineer may authorize the return of the assembly to the supplier, with collect freight charges to the supplier.
6. The Contractor will be notified when the testing is complete, and where the assembly is to be picked-up for delivery to the project.
7. The supplier has 5 working days to repair or replace any components that fail during the testing process at no cost to the Contracting Agency. A failure shall be defined as a component that no longer functions as intended under the

conditions required or does not meet the requirements of the Contract Specifications and is at the sole discretion of WSDOT.

8. Any part or component of the controller assembly, including the cabinet that is rejected shall not be submitted for use by WSDOT or any City or County in the State of Washington.

9-29.13(3) Traffic Signal Controller

The traffic signal controller shall conform to the Contract requirements and the applicable Specifications as listed below: All solid-state electronic traffic-actuated controllers and their supplemental devices shall employ digital timing methods.

- A. NEMA control and all auxiliary equipment shall conform to current NEMA TS1 or TS2 Specification. Every pin of every connecting plug shall be utilized as described within the NEMA requirement, except that those pins identified as “spare” or “future” shall remain unused.
- B. Type 170E controllers shall conform to the TEES. The 170E controller shall be provided with a program card, one blank ROM chip, and two 64K non-volatile memory chips.
- C. Type 170E/HC-11 controllers shall conform to the current Oregon Department of Transportation Specification for model 170E/HC-11 controller. The 170E controller with the HC11 chip shall be compatible with the software specified in the Contract. The controller shall be provided with one ROM chip and one 64K non-volatile memory chip.
- D. Vacant
- E. Type 2070 controllers shall conform to the TEES. The standard 2070 controller shall consist of the following:

2070	2070E	2070N1
2070-5 VME cage		
2070-1E CPU Card	2070-1E CPU Card	2070-1E CPU Card
2070-3B Front Panel	2070-3B Front Panel	2070-3B Front Panel
2070-4 Power Supply	2070-4 Power Supply	2070-4 Power Supply
2070-2A Field I/O	2070-2A Field I/O	2070-2B Field I/O
X	X	2070-8 Interface

9-29.13(4) Traffic-Signal Controller Software

All traffic signal controllers shall operate with software specified in the contract.

Traffic-actuated controllers shall be electronic devices which, when connected to traffic detectors or other means of actuation, or both, shall operate the electrical traffic signal system at one or more intersections.

If the complete traffic controller defined in the Special Provision requires NTCIP compliance the following are the minimum requirements for NTCIP operation.

Communication

The traffic controller hardware and software shall communicate with the central computer in a polled multi-drop operation. In the polled multi-drop operation, several traffic controllers shall share the same communication channel, with each controller assigned a unique ID number. Controller ID numbers shall conform to the NTCIP requirements for address numbers. A traffic controller shall only reply to messages labeled with its ID. In polled multi-drop mode, traffic controllers never initiate communication, but merely transmit their responses to messages from the central computer.

A laptop computer connected to the traffic controller’s local communication port shall have the same control and diagnostic capabilities as the central computer. However, local laptop control capability shall be limited to that traffic controller.

NTCIP Requirements

The traffic controller software shall comply with the National Transportation Communications for ITS Protocol (NTCIP) documents and all related errata sheets published before July 1, 1999 and as referenced herein.

The traffic controller software shall support the following standards:

1. NTCIP 1101, *Simple Transportation Management Framework (STMF)*, Conformance Level 1 (Simple Network Management Protocol (SNMP))
2. NTCIP 2001, *Class B Profile*. All serial ports on the device shall support communications according to these standards.
3. NTCIP 2101, *SP-PMPP/RS232 Point-to-Multi-Point Protocol (PMPP)*
4. NTCIP 2201, *NTCIP TP-Null Transport Profile Null (TP-NULL)*

The traffic controller software shall implement all mandatory objects of all mandatory conformance groups as defined in NTCIP 1201, *Global Object Definitions*, and NTCIP 1202, *Object Definitions for Actuated Traffic Signal Controller Units*. Software shall implement the following conformance groups:

NTCIP 1202, Object Definitions for ASC

Conformance Group	Reference	
Configuration	1201	2.2
Time Management		
Time Base Event Schedule		
Report		2.5
Phase	1202	2.2
Rings		2.8
Detector		2.3
Unit		2.4
Preempt		2.7
Time Base		2.6
Coordination		2.5
Channel		2.9
Overlaps		2.10

The software shall implement the following optional objects:

Objects required by these specifications shall support all values within its standardized range. The standardized range is defined by a size, range, or enumerated listing indicated in the object's SYNTAX field and/or through descriptive text in the object's description field. The following list indicates the modified object requirements for these objects.

Object Name	Object ID	Minimum Requirements
Global Configuration	moduleType	Value 3
Database Management	dBCreateTransaction	All Values
	dBErrorType	All values
Time Management	globslDaylightSavings	Values 2 and 3
Timebase Events Schedule	maxTimeBaseScheduleEntries	16
	MaxDayPlans	15
	MaxDayEvents	10
Report	maxEventLogCongifs	50
	MventConfigMode	Values 2 thru 5
	mventConfigAction	Values 2 and 3
	MaxEventLogSize	255
	MaxEventClasses	7
PMPP	maxGroupAddress	2
ASC Phase	maxPhases	8
	pPhaseStartp	Values 2 thru 6
	phaseOptions	All Values
	maxPhaseGroups	1
Rings	maxRings	2
	maxSequences	16
Detector	maxVehicleDetectors	64
	vehicleDetectorOptions	All Values
	maxPedestrianDetector	8
Unit	unitAutoPedestrianClear	All Values
	unitControlStatus	All Values
	unitFlashStatus	All Values
	unitControl	All Values
	maxAlarmGroups	1
Special Function	maxSpecialFunctionsOutputs	8
Coordination	coordCorrectionMode	Values 2 thru 4
	coordMaximumMode	Values 2 thru4
	coordForceMode	Values 2 and 3
	maxPatterns	48
	patternTableType	Either 2,3 or 4
	maxSplits	16
Time Base	splitMode	Values 2 thru 7
	localFreeStatus	Values 2 thru 11
	maxTimebaseAscAction	48
Preempt	maxPreempts	4
	preemptControl	All Values
	preemptState	Values 2 thru 9

Overlaps	maxOverlaps	4
	overlapType	Value 2 and 3
	maxOverlapstatusGroup	1
Channels	maxChannels	16
	channelControlGroup	Values 2 thru 4
	channelFlash	Value 0,2,4,6,8,10,12 and 14
	channelDim	Values 0 thru 15
	maxChannelStatusGroup	2
TS 2 Port 1	maxPortAddresses	18
	port1 Table	Values 2 and 3

* values in excess of the minimum requirement are considered to meet the specification.

Documentation

Software shall be supplied with all documentation on a CD. ASCII versions of the following Management Information Base (MIB) files in Abstract Syntax Notation 1 (ASN.1) format shall be provided on CD-ROM:

1. The official MIB Module referenced by the device functionality.
2. A manufacturer-specific version of the official MIB Module with the non-standardized range indicated in the SYNTAX field. The filename shall match the official MIB Module, with the extension "spc".
3. A MIB Module of all manufacturer-specific objects supported by the device with accurate and meaningful DESCRIPTION fields and the supported ranges indicated in the SYNTAX field.

9-29.13(5) Flashing Operations

All traffic signals shall be equipped for flashing operation of signal displays. Controllers and cabinets shall be programmed for flashing red displays for all approaches. During flashing operation, all pedestrian circuits shall be de-energized.

Actuated traffic signal control mechanisms shall be capable of entry into flash operation and return to stop-and-go operation as follows:

1. Terminal Strip Input (Remote Flash). When called as a function of a terminal strip input, the controller shall provide both sequenced entry into flash and sequenced return to normal operation consistent with the requirements of the latest edition of the Manual on Uniform Traffic Control Devices.
2. Police Panel Switch. When the flash-automatic switch located behind the police panel door is turned to the flash position, the signals shall immediately revert to flash; and, the controller shall have a stop time input applied. When the switch is placed on automatic, the controller shall immediately time an 6 second all red period then resume stop-and-go operations at the beginning of major street green.
3. Controller Cabinet Switches. When the flash-automatic switch located inside the controller cabinet is placed in the flash position, the signals shall immediately revert

to flash; however, the controller shall not have a stop time input applied. When the flash-automatic switch is placed in the automatic position, the controller shall immediately time a 6 second all red period, then resume stop-and-go operation at the beginning of the major green.

4. Power Interruption. On "NEMA" controllers any power interruption longer than 475 plus or minus 25 milliseconds, signals shall re-energize consistent with No. 2 above to ensure an 6-second flash period prior to the start of major street green. A power interruption of less than 475 plus or minus 25 milliseconds shall not cause resequencing of the controller and the signal displays shall re-energize without change. Type 170 controllers shall re-energize consistent with No. 2 above after a power interruption of 1.75 plus or minus 0.25 seconds. The 6-second flash period will not be required. Any power interruption to a 2070 type controller shall result in a 6 second flash period once power is restored.
5. Conflict Monitor. Upon detecting a fault condition the conflict monitor shall immediately cause the signal to revert to flash and the controller to stop time. After the conflict monitor has been reset, the controller shall immediately take command of the signal displays at the beginning of major street green.

9-29.13(6) Emergency Preemption

Immediately after a valid call has been received, the preemption equipment shall cause the controller to terminate the appropriate phases as necessary with the required clearance intervals and enter any programmed subsequent preemption sequence. Preemption sequences shall be as noted in the Contract.

9-29.13(7) Wiring Diagrams

Schematic wiring diagrams of the controllers, cabinets and auxiliary equipment shall be submitted when the assemblies are delivered. The diagram shall show in detail all circuits and parts. The parts shall be identified by name or number in a manner readily interpreted. Two hard copies of the cabinet wiring diagram and component wiring diagrams shall be furnished with each cabinet and a pdf file of the cabinet wiring and component drawings. The schematic drawing shall consist of a single sheet, detailing all circuits and parts, not to exceed 52-inches by 72-inches. The cabinet wiring diagram shall indicate and identify all wire terminations, all plug connectors, and the locations of all equipment in the cabinet. Included in the diagram shall be an intersection sketch identifying all heads, detectors, and push buttons and a phase diagram.

9-29.13(8) Generator Transfer Switch

When specified in the contract, A generator transfer switch shall be included. . The Generator Transfer Switch shall be capable of switching power from a utility power source to an external generator power source.

The Transfer Switch enclosure shall be of identical materials and dimensions and installation methods as the Police Panel type enclosure specified in the first paragraph of Special Provision 9-29.13(10)D except that the enclosure door shall include a spring loaded construction core lock capable of accepting a Best 6-pin CX series core. The core lock shall be installed with a green construction core. Upon contract completion, two master keys for the construction core shall be delivered to the Engineer.

The enclosure shall include the following Transfer Switch equipment:

1. One Nema L5-30P Flanged Inlet generator connector
2. One Utility power indicator light
3. One generator indicator light
4. Two 30 amp, 120 volt, single pole, single phase, circuit breakers. One circuit breaker shall be labeled "Generator" and the other circuit breaker shall be labeled "Utility". Both labels shall be engraved phenolic name plates.
5. A mechanical lock out feature that prevents the Utility circuit breaker and the Generator circuit breaker from being in the ON position at the same time. The circuit breakers shall be capable of being independently switched.
6. The conductors from the Generator Transfer Switch enclosure to the cabinet circuit breaker shall be enclosed in nylon mesh sleeve.
7. The enclosure door shall be labeled with the letters "GTS".

9-29.13(9) Vacant

9-29.13(10) NEMA, Type 170E, 2070 Controllers and Cabinets

9-29.13(10)A Auxiliary Equipment for NEMA Controllers

The following auxiliary equipment shall be furnished and installed in each cabinet for NEMA traffic-actuated controllers:

1. A solid-state Type 3 NEMA flasher with flash-transfer relay which will cut in the flasher and isolate the controller from light circuits. See Section 9-29.13(5) for operational requirements.
2. Modular solid state relay load switches of sufficient number to provide for each vehicle phase (including future phases if shown in the plans), each pedestrian phase and preemption sequence indicated in the Contract. Type P & R cabinets shall include a fully wired 16-position back panel. Solid-state load switches shall conform to NEMA standards except only optically isolated load switches will be allowed. Load switches shall include indicator lights on the input and output circuits. The controller cabinet shall have all cabinet wiring installed for eight vehicle phases, four pedestrian phases, four emergency pre-empts, four overlaps (OL A, B, C, D).
3. A power panel with:
 - a. A control-display breaker sized to provide 125 percent overload protection for all control equipment and signal displays, 20 ampere minimum.
 - b. A 15 ampere accessory breaker wired parallel to the control display breaker. The breaker will carry accessory loads, including vent fan, cabinet light, plug receptacle, etc.
 - c. A busbar isolated from ground and unfused for the neutral side of power supply.

- d. A radio interference suppresser installed at the input power point. Interference suppressers shall be of a design which will minimize interference in both broadcast and aircraft frequencies, and shall provide a minimum attenuation of 50 decibels over a frequency range of 200 kilohertz to 75 megahertz when used in connection with normal installations. The interference filters furnished shall be hermetically sealed in a substantial case filled with a suitable insulating compound. Terminals shall be nickel plated, 10-24 brass studs of sufficient external length to provide space to connect two 8 AWG wires, and shall be so mounted that they cannot be turned in the case.

Ungrounded terminals shall be insulated from each other and shall maintain a surface leakage distance of not less than ½-inch between any exposed current conductor and any other metallic parts with an insulation factor of 100-200 megohms dependent on external circuit conditions.

Suppressers shall be designed for operations on 50 amperes, 125 volts, 60 cycles, single wire circuits, and shall meet standards of the Underwriters' Laboratories and the Radio Manufacturers Association.

- e. A Surge Protection Device connected to the controller power circuit for protection against voltage abnormalities of 1 cycle or less duration. The Surge Protection Device shall be a solid state high energy circuit containing no spark gap, gas tube, or crow bar component. The device shall provide transient protection between neutral and ground, line and ground, as well as line and neutral. If the protection circuits fail, they shall fail to an open circuit condition. The minimum interrupting capacity shall be 10,000 Amps. The Voltage Protection Rating shall be 600 volts or less when subjected to an impulse of 6,000 volts, 3,000 amp source impedance, 8.0/20 microsecond waveform as described in UL 1449. In addition, the device shall dissipate a 13,000 Amp or greater repeated single peak 8/20 microsecond current impulse, and withstand, without failure or permanent damage, one full cycle at 264 volts RMS. The device shall contain circuitry to prevent self-induced regenerative ringing. There shall be a failure warning indicator which shall illuminate a red light or extinguish a green light when the device has failed and is no longer operable.
 - f. Cabinet ground busbar independent (150K ohms minimum) of neutral.
- 4. A police panel located behind the police panel door with a flash automatic switch and a control-display power line on-off switch. See Section 9-29.13(5) for operational requirements.
 - 5. An auxiliary control panel located inside the controller cabinet with a flash-automatic switch and a controller on-off switch. See Section 9-29.13(5) for operational requirements. A three wire 15 ampere plug receptacle with grounding contact and 15 ampere ground fault interrupter shall also be provided on the panel.

6. A conflict monitor conforming to NEMA standards. See Section 9-29.13(5) for operational requirements. The unit shall monitor conflicting signal indications at the field connection terminals. The unit shall be wired in a manner such that the signal will revert to flash if the conflict monitor is removed from service.

Supplemental loads not to exceed 10 watts per monitored circuit or other means, shall be provided to prevent conflict monitor actuation caused by dimming or lamp burn-out. Supplemental loads shall be installed on the control side of the field terminals. Conflict monitors shall include a minimum of one indicator light for each phase used. The monitoring capacity of the unit shall be compatible with the controller frame size. Conflict monitors shall include a program card.

7. A "Detector Panel", as specified in *Standard Specification* Section 9-29.13(10)B, shall be installed. The panel shall be mounted on the inside of the front cabinet door. The detector panel shall be constructed as a single unit. Detector switches with separate operate, test, and off positions shall be provided for each field detector input circuit. A high intensity light emitting diode (LED) shall be provided for each switch. The lamp shall energize upon vehicle, pedestrian or test switch actuation. The test switch shall provide a spring loaded momentary contact that will place a call into the controller. When in the OFF position, respective detector circuits will be disconnected. In the operate position, each respective detector circuit shall operate normally. Switches shall be provided on the panel with labels and functions as follows:
 - a. **Display On** — Detector indicator lights shall operate consistent with their respective switches.
 - b. **Display Off** — detector indicator lights shall be de-energized.

A means of disconnecting all wiring entering the panel shall be provided. The disconnect shall include a means to jumper detection calls when the display panel is disconnected. All switches on the panel shall be marked with its associated Plan detector number. All markers shall be permanent.

8. Insulated terminal blocks of sufficient number to provide a termination for all field wiring. A minimum of 12 spare terminals shall be provided. Field wire connection terminal blocks shall be 600 volt, heavy duty, barrier type, except loop detector lead-ins, which may be 300 volt. The 600 volt type-terminal strips shall be provided with a field-side and a control-side connector separated by a marker strip. The 300 volt type shall have a marker strip, installed on the right side of vertical terminal strips or below horizontal terminal strips. The marker strip shall bear the circuit number indicated in the plans and shall be engraved. Each connector shall be a screw type with No. 8 post capable of accepting no less than three 12 AWG wires fitted with spade tips.
9. A vent fan with adjustable thermostat. The minimum CFM rating of the fan shall exceed three times the cabinet volume.
10. VACANT

11. All wiring within the cabinet, exclusive of wiring installed by the signal controller manufacturer, shall have insulation conforming to the requirements of Section 9-29.3. Cabinet wiring shall be trimmed to eliminate all slack and shall be laced or bound together with nylon wraps or equivalent. All terminals, shall be numbered and permanently identified with PVC or polyolefin wire marking sleeve consistent with the cabinet wiring diagram provided by the signal controller manufacturer and the Contract. The cabinet will be completely wired so that the only requirement to make a field location completely operational is to attach field power and ground wiring. Internal cabinet wiring shall not utilize the field side connections of the terminal strip intended for termination of field wires.
12. Cabinet wiring diagram and component wiring diagrams meeting the requirements of 9-29.13(7) shall be furnished with each cabinet. Each cabinet shall be equipped with a, shelf mounted roll out drawer mounted directly below the controller to house one or more cabinet wiring diagrams. The cabinet wiring diagram shall indicate and identify all wire terminations, all plug connectors, and the locations of all equipment in the cabinet. Included in the diagram shall be an intersection sketch identifying all heads, detectors, and push buttons; and a phase diagram.
13. Each vehicle detector amplifier, video detection output channel pedestrian call isolation unit, phase selector, discriminator, and load switch shall be identified with semi-permanent stick-on type label. The following information shall be included:
 - a. Vehicle Detector Amplifier Channel
 1. Loop number
 2. Assigned phase(s)
 - b. Ped Call Isolation Unit
 1. Push button number
 2. Assigned phase(s)
 - c. Load Switches
 1. Signal head number
 2. Assigned phase(s)
 - d. Phase Selectors
 1. Circuit Letter
 2. Phase(s) called

The label shall be placed on the face of the unit. It shall not block any switch, light, or operational words on the unit. The lettering on this label shall be neat, legible, and easily read from a distance of approximately 6-feet.

9-29.13(10)B Auxiliary Equipment for Type 170E, 2070 Assemblies

The following requirements apply to required auxiliary equipment furnished with Type 170E, 170E-HC-11 and 2070 controllers:

- A. Flashers, flash transfer relays, conflict monitor, AC isolators, DC isolators, discriminator modules, program modules, modem modules, breakers, buses, police panel switches, receptacle requirement, vent fan and auxiliary control panel switches shall conform to the requirements noted in the TEES.
- B. Flashing operation shall conform to Section 9-29.13(5), except the 6-second flash period described in Item 2 of that section will not be required. Emergency preemption shall conform to Section 9-29.13(6).
- C. Input and output terminals shall be installed with a marking strip with field wire numbers noted in the Contract embossed on the strip. All cabinet and field conductor shall have a PVC or polyolefin wire marking sleeve installed, matching the input and output terminals above. Marking on sleeves shall be embossed or type written.
- D. The input panel terminal blocks TB 2 through TB 9 and associated cable to the input files as described in the TEES shall be provided in all control assemblies.
- E. Supplemental load resistor, not less than 2000 ohms and not greater than 5000 ohms not to exceed 10 watts per monitored circuit, shall be provided to prevent conflict monitor actuation caused by dimming or lamp burn-out.

An individual supplemental load resistor shall be installed within the output file, and shall be installed on each of the following terminal circuits:

FT1-105 (SP 4P-Y)	FT1-111 (SP 8P-Y)	FT2-114 (SP 2P-Y)	FT2-120 (SP 6P-Y)
FT2-117 (SP 3-Y)	FT2-118 (SP 3-G)	FT2-123 (SP 7-Y)	FT2-124 (SP 7-G)
FT3-126 (SP 1-Y)	FT3-127 (SP 1-G)	FT3-132 (SP 5-Y)	FT3-133 (SP 5-G)

- F. Load switches of sufficient quantity to fully populate the output files shall conform to TEES and shall have indicator lights on input and output circuits.
- G. A detection panel, which shall be constructed as a single unit. Detector switches with separate operate, test, and off positions shall be provided for each field detector input circuit. A high intensity light emitting diode (LED) shall be provided for each switch. The lamp shall energize upon vehicle, pedestrian or test switch actuation. The test switch shall provide a spring loaded momentary contact that will place a call into the controller. When in the OFF position, respective detector circuits will be disconnected. In the operate position, each respective detector circuit shall operate normally. Switches shall be provided on the panel with labels and functions as follows:

- a. **Display On** — Detector indicator lights shall operate consistent with their respective switches.
- b. **Display Off** — detector indicator lights shall be de-energized.

A means of disconnecting all wiring entering the panel shall be provided. The disconnect shall include a means to jumper detection calls when the display panel is disconnected. All switches on the panel shall be marked with its associated Plan detector number. All markers shall be permanent.

- H. A “Detector Termination and Interface Panel” shall be provided. When viewing the cabinet from the back, the panel shall be located on the upper left hand side of the cabinet. The panel shall be electrically located between the “detection Panel” and the C-1 connector. The panel shall utilize insulated terminal blocks and each connector shall be a screw type with post.
- I. Each switchpack socket shall have pin 11 common to Neutral.
- J. The AC input Service Panel Assembly (SPA), line voltage filter, transient surge protection and all neutral bus bars and equipment ground bus bars shall be on the right side of the cabinet, mounted no more than 18 inches from the bottom of the cabinet when viewed from the rear, and meet the requirements described in TEES.
- K. The PED yellow terminals on the CMU edge connector shall be extended with a 2 foot wire, coiled, heat shrink tipped and labeled for the correct corresponding terminal as CH-13Y/CMU-8, CH-14Y/CMU-11, CH-15Y/CMU-K, CH-16Y/CMU-N.
- L. An “Absence Of Red Programming Assembly” shall be provided. There shall be provided on the back panel of the output file, 17 accessible jumper plug attachment areas, made up of three male pins per position (one, for each conflict monitor channel and one for red enable function). Each jumper plug shall be a two position connector, It shall be possible, by inserting and positioning one of the 16 connectors on the right two pins on the monitor board, to apply 120 VAC into a corresponding channel of the conflict monitor red channels. The connection between the red monitor board and the conflict monitor shall be accomplished via a 20 pin ribbon cable and the industry standard P-20 connector that attaches on the front panel of the monitor. It shall be possible, by inserting and positioning one of the 16 jumper plugs on the two left pins on the monitor board, to enable the corresponding channel to monitor for red fault by the conflict monitor. There shall be installed on the red monitor board a red fail monitor disable function that controls the 120 VAC red enable signal into the conflict monitor. During stop-and-go operation, 120VAC is sent via pin #20 on the P20 connector to enable red failure monitoring on the conflict monitor by having the connector moved to the side labeled “Red Enable”. If this is disengaged by moving the connector to the side labeled “Red Relay”, then 120VAC is removed from pin #20, and the conflict monitor will no longer monitor for red fail faults. The red enable function will also be wired such that if the traffic signal is in cabinet flash, then there will be no voltage on pin #20, and the conflict monitor will not monitor for red fail faults.

- M. Each cabinet shall be provided with at least 20 empty neutral connections to accommodate field wiring. The neutral bus bars shall be of the style in which a lug is not needed to be applied to the neutral field wire(s). All of the neutral bars shall be secured in accordance with the TEES. All neutral bars shall be at the same electrical potential.
- N. The main breaker on the SPA shall be provided with a cover to prevent accidental tripping. The cover shall be removable and replaceable without the use of tools. VACANT
- O. **Equipment Branch Breaker** –The duplex receptacle on the rear of either PDA #2L or 3L shall be wired in parallel with the ground fault current interrupt receptacle on the front of the power supply. The ground fault current interrupt receptacle being in the “Test” mode shall not remove power to the rear receptacle.

9-29.13(10)C NEMA Controller Cabinets

Each NEMA traffic controller shall be housed in a weatherproof cabinet conforming to the following requirements:

1. Construction shall be of 0.073-inch minimum thickness series 300 stainless steel or 0.125 minimum thickness 5052 H32 ASTM B209 alloy aluminum. The stainless steel shall be annealed or one-quarter-hardness complying with ASTM A666 stainless steel sheet. Cabinets may be finished inside with an approved finish coat of exterior white enamel. If no other coating is specified in the Contract Provisions the exterior of all cabinets shall be bare metal. All controller cabinets shall be furnished with front and rear doors.
2. The cabinet shall contain shelving, brackets, racks, etc., to support the controller and auxiliary equipment. All equipment shall set squarely on shelves or be mounted in racks and shall be removable without turning, tilting, or rotating or relocating one device to remove another. A 24 slot rack or racks shall be installed. The rack(s) shall be wired for 2 channel loop detectors and as follows. Slots 1 & 2 phase 1 loop detectors. Slots 3, 4, & 5 phase 2 loop detectors. Slots 6 & 7 phase 3 loop detectors. Slots 8, 9, & 10 phase 4 loop detectors. Slots 11 & 12 phase 5 loop detectors. Slots 13, 14, & 15 phase 6 loop detectors. Slots 16 & 17 phase 7 loop detectors. Slots 18, 19 & 20 phase 8 loop detectors. Slot 21 upper phase 1 loop detector. Slot 21 lower phase 5 detector. Slot 22 wired for a 2 channel discriminator channels A, C. Slot 23 wired for a 2 channel discriminator, channels B, D. Slot 24 wired for a 4 channel discriminator, wired for channel A, B, C, and D. All loop detector slots shall be wired for presence/pulse detection/extension. If an external power supply is required in order for the entire racks(s) to be powered it shall be installed. All rack(s) slots shall be labeled with engraved identification strips.
3. Additional detection utilizing the “D” connector shall be installed in accordance with the Contract. The cabinet shall be of adequate size to properly house the controller and all required appurtenances and auxiliary equipment in an upright position with a clearance of at least 3-inches from the vent fan and filter to allow for proper air flow. In no case shall more than 70 percent of the cabinet volume

- be used. There shall be at least a 2-inch clearance between shelf mounted equipment and the cabinet wall or equipment mounted on the cabinet wall.
4. The cabinet shall have an air intake vent on the lower half of the front door, with a 12-inch by 16-inch by 1-inch removable throw away filter, secured in place with a spring-loaded framework.
 5. The cabinet door(s) shall be provided with:
 - a. Cabinet doors shall each have a three point latch system. Locks shall be spring loaded construction locks capable of accepting a Best 6 pin core. A 6 pin construction core of type (blue, green, or Red) specified in the contract shall be installed in each core lock. One core removal key and two standard keys shall be included with each cabinet and delivered to the Engineer.
 - b. A police panel assembly shall be installed in the front door and shall have a stainless steel hinge pin and a police panel lock. Two police keys with shafts a minimum of 1¾-inches long shall be provided with each cabinet.
 - c. All doors and police panel door shall have one piece, closed cell, neoprene gaskets.
 - d. A two position doorstop assembly.
 6. Fluorescent fixtures or LED light strips (only one type per cabinet) for cabinet lighting. Color temperature shall be 4100K (cool white) or higher. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5 shatterproof tubular bulbs. LED light strips shall be approximately 12 inches long, and have a minimum output of 320 lumens. Lighting shall be ceiling mounted and oriented parallel to the door face. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting fixtures shall energize whenever any door is opened. Each door switch shall be labeled "Light".

9-29.13(10)D Cabinets for Type 170E and 2070 controllers

Type 170E and 2070 controllers shall be housed in a model 332L cabinet unless specified otherwise in the contract. Type 332L cabinets shall be constructed in accordance with TEES with the following modifications:

1. Each door shall be furnished with the equipment listed in *Standard Specifications* 9-29.13(10)C item 5 above.
2. The cabinet shall be furnished with auxiliary equipment described in Standard Specification 9-29.13(10)B.
3. The cabinet shall be fabricated of stainless steel or sheet aluminum in accordance with Section 9-29.13(10)C, Item 1 above. Painted steel, painted or anodized aluminum is not allowed.
4. A disposable paper filter element with dimensions of 12" x 6" x 1" shall be provided in lieu of a metal filter. The filter shall be secured in the filter holder

with a louvered aluminum cover. The maximum depth of the cover shall not be more than 0.5" inch to provide the filter to be flush against the door. No incoming air shall bypass the filter element.

5. Field wire terminals shall be labeled in accordance with the Field Wiring Chart.
6. Fluorescent fixtures or LED light strips (only one type per cabinet) for cabinet lighting. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5 tubular bulbs. Tubular bulbs shall be contained within a shatterproof lamp cover. Led strips shall be approximately 12 inches long, and have a minimum output of 320 lumens. There shall be one fixture for each rack within the cabinet. Lighting shall be ceiling mounted and oriented perpendicular to the door face. Rack mounted lights are not allowed. Lighting shall be positioned such that the fixture is centered between the front and rear of the cabinet. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. Each lighting fixture shall energize automatically when either door to that respective rack is opened. Each door switch shall be labeled "Light".
7. One drawer shelf, as shown in the TEES
8. 332D Controller Cabinet
 - a. The 332D Controller cabinet shall have the appearance of two Type 332 controller cabinets joined at opposing sides. The outside Dimensions of the cabinet shall be 67" High X 48 1/2" Wide X 30 1/4" Deep.
 - b. The right side of the cabinet, as viewed from the front, shall be considered the Signal Control side. The left side of the cabinet, when viewed from the front, shall be considered the ITS/COMM side.
 - c. One police access panel shall be installed on the right side of the cabinet, as viewed from the front.
 - d. Two cabinet lights shall be provided one on each side and as described in section 9-29.13(10)D.6
 - e. Vacant
 - f. The Traffic Signal Control side of the cabinet shall contain the Traffic Signal Controller assembly and shall be furnished with equipment as described in the contract specifications. The Traffic Signal Control side of the cabinet shall also meet all the additional equipment requirements of the Type 332 Signal Controller cabinet as indicated in the contract specifications.
 - g. The ITS/COMM side of the cabinet shall contain ITS and Communication equipment and shall be furnished with the following:
 1. One controller shelf unit, mounted 36 inches from the bottom of the cabinet opening to the front of the cabinet and attaching to the front rails of the EIA rack, shall be provided. The shelf shall be fabricated

from aluminum and shall contain a rollout flip-top drawer for storage of wiring diagrams and manuals.

2. One aluminum sheet metal panel, 1/8"x 15"x 54", shall be installed to the rear of the cabinet on the right hand (when facing the front) side railing.
3. Additional ITS and Communication equipment as described in the Contract Plans and the ITS section of the Contract Special Provisions.

9-29.13(11) Traffic Data Accumulator and Ramp Meters

All cabinets designated for use as a traffic data or ramp meter shall be Type 334L cabinets furnished to meet the TEES with the modifications listed in Section 9-29.13(10)D and include the following accessories:

1. Each cabinet shall be equipped with a fully operable controller equipped as specified in the Contract Provisions.
2. Two input files, shall be provided.
3. The PDA #3L shall contain three Model 200 Load Switches. A second transfer relay, Model 430, shall be mounted on the rear of the PDA #3L and wired as shown in the Plans.
4. Police Panel shall contain only one DPDT toggle switch. The switch shall be labeled POLICE CONTROL, ON-OFF.
5. Display Panel

A. General

Each cabinet shall be furnished with a display panel. The panel shall be mounted, showing and providing detection for inputs and specified controller outputs, at the top of the front rack above the controller unit. The display panel shall be fabricated from brushed aluminum and constructed according to the detail in the Plans.

1.

B. Text

All text on the detector panel shall be black in color and silk screened directly to the panel except the Phenolic detector and cabinet nameplates.

A nameplate for each loop shall be engraved with a 1/4-inch nominal text according to the ITS Field Wiring Charts. The nameplates shall be permanently affixed to the detector panel.

C. LEDs

The LEDs for the display panel shall meet the following Specifications:

Case size	T 1-3/4
Viewing angle	50° minimum
Brightness	8 Milli candelas

LEDs with RED, YELLOW or GREEN as part of their labels shall be red, yellow or green in color. All other LEDs shall be red. All LEDs shall have tinted diffused lenses.

D. Detector panel Control Switch

Each display panel shall be equipped with one detector display control switch on the panel with labels and functions as follows:

ON

Detector panel LEDs shall operate consistent with their separate switches.

OFF

All detector indicator LEDs shall be de-energized. Detector calls shall continue to reach the controller.

TEST

All detector indicator LEDs shall illuminate and no calls shall be placed to the controller.

E. Advance Warning Sign Control Switch

Each display panel shall be equipped with one advance warning sign control switch on the panel with labels and functions as follows:

AUTOMATIC

Sign Relay shall energize upon ground true call from controller.

SIGN OFF

Sign Relay shall de-energize.

SIGN ON

Sign Relay shall energize.

F. Sign Relay

The sign relay shall be plugged into a socket installed on the rear of the display panel. The relay shall be wired as shown in the Plans. The relay coil shall draw (or sink) 50 milliamperes \pm 10% from the 170E/HC11 controller and have a DPDT contact rating not less than 10 amperes. A 1N4004 diode shall be placed across the relay coil to suppress voltage spikes. The anode terminal shall be connected to terminal #7 of the relay as labeled in the Plans. The relay shall energize when the METERING indicator LED is lit.

2.

G. Detector Input Indicators

One LED and one spring-loaded two-position SPST toggle switch shall be provided for each of the 40 detection inputs. These LEDs and switches shall function as follows:

TEST

When the switch is in the test position, a call shall be placed to the controller and energize the associated LED. The switch shall automatically return to the run position when it is released.

RUN

In the run position the LEDs shall illuminate for the duration of each call to the controller.

H. Controller Output Indicators

The display panel shall contain a series of output indicator LEDs mounted below the detection indicators. The layout shall be according to the detail in the Plans. These LEDs shall illuminate upon a ground true output from the controller via the C5 connector.

The output indicator LEDs shall have resistors in series to drop the voltage from 24 volts DC to their rated voltage and limit current below their rated current. The anode connection of each LED to +24 VDC shall be wired through the resistor.

I. Connectors

Connection to the display panel shall be made by three connectors, one pin (labeled P2) and one socket (labeled P1) and one labeled C5. The P1 and P2 connectors shall be 50-pin cannon D series, or equivalent 50 pin connectors and shall be compatible such that the two connectors can be connected directly to one another to bypass the input detection. Wiring for the P1, P2 and C5 connectors shall be as shown in the Plans.

The Contractor shall install wire connectors P1, P2, C1P, C2, C4, C5 and C6 according to the pin assignments shown in the Plans.

6. Model 204 Flasher Unit

Each Model 334 ramp meter cabinet shall be supplied with one Model 204 sign flasher unit mounted on the right rear side panel. The flasher shall be powered from T1-2. The outputs from the flasher shall be wired to T1-5 and T1-6.

7. Fiber Optic Patch Panel

The Contractor shall provide and install a rack-mounted fiber optic patch panel as identified in the Plans.

Cabinet Wiring

Terminal blocks TB1 through TB9 shall be installed on the Input Panel. Layout and position assignment of the terminal blocks shall be as noted in the Plans.

Terminals for field wiring in traffic data and/or ramp metering controller cabinet shall be labeled, numbered and connected in accordance with the following:

Terminal Block Pos.	Terminal and Wire Numbers	Connection Identification
TBS	501-502	AC Power, Neutral
T1-2	641	Sign on
T1-4	643	Sign off
T1-5	644	Flasher Output NC
T1-6	645	Flasher Output NO
T4-1	631	Lane 3 - Red

T4-2	632	Lane 3 – Yellow
T4-3	633	Lane 3 – Green
T4-4	621	Lane 2 - Red
T4-5	622	Lane 2 - Yellow
T4-6	623	Lane 2 – Green
T4-7	611	Lane 1 – Red
T4-8	612	Lane 1 – Yellow
T4-9	613	Lane 1 – Green

Loop lead-in cables shall be labeled and connected to cabinet terminals according to the ITS Field Wiring Chart. This chart will be provided by the Engineer within 20 days of the Contractor's request.

9-29.13(12) ITS cabinet:

Basic ITS cabinets shall be Model 334L Cabinets, unless otherwise specified in the Contract. Type 334L Cabinets shall be constructed in accordance with the TEES, with the following modifications:

1. The basic cabinet shall be furnished with only Housing 1 B, Mounting Cage 1, Service Panel #1, a Drawer Shelf, and Controller Unit Supports. Additional equipment may be specified as part of the cabinet function-specific standards.
2. Housing aluminum shall be 5052 alloy with mill finish. Painted or anodized aluminum is not allowed.
3. The door air filter shall be a disposable paper filter element of at least 180 square inches.
4. Locks shall be spring loaded construction core locks capable of accepting a Best 6-pin core. A 6-pin construction core of the type (Blue, Green, or Red) specified in the Contract shall be installed in each core lock. One core removal key and two standard keys (properly marked) shall be included with each cabinet and delivered to the Engineer upon Contract completion.
5. Each cabinet shall include a 120VAC electric strip heater with a rating of 100 watts, which shall be thermostat controlled. The heater strip shall be fed by wire with a temperature rating of 400°F or higher, and shall be shielded to prevent contact with wiring, equipment, or personnel. If the heater thermostat is separate from the fan thermostat, the heater thermostat must meet the same requirements as the fan thermostat as defined in TEES.
6. Fluorescent fixtures or LED light strips (only one type per cabinet) for cabinet lighting. Color temperature shall be 4100K (cool white) or higher. Fluorescent fixtures shall use 12 inch (nominal), 8W, type T5 tubular bulbs contained within a shatterproof lamp cover. LED light strips shall be approximately 12 inches long, and have a minimum output of 320 lumens. There shall be two fixtures for each rack within the cabinet Lighting shall be ceiling mounted and oriented parallel to the door face – rack mounted lighting is not

permitted. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting fixtures above a rack shall energize whenever either door to that respective rack is opened. Each door switch shall be labeled "Light".

7. Each cabinet shall be equipped with a power distribution assembly (PDA) mounted in a standard EIA 19-inch (ANSI/EIA RS-310-C) rack utilizing no more than five Rack Mounting Units (RMU) (8.75 inches). The PDA shall include the following equipment:
 - a. One duplex NEMA 5-15R GFCI receptacle on the front of the PDA.
 - b. Four duplex NEMA 5-15R receptacles on the rear of the PDA. These receptacles shall remain energized on a trip or failure of the GFCI receptacle.
 - c. Four 1P-15A, 120VAC Equipment/Field Circuit Breakers.
 - d. Line filter meeting the requirements of 9-29.13(10)A.d.

PDA components shall be mounted in or on the PDA such that they are readily accessible, provide dead front safety, and all hazardous voltage points are protected to prevent inadvertent contact.

8. Service Panel #1 shall include a service terminal block labeled "TBS", a Tesco TES-10B or equivalent surge suppressor connected to provide power in line surge suppression, and a 1P-30A Main Breaker. The Service Panel Assembly (SPA) shown in the TEES shall not be included.
9. Each cabinet shall include a rack mounted fiber optic patch panel of the type specified in the Contract.

Cabinet drawings and wiring diagrams shall be provided in the drawer shelf. Additionally, an electronic (PDF format) copy of all drawings and wiring diagrams shall be provided.

9-29.16(1)A1 Conventional Optical System

This section's title is revised to read:

9-29.16(1)A1 Non-LED Optical System

9-29.16(1)D1 Electrical - Conventional

This section's title is revised to read:

9-29.16(1)D1 Electrical – Non-LED

9-29.20 Pedestrian Signals

This section is revised to read:

Pedestrian signals shall be Light Emitting Diodes (LED) type.

The LED pedestrian signal module shall be operationally compatible with controllers and conflict monitors. The LED lamp unit shall contain a disconnect that will show an open switch to the conflict monitor when less than 60 percent of the LEDs in the unit are operational.

The Pedestrian signal heads shall be on the QPL or the Contractor shall submit a Manufacturer's Certificate of Compliance, in accordance with Standard Specification 1-06.3, with each type of signal head. The certificate shall state that the lot of pedestrian signal heads meet the following requirements:

1. All pedestrian signal heads shall be a Walk/Don't Walk module with a countdown display.
2. All pedestrian displays shall comply with the MUTCD and ITE publication ST 011B, VTCSH2 or current ITE Specification and shall have an incandescent appearance. The Contractor shall provide test results from a Nationally Recognized Testing Laboratory documenting that the LED display conforms to the current ITE and the following requirements:
 - a. All pedestrian signals supplied to any one project shall be from the same manufacturer and type but need not be from the same manufacturer as the vehicle heads.
 - b. Each pedestrian signal face shall be a single unit housing with the signal indication size, a nominal 16 inch x 18 inch with side by side symbol messages with countdown display.
 - c. Housings shall be green polycarbonate or die-cast aluminum and the aluminum housings shall be painted with two coats of factory applied traffic signal green enamel (Federal Standard 595-14056). All hinges and latches and interior hardware shall be stainless steel.
3. Optical units for traffic signal displays shall conform to the following:
 - a. Pedestrian "RAISED HAND" and "WALKING PERSON" modules shall be the countdown display type showing the time remaining in the pedestrian change interval. When the pedestrian change interval is reduced due to a programming change, the display may continue to show the previous pedestrian change interval for one signal cycle. During the following pedestrian change interval the countdown shall show the revised time, or shall be blank. In the event of an emergency vehicle preemption, during the following two cycles, the display shall show the programmed pedestrian change interval or be blank. In the event the controller is put in stop time during the pedestrian change interval, during the following two cycles the display shall show the programmed clearance or be blank. In the event there is railroad preempt during the pedestrian change interval, during the following two cycles the display shall show the programmed clearance or be blank. Light emitting diode (LED) light sources having the incandescent appearance are required for Portland Orange Raised Hand and the Lunar White Walking Person.
4. LED displays shall conform to the following:
 - a. Wattage (Maximum): Portland Orange Raised Hand, 15 watts; Lunar White Walking Person, 15 watts.
 - b. Voltage: The operating voltages shall be between 85 VAC and 135 VAC.
 - c. Temperature: Temperature range shall be -35° F to +165° F.

- d. LED pedestrian heads shall be supplied with Z crate visors. Z crate visors shall have 21 members at 45 degrees and 20 horizontal members.

9-29.20(1) LED Pedestrian Displays

This section is deleted.

9-29.20(2) Neon Grid Type

This section is deleted.

9-29.24 Service Cabinets

In the first paragraph, the lettered items A-J are re-lettered to read B-K respectfully.

The first paragraph is supplemented with the following new lettered item:

- A. Display an arc flash warning label that meets the requirements of ANSI Z535.

9-29.25 Amplifier, Transformer, and Terminal Cabinets

In item No. 2.C., "Transformer 23.1 to 12.5 KVA" is revised to read "Transformer 3.1 to 12.5 KVA" and the height column value of 40" is revised to read "48".

The first and second sentences in the first paragraph are revised to read:

Amplifier and terminal and transformer cabinets shall be NEMA 3R and the following:

Item number 5 is revised to read:

5. All cabinets shall provide a gasketed door flange

Item number 7 is revised to read:

7. Insulated terminal blocks shall be 600 volt, heavy-duty, barrier type. The terminal blocks shall be provided with a field-side and a control-side connector separated by a marker strip. One spare 12-position insulated terminal block shall be installed in each terminal cabinet and amplifier cabinet.

Item number 8 is revised to read:

8. Each non-pad mounted Terminal, Amplifier and Transformer cabinet shall have 1/4 inch drain holes in back corners. Each pad mounted Terminal, Amplifier and Transformer cabinet shall drain to a sump and through a 3/8 inch diameter drain pipe to grade as detailed in the Standard Plans.

Item number 10 is revised to read:

10. Transformer cabinets shall have two separate compartments, one for the transformer and one for the power distribution circuit breakers. Each compartment shall be enclosed with a dead front. Each breaker shall be labeled with the device name by means of a screwed or riveted engraved name plate.

9-34.AP9

**Section 9-34, Pavement Marking Material
August 5, 2013**

9-34.2 Paint

The second paragraph is revised to read:

Blue and black paint shall comply with the requirements for yellow paint in Section 9-34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need to meet the requirements for titanium dioxide, directional reflectance, and contrast ration.

9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate

The column headings in the table titled “98:2 Formulations Type D – Liquid Cold Applied Methyl Methacrylate” are revised to read:

98:2 Formulations Type D – Liquid Cold Applied Methyl Methacrylate													
Property Test Method	D-1		D-2		D-3		D-4		D-5		D-6		
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	

9-36.AP9

**Section 9-36, Shaft-Related Materials
August 5, 2013**

9-36.1(1) Permanent Casing

This section is revised to read:

Permanent casing shall be of steel base metal conforming to ASTM A 36, ASTM A 252 Grades 2 or 3, ASTM A 572, or ASTM A 588.

SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS

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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*, 2012 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:

(May 18, 2007 APWA GSP)

(August 7, 2006 WSDOT GSP)

(April 2, 2007 R&E GSP)

(NWR February 5, 2007)

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
- *City of Ferndale Standard Plans*

Contractor shall obtain copies of these publications, at Contractor’s own expense.

1 **DIVISION 1**
2 **GENERAL REQUIREMENTS**

3
4 **1-01 DEFINITIONS AND TERMS**

5
6 **DESCRIPTION OF WORK**

7
8 *(March 13, 1995)*

9 The project consists of improvements for approximately 3,700 lineal feet of Church Road, from
10 the intersection of Main Street northerly to Thornton Road, Ferndale Washington. Work will
11 include clearing, grubbing, grading, roadway excavation, installing an enclosed storm drainage
12 system, installing sanitary main and watermain, placing of gravel base, retaining walls, hot mix
13 asphalt paving, curb and gutters, sidewalks, and other work, all in accordance with the Contract
14 Plans, Special Provisions, the Standard Specifications and Standard Plans.

15
16 **1-01.3 Definitions**

17 *(March 8, 2013 APWA GSP)*

18
19 Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them
20 with the following:

21
22 **Dates**

23
24 ***Bid Opening Date***

25 The date on which the Contracting Agency publicly opens and reads the Bids.

26
27 ***Award Date***

28 The date of the formal decision of the Contracting Agency to accept the lowest
29 responsible and responsive Bidder for the Work.

30
31 ***Contract Execution Date***

32 The date the Contracting Agency officially binds the Agency to the Contract.

33
34 ***Notice to Proceed Date***

35 The date stated in the Notice to Proceed on which the Contract time begins.

36
37 ***Substantial Completion Date***

38 The day the Engineer determines the Contracting Agency has full and unrestricted use
39 and benefit of the facilities, both from the operational and safety standpoint, any
40 remaining traffic disruptions will be rare and brief, and only minor incidental work,
41 replacement of temporary substitute facilities, plant establishment periods, or correction
42 or repair remains for the Physical Completion of the total Contract.

43
44 ***Physical Completion Date***

45 The day all of the Work is physically completed on the project. All documentation
46 required by the Contract and required by law does not necessarily need to be furnished by
47 the Contractor by this date.

1 ***Completion Date***

2 The day all the Work specified in the Contract is completed and all the obligations of the
3 Contractor under the contract are fulfilled by the Contractor. All documentation required
4 by the Contract and required by law must be furnished by the Contractor before
5 establishment of this date.
6

7 ***Final Acceptance Date***

8 The date on which the Contracting Agency accepts the Work as complete.
9

10 Supplement this Section with the following:
11

12 All references in the Standard Specifications, Amendments, or WSDOT General Special
13 Provisions, to the terms “State”, “Department of Transportation”, “Washington State
14 Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”,
15 “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.
16

17 All references to “State Materials Laboratory” shall be revised to read “Contracting Agency
18 designated location”.
19

20 All references to “final contract voucher certification” shall be interpreted to mean the final
21 payment form established by the Contracting Agency.
22

23 The venue of all causes of action arising from the advertisement, award, execution, and
24 performance of the contract shall be in the Superior Court of the County where the
25 Contracting Agency’s headquarters are located.
26

27 **Additive**

28 A supplemental unit of work or group of bid items, identified separately in the Bid Proposal,
29 which may, at the discretion of the Contracting Agency, be awarded in addition to the base
30 bid.
31

32 **Alternate**

33 One of two or more units of work or groups of bid items, identified separately in the Bid
34 Proposal, from which the Contracting Agency may make a choice between different methods
35 or material of construction for performing the same work.
36

37 **Business Day**

38 A business day is any day from Monday through Friday except holidays as listed in Section
39 1-08.5.
40

41 **Contract Bond**

42 The definition in the Standard Specifications for “Contract Bond” applies to whatever bond
43 form(s) are required by the Contract Documents, which may be a combination of a Payment
44 Bond and a Performance Bond.
45

1 **Contract Documents**

2 See definition for “Contract”.

3
4 **Contract Time**

5 The period of time established by the terms and conditions of the Contract within which the
6 Work must be physically completed.

7
8 **Notice of Award**

9 The written notice from the Contracting Agency to the successful Bidder signifying the
10 Contracting Agency’s acceptance of the Bid Proposal.

11
12 **Notice to Proceed**

13 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
14 and directing the Contractor to proceed with the Work and establishing the date on which the
15 Contract time begins.

16
17 **Traffic**

18 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
19 equestrian traffic.

20
21 **1-02 BID PROCEDURES AND CONDITIONS**

22
23 **1-02.1 Prequalification of Bidders**

24
25 Delete this Section and replace it with the following:

26
27 **1-02.1 Qualifications of Bidder**

28 *(January 24, 2011 APWA GSP)*

29
30 Before award of a public works contract, a bidder must meet at least the minimum
31 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be
32 awarded a public works project.

33
34 **1-02.2 Plans and Specifications**

35 *(June 27, 2011 APWA GSP)*

36
37 Delete this section and replace it with the following:

38
39 Information as to where Bid Documents can be obtained or reviewed can be found in the Call
40 for Bids (Advertisement for Bids) for the work.

41
42 After award of the contract, plans and specifications will be issued to the Contractor at no
43 cost as detailed below:
44
45
46

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	5	Furnished automatically upon award.
Contract Provisions	5	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	3	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 Examination of Plans, Specifications, and Site Of Work

1-02.4(1) General

(March 17, 2010 R&E GSP)

Section 1-02.4(1) is supplemented with the following:

If the Bidder finds any discrepancy in, or omission from the specifications or plans, or if there is any doubt as to their meaning, the Bidder shall promptly notify the Contracting Agency, 360-384-4006. Any addenda issued during the time of bidding will be numbered consecutively and will be incorporated into these contract documents. The Bidder shall be responsible to ascertain, prior to submittal of a bid proposal that all addenda issued have been received, and are acknowledged on the "Bid Proposal Signature and Addendum Acknowledgment" form. Addendums will only be issued to those contractors appearing on the Plan Holders List posted on the Contracting Agency's website. It will be the responsibility of the contractor to ensure their name appears on the Plan Holders List.

Any interpretation or correction of the bid documents will be made only by addendum, and a copy of such addendum will be mailed or delivered to each person whose name appears on the Plan Holders List. The Contracting Agency will not be responsible for any other explanations or interpretations of the bid documents. No oral interpretations by the Contracting Agency of any provision in the bid documents will be considered binding.

Pre-Bid Conference

Due to the nature of the project, the Contracting Agency will hold one pre-bid conference for all proposal holders for this project. Subcontractors or other plan holders are encouraged to attend.

Those prospective bidders wanting to take part in the Pre-Bid Conference shall meet at the Ferndale City Hall, 2095 Main Street, Ferndale, Washington 98248. The meeting will start at 10:00 AM on March 17, 2014. A jobsite visit may follow upon request. Attendance at this Pre-Bid Conference is not mandatory.

1
2 **1-02.4(2) Subsurface Information**

3 *(March 8, 2013 APWA GSP)*

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

5
6 The Summary of Geotechnical Conditions and the boring logs, if and when included as an
7 appendix to the Special Provisions, shall be considered as part of the Contract.
8

9 **1-02.5 Proposal Forms**

10 *(June 27, 2011 APWA GSP)*

11 Delete this section and replace it with the following:

12
13 The Proposal Form will identify the project and its location and describe the work. It will
14 also list estimated quantities, units of measurement, the items of work, and the materials to be
15 furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that
16 call for, but are not limited to, unit prices; extensions; summations; the total bid amount;
17 signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda;
18 the bidder's name, address, telephone number, and signature; the bidder's D/M/WBE
19 commitment, if applicable; a State of Washington Contractor's Registration Number; and a
20 Business License Number, if applicable. Bids shall be completed by typing or shall be
21 printed in ink by hand, preferably in black ink. The required certifications are included as
22 part of the Proposal Form.
23
24

25 The Contracting Agency reserves the right to arrange the proposal forms with alternates and
26 additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all
27 alternates and additives set forth in the Proposal Form unless otherwise specified.
28

29 **1-02.6 Preparation of Proposal**

30 *(June 27, 2011 APWA GSP)*

31 Supplement the second paragraph with the following:

- 32 4. If a minimum bid amount has been established for any item, the unit or lump sum price
33 must equal or exceed the minimum amount stated.
- 34 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed
35 by the signer of the bid.

36 Delete the last paragraph, and replace it with the following:

37 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

38 A bid by a corporation shall be executed in the corporate name, by the president or a vice
39 president (or other corporate officer accompanied by evidence of authority to sign).

1 A bid by a partnership shall be executed in the partnership name, and signed by a partner. A
2 copy of the partnership agreement shall be submitted with the Bid Form if any D/M/WBE
3 requirements are to be satisfied through such an agreement.

4 A bid by a joint venture shall be executed in the joint venture name and signed by a member
5 of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid
6 Form if any D/W/MBE requirements are to be satisfied through such an agreement.
7

8 The fourth paragraph of Section 1-02.6 is revised to read:
9

10 (May 7, 2012)

11 The Bidder shall submit with the Bid a completed Disadvantaged Business Enterprise
12 (DBE) Utilization Certification, when required by the Special Provisions. For each and
13 every DBE firm listed on the Bidder's completed Disadvantaged Business Enterprise
14 Utilization Certification, the Bidder shall submit written confirmation from that DBE firm
15 that the DBE is in agreement with the DBE participation commitment that the Bidder has
16 made in the Bidder's completed Disadvantaged Business Enterprise Utilization
17 Certification. WSDOT Form 422 031 EF (Disadvantaged Business Enterprise Written
18 Confirmation Document) is to be used for this purpose.
19

20 Bidder must submit good faith effort documentation only in the event the bidder's efforts to
21 solicit sufficient DBE participation have been unsuccessful. Directions for delivery of the
22 Disadvantaged Business Enterprise Written Confirmation Documents and Disadvantaged
23 Business Enterprise Good Faith Effort documentation are included in Sections 1-02.9.
24

25 **1-02.7 Bid Deposit**

26 *(March 8, 2013 APWA GSP)*
27

28 Supplement this section with the following:
29

30 Bid bonds shall contain the following:

- 31 3. Contracting Agency-assigned number for the project;
- 32 4. Name of the project;
- 33 5. The Contracting Agency named as obligee;
- 34 6. The amount of the bid bond stated either as a dollar figure or as a percentage which
35 represents five percent of the maximum bid amount that could be awarded;
- 36 7. Signature of the bidder's officer empowered to sign official statements. The signature of
37 the person authorized to submit the bid should agree with the signature on the bond, and
38 the title of the person must accompany the said signature;
- 39 8. The signature of the surety's officer empowered to sign the bond and the power of
40 attorney.
41

42 If so stated in the Contract Provisions, bidder must use the bond form included in the
43 Contract Provisions.
44

45 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
46

1 (February 1, 2008, R&E GSP)

2 Section 1-02.7 is supplemented with the following:

3
4 All bid bonds shall be made payable to the City of Ferndale.

5
6 **1-02.9 Delivery of Proposal**

7 (*August 15, 2012 APWA GSP, Option A*)

8
9 Delete this section and replace it with the following:

10
11 Each proposal shall be submitted in a sealed envelope, with the Project Name and Project
12 Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as
13 otherwise required in the Bid Documents, to ensure proper handling and delivery.

14
15 If the project has FHWA funding and requires DBE Written Confirmation Documents or
16 Good Faith Effort Documentation, then to be considered responsive, the Bidder shall submit
17 with their Bid Proposal, written Confirmation Documentation from each DBE firm listed on
18 the Bidder's completed DBE Utilization Certification, form 272-056A EF, as required by
19 Section 1-02.6.

20
21 The Contracting Agency will not open or consider any Bid Proposal that is received after the
22 time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other
23 than that specified in the Call for Bids.

24
25 **1-02.12 Public Opening of Proposal**

26 (*February 1, 2008 R&E GSP*)

27
28 Section 1-02.12 is supplemented with the following:

29
30 "The completed Bid Proposal Form and any other documents required in accordance with
31 the Special Provisions, shall be received at the following location prior to the time
32 Specified:

- 33
34 1. At City of Ferndale Public Works Department, Ferndale City Hall, 2095 Main Street.
35 Ferndale, Washington 98248.

36
37 All bid envelopes must be in an opaque envelope and plainly marked on the outside:

38
39 Proposal for Contract

40 (Name of Bidder)

41 Project: **Church Road Improvements Project**

42 Ferndale, WA

43
44 Bid proposals shall be deposited at the designated location prior to the date and time for
45 receipt of bid proposals as indicated in the "Invitation to Bid", or such revised date as may be
46 specified by an addendum.

1 No oral, telephonic or telegraphic bids or modifications will be considered. The bid opening
2 date for this project is 4:00 P.M., March 26, 2014. The bids will be publicly opened and read
3 after 4:00 P.M. on this date.
4

5 **1-02.13 Irregular Proposals**

6 *(March 13, 2012 APWA GSP)*
7

8 Revise item 1 to read:
9

- 10 1. A proposal will be considered irregular and will be rejected if:
11 a. The Bidder is not prequalified when so required;
12 b. The authorized proposal form furnished by the Contracting Agency is not used or
13 is altered;
14 c. The completed proposal form contains any unauthorized additions, deletions,
15 alternate Bids, or conditions;
16 d. The Bidder adds provisions reserving the right to reject or accept the award, or
17 enter into the Contract;
18 e. A price per unit cannot be determined from the Bid Proposal;
19 f. The Proposal form is not properly executed;
20 g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable,
21 as required in Section 1-02.6;
22 h. The Bidder fails to submit or properly complete a Disadvantaged Business
23 Enterprise Certification, if applicable, as required in Section 1-02.6;
24 i. The Bidder fails to submit written confirmation from each DBE firm listed on the
25 Bidder's completed DBE Utilization Certification that they are in agreement with
26 the bidders DBE participation commitment, if applicable, as required in Section
27 1-02.6, or if the written confirmation that is submitted fails to meet the
28 requirements of the Special Provisions;
29 j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable,
30 as required in Section 1-02.6, or if the documentation that is submitted fails to
31 demonstrate that a Good Faith Effort to meet the Condition of Award was made;
32 k. The Bid Proposal does not constitute a definite and unqualified offer to meet the
33 material terms of the Bid invitation; or
34 l. More than one proposal is submitted for the same project from a Bidder under the
35 same or different names.
36

37 *(December 29, 2008 R&E GSP)*

38 Item 1a is supplemented with the following:
39

40 "Bidders do not have to be pre-qualified."
41

42 **1-02.14 Disqualification of Bidders**

43 *(March 8, 2013 APWA GSP, Option B)*
44

45 Delete this Section and replace it with the following:
46

1 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder
2 responsibility criteria in RCW 39.04.350(1), as amended; or does not meet the following
3 Supplemental Criteria:
4

5 1. **Delinquent State Taxes**
6

7 A Criterion: The Bidder shall not owe delinquent taxes to the Washington State
8 Department of Revenue without a payment plan approved by the Department of
9 Revenue.
10

11 B. Documentation: The Bidder shall not be listed on the Washington State
12 Department of Revenue’s “Delinquent Taxpayer List” website:
13 <http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx> , or if they are
14 so listed, they must submit a written payment plan approved by the Department
15 of Revenue, to the Contracting Agency by the deadline listed below.
16

17 2. **Federal Debarment**
18

19 A Criterion: The Bidder shall not currently be debarred or suspended by the
20 Federal government.
21

22 B. Documentation: The Bidder shall not be listed as having an “active exclusion”
23 on the U.S. government’s “System for Award Management” database
24 (www.sam.gov).
25

26 3. **Subcontractor Responsibility**
27

28 A Criterion: The Bidder’s standard subcontract form shall include the
29 subcontractor responsibility language required by RCW 39.06.020, and the
30 Bidder shall have an established procedure which it utilizes to validate the
31 responsibility of each of its subcontractors. The Bidder’s subcontract form shall
32 also include a requirement that each of its subcontractors shall have and
33 document a similar procedure to determine whether the sub-tier subcontractors
34 with whom it contracts are also “responsible” subcontractors as defined by
35 RCW 39.06.020.
36

37 B. Documentation: The Bidder, if and when required as detailed below, shall
38 submit a copy of its standard subcontract form for review by the Contracting
39 Agency, and a written description of its procedure for validating the
40 responsibility of subcontractors with which it contracts.
41

42 4. **Prevailing Wages**
43

44 A Criterion: The Bidder shall not have a record of prevailing wage violations as
45 determined by WA Labor & Industries in the five years prior to the bid
46 submittal date, that demonstrates a pattern of failing to pay workers prevailing

1 wages, unless there are extenuating circumstances and such circumstances are
2 deemed acceptable to the Contracting Agency.

- 3
4 B. Documentation: The Bidder, if and when required as detailed below, shall
5 submit a list of all prevailing wage violations in the five years prior to the bid
6 submittal date, along with an explanation of each violation and how it was
7 resolved. The Contracting Agency will evaluate these explanations and the
8 resolution of each complaint to determine whether the violation demonstrate a
9 pattern of failing to pay its workers prevailing wages as required.

10
11 5. **Claims Against Retainage and Bonds**

- 12
13 A. Criterion: The Bidder shall not have a record of excessive claims filed against
14 the retainage or payment bonds for public works projects in the three years prior
15 to the bid submittal date, that demonstrate a lack of effective management by
16 the Bidder of making timely and appropriate payments to its subcontractors,
17 suppliers, and workers, unless there are extenuating circumstances and such
18 circumstances are deemed acceptable to the Contracting Agency.

- 19
20 B. Documentation: The Bidder, if and when required as detailed below, shall
21 submit a list of the public works projects completed in the three years prior to
22 the bid submittal date that have had claims against retainage and bonds and
23 include for each project the following information:

- 24
25 • Name of project
26 • The owner and contact information for the owner;
27 • A list of claims filed against the retainage and/or payment bond for any
28 of the projects listed;
29 • A written explanation of the circumstances surrounding each claim and
30 the ultimate resolution of the claim.

31
32 6. **Public Bidding Crime**

- 33
34 A. Criterion: The Bidder and/or its owners shall not have been convicted of a crime
35 involving bidding on a public works contract in the five years prior to the bid
36 submittal date.

- 37
38 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
39 statement (on a form to be provided by the Contracting Agency) that the Bidder
40 and/or its owners have not been convicted of a crime involving bidding on a
41 public works contract.

42
43 7. **Termination for Cause / Termination for Default**

- 44
45 A. Criterion: The Bidder shall not have had any public works contract terminated
46 for cause or terminated for default by a government agency in the five years

1 prior to the bid submittal date, unless there are extenuating circumstances and
2 such circumstances are deemed acceptable to the Contracting Agency.

- 3
4 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
5 statement (on a form to be provided by the Contracting Agency) that the Bidder
6 has not had any public works contract terminated for cause or terminated for
7 default by a government agency in the five years prior to the bid submittal date;
8 or if Bidder was terminated, describe the circumstances. .
9

10 8. Lawsuits

- 11
12 A. Criterion: The Bidder shall not have lawsuits with judgments entered against the
13 Bidder in the five years prior to the bid submittal date that demonstrate a pattern
14 of failing to meet the terms of contracts, unless there are extenuating
15 circumstances and such circumstances are deemed acceptable to the Contracting
16 Agency
17
18 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
19 statement (on a form to be provided by the Contracting Agency) that the Bidder
20 has not had any lawsuits with judgments entered against the Bidder in the five
21 years prior to the bid submittal date that demonstrate a pattern of failing to meet
22 the terms of contracts, or shall submit a list of all lawsuits with judgments
23 entered against the Bidder in the five years prior to the bid submittal date, along
24 with a written explanation of the circumstances surrounding each such lawsuit.
25 The Contracting Agency shall evaluate these explanations to determine whether
26 the lawsuits demonstrate a pattern of failing to meet of terms of construction
27 related contracts
28

29 As evidence that the Bidder meets the mandatory and supplemental responsibility criteria
30 stated above, the apparent two lowest Bidders must submit to the Contracting Agency by
31 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a
32 written statement verifying that the Bidder meets all of the mandatory and supplemental
33 criteria together with supporting documentation including but not limited to that detailed
34 above (sufficient in the sole judgment of the Contracting Agency) demonstrating
35 compliance with all mandatory and supplemental responsibility criteria. The Contracting
36 Agency reserves the right to request such documentation from other Bidders as well, and to
37 request further documentation as needed to assess Bidder responsibility. The Contracting
38 Agency also reserves the right to obtain information from third-parties and independent
39 sources of information concerning a Bidder's compliance with the mandatory and
40 supplemental criteria, and to use that information in their evaluation. The Contracting
41 Agency may (but is not required to) consider mitigating factors in determining whether the
42 Bidder complies with the requirements of the supplemental criteria.
43

44 The basis for evaluation of Bidder compliance with these mandatory and supplemental
45 criteria shall include any documents or facts obtained by Contracting Agency (whether
46 from the Bidder or third parties) including but not limited to: (i) financial, historical, or

1 operational data from the Bidder; (ii) information obtained directly by the Contracting
2 Agency from others for whom the Bidder has worked, or other public agencies or private
3 enterprises; and (iii) any additional information obtained by the Contracting Agency which
4 is believed to be relevant to the matter.
5

6 If the Contracting Agency determines the Bidder does not meet the bidder responsibility
7 criteria above and is therefore not a responsible Bidder, the Contracting Agency shall
8 notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees
9 with this determination, it may appeal the determination within two (2) business days of the
10 Contracting Agency's determination by presenting its appeal and any additional
11 information to the Contracting Agency. The Contracting Agency will consider the appeal
12 and any additional information before issuing its final determination. If the final
13 determination affirms that the Bidder is not responsible, the Contracting Agency will not
14 execute a contract with any other Bidder until at least two business days after the Bidder
15 determined to be not responsible has received the Contracting Agency's final
16 determination.
17

18 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with
19 concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility
20 Criteria may make or submit requests to the Contracting Agency to modify the criteria.
21 Such requests shall be in writing, describe the nature of the concerns, and propose specific
22 modifications to the criteria. Bidders shall submit such requests to the Contracting Agency
23 no later than five (5) business days prior to the bid submittal deadline and address the
24 request to the Project Engineer or such other person designated by the Contracting Agency
25 in the Bid Documents.
26

27 **1-02.15 Pre Award Information**

28 *(August 14, 2013 APWA GSP)*
29

30 Revise this section to read:
31

32 Before awarding any contract, the Contracting Agency may require one or more of these
33 items or actions of the apparent lowest responsible bidder:

- 34 1. A complete statement of the origin, composition, and manufacture of any or all materials
35 to be used,
- 36 2. Samples of these materials for quality and fitness tests,
- 37 3. A progress schedule (in a form the Contracting Agency requires) showing the order of
38 and time required for the various phases of the work,
- 39 4. A breakdown of costs assigned to any bid item,
- 40 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 41 6. Obtain, and furnish a copy of, a business license to do business in the city or county
42 where the work is located.
- 43 7. Any other information or action taken that is deemed necessary to ensure that the bidder
44 is the lowest responsible bidder.
45
46

1 **1-03 AWARD AND EXECUTION OF CONTRACT**

2
3 **1-03.1 Consideration of Bids**

4 *(January 23, 2006 APWA GSP)*

5
6 Revise the first paragraph to read:

7
8 After opening and reading proposals, the Contracting Agency will check them for correctness
9 of extensions of the prices per unit and the total price. If a discrepancy exists between the
10 price per unit and the extended amount of any bid item, the price per unit will control. If a
11 minimum bid amount has been established for any item and the bidder's unit or lump sum
12 price is less than the minimum specified amount, the Contracting Agency will unilaterally
13 revise the unit or lump sum price, to the minimum specified amount and recalculate the
14 extension. The total of extensions, corrected where necessary, including sales taxes where
15 applicable and such additives and/or alternates as selected by the Contracting Agency, will be
16 used by the Contracting Agency for award purposes and to fix the Awarded Contract Price
17 amount and the amount of the contract bond.

18
19 **1-03.3 Execution of Contract**

20
21 *(October 1, 2005 APWA GSP)*

22
23 Revise this section to read:

24
25 Copies of the Contract Provisions, including the unsigned Form of Contract, will be available
26 for signature by the successful bidder on the first business day following award. The number
27 of copies to be executed by the Contractor will be determined by the Contracting Agency.

28
29 Within 10 calendar days after the award date, the successful bidder shall return the signed
30 Contracting Agency-prepared contract, an insurance certification as required by Section 1-
31 07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the
32 contract by the Contracting Agency, the successful bidder shall provide any pre-award
33 information the Contracting Agency may require under Section 1-02.15.

34 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
35 Agency nor shall any work begin within the project limits or within Contracting Agency-
36 furnished sites. The Contractor shall bear all risks for any work begun outside such areas and
37 for any materials ordered before the contract is executed by the Contracting Agency.

38
39 If the bidder experiences circumstances beyond their control that prevents return of the
40 contract documents within the calendar days after the award date stated above, the
41 Contracting Agency may grant up to a maximum of 10 additional calendar days for return of
42 the documents, provided the Contracting Agency deems the circumstances warrant it.

1 **1-03.4 Contract Bond**

2 *(October 1, 2005 APWA GSP)*

3
4 Revise the first paragraph to read:

5
6 The successful bidder shall provide an executed contract bond for the full contract
7 amount. This contract bond shall:

- 8 1. Be on a Contracting Agency-furnished form;
- 9 2. Be signed by an approved surety (or sureties) that:
- 10 a. Is registered with the Washington State Insurance Commissioner, and
- 11 b. Appears on the current Authorized Insurance List in the State of Washington
- 12 published by the Office of the Insurance Commissioner,
- 13 3. Be conditioned upon the faithful performance of the contract by the Contractor within
- 14 the prescribed time;
- 15 4. Guarantee that the surety shall indemnify, defend, and protect the Contracting
- 16 Agency against any claim of direct or indirect loss resulting from the failure:
- 17 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
- 18 subcontractors of the Contractor) to faithfully perform the contract, or
- 19 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
- 20 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
- 21 subcontractors, materialperson, or any other person who provides supplies or
- 22 provisions for carrying out the work;
- 23 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign
- 24 the bond; and
- 25 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
- 26 proprietor or partner). If the Contractor is a corporation, the bond must be signed by
- 27 the president or vice-president, unless accompanied by written proof of the authority
- 28 of the individual signing the bond to bind the corporation (i.e., corporate resolution,
- 29 power of attorney or a letter to such effect by the president or vice-president).

30
31 Section 1-03.4 is supplemented with the following:

32
33 *(August 5, 2013)*

34 Release of Contract Bond will be 60 days following the Contract Completion date and Notice of
35 Completion (NOC) being sent to the Washington State Department of Labor and Industries,
36 Washington State Department of Revenue and Washington State Employment Security
37 Department, provided following conditions are met::

- 38
- 39 1. Payment to the State with respect to taxes imposed pursuant to Title 82, RCW on
- 40 Contracts totaling more than \$ 35,000, a release has been obtained from the
- 41 Washington State Department of Revenue.
- 42
- 43 2. Affidavits of Wages Paid for the Contractor and all Subcontractors are on file with
- 44 the Contracting Agency (RCW 39.12.040).
- 45
- 46 3. A certificate of Payment of Contributions Penalties and Interest on Public Works
- 47 Contract is received from the Washington State Employment Security Department.

1 4. Washington State Department of Labor and Industries (per Section 1-07.10) shows
2 the Contractor, Subcontractor(s) and any lower tier Subcontractor(s) are current
3 with payments of industrial insurance and medical aid premiums.
4

5 5. All claims, as provided by law, filed against the Contract Bond have been resolved.
6

7 **1-04 SCOPE OF THE WORK**
8

9 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and**
10 **Addenda**

11 *(March 13, 2012 APWA GSP)*
12

13 Revise the second paragraph to read:
14

15 Any inconsistency in the parts of the contract shall be resolved by following this order of
16 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 17 1. Addenda,
 - 18 2. Proposal Form,
 - 19 3. Special Provisions,
 - 20 4. Contract Plans,
 - 21 5. Amendments to the Standard Specifications,
 - 22 6. Standard Specifications,
 - 23 7. Contracting Agency's Standard Plans or Details (if any), and
 - 24 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.
- 25

26 **1-05 CONTROL OF WORK**
27

28 **1-05.4 Conformity with and Deviations from Plans and Stakes**

29 *(March 30, 2007 R&E GSP)*
30

31 Section 1-05.4 is supplemented with the following:
32

33 Survey stakes will be provided by the Contracting Agency in accordance with this Section, as
34 supplemented by the following:
35

- 36 1. Clearing stakes (no vertical control) will be placed at the approximate limits of
37 clearing prior to the Contractor's clearing and grubbing operations.
38
- 39 2. Cut/fill stakes will be placed after completion of clearing and grubbing. The
40 Contractor shall designate a qualified supervising grade checker for the project.
41 This grade checker shall meet with the Engineer prior to the beginning of grading
42 operations in order to develop a mutually agreeable staking and notation system
43 for the project.
44
- 45 3. Offset stakes and grade hubs will be provided for enclosed drain lines, sanitary

1 sewer mains, water mains, manhole structures and fire hydrants, according to the
2 system agreed on by the grade checker Engineer.

- 3
- 4 4. The Engineer will not provide grade hubs within the traveled way on any section
5 of road concurrent with the Contractor's hauling operations on that particular
6 section of road.
- 7
- 8 5. Grade hubs will be provided only for the top of the ballast course. In order to
9 eliminate unnecessary destruction of grade hubs, these hubs will not be placed
10 within the traveled way until grading has been completed to plus or minus 0.05
11 feet, based on cut stake information, and until the roadway where the hubs are to
12 be placed has been compacted to the satisfaction of the Engineer.
- 13
- 14 6. Staking for curb and gutter will be set on intervals of 25 feet. Curb and gutter
15 grades must conform to within plus or minus 0.02 feet of elevations shown on the
16 Project Plans. Deviation from this specification will be cause for rejection of non-
17 conforming work. Asphalt finish graded must conform to within plus or minus
18 0.03 feet of elevations shown on the Project Plans.
- 19
- 20 7. Any claim by the Contractor for extra compensation by reason of alterations or
21 reconstruction work allegedly due to error in the Engineer's line and grade will
22 not be considered unless the original control points set by the Engineer still exist.
- 23

24 **1-05.7 Removal of Defective and Unauthorized Work**

25 *(October 1, 2005 APWA GSP)*

26

27 Supplement this section with the following:

28

29 If the Contractor fails to remedy defective or unauthorized work within the time specified in
30 a written notice from the Engineer, or fails to perform any part of the work required by the
31 Contract Documents, the Engineer may correct and remedy such work as may be identified
32 in the written notice, with Contracting Agency forces or by such other means as the
33 Contracting Agency may deem necessary.

34

35 If the Contractor fails to comply with a written order to remedy what the Engineer
36 determines to be an emergency situation, the Engineer may have the defective and
37 unauthorized work corrected immediately, have the rejected work removed and replaced, or
38 have work the Contractor refuses to perform completed by using Contracting Agency or
39 other forces. An emergency situation is any situation when, in the opinion of the Engineer, a
40 delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage
41 to the public.

42

43 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
44 remedying defective or unauthorized work, or work the Contractor failed or refused to
45 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
46 monies due, or to become due, the Contractor. Such direct and indirect costs shall include in

1 particular, but without limitation, compensation for additional professional services required,
2 and costs for repair and replacement of work of others destroyed or damaged by correction,
3 removal, or replacement of the Contractor's unauthorized work.
4

5 No adjustment in contract time or compensation will be allowed because of the delay in the
6 performance of the work attributable to the exercise of the Contracting Agency's rights
7 provided by this Section.
8

9 The rights exercised under the provisions of this section shall not diminish the Contracting
10 Agency's right to pursue any other avenue for additional remedy or damages with respect to
11 the Contractor's failure to perform the work as required.
12

13 **1-05.11 Final Inspection**

14
15 Delete this section and replace it with the following:
16

17 **1-05.11 Final Inspections and Operational Testing**

18
19 *(October 1, 2005 APWA GSP)*

20 **1-05.11(1) Substantial Completion Date**

21
22 When the Contractor considers the work to be substantially complete, the Contractor shall so
23 notify the Engineer and request the Engineer establish the Substantial Completion Date. The
24 Contractor's request shall list the specific items of work that remain to be completed in order
25 to reach physical completion. The Engineer will schedule an inspection of the work with the
26 Contractor to determine the status of completion. The Engineer may also establish the
27 Substantial Completion Date unilaterally.
28

29 If, after this inspection, the Engineer concurs with the Contractor that the work is
30 substantially complete and ready for its intended use, the Engineer, by written notice to the
31 Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer
32 does not consider the work substantially complete and ready for its intended use, the
33 Engineer will, by written notice, so notify the Contractor giving the reasons therefor.
34

35 Upon receipt of written notice concurring in or denying substantial completion, whichever is
36 applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
37 interruption, the work necessary to reach Substantial and Physical Completion. The
38 Contractor shall provide the Engineer with a revised schedule indicating when the Contractor
39 expects to reach substantial and physical completion of the work.
40

41 The above process shall be repeated until the Engineer establishes the Substantial
42 Completion Date and the Contractor considers the work physically complete and ready for
43 final inspection.

1 **1-05.11(2) Final Inspection and Physical Completion Date**
2

3 When the Contractor considers the work physically complete and ready for final inspection,
4 the Contractor by written notice, shall request the Engineer to schedule a final inspection.
5 The Engineer will set a date for final inspection. The Engineer and the Contractor will then
6 make a final inspection and the Engineer will notify the Contractor in writing of all
7 particulars in which the final inspection reveals the work incomplete or unacceptable. The
8 Contractor shall immediately take such corrective measures as are necessary to remedy the
9 listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without
10 interruption until physical completion of the listed deficiencies. This process will continue
11 until the Engineer is satisfied the listed deficiencies have been corrected.

12
13 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
14 written notice listing the deficiencies, the Engineer may, upon written notice to the
15 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
16 Section 1-05.7.

17 The Contractor will not be allowed an extension of contract time because of a delay in the
18 performance of the work attributable to the exercise of the Engineer's right hereunder.
19

20 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
21 Contracting Agency, in writing, of the date upon which the work was considered physically
22 complete. That date shall constitute the Physical Completion Date of the contract, but shall
23 not imply acceptance of the work or that all the obligations of the Contractor under the
24 contract have been fulfilled.

25
26 **1-05.11(3) Operational Testing**
27

28 It is the intent of the Contracting Agency to have at the Physical Completion Date a complete
29 and operable system. Therefore when the work involves the installation of machinery or
30 other mechanical equipment; street lighting, electrical distribution or signal systems;
31 irrigation systems; buildings; or other similar work it may be desirable for the Engineer to
32 have the Contractor operate and test the work for a period of time after final inspection but
33 prior to the physical completion date. Whenever items of work are listed in the Contract
34 Provisions for operational testing they shall be fully tested under operating conditions for the
35 time period specified to ensure their acceptability prior to the Physical Completion Date.
36 During and following the test period, the Contractor shall correct any items of workmanship,
37 materials, or equipment which prove faulty, or that are not in first class operating condition.
38 Equipment, electrical controls, meters, or other devices and equipment to be tested during
39 this period shall be tested under the observation of the Engineer, so that the Engineer may
40 determine their suitability for the purpose for which they were installed. The Physical
41 Completion Date cannot be established until testing and corrections have been completed to
42 the satisfaction of the Engineer.

43
44 The costs for power, gas, labor, material, supplies, and everything else needed to successfully
45 complete operational testing, shall be included in the unit contract prices related to the
46 system being tested, unless specifically set forth otherwise in the proposal.

1 Operational and test periods, when required by the Engineer, shall not affect a
2 manufacturer's guaranties or warranties furnished under the terms of the contract.
3

4 **1-05.13 Superintendents, Labor and Equipment of Contractor**
5 *(August 14, 2013 APWA GSP)*
6

7 Delete the sixth and seventh paragraphs of this section.
8

9 **1-05.14 Cooperation with Other Contractors**
10 *(March 13, 1995 WSDOT GSP)*
11

12 Section 1-05.14 is supplemented with the following:
13

14 ***Other Contracts or Other Work***

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

18 **Puget Sound Energy (Power): Utility Construction**

19 Project Limits: Beginning of Project to the End of Project

20 Relocating and adjusting their facilities to accommodate project improvement.

21 Existing utilities will be impacted as a result of the Contractor's work.
22

23 **Frontier Communications (Communications): Utility Construction**

24 Project Limits: Beginning of Project to the End of Project

25 Relocating and adjusting their facilities to accommodate project improvement.

26 Existing utilities will be impacted as a result of the Contractor's work.
27

28 **Comcast (Communications): Utility Construction**

29 Project Limits: Beginning of Project to the End of Project

30 Relocating and adjusting their facilities to accommodate project improvement.

31 Existing utilities will be impacted as a result of the Contractor's work.
32

33 **Black Rock Cable (Communications): Utility Construction**

34 Project Limits: Beginning of Project to the End of Project

35 Relocating and adjusting their facilities to accommodate project improvement.

36 Existing utilities will be impacted as a result of the Contractor's work.
37

38 **Cascade Natural Gas (Gas): Utility Construction**

39 Project Limits: Beginning of Project to the End of Project

40 Relocating and adjusting their facilities to accommodate project improvements.

41 Cascade lines will be impacted as a result of the Contractor's work.

1 **1-05.15 Method of Serving Notices**

2 *(March 25, 2009 APWA GSP)*

3 Revise the second paragraph to read:

4
5 All correspondence from the Contractor shall be directed to the Project Engineer. All
6 correspondence from the Contractor constituting any notification, notice of protest, notice of
7 dispute, or other correspondence constituting notification required to be furnished under the
8 Contract, must be in paper format, hand delivered or sent via mail delivery service to the
9 Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies
10 of correspondence will not constitute such notice and will not comply with the requirements
11 of the Contract.

12
13 **1-05.16 Water and Power**

14 *(October 1, 2005 APWA GSP)*

15
16 The Contractor shall make necessary arrangements, and shall bear the costs for power and
17 water necessary for the performance of the work, unless the contract includes power and
18 water as a pay item.

19
20 **1-05.17 Oral Agreements**

21 *(October 1, 2005 APWA GSP)*

22
23 No oral agreement or conversation with any officer, agent, or employee of the Contracting
24 Agency, either before or after execution of the contract, shall affect or modify any of the
25 terms or obligations contained in any of the documents comprising the contract. Such oral
26 agreement or conversation shall be considered as unofficial information and in no way
27 binding upon the Contracting Agency, unless subsequently put in writing and signed by the
28 Contracting Agency.

29
30 **1-06 CONTROL OF MATERIALS**

31
32 Section 1-06 is supplemented with the following:

33
34 ***Buy America***

35
36 *(August 6, 2012, WSDOT GSP)*

37 In accordance with Buy America requirements contained in 23 CFR 635.410, the major
38 quantities of steel and iron construction material that is permanently incorporated into the
39 project shall consist of American-made materials only. Buy America does not apply to
40 temporary steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and
41 falsework.

42
43 Minor amounts of foreign steel and iron may be utilized in this project provided the cost of
44 the foreign material used does not exceed one-tenth of one percent of the total contract cost
45 or \$2,500.00, whichever is greater.

1 American-made material is defined as material having all manufacturing processes
2 occurring domestically. To further define the coverage, a domestic product is a
3 manufactured steel material that was produced in one of the 50 States, the District of
4 Columbia, Puerto Rico, or in the territories and possessions of the United States.
5

6 If domestically produced steel billets or iron ingots are exported outside of the area of
7 coverage, as defined above, for any manufacturing process then the resulting product does
8 not conform to the Buy America requirements. Additionally, products manufactured
9 domestically from foreign source steel billets or iron ingots do not conform to the Buy
10 America requirements because the initial melting and mixing of alloys to create the material
11 occurred in a foreign country.
12

13 Manufacturing begins with the initial melting and mixing, and continues through the coating
14 stage. Any process which modifies the chemical content, the physical size or shape, or the
15 final finish is considered a manufacturing process. The processes include rolling, extruding,
16 machining, bending, grinding, drilling, welding, and coating. The action of applying a
17 coating to steel or iron is deemed a manufacturing process. Coating includes epoxy coating,
18 galvanizing, aluminizing, painting, and any other coating that protects or enhances the value
19 of steel or iron. Any process from the original reduction from ore to the finished product
20 constitutes a manufacturing process for iron.
21

22 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and
23 alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron
24 ore.
25

26 The following are considered to be steel manufacturing processes:
27

- 28 1. Production of steel by any of the following processes:
 - 29 a. Open hearth furnace.
 - 30 b. Basic oxygen.
 - 31 c. Electric furnace.
 - 32 d. Direct reduction.
 - 33 2. Rolling, heat treating, and any other similar processing.
 - 34 3. Fabrication of the products.
 - 35 a. Spinning wire into cable or strand.
 - 36 b. Corrugating and rolling into culverts.
 - 37 c. Shop fabrication.
- 38
39
40
41
42
43
44
45
46

1 A certification of materials origin will be required for any items comprised of, or containing,
2 steel or iron construction materials prior to such items being incorporated into the permanent
3 work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or
4 such other form the Contractor chooses, provided it contains the same information as DOT
5 Form 350-109EF.

6 7 **1-06.4 Handling and Storing Materials**

8
9 Section 1-06.4 is supplemented with the following:

10
11 *(February 1, 2008 R&E GSP)*

12 The Contractor shall make arrangements for storage of equipment and materials.

13
14 No staging area is provided by the Contracting Agency.

15 16 **1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

17 18 **1-07.1 Laws to be Observed**

19
20 Sentence 2 of paragraph 1 is deleted in its entirety and replaced with the following:

21
22 *(August 4, 2011 R&E GSP)*

23 The Contractor shall indemnify and save harmless the Contracting Agency (including
24 Council members, employees, the Engineer and any agents) against any claim that may arise
25 because the Contractor (or any employee of the Contractor or subcontractor or material
26 supplier) violated a legal requirement.

27
28 Section 1-07.1 is supplemented with the following:

29
30 *August 4, 2011 R&E GSP)*

31 Except as provided in Section 1-07.1, all costs incurred as a result of compliance with
32 Federal, State and Local rules and regulations shall be paid by the Contractor and all such
33 costs, including taxes, permit and other fees, shall be included in the respective bid item
34 amounts.

35
36 *(OCTOBER 1, 2005 APWA GSP)*

37 In cases of conflict between different safety regulations, the more stringent regulation shall
38 apply.

39
40 The Washington State Department of Labor and Industries shall be the sole and paramount
41 administrative agency responsible for the administration of the provisions of the Washington
42 Industrial Safety and Health Act of 1973 (WISHA).

43
44 The Contractor shall maintain at the project site office, or other well known place at the
45 project site, all articles necessary for providing first aid to the injured. The Contractor shall
46 establish, publish, and make known to all employees, procedures for ensuring immediate
47 removal to a hospital, or doctor's care, persons, including employees, who may have been

1 injured on the project site. Employees should not be permitted to work on the project site
2 before the Contractor has established and made known procedures for removal of injured
3 persons to a hospital or a doctor's care.
4

5 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the
6 Contractor's plant, appliances, and methods, and for any damage or injury resulting from
7 their failure, or improper maintenance, use, or operation. The Contractor shall be solely and
8 completely responsible for the conditions of the project site, including safety for all persons
9 and property in the performance of the work. This requirement shall apply continuously, and
10 not be limited to normal working hours. The required or implied duty of the Engineer to
11 conduct construction review of the Contractor's performance does not, and shall not, be
12 intended to include review and adequacy of the Contractor's safety measures in, on, or near
13 the project site.
14

15 *(August 4, 2011 R&E GSP)*

16 **Confined Space**

17 Confined spaces are known to exist at the following locations:
18

19 *** All existing storm drain facilities and sanitary sewer facilities affected by the project and all
20 proposed storm drain and sanitary sewer facilities***
21

22 The Contractor shall be fully responsible for the safety and health of all on-site workers and
23 compliant with Washington Administrative Code (WAC 296-809).
24

25 The Contractor shall prepare and implement a confined space program for each of the confined
26 spaces identified above. The Contractors Confined Space program shall be sent to the
27 contracting agency at least 5 days prior to the Contractor beginning work in or adjacent to the
28 confined space. No work shall be performed in or adjacent to the confined space until the plan is
29 submitted to the Engineer as required. The Contractor shall communicate with the Project
30 Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both
31 the Contracting Agency's and Contractor's workers when working in or near a confined space.
32

33 All costs to prepare and implement the confined space program shall be included in the bid
34 prices for the various items associated with the confined space work.
35

36 **1-07.2 State Taxes**
37

38 Delete this section, including its sub-sections, in its entirety and replace it with the following:
39

40 **1-07.2 State Sales Tax**

41 *(June 27, 2011 APWA GSP)*
42

43 The Washington State Department of Revenue has issued special rules on the State sales tax.
44 Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should
45 contact the Washington State Department of Revenue for answers to questions in this area.
46 The Contracting Agency will not adjust its payment if the Contractor bases a bid on a
47 misunderstood tax liability.

1 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract
2 amounts. In some cases, however, state retail sales tax will not be included. Section 1-
3 07.2(2) describes this exception.
4

5 The Contracting Agency will pay the retained percentage (or release the Contract Bond if a
6 FHWA-funded Project) only if the Contractor has obtained from the Washington State
7 Department of Revenue a certificate showing that all contract-related taxes have been paid
8 (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor
9 any amount the Contractor may owe the Washington State Department of Revenue, whether
10 the amount owed relates to this contract or not. Any amount so deducted will be paid into
11 the proper State fund.
12

13 *June 27, 2011, WSDOT GSP*

14 The third paragraph of Section 1-07.2 is revised to read:
15

16 The Contracting Agency will release the Contract Bond only if the Contractor has obtained
17 from the State Department of Revenue a certificate showing that all Contract-related taxes
18 have been paid.
19

20 **1-07.2(1) State Sales Tax — Rule 171**
21

22 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
23 roads, etc., which are owned by a municipal corporation, or political subdivision of the state,
24 or by the United States, and which are used primarily for foot or vehicular traffic. This
25 includes storm or combined sewer systems within and included as a part of the street or road
26 drainage system and power lines when such are part of the roadway lighting system. For
27 work performed in such cases, the Contractor shall include Washington State Retail Sales
28 Taxes in the various unit bid item prices, or other contract amounts, including those that the
29 Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in
30 doing the work.
31

32 **1-07.2(2) State Sales Tax — Rule 170**
33

34 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
35 existing buildings, or other structures, upon real property. This includes, but is not limited to,
36 the construction of streets, roads, highways, etc., owned by the state of Washington; water
37 mains and their appurtenances; sanitary sewers and sewage disposal systems unless such
38 sewers and disposal systems are within, and a part of, a street or road drainage system;
39 telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above
40 streets or roads, unless such power lines become a part of a street or road lighting system;
41 and installing or attaching of any article of tangible personal property in or to real property,
42 whether or not such personal property becomes a part of the realty by virtue of installation.
43

44 For work performed in such cases, the Contractor shall collect from the Contracting Agency,
45 retail sales tax on the full contract price. The Contracting Agency will automatically add this
46 sales tax to each payment to the Contractor. For this reason, the Contractor shall not include

1 the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule
2 170, with the following exception.

3
4 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or
5 a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
6 consumable supplies not integrated into the project. Such sales taxes shall be included in the
7 unit bid item prices or in any other contract amount.
8

9 **1-07.2(3) Services**

10
11 The Contractor shall not collect retail sales tax from the Contracting Agency on any contract
12 wholly for professional or other services (as defined in Washington State Department of
13 Revenue Rules 138 and 244).
14

15 **1-07.6 Permits and Licenses**
16 *(March 13, 1995 WSDOT GSP)*

17
18 Section 1-07.6 is supplemented with the following:

19
20 No hydraulic permits are required for this project unless the Contractor's operations use,
21 divert, obstruct, or change the natural flow or bed of any river or stream, or utilize any of the
22 waters of the State or materials from gravel or sand bars, or from stream beds.
23

24 **Department of Ecology Permits For Construction**
25 *(February 1, 2008 R&E GSP)*

26
27 The Contractor shall transfer the NPDES Construction Stormwater General Permit issued for
28 this project to the Contractor's name. The transfer will be a "Complete Transfer". Prior to
29 the Contractor beginning any work at the site, the Contractor shall provide the Engineer with
30 documents showing that the "Complete Transfer" has been approved.
31

32 All costs involved with the satisfying the NPDES Construction Stormwater General Permit
33 requirements shall be incidental to the various bid items.
34

35 **1-07.7 Load Limits**

36
37 **1-07.7(1) General**

38
39 Section 1-07.7(1) is supplemented with the following:

40
41 *(March 13, 1995 WSDOT GSP)*

42 If the sources of materials provided by the Contractor necessitates hauling over roads other
43 than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements
44 for the use of the haul routes.

45 *(February 28, 2014 R&E GSP)*

46 The Contractor shall not use Olson Road as a haul route
47

1 **1-07.9 Wages**

2
3 **1-07.9(1) General**

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

5
6 (January 3, 2014)

7 The Federal wage rates incorporated in this contract have been established by the Secretary
8 of Labor under United States Department of Labor General Decision No. WA140001.

9
10 The State rates incorporated in this contract are applicable to all construction activities
11 associated with this contract.

12
13 **1-07.11 Requirements for Nondiscrimination**

14
15 Section 1-07.11 is supplemented with the following:

16
17 (August 5, 2013)

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

- 20
21 1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard
22 Federal Equal Employment Opportunity Construction Contract Specifications set forth
23 herein.
24
25 2. The goals and timetables for minority and female participation set by the Office of
26 Federal Contract Compliance Programs, expressed in percentage terms for the
27 Contractor's aggregate work force in each construction craft and in each trade on all
28 construction work in the covered area, are as follows:

29
30 Women - Statewide

31
32

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%

33
34
35 Minorities - by Standard Metropolitan Statistical Area (SMSA)

36
37 Spokane, WA:

38 SMSA Counties:

39 Spokane, WA 2.8

40 WA Spokane.

41 Non-SMSA Counties 3.0

42 WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA
43 Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.
44

1	Richland, WA	
2	SMSA Counties:	
3	Richland Kennewick, WA	5.4
4	WA Benton; WA Franklin.	
5	Non-SMSA Counties	3.6
6	WA Walla Walla.	
7		
8	Yakima, WA:	
9	SMSA Counties:	
10	Yakima, WA	9.7
11	WA Yakima.	
12	Non-SMSA Counties	7.2
13	WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	
14		
15	Seattle, WA:	
16	SMSA Counties:	
17	Seattle Everett, WA	7.2
18	WA King; WA Snohomish.	
19	Tacoma, WA	6.2
20	WA Pierce.	
21	Non-SMSA Counties	6.1
22	WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap;	
23	WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA	
24	Thurston; WA Whatcom.	
25		
26	Portland, OR:	
27	SMSA Counties:	
28	Portland, OR-WA	4.5
29	WA Clark.	
30	Non-SMSA Counties	3.8
31	WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	

32
33 These goals are applicable to each nonexempt Contractor's total on-site construction
34 workforce, regardless of whether or not part of that workforce is performing work on a
35 Federal, or federally assisted project, contract, or subcontract until further notice.
36 Compliance with these goals and time tables is enforced by the Office of Federal
37 Contract compliance Programs.

38
39 The Contractor's compliance with the Executive Order and the regulations in 41 CFR
40 Part 60-4 shall be based on its implementation of the Equal Opportunity Clause,
41 specific affirmative action obligations required by the specifications set forth in 41 CFR
42 60-4.3(a), and its efforts to meet the goals. The hours of minority and female
43 employment and training must be substantially uniform throughout the length of the
44 contract, in each construction craft and in each trade, and the Contractor shall make a
45 good faith effort to employ minorities and women evenly on each of its projects. The
46 transfer of minority or female employees or trainees from Contractor to Contractor or

1 from project to project for the sole purpose of meeting the Contractor's goal shall be a
2 violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4.
3 Compliance with the goals will be measured against the total work hours performed.
4

- 5 3. The Contractor shall provide written notification to the Office of Federal Contract
6 Compliance Programs (OFCCP) within 10 working days of award of any construction
7 subcontract in excess of \$10,000 or more that are Federally funded, at any tier for
8 construction work under the contract resulting from this solicitation. The notification
9 shall list the name, address and telephone number of the Subcontractor; employer
10 identification number of the Subcontractor; estimated dollar amount of the subcontract;
11 estimated starting and completion dates of the subcontract; and the geographical area in
12 which the contract is to be performed. The notification shall be sent to:
13

14 U.S. Department of Labor
15 Office of Federal Contract Compliance Programs Pacific Region
16 Attn: Regional Director
17 San Francisco Federal Building
18 90 – 7th Street, Suite 18-300
19 San Francisco, CA 94103(415) 625-7800 Phone
20 (415) 625-7799 Fax
21

22 Additional information may be found at the U.S. Department of Labor website:
23 <http://www.dol.gov/ofccp/TAguides/ctaguide.htm>
24

- 25 4. As used in this Notice, and in the contract resulting from this solicitation, the Covered
26 Area is as designated herein.
27

28 Standard Federal Equal Employment Opportunity Construction Contract Specifications
29 (Executive Order 11246)
30

- 31 1. As used in these specifications:
32

- 33 a. Covered Area means the geographical area described in the solicitation from
34 which this contract resulted;
35
36 b. Director means Director, Office of Federal Contract Compliance Programs,
37 United States Department of Labor, or any person to whom the Director
38 delegates authority;
39
40 c. Employer Identification Number means the Federal Social Security number
41 used on the Employer's Quarterly Federal Tax Return, U. S. Treasury
42 Department Form 941;
43
44 d. Minority includes:
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- (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.

- 1 5. Neither the provisions of any collective bargaining agreement, nor the failure by a
2 union with whom the Contractor has a collective bargaining agreement, to refer either
3 minorities or women shall excuse the Contractor's obligations under these
4 specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
5
- 6 6. In order for the nonworking training hours of apprentices and trainees to be counted in
7 meeting the goals, such apprentices and trainees must be employed by the Contractor
8 during the training period, and the Contractor must have made a commitment to employ
9 the apprentices and trainees at the completion of their training, subject to the
10 availability of employment opportunities. Trainees must be trained pursuant to training
11 programs approved by the U.S. Department of Labor.
12
- 13 7. The Contractor shall take specific affirmative actions to ensure equal employment
14 opportunity. The evaluation of the Contractor's compliance with these specifications
15 shall be based upon its effort to achieve maximum results from its action. The
16 Contractor shall document these efforts fully, and shall implement affirmative action
17 steps at least as extensive as the following:
18
- 19 a. Ensure and maintain a working environment free of harassment, intimidation,
20 and coercion at all sites, and in all facilities at which the Contractor's
21 employees are assigned to work. The Contractor, where possible, will assign
22 two or more women to each construction project. The Contractor shall
23 specifically ensure that all foremen, superintendents, and other on-site
24 supervisory personnel are aware of and carry out the Contractor's obligation to
25 maintain such a working environment, with specific attention to minority or
26 female individuals working at such sites or in such facilities.
27
 - 28 b. Establish and maintain a current list of minority and female recruitment
29 sources, provide written notification to minority and female recruitment
30 sources and to community organizations when the Contractor or its unions
31 have employment opportunities available, and maintain a record of the
32 organizations' responses.
33
 - 34 c. Maintain a current file of the names, addresses and telephone numbers of each
35 minority and female off-the-street applicant and minority or female referral
36 from a union, a recruitment source or community organization and of what
37 action was taken with respect to each such individual. If such individual was
38 sent to the union hiring hall for referral and was not referred back to the
39 Contractor by the union or, if referred, not employed by the Contractor, this
40 shall be documented in the file with the reason therefor, along with whatever
41 additional actions the Contractor may have taken.
42
 - 43 d. Provide immediate written notification to the Director when the union or
44 unions with which the Contractor has a collective bargaining agreement has
45 not referred to the Contractor a minority person or woman sent by the

1 Contractor, or when the Contractor has other information that the union
2 referral process has impeded the Contractor's efforts to meet its obligations.
3

- 4 e. Develop on-the-job training opportunity and/or participate in training
5 programs for the area which expressly include minorities and women,
6 including upgrading programs and apprenticeship and trainee programs
7 relevant to the Contractor's employment needs, especially those programs
8 funded or approved by the U.S. Department of Labor. The Contractor shall
9 provide notice of these programs to the sources compiled under 7b above.
10
- 11 f. Disseminate the Contractor's EEO policy by providing notice of the policy to
12 unions and training programs and requesting their cooperation in assisting the
13 Contractor in meeting its EEO obligations; by including it in any policy
14 manual and collective bargaining agreement; by publicizing it in the company
15 newspaper, annual report, etc.; by specific review of the policy with all
16 management personnel and with all minority and female employees at least
17 once a year; and by posting the company EEO policy on bulletin boards
18 accessible to all employees at each location where construction work is
19 performed.
20
- 21 g. Review, at least annually, the company's EEO policy and affirmative action
22 obligations under these specifications with all employees having any
23 responsibility for hiring, assignment, layoff, termination or other employment
24 decisions including specific review of these items with on-site supervisory
25 personnel such as Superintendents, General Foremen, etc., prior to the
26 initiation of construction work at any job site. A written record shall be made
27 and maintained identifying the time and place of these meetings, persons
28 attending, subject matter discussed, and disposition of the subject matter.
29
- 30 h. Disseminate the Contractor's EEO policy externally by including it in any
31 advertising in the news media, specifically including minority and female
32 news media, and providing written notification to and discussing the
33 Contractor's EEO policy with other Contractors and Subcontractors with
34 whom the Contractor does or anticipates doing business.
35
- 36 i. Direct its recruitment efforts, both oral and written to minority, female and
37 community organizations, to schools with minority and female students and to
38 minority and female recruitment and training organizations serving the
39 Contractor's recruitment area and employment needs. Not later than one
40 month prior to the date for the acceptance of applications for apprenticeship or
41 other training by any recruitment source, the Contractor shall send written
42 notification to organizations such as the above, describing the openings,
43 screening procedures, and tests to be used in the selection process.
44
- 45 j. Encourage present minority and female employees to recruit other minority
46 persons and women and where reasonable, provide after school, summer and

1 vacation employment to minority and female youth both on the site and in
2 other areas of a Contractor's work force.

- 3
- 4 k. Validate all tests and other selection requirements where there is an obligation
5 to do so under 41 CFR Part 60-3.
- 6
- 7 l. Conduct, at least annually, an inventory and evaluation of all minority and
8 female personnel for promotional opportunities and encourage these
9 employees to seek or to prepare for, through appropriate training, etc., such
10 opportunities.
- 11
- 12 m. Ensure that seniority practices, job classifications, work assignments and other
13 personnel practices, do not have a discriminatory effect by continually
14 monitoring all personnel and employment related activities to ensure that the
15 EEO policy and the Contractor's obligations under these specifications are
16 being carried out.
- 17
- 18 n. Ensure that all facilities and company activities are nonsegregated except that
19 separate or single-user toilet and necessary changing facilities shall be
20 provided to assure privacy between the sexes.
- 21
- 22 o. Document and maintain a record of all solicitations of offers for subcontracts
23 from minority and female construction contractors and suppliers, including
24 circulation of solicitations to minority and female contractor associations and
25 other business associations.
- 26
- 27 p. Conduct a review, at least annually, of all supervisors' adherence to and
28 performance under the Contractor's EEO policies and affirmative action
29 obligations.
- 30

31 8. Contractors are encouraged to participate in voluntary associations which assist in
32 fulfilling one or more of their affirmative action obligations (7a through 7p). The
33 efforts of a contractor association, joint contractor-union, contractor-community, or
34 other similar group of which the Contractor is a member and participant, may be
35 asserted as fulfilling any one or more of the obligations under 7a through 7p of this
36 Special Provision provided that the Contractor actively participates in the group, makes
37 every effort to assure that the group has a positive impact on the employment of
38 minorities and women in the industry, ensure that the concrete benefits of the program
39 are reflected in the Contractor's minority and female work-force participation, makes a
40 good faith effort to meet its individual goals and timetables, and can provide access to
41 documentation which demonstrate the effectiveness of actions taken on behalf of the
42 Contractor. The obligation to comply, however, is the Contractor's and failure of such a
43 group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

44

45 9. A single goal for minorities and a separate single goal for women have been
46 established. The Contractor, however, is required to provide equal employment

1 opportunity and to take affirmative action for all minority groups, both male and
2 female, and all women, both minority and non-minority. Consequently, the Contractor
3 may be in violation of the Executive Order if a particular group is employed in
4 substantially disparate manner (for example, even though the Contractor has achieved
5 its goals for women generally, the Contractor may be in violation of the Executive
6 Order if a specific minority group of women is underutilized).

- 7
- 8 10. The Contractor shall not use the goals and timetables or affirmative action standards to
9 discriminate against any person because of race, color, religion, sex, or national origin.
- 10
- 11 11. The Contractor shall not enter into any subcontract with any person or firm debarred
12 from Government contracts pursuant to Executive Order 11246.
- 13
- 14 12. The Contractor shall carry out such sanctions and penalties for violation of these
15 specifications and of the Equal Opportunity Clause, including suspensions, terminations
16 and cancellations of existing subcontracts as may be imposed or ordered pursuant to
17 Executive Order 11246, as amended, and its implementing regulations by the Office of
18 Federal Contract Compliance Programs. Any Contractor who fails to carry out such
19 sanctions and penalties shall be in violation of these specifications and Executive Order
20 11246, as amended.
- 21
- 22 13. The Contractor, in fulfilling its obligations under these specifications, shall implement
23 specific affirmative action steps, at least as extensive as those standards prescribed in
24 paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts
25 to ensure equal employment opportunity. If the Contractor fails to comply with the
26 requirements of the Executive Order, the implementing regulations, or these
27 specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- 28
- 29 14. The Contractor shall designate a responsible official to monitor all employment related
30 activity to ensure that the company EEO policy is being carried out, to submit reports
31 relating to the provisions hereof as may be required by the government and to keep
32 records. Records shall at least include, for each employee, their name, address,
33 telephone numbers, construction trade, union affiliation if any, employee identification
34 number when assigned, social security number, race, sex, status (e.g., mechanic,
35 apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per
36 week in the indicated trade, rate of pay, and locations at which the work was performed.
37 Records shall be maintained in an easily understandable and retrievable form; however,
38 to the degree that existing records satisfy this requirement, the Contractors will not be
39 required to maintain separate records.
- 40
- 41 15. Nothing herein provided shall be construed as a limitation upon the application of other
42 laws which establish different standards of compliance or upon the application of
43 requirements for the hiring of local or other area residents (e.g., those under the Public
44 Works Employment Act of 1977 and the Community Development Block Grant
45 Program).
- 46

1 16. Additional assistance for Federal Construction Contractors on contracts administered
2 by Washington State Department of Transportation or by Local Agencies may be found
3 at:
4

5 Washington State Dept. of Transportation
6 Office of Equal Opportunity
7 PO Box 47314
8 310 Maple Park Ave. SE
9 Olympia WA
10 98504-7314
11 Ph: 360-705-7090
12 Fax: 360-705-6801
13 <http://www.wsdot.wa.gov/equalopportunity/default.htm>
14

15 *(April 1, 2013 WSDOT GSP)*

16 ***Disadvantaged Business Enterprise Condition of Award Participation***

17 The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 apply to this
18 Contract. Demonstrating compliance with these specifications is a Condition of Award
19 (COA) of this Contract. Failure to comply with the requirements of this specification may
20 result in your bid being found to be nonresponsive and may be rejected.
21

22 **DBE COA Goal**

23 The Contracting Agency has established a COA Contract goal in the amount of: ***
24 **13% ***.**
25

26 **DBE Eligibility/Selection of DBEs**

27 A Directory of Certified DBE Firms denoting the Description of Work the DBE
28 Contractors are certified to perform is available at:
29

30 www.omwbe.wa.gov/certification/index.shtml.
31

32 The directory provides plain language on the Description of Work that the listed
33 DBE's have been certified by the Office of Minority and Women's Business
34 Enterprises (OMWBE) to perform. The Bidder shall use the Directory of Certified
35 DBE Firms to confirm if a DBE is certified for the "Description of Work" the
36 Bidder lists on the DBE Utilization Certification form # 272-056 EF (see form
37 instructions) and therefore qualifies for credit towards the COA goal.
38

39 **Crediting DBE Participation**

40 **Joint Venture**

41 When a DBE performs as a participant in a joint venture, only that portion of the
42 total dollar value of the Contract equal to the distinct, clearly defined portion of the
43 Work that the DBE performs with its own forces shall be credited.
44

1 **DBE Prime Contractor**

2 A DBE Prime Contractor may only take credit for that portion of the total dollar
3 value of the Contract equal to the distinct, clearly defined portion of the Work that
4 the DBE Prime performs with its own forces.
5

6 **DBE Subcontractor**

7 When a DBE firm participates as a Subcontractor only that portion of the total
8 dollar value of the Contract equal to the distinct, clearly defined portion of the
9 Work that the DBE performs with its own forces shall be credited.
10

- 11 • Include the cost of supplies and materials obtained by the DBE for the
12 Work in the Contract including supplies purchased or equipment leased by
13 the DBE.
14
 - 15 ○ However, you may not take credit for supplies, materials, and
16 equipment the DBE Subcontractor purchases or leases from the Prime
17 Contractor or its affiliate. In addition, Work performed by a DBE,
18 utilizing resources of the Prime Contractor or its affiliates shall not be
19 credited.
- 20 • In very rare situations, a DBE firm may utilize equipment and/or personnel
21 from a non-DBE firm other than the Prime Contractor or its affiliates.
22 Should this situation arise the arrangement must be short-term and have
23 prior written approval from the Office of Equal Opportunity (OEO).
24
- 25 • Count the entire value of fees or commissions charged by a DBE firm for
26 providing a bona fide service, such as professional, technical, consultant,
27 managerial services, or for providing bonds or insurance.
28
- 29 • When a DBE subcontracts to another firm, the value of the subcontracted
30 Work may be counted as participation only if the DBE's lower tier
31 Subcontractor is also a DBE. Work that a DBE subcontracts to a non-DBE
32 firm shall not be credited.
33
- 34 • When non-DBE Subcontractor further subcontracts to a lower-tier
35 Subcontractor or supplier who is a certified DBE, then that portion of the
36 Work further subcontracted may be credited as DBE participation, provided
37 it is a distinct clearly defined portion of the Work that the DBE is certified
38 to perform and the DBE Subcontractor performs the Work with its own
39 forces.
40
- 41 • If a firm is not certified as a DBE at the time of the execution of the
42 contract, their participation cannot be counted toward any DBE goals.
43
44

1 **Trucking**

2 Use the following factors in determining DBE credit and whether a DBE trucking
3 company is performing a commercially useful function:
4

- 5 1. The DBE must be responsible for the management and supervision of the
6 entire trucking operation for which credit is being claimed.
7
- 8 2. The DBE must itself own and, with its own workforce, operate at least
9 one fully licensed, insured, and operational truck used on the Contract.
10
- 11 3. The DBE receives credit only for the value of the transportation services
12 it provides on the Contract using trucks it owns or leases, licenses,
13 insures, and operates with drivers it employs. For purposes of this
14 requirement a lease must indicate that the DBE has exclusive use of and
15 control over the truck. This does not preclude the leased truck from
16 working for others provided it is with the consent of the DBE and the
17 lease provides the DBE first priority for use of the leased truck. Leased
18 trucks must display the name and identification number of the DBE.
19
- 20 4. The DBE may lease trucks from another DBE firm including an owner-
21 operator provided they are certified as a DBE for trucking. The DBE who
22 leases trucks from another DBE may claim participation for the total
23 value of the transportation services the lessee DBE provides on the
24 Contract.
25
- 26 5. The DBE may also lease trucks from a non-DBE firm and may enter into
27 an agreement with an owner-operator who is a non-DBE. The DBE shall
28 only receive credit for the number of additional non-DBE trucks equal or
29 less than the number of DBE trucks the firms owns or has
30 leased/subcontracted through another DBE trucking company. The DBE
31 must control the work of the non-DBE trucks. If the non-DBE is
32 performing the work without supervision of that work by the DBE, the
33 DBE is not performing a Commercially Useful Function (CUF).
34
- 35 6. In any lease or owner-operator situation, as described in requirement #4
36 and #5 above, the following rules shall apply:
37
- 38 a. A written lease/rental agreement is required for all trucks leased
39 or rented; documenting the ownership and the terms of the
40 agreement. The agreements must be submitted and approved by
41 the Contracting Agency prior to the beginning of the Work. The
42 agreement must show the leaser's name, truck description and
43 agreed upon amount and method of payment (hour, ton, or per
44 load). All lease agreements shall be for a long-term
45 relationship, rather than for the individual project. (This
46 requirement does not apply to owner-operator arrangements.)
47

- 1 b. Only the vehicle, (not the operator) may be leased or rented.
2 (This requirement does not apply to owner-operator
3 arrangements).
4

- 5 7. Credit may only be claimed for DBE trucking firms operating under a
6 subcontract or a written agreement approved by the Contracting Agency
7 prior to performing Work.
8

9 **Expenditures paid to other DBEs**

10 Expenditures paid to other DBEs for materials or supplies may be counted toward
11 DBE goals as provided in the following:
12

13 **Manufacturer**

14 You may claim DBE credit for 100 percent of value of the materials or
15 supplies obtained from a DBE manufacturer.
16

17 A manufacturer is a firm that operates or maintains a factory or establishment
18 that produces, on the premises, the materials, supplies, articles, or equipment
19 required under the contract. A manufacturer shall include firms that produce
20 finished goods or products from raw or unfinished material or that purchases
21 and substantially alters goods and materials to make them suitable for
22 construction use before reselling them.
23

24 In order to receive credit as a DBE Manufacturer, the firm must be certified by
25 OMWBE as a manufacturer in a NAICS code that falls within the 31XXXX to
26 33XXXX classification.
27

28 **Regular Dealer**

29 You may claim credit for 60 percent of the value of the materials or supplies
30 purchased from a DBE regular dealer. Rules applicable to regular dealer
31 status are contained in 49 CFR Part 26.55.e.2.
32

33 To be considered a regular dealer you must meet the following criteria:
34

- 35 • WSDOT considers and recognizes a regular dealer, as a firm that
36 owns, operates, or maintains a store, warehouse, or other establishment
37 in which the materials or supplies required for the performance of the
38 Contract and described by the specifications of the Contract are
39 bought, kept in stock and regularly sold or leased to the public in the
40 usual course of business.
- 41 • Sixty percent (60%) of the cost of materials or supplies purchased
42 from an approved regular dealer may be credited as DBE participation.
43
44

45 Regular dealer status is granted on a contract-by-contract basis. A firm
46 wishing to be approved as a regular dealer for WSDOT contracted projects or

1 Highways & Local Program administered projects must submit a request in
2 writing to OEO for approval, no later than seven days prior to bid opening.
3

4 Once the OEO has received the request, an onsite review will be set up with
5 the firm and a review conducted to determine the firm's qualifications. If it is
6 determined that the firm qualifies as a regular dealer the OEO will list the firm
7 on an Approved Regular Dealers List. The list may be accessed through the
8 OEO Home website is at:
9

10 www.wsdot.wa.gov/equalopportunity.
11

12 Note: Requests to be listed as a regular dealer will only be processed if the
13 requesting firm is certified by the Office of Minority and Women's
14 Business Enterprises in a NAICS code that fall within the 42XXXX
15 NAICS Wholesale code section.
16

17 **Materials or Supplies Purchased from a DBE**

18 With regard to materials or supplies purchased from a DBE who is neither a
19 manufacturer nor a regular dealer you may claim credit for the following:
20

- 21 1. Fees or commissions charged for assistance in the procurement of the
22 materials and supplies.
- 23 2. Fees or transportation charges for the delivery of materials or
24 supplies.
25
26

27 In either case you may not take credit for any part of the cost of the materials
28 and supplies.
29

30 **Commercially Useful Function (CUF)**

31 The Prime Contractor has a responsibility and must treat the working relationship
32 with the DBE such that the DBE is performing a commercially useful function.
33 The Prime Contractor may only take credit for Work performed by a DBE that is
34 determined to be performing a commercially useful function.
35

- 36 • A DBE performs a commercially useful function when it is responsible
37 for execution of a distinct element of Work and is carrying out its
38 responsibilities by performing, managing and supervising the Work involved.
39 The DBE must also be responsible with respect to materials and supplies used
40 on the Contract. For example; negotiating price, determining quality,
41 determining quantities, ordering, installing (if applicable) and paying for the
42 material itself.
43
- 44 • A DBE does not perform a commercially useful function if its role is
45 limited to that of an extra participant in a transaction, Contract, or project
46 through which funds are passed.
47

1 **Joint Checking Allowance**

2 Prime Contractors and DBEs must receive pre-approval by the OEO before using a
3 joint check. Joint check requests shall be submitted by the Prime Contractor to the
4 Contracting Agency for approval.
5

6 When requesting approval for use of a joint checking allowance, the Contractor
7 must distribute a written joint check agreement among the parties (including the
8 suppliers involved) providing full and prompt disclosure of the expected use of the
9 joint checks. The agreement shall contain all the information concerning the
10 parties' obligations and consequences or remedies if the agreement is not fulfilled
11 or a breach occurs. The joint check request shall be submitted to the Contracting
12 Agency for approval prior to signing the contract agreement.
13

14 The following are some general conditions that must be met by all parties
15 regarding joint check use:
16

- 17 a. It is understood that the Prime Contractor acts solely as the guarantor of a
18 joint check.
- 19 b. The DBE's own funds are used to pay supplier of materials. The Prime
20 Contractor does not make direct payment to supplier. In order to be
21 performing a Commercially Useful Function (CUF), the DBE must
22 release the check to the supplier (paying for the materials it-self and not
23 be an extra participant in a transaction).
24
- 25 c. If the Prime Contractor makes joint checks available to one DBE
26 Subcontractor, the service must be made available to all Subcontractors
27 (DBE and non-DBE).
28
- 29 d. The relationship between the DBE and its suppliers should be established
30 independently of and without interference by the Prime Contractor. The
31 DBE has final decision-making responsibility concerning the procurement
32 of materials and supplies, including which supplier to use.
33
- 34 e. The Prime Contractor and DBE shall be able to provide receipts, invoices,
35 cancelled checks and/or certification statements of payment if requested
36 by the Contracting Agency.
37
- 38 f. The DBE remains responsible for all other elements of 49 CFR
39 26.55(c)(1).
40

41 Failure by the Prime Contractor to request and receive prior approval of a joint
42 check arrangement will result in the joint check amount not counting towards the
43 Prime Contractor's DBE goal.
44

1 **Disadvantaged Business Enterprise Utilization Certification FORM # 272-056**
2 **EF**

3 To be eligible for award of the Contract, the Bidder shall properly complete and
4 submit a Disadvantaged Business Enterprise Utilization Certification with the
5 Bidder's sealed Bid Proposal, as specified Section 1-02.9 Delivery of Proposal.
6 The Bidder's Disadvantaged Business Enterprise Utilization Certification must
7 clearly demonstrate how the Bidder intends to meet the DBE COA goal. A
8 Disadvantaged Business Enterprise Utilization Certification (form # 272-056 EF)
9 is included in your Proposal package for this purpose as well as instructions on
10 how to properly fill out the form.

11
12 In the event of arithmetic errors in completing the Disadvantaged Business
13 Enterprise Utilization Certification the amount listed to be applied towards the goal
14 for each DBE shall govern and the DBE total amount shall be adjusted
15 accordingly.

16
17 Note: The Contracting Agency shall consider as non-responsive and shall reject
18 any Bid Proposal submitted that does not contain a Disadvantaged
19 Business Enterprise Utilization Certification that accurately demonstrates
20 how the Bidder intends to meet the COA goal.

21
22 **Disadvantaged Business Enterprise (DBE) Written Confirmation**
23 **Document(s) FORM # 422-031 EF**

24 The Bidder shall submit a complete and accurate Disadvantaged Business
25 Enterprise (DBE) Written Confirmation Document for each DBE firm listed in the
26 Bidder's completed Disadvantaged Business Enterprise Utilization Certification as
27 submitted with the bid. Failure to do so will result in the associated participation
28 being disallowed, which may result in bid rejection.

29
30 A Disadvantaged Business Enterprise (DBE) Written Confirmation Document
31 (form No. 422-031 EF) is included in your Proposal package for this purpose.

32
33 The form(s) shall be received as specified in the special provisions for Section 1-
34 02.9 Delivery of Proposal.

35
36 It is prohibited for the Bidder to require a DBE to submit a Written Confirmation
37 Document with any part of the form left blank. Should the Contracting Agency
38 determine that a Written Confirmation Document was signed by a DBE that was
39 not complete; the validity of the document comes into question and the associated
40 DBE Participation may not receive credit.

41
42 **Selection of Successful Bidder/Good Faith Efforts (GFE)**

43 The successful Bidder shall be selected on the basis of having submitted the lowest
44 responsive Bid, which demonstrates a good faith effort to achieve the DBE COA
45 goal. Achieving the goal may be accomplished in one of two ways, as follows:
46

1 1. By meeting the goal
2 The best indication of good faith efforts is to document, through
3 submission of the Disadvantaged Business Enterprise Utilization
4 Certification and supporting Disadvantaged Business Enterprise (DBE)
5 Written Confirmation Document(s) that the Bidder has obtained enough
6 DBE participation to meet or exceed the assigned DBE COA contract
7 goal. That being the case no additional GFE documentation is required.
8 Or;

9
10 2. By documentation that it made adequate GFE to meet the goal
11 The Bidder may demonstrate a GFE in whole or part through GFE
12 documentation ONLY IN THE EVENT a Bidder's efforts to solicit
13 sufficient DBE participation have been unsuccessful. In this case, the
14 Bidder must supply GFE documentation in addition to the Disadvantaged
15 Business Enterprise Utilization Certification, and supporting
16 Disadvantaged Business Enterprise (DBE) Written Confirmation
17 document(s).
18

19 Note: In the case where the Bidder was awarded the contract based on
20 demonstrating adequate GFE the advertised DBE goal will not be reduced
21 to the Bidder's partial commitment. The Bidder shall demonstrate a GFE
22 during the life of the Contract to attain the DBE Condition of Award
23 (COA) Goal as assigned to the project.
24

25 **Good Faith Efforts (GFE) Documentation**

26 GFE documentation shall be received, as specified in the special provisions for
27 Section 1-02.9 Delivery of Proposal.
28

29 Based upon all the relevant documentation submitted in Bid or as supplement to
30 Bid, the Contracting Agency shall determine whether the Bidder has demonstrated
31 a sufficient GFE to achieve DBE participation. The Contracting Agency will make
32 a fair and reasonable judgment of whether a Bidder that did not meet the goal
33 through participation, made adequate good faith efforts as demonstrated by the
34 GFE documentation.
35

36 The following is a list of types of actions, which would be considered as part of the
37 Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory
38 checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of
39 efforts may be relevant in appropriate cases:
40

- 41 1. Attendance by the Bidder at any pre-solicitation or pre-Bid meetings that
42 were scheduled by the Contracting Agency to inform DBEs of contracting
43 and subcontracting or material supply opportunities available on the
44 project;
- 45 2. Contacting local Tribes, Tribal Employment Rights Offices (TERO)
46 concerning the subcontracting or supply opportunities in sufficient time to
47 allow the enterprises to participate effectively;

- 1 3. Selection by the Bidder of specific economically feasible units of the
2 project to be performed by DBEs in order to increase the likelihood of
3 participation by DBEs even if the Bidder preferred to perform these Work
4 items as the Prime Contractor;
5
- 6 4. Advertising by the Bidder in general circulation, trade association
7 minority and trade oriented, women focus publications, concerning the
8 subcontracting or supply opportunities;
9
- 10 5. Providing written notice from the Bidder to a reasonable number of
11 specific DBEs, identified from the OMWBE Directory of Certified DBE
12 Firms for the selected subcontracting or material supply Work, in
13 sufficient time to allow the enterprises to participate effectively;
14
- 15 6. Follow-up by the Bidder of initial solicitations of interest by contacting
16 the DBEs to determine with certainty whether they were interested.
17 Documentation of this kind of action shall include the information
18 outlined below:
19
 - 20 a. The names, addresses, telephone numbers of DBEs who were
21 contacted, the dates of initial contact, and whether initial solicitations
22 of interest were followed-up by contacting the DBEs to determine
23 with certainty whether the DBEs were interested;
24
 - 25 b. A description of the information provided to the DBEs regarding the
26 plans, specifications, and estimated quantities for portions of the
27 Work to be performed;
28
 - 29 c. Documentation of each DBE contacted but rejected and the reason(s)
30 for that rejection;
31
- 32 7. Providing, to interested DBEs, adequate information about the plans,
33 specifications, and requirements for the selected subcontracting or
34 material supply Work;
35
- 36 8. Negotiating in good faith with the DBE firms, and not, without justifiable
37 reason, rejecting as unsatisfactory, Bids that are prepared by any DBE.
38 The DBE's standing within its industry, membership in specific groups,
39 organizations, or associations and political or social affiliations - union
40 vs. non-union employee status - are not legitimate causes for the rejection
41 or non-solicitation of bids in the Prime Contractor's efforts to meet the
42 project goal;
43
- 44 9. Advertising and making efforts to obtain DBE participation that were
45 reasonably expected to produce a level of participation sufficient to meet
46 the goal or requirements of the Contracting Agency;

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10. Making any other efforts to obtain DBE participation that were reasonably expected to produce a level of participation sufficient to meet the goal or requirements of the Contracting Agency;
11. Using the services of minority community organizations, minority contractor groups, local, State, and federal minority business assistance offices and other organizations identified by WSDOT and advocates for disadvantaged, minority, and women businesses that provide assistance in the recruitment and placement of disadvantaged, minority, and women business enterprises; and
12. Using the WSDOT OEO DBE Supportive Services to assist you. For more information please contact the OEO by calling toll free at (888) 259-9143 or emailing dbess@wsdot.wa.gov.

Administrative Reconsideration of GFE Documentation

Any Bidder has the right to reconsideration but only for the purpose of reassessing their GFE documentation that was determined to be inadequate.

- The Bidder must request and schedule a reconsideration hearing within seven calendar days of notification of being nonresponsive or forfeit the right to reconsideration.
- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five business days of the hearing explaining the basis for their finding.

Procedures between Award and Execution

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

1. Additional information for all successful DBE's as shown on the Disadvantaged Business Enterprise Utilization Certification:
 - a. Correct business name, federal employee identification number (if available), and mailing address.

- 1 b. List of all Bid items assigned to each successful DBE firm, including
2 unit prices and extensions.
3
4 c. Description of partial items (if any) to be sublet to each successful
5 DBE firm specifying the distinct elements of Work under each item
6 to be performed by the DBE and including the dollar value of the
7 DBE portion.
8

9 Total amounts shown for each DBE shall not be less than the amount
10 shown on the Disadvantaged Business Enterprise Utilization
11 Certification. A breakdown that does not conform to the
12 Disadvantaged Business Enterprise Utilization Certification or that
13 demonstrates a lesser amount of DBE participation than that included
14 in the Disadvantaged Business Enterprise Utilization Certification
15 will be returned for correction.
16

- 17 2. A list of all firms who submitted a Bid or quote in an attempt to
18 participate in this project whether they were successful or not. Include
19 the business name and a mailing address.
20

21 Note: The firms identified by the Prime Contractor may be contacted by the
22 Contracting Agency to solicit general information as follows: age of the
23 firm and average of its gross annual receipts over the past three-years.
24

25 **Procedures after Execution**

26 **Crediting DBE Participation toward Meeting the Goal**

27 **Reporting**

28 All DBE work whether COA or race neutral participation is reported. The
29 Prime Contractor shall submit a Quarterly Report of Amounts Credited as
30 DBE Participation form (422-102 EF) on a quarterly basis for any
31 calendar quarter in which DBE has accomplished Work or upon
32 completion of the project, as appropriate. The dollars are to be reported
33 as specified herein.
34

35 In the event that the payments to a DBE have been made by an entity
36 other than the Prime Contractor, as in the case of a lower-tier
37 Subcontractor or supplier, then the Prime Contractor shall obtain the
38 quarterly report, including the signed affidavit, from the paying entity and
39 submit the report to the Contracting Agency.
40

41 **Changes in DBE COA participation**

42 **Owner initiated Change Orders**

43 The Prime Contractor shall demonstrate a GFE to substitute COA DBE
44 participation when the Contracting Agency deletes Work items by change
45 order that impact a COA DBE's Work.
46

1 When the Contract allows alternate Work methods which serve to delete or
2 create under-runs in COA DBE Work then the Prime Contractor must provide
3 documentation of negotiating the change with the DBE that was to perform the
4 reduced Work and demonstrate a GFE to substitute other DBE COA
5 participation.
6

7 **Original Quantity Under runs**

8 In the event that Work committed to a DBE firm as part of the COA under
9 runs the original planned quantities the Prime Contractor shall demonstrate a
10 GFE to substitute other DBE COA participation.
11

12 **Contractor-Initiated Proposals—General**

13 The Contractor cannot reduce the amount of work committed to a DBE firm at
14 contract award without good cause and only with written concurrence from the
15 OEO. Reducing a COA DBE's Work is viewed as a partial DBE termination,
16 subject to the procedures below.
17

18 **DBE Termination**

19 A COA DBE Subcontractor may only be terminated in whole or part with the
20 approval of the Contracting Agency (in coordination with OEO). Approval
21 will be granted provided the Prime Contractor demonstrates that the
22 termination is based on good cause.
23

24 Good cause typically includes situations where the DBE Subcontractor is
25 unable or has failed to perform the work of its subcontract in accordance with
26 normal industry standards. While not all inclusive, some examples of good
27 cause include the following circumstances:
28

29 Good cause may exist if:

- 30
- 31 • The listed DBE Subcontractor fails or refuses to execute a written
32 contract.
 - 33
 - 34 • The listed DBE Subcontractor fails or refuses to perform the work
35 of its subcontract in a way consistent with normal industry
36 standards.
 - 37
 - 38 • The listed DBE Subcontractor fails or refuses to meet the Prime
39 Contractor's reasonable, nondiscriminatory bond requirements.
40
 - 41 • The listed DBE Subcontractor becomes bankrupt, insolvent, or
42 exhibits credit unworthiness.
 - 43
 - 44 • The listed DBE Subcontractor is ineligible to work on public
45 works projects because of suspension and debarment proceedings
46 pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
47

- 1 • The listed DBE Subcontractor voluntarily withdraws from the
- 2 project and provides to you written notice of its withdrawal.
- 3
- 4 • The listed DBE is ineligible to receive DBE credit for the type of
- 5 work required.
- 6
- 7 • A DBE owner dies or becomes disabled with the result that the
- 8 listed DBE is unable to complete its work on the contract.
- 9

10 Good cause does not exist if:

- 11
- 12 • The Prime Contractor seeks to terminate a COA DBE so that the
- 13 Prime can self-perform the Work.
- 14
- 15 • The Prime Contractor seeks to terminate a COA DBE so the Prime
- 16 Contractor can substitute another DBE or non-DBE after contract
- 17 award.
- 18
- 19 • The failure or refusal of the DBE Subcontractor to perform its
- 20 work on the subcontract results from the bad faith or
- 21 discriminatory action of the Prime Contractor (e.g., the failure of
- 22 the Prime Contractor to make timely payments or the unnecessary
- 23 placing of obstacles in the path of the DBE's Work).
- 24

25 Prior to requesting termination, the Prime Contractor must give notice in
 26 writing to the DBE Subcontractor with a copy to the Contracting Agency of its
 27 intent to request to terminate DBE work and the reasons for doing so. The
 28 DBE Subcontractor shall have five (5) days to respond to the prime
 29 Contractor's notice. The DBE's response shall either support the termination
 30 or advise the Contracting Agency and the Prime Contractor of the reasons it
 31 objects to the termination of its subcontract.
 32

33 When a COA DBE firm is "terminated" from a Contract (or fails to complete
 34 its Subcontract for any reason), the Prime Contractor shall make every good
 35 faith effort to substitute another DBE Firm (ref.to 49 CFR 26.53(g)).
 36

37 **Graduation**

38 When a DBE firm "graduates" from the DBE program (during the course of
 39 an executed subcontract), the DBE participation of that firm "may" continue to
 40 count towards the contract DBE goal.
 41

42 **Decertification**

43 When a COA DBE firm who has a signed subcontract in place with a Prime,
 44 later becomes "decertified" (during the course of that subcontract) – the DBE
 45 participation of that firm "may" continue to count towards the Contract DBE
 46 goal.

1 **Counting payments**

2 Payments to a DBE firm will count toward DBE goals only if the participation
3 is in accordance with these specifications.
4

5 **Prompt Payment**

6 Prompt payment to all Subcontractors shall be in accordance with Section 1-
7 08.1(1) of these Contract special provisions.
8

9 **Payment**

10 Compensation for all costs involved with complying with the conditions of
11 this specification and any other associated DBE requirements is included in
12 payment for the associated Contract items of Work.
13

14 **Damages for Noncompliance**

15 The Prime Contractor shall not discriminate on the basis of race, color,
16 national origin, or sex in the performance of this Contract. The Prime
17 Contractor shall carry out applicable requirements of 49 CFR Part 26 in the
18 award and administration of Contracts, which contain funding assistance from
19 the United States Department of Transportation. Failure by the Prime
20 Contractor to carry out these requirements is a material breach of this
21 Contract, which may result in the Termination of this Contract or such other
22 remedy as the Contracting Agency deems appropriate.
23

24 If the Prime Contractor does not comply with any part of its Contract as
25 required under 49 CFR part 26, and/or any other applicable law or regulation
26 regarding DBE, the Contracting Agency may withhold payment, suspend the
27 ability of the Prime Contractor to participate in future Contracting Agency
28 contracts, impose sanctions or Terminate the Contract, and subject the Prime
29 Contractor to civil penalties of up to ten percent of the amount of the Contract
30 for each violation. In the case of WSDOT Contracts, prequalification may be
31 suspended pursuant to WAC 468-16-180, and continuous violations
32 (exceeding a single violation) may also disqualify the Prime Contractor from
33 further participation in WSDOT Contracts for a period of up to three years.
34

35 An apparent low Bidder must be in compliance with these Contract Provisions
36 as a condition precedent to the granting of a notice of award by the
37 Contracting Agency. The Prime Contractor is entitled to request an
38 adjudicative proceeding with respect to the Contracting Agency's
39 determination of Contract violation and assessed penalties by filing a written
40 application within thirty days of receipt of notification. The adjudicative
41 proceeding, if requested, will be conducted by an administrative law judge
42 pursuant to the procedures set forth in RCW 34.05 and Chapter 10.08 of the
43 Washington Administrative Code.
44
45
46
47

1 **1-07.12 Federal Agency Inspection**

2
3 Section 1-07.12 is supplemented with the following:

4
5 *(July 30, 2012, WSDOT GSP)*

6 ***Required Federal Aid Provisions***

7 The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273)
8 Revised May 1, 2012 supersede any conflicting provisions of the Standard Specifications
9 and are made a part of this Contract; provided, however, that if any of the provisions of
10 FHWA 1273 are less restrictive than Washington State Law, then the Washington State Law
11 shall prevail.

12
13 The provisions of FHWA 1273 included in this Contract require that the Contractor insert
14 the FHWA 1273 in each Subcontract, together with the wage rates which are part of the
15 FHWA 1273. Also, a clause shall be included in each Subcontract requiring the
16 Subcontractors to insert the FHWA 1273 thereto in any lower tier Subcontracts, together
17 with the wage rates. The Contractor shall also ensure that this section, REQUIRED
18 FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and
19 lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the
20 Contractor will be provided with extra copies of the FHWA 1273, the applicable wage rates,
21 and this Special Provision.

22
23 **1-07.13 Contractor's Responsibility for Work**

24
25 ***1-07.13(4) Repair of Damage***

26
27 Section 1-07.13(4) is revised to read:

28
29 *(August 6, 2001, WSDOT GSP)*

30 The Contractor shall promptly repair all damage to either temporary or permanent work as
31 directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-
32 07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment
33 will be limited to repair of damaged work only. No payment will be made for delay or
34 disruption of work.

35
36 **1-07.15 Temporary Water Pollution/Erosion Control**

37 *(February 1, 2008 R&E GSP)*

38
39 Section 1-07.15 is supplemented with the following:

40
41 Erosion Control shall include but not be limited to preventing storm water which has come in
42 contact with disturbed or excavated areas from entering the storm drainage system. The
43 contractor will not allow flow from existing ditches or ground water to come in contact with
44 disturbed or excavated areas. The contractor shall be required to take any means necessary to
45 prevent, control and stop water pollution or erosion within the project as shown on the Plans.

1 **1-07.17 Utilities and Similar Facilities**

2
3 Section 1-07.17 is supplemented with the following:

4
5 *(April 2, 2007 WSDOT GSP)*

6 Locations and dimensions shown in the Plans for existing facilities are in accordance with
7 available information obtained without uncovering, measuring, or other verification.

8
9 The following addresses and telephone numbers of utility companies known or suspected of
10 having facilities within the project limits are supplied for the Contractor's convenience:

11
12 Puget Sound Energy, 1329 State Street, Bellingham, WA 98225
13 Jane Major, (360) 766-5571

14
15 Frontier Communications, 595 Pease Road, Burlington, WA 98233
16 Chris Tuttle, (360) 757-2119

17
18 Comcast Cable, 400 Sequoia Drive, Bellingham, WA 98226
19 Bill Inama 360 527-8241

20
21 Cascade Natural Gas, 1910 Racine Street, Bellingham, WA 98229
22 Brandon Haugnes, (360) 927-7415

23
24 Black Rock Cable, Inc., 3229 Northshore Rd., Bellingham, WA 98226
25 Randy Wilson, (360) 734-7930

26
27 City of Ferndale Public Works, 2095 Main Street, Ferndale, WA 98248
28 Bo Westford, 360-384-4006

29
30 **1-07.18 Public Liability and Property Damage Insurance**

31
32 Delete this section in its entirety, and replace it with the following:

33
34 **1-07.18 Insurance**

35 *(January 24, 2011 APWA GSP)*

36
37 **1-07.18(1) General Requirements**

38 A. The Contractor shall obtain the insurance described in this section from insurers approved by
39 the State Insurance Commissioner pursuant to RCW Title 48. The insurance must be
40 provided by an insurer with a rating of A-: VII or higher in the A.M. Best's Key Rating
41 Guide, which is licensed to do business in the state of Washington (or issued as a surplus line
42 by a Washington Surplus lines broker). The Contracting Agency reserves the right to
43 approve or reject the insurance provided, based on the insurer (including financial condition),
44 terms and coverage, the Certificate of Insurance, and/or endorsements.

- 1 B. The Contractor shall keep this insurance in force during the term of the contract and for thirty
2 (30) days after the Physical Completion date, unless otherwise indicated (see C. below).
3
- 4 C. If any insurance policy is written on a claims made form, its retroactive date, and that of all
5 subsequent renewals, shall be no later than the effective date of this Contract. The policy
6 shall state that coverage is claims made, and state the retroactive date. Claims-made form
7 coverage shall be maintained by the Contractor for a minimum of 36 months following the
8 Final Completion or earlier termination of this contract, and the Contractor shall annually
9 provide the Contracting Agency with proof of renewal. If renewal of the claims made form
10 of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase
11 an extended reporting period (“tail”) or execute another form of guarantee acceptable to the
12 Contracting Agency to assure financial responsibility for liability for services performed.
13
- 14 D. The insurance policies shall contain a “cross liability” provision.
15
- 16 E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-
17 contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or
18 insurance pool coverage.
19
- 20 F. The Contractor shall provide the Contracting Agency and all Additional Insureds with
21 written notice of any policy cancellation, within two business days of their receipt of such
22 notice.
23
- 24 G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified
25 copy of the insurance policy(s).
26
- 27 H. The Contractor shall not begin work under the contract until the required insurance has been
28 obtained and approved by the Contracting Agency.
29
- 30 I. Failure on the part of the Contractor to maintain the insurance as required shall constitute a
31 material breach of contract, upon which the Contracting Agency may, after giving five
32 business days notice to the Contractor to correct the breach, immediately terminate the
33 contract or, at its discretion, procure or renew such insurance and pay any and all premiums
34 in connection therewith, with any sums so expended to be repaid to the Contracting Agency
35 on demand, or at the sole discretion of the Contracting Agency, offset against funds due the
36 Contractor from the Contracting Agency.
37
- 38 J. All costs for insurance shall be incidental to and included in the unit or lump sum prices of
39 the contract and no additional payment will be made.
40

41 **1-07.18(2) Additional Insured**

42 All insurance policies, with the exception of Professional Liability and Workers Compensation,
43 shall name the following listed entities as additional insured(s):

- 44 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and
45 volunteers

1 The above-listed entities shall be additional insured(s) for the full available limits of liability
2 maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective of
3 whether such limits maintained by the Contractor are greater than those required by this
4 Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor
5 pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.
6

7 **1-07.18(3) Subcontractors**

8 Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum
9 the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting
10 Agency, the Contractor shall provide evidence of such insurance.
11

12 **1-07.18(4) Evidence of Insurance**

13 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
14 endorsements for each policy of insurance meeting the requirements set forth herein when the
15 Contractor delivers the signed Contract for the work. The certificate and endorsements must
16 conform to the following requirements:

- 17 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
- 18 2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-
19 07.18(2) as Additional Insured(s), showing the policy number. The Contractor may submit a
20 copy of any blanket additional insured clause from its policies instead of a separate
21 endorsement. A statement of additional insured status on an ACORD Certificate of
22 Insurance shall not satisfy this requirement.
- 23 3. Any other amendatory endorsements to show the coverage required herein.
24

25 **1-07.18(5) Coverages and Limits**

26 The insurance shall provide the minimum coverages and limits set forth below. Providing
27 coverage in these stated minimum limits shall not be construed to relieve the Contractor from
28 liability in excess of such limits. All deductibles and self-insured retentions must be disclosed
29 and are subject to approval by the Contracting Agency. The cost of any claim payments falling
30 within the deductible shall be the responsibility of the Contractor.
31

32 **1-07.18(5)A Commercial General Liability**

33 A policy of Commercial General Liability Insurance, including:

- 34 Per project aggregate
- 35 Premises/Operations Liability
- 36 Products/Completed Operations – for a period of one year following final acceptance of the
37 work.
- 38 Personal/Advertising Injury
- 39 Contractual Liability
- 40 Independent Contractors Liability
- 41 Stop Gap / Employers' Liability
- 42 Explosion, Collapse, or Underground Property Damage (XCU)
- 43 Blasting (only required when the Contractor's work under this Contract includes exposures to
44 which this specified coverage responds)

1 Such policy must provide the following minimum limits:
2 \$1,000,000 Each Occurrence
3 \$2,000,000 General Aggregate
4 \$1,000,000 Products & Completed Operations Aggregate
5 \$1,000,000 Personal & Advertising Injury, each offence

6
7 Stop Gap / Employers' Liability
8 \$1,000,000 Each Accident
9 \$1,000,000 Disease - Policy Limit
10 \$1,000,000 Disease - Each Employee

11
12 **1-07.18(5)B Automobile Liability**

13
14 Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90
15 endorsement and a CA 9948 endorsement attached if "pollutants" are to be transported. Such
16 policy(ies) must provide the following minimum limit:

17
18 \$1,000,000 combined single limit

19
20 **1-07.18(5)C Workers' Compensation**

21 The Contractor shall comply with Workers' Compensation coverage as required by the Industrial
22 Insurance laws of the state of Washington.

23
24 **1-07.23 Public Convenience and Safety**

25
26 **1-07.23(1) Construction Under Traffic**

27 *(January 2, 2012 WSDOT GSP)*

28
29 Section 1-07.23(1) is supplemented with the following:

30
31 **Work Zone Clear Zone**

32 The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The
33 WZCZ applies only to temporary roadside objects introduced by the Contractor's
34 operations and does not apply to preexisting conditions or permanent Work. Those work
35 operations that are actively in progress shall be in accordance with adopted and
36 approved Traffic Control Plans, and other contract requirements.

37
38 During nonworking hours equipment or materials shall not be within the WZCZ unless
39 they are protected by permanent guardrail or temporary concrete barrier. The use of
40 temporary concrete barrier shall be permitted only if the Engineer approves the
41 installation and location.

42
43 During actual hours of work, unless protected as described above, only materials
44 absolutely necessary to construction shall be within the WZCZ and only construction
45 vehicles absolutely necessary to construction shall be allowed within the WZCZ or
46 allowed to stop or park on the shoulder of the roadway.

1 The Contractor's nonessential vehicles and employees private vehicles shall not be
2 permitted to park within the WZCZ at any time unless protected as described above.

3
4 Deviation from the above requirements shall not occur unless the Contractor has
5 requested the deviation in writing and the Engineer has provided written approval.

6
7 Minimum WZCZ distances are measured from the edge of traveled way and will be
8 determined as follows:
9

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

10
11
12
13
14 *(December 8, 2008 R&E GSP)*

15 Section 1-07.23(1) is supplemented with the following:

16
17 Construction vehicles using a closed traffic lane shall travel only in the normal direction of
18 traffic flow unless expressly allowed in an approved traffic control plan. Construction
19 vehicles shall be equipped with flashing or rotating amber lights.

20
21 Work over an open lane of traffic will not be allowed, unless a plan for the protection of the
22 traveling public from objects falling onto the traveled way is approved by the Engineer. This
23 protection shall remain in place during construction and meet minimum vertical clearance for
24 the highway.

Controlled Access

25
26 No special access or egress will be allowed the Contractor other than normal legal
27 movements or as shown in the plans.

Pedestrian Access

28
29 The Contractor shall keep all pedestrian routes and access point (including sidewalks and
30 crosswalks when located within the project limits) open and clear at all times unless
31 permitted otherwise by the Engineer in an approved traffic control plan.

Signs and Traffic Control Devices

32
33 All signs and traffic control devices for the permitted closures shall only be installed during
34 the hours specified on the plans. Construction signs, if placed earlier than the specified hours
35 of closure, shall be turned or covered so as not to be visible to motorists.
36
37
38
39

1 **Hours of Darkness**

2 The Contractor shall, at no additional cost to the Contracting Agency, make all arrangements
3 for operations during hours of darkness. A portable illumination system, which will
4 adequately illuminate the entire work area shall be provided. Flagger stations and advance
5 warning signs shall be illuminated with a minimum **150-watt** floodlight and to the
6 satisfaction of the Engineer. Flares are for emergency use and are not considered a proper
7 method of illumination.

8
9 **Hour Adjustment**

10 If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer
11 may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any
12 change in the closures hours.

13
14 **Advance Notification**

15 The Contractor shall be responsible for notifying private property owners, or tenants, five (5)
16 working days in advance of scheduled interruptions of access to private roads or driveways.
17 The Contractor shall notify the Engineer three (3) working days in advance of scheduled
18 interruptions of access to private road or driveways. The Contractor shall only interrupt
19 access to one half of any private road or driveway. The Contractor shall notify private
20 property owners, or tenants, by having a representative of the Contractor personally contact
21 the private property owner or tenant. If the property owner or tenant is not available, the
22 Contractor shall leave a door hanger notice indicating the commencement date of work,
23 duration of work, the type of work being done, and the Contractor's and Engineer's phone
24 number and address for questions and concerns. The Engineer shall be provided adequate
25 time to review, comment, and approve the door hanger notice prior to the Contractor placing
26 any notices. Access shall be restored as soon as possible, but not later than the end of each
27 working day. Any exception will only be allowed with the approval of the private property
28 owner, or tenant, and the Engineer. All costs involved with public notification shall be
29 incidental to the various bid items.

30
31 The Contractor shall notify the Engineer in writing 5 working days in advance of any lane
32 closure, sidewalk closure, or both.

33
34 **Public Notification**

35 The Contractor shall notify the local fire, police, emergency service, and city engineering
36 departments; transit companies; and the affected school district(s) in writing a minimum of 5
37 working days prior to each closure. The Contractor shall furnish copies of these notifications
38 to the Engineer.

39
40 **1-07.24 Rights of Way**

41 *(October 1, 2005 APWA GSP)*

42
43 Delete this section in its entirety, and replace it with the following:

44
45 Street right of way lines, limits of easements, and limits of construction permits are indicated
46 in the Plans. The Contractor's construction activities shall be confined within these limits,
47 unless arrangements for use of private property are made.

1 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way
2 and easements, both permanent and temporary, necessary for carrying out the work.
3 Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's
4 attention by a duly issued Addendum.
5

6 Whenever any of the work is accomplished on or through property other than public right of
7 way, the Contractor shall meet and fulfill all covenants and stipulations of any easement
8 agreement obtained by the Contracting Agency from the owner of the private property.
9 Copies of the easement agreements may be included in the Contract Provisions or made
10 available to the Contractor as soon as practical after they have been obtained by the Engineer.
11

12 Whenever easements or rights of entry have not been acquired prior to advertising, these
13 areas are so noted in the Plans. The Contractor shall not proceed with any portion of the
14 work in areas where right of way, easements or rights of entry have not been acquired until
15 the Engineer certifies to the Contractor that the right of way or easement is available or that
16 the right of entry has been received. If the Contractor is delayed due to acts of omission on
17 the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the
18 Contractor will be entitled to an extension of time. The Contractor agrees that such delay
19 shall not be a breach of contract.
20

21 Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
22 includes entry onto easements and private property where private improvements must be
23 adjusted.
24

25 The Contractor shall be responsible for providing, without expense or liability to the
26 Contracting Agency, any additional land and access thereto that the Contractor may desire
27 for temporary construction facilities, storage of materials, or other Contractor needs.
28 However, before using any private property, whether adjoining the work or not, the
29 Contractor shall file with the Engineer a written permission of the private property owner,
30 and, upon vacating the premises, a written release from the property owner of each property
31 disturbed or otherwise interfered with by reasons of construction pursued under this contract.
32 The statement shall be signed by the private property owner, or proper authority acting for
33 the owner of the private property affected, stating that permission has been granted to use the
34 property and all necessary permits have been obtained or, in the case of a release, that the
35 restoration of the property has been satisfactorily accomplished. The statement shall include
36 the parcel number, address, and date of signature. Written releases must be filed with the
37 Engineer before the Completion Date will be established.
38

39 **1-07.26 Personal Liability of Public Officers**

40 This section is revised to read:

41
42 *(February 1, 2008 R&E GSP)*

43 Neither the Mayor, Contracting Agency City Council Members, employees of the
44 Contracting Agency, or the Engineer shall be personally liable for any acts or failure to act in
45 connection with the Contract, it being understood that in such matters, they are acting solely
46 as agents of the Contracting Agency.

1 **1-08 PROSECUTION AND PROGRESS**

2
3 Add the following new section:

4
5 **1-08.0 Preliminary Matters**

6 *(May 25, 2006 APWA GSP)*

7
8 Add the following new section:

9
10 **1-08.0(1) Preconstruction Conference**

11 *(October 10, 2008 APWA GSP)*

12
13 Prior to the Contractor beginning the work, a preconstruction conference will be held
14 between the Contractor, the Engineer and such other interested parties as may be invited.

15 The purpose of the preconstruction conference will be:

- 16 1. To review the initial progress schedule;
- 17 2. To establish a working understanding among the various parties associated or
18 affected by the work;
- 19 3. To establish and review procedures for progress payment, notifications,
20 approvals, submittals, etc.;
- 21 4. To establish normal working hours for the work;
- 22 5. To review safety standards and traffic control; and
- 23 6. To discuss such other related items as may be pertinent to the work.
24

25 The Contractor shall prepare and submit at the preconstruction conference the following:

- 26 1. A breakdown of all lump sum items;
- 27 2. A preliminary schedule of working drawing submittals; and
- 28 3. A list of material sources for approval if applicable.
29

30 Add the following new section:

31
32 **1-08.0(2) Hours of Work**

33 *(March 8, 2013 APWA GSP)*

34
35 Except in the case of emergency or unless otherwise approved by the Contracting Agency,
36 the normal straight time working hours for the Contract shall be any consecutive 8-hour
37 period between 7:00 a.m. and 6:00 p.m. of a working day with a maximum 1-hour lunch
38 break and a 5-day work week. The normal straight time 8-hour working period for the
39 Contract shall be established at the preconstruction conference or prior to the Contractor
40 commencing the work.

41
42 Written permission from the Engineer is required, if a Contractor desires to perform work on
43 holidays, Saturdays, or Sundays; before 7:00 a.m. or after 6:00 p.m. on any day; or longer
44 than an 8-hour period on any day. The Contractor shall apply in writing to the Engineer for

1 such permission, no later than noon on the working day prior to the day for which the
2 Contractor is requesting permission to work.
3

4 Permission to work between the hours of 10:00 p.m. and 7:00 a.m. during weekdays and
5 between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject
6 to noise control requirements. Approval to continue work during these hours may be
7 revoked at any time the Contractor exceeds the Contracting Agency's noise control
8 regulations or complaints are received from the public or adjoining property owners
9 regarding the noise from the Contractor's operations. The Contractor shall have no claim for
10 damages or delays should such permission be revoked for these reasons.
11

12 Permission to work Saturdays, Sundays, holidays, or other than the agreed upon normal
13 straight time working hours Monday through Friday may be given subject to certain other
14 conditions set forth by the Contracting Agency or Engineer. These conditions may include
15 but are not limited to:

- 16 • The Engineer may require designated representatives to be present during the work.
17 Representatives who may be deemed necessary by the Engineer include, but are not
18 limited to: survey crews; personnel from the Contracting Agency's material testing
19 lab; inspectors; and other Contracting Agency employees when in the opinion of the
20 Engineer, such work necessitates their presence.
- 21 • On non-Federal aid projects, requiring the Contractor to reimburse the Contracting
22 Agency for the costs in excess of straight-time costs for Contracting Agency
23 representatives who worked during such times.
- 24 • Considering the work performed on Saturdays, Sundays, and holidays as working
25 days with regard to the contract time.
- 26 • Considering multiple work shifts as multiple working days with respect to contract
27 time, even though the multiple shifts occur in a single 24-hour period.

28 29 **1-08.1 Subcontracting**

30
31 Section 1-08.1 is supplemented with the following:
32

33 *(October 12, 1998 WSDOT GSP).*

34 Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall
35 submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement
36 between the Contractor and the subcontractor or between the subcontractor and any lower
37 tier subcontractor has been executed. This certification shall also guarantee that these
38 subcontract agreements include all the documents required by the Special Provision **Federal**
39 **Agency Inspection.**
40

41 A Subcontractor or lower tier Subcontractor will not be permitted to perform any work
42 under the contract until the following documents have been completed and submitted to the
43 Engineer:
44

- 45 1. Request to Sublet Work (Form 421-012), and

- 1 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for
2 Federal-aid Projects (Form 420-004).

3
4 The Contractor's records pertaining to the requirements of this Special Provision shall be
5 open to inspection or audit by representatives of the Contracting Agency during the life of
6 the contract and for a period of not less than three years after the date of acceptance of the
7 contract. The Contractor shall retain these records for that period. The Contractor shall also
8 guarantee that these records of all Subcontractors and lower tier Subcontractors shall be
9 available and open to similar inspection or audit for the same time period.

10
11 **1-08.1(1) Subcontract Completion and Return of Retainage Withheld**

12
13 Section 1-08.1(1) is revised to read:

14
15 (June 27, 2011)

16 The following procedures shall apply to all subcontracts entered into as a part of this Contract:

17
18 **Requirements**

- 19 1. The Prime Contractor or Subcontractor shall make payment to the Subcontractor
20 not later than ten (10) days after receipt of payment from the Contracting Agency
21 for work satisfactorily completed by the Subcontractor, to the extent of each
22 Subcontractor's interest therein.
23 2. Prompt and full payment of retainage from the Prime Contractor to the
24 Subcontractor shall be made within 30 days after Subcontractor's Work is
25 satisfactorily completed.
26
27 3. For purposes of this Section, a Subcontractor's work is satisfactorily completed
28 when all task and requirements of the Subcontract have been accomplished and
29 including any required documentation and material testing .
30 4. Failure by a Prime Contractor or Subcontractor to comply with these requirements
31 may result in one or more of the following:
32
33 a. Withholding of payments until the Prime Contractor or Subcontractor
34 complies
35
36 b. Failure to comply shall be reflected in the Prime Contractor's Performance
37 Evaluation
38
39 c. Cancellation, Termination, or Suspension of the Contract, in whole or in part
40
41 d. Other sanctions as provided by the subcontractor or by law under applicable
42 prompt pay statutes.

43
44 **Conditions**

45 This clause does not create a contractual relationship between the Contracting Agency
46 and any Subcontractor as stated in Section 1-08.1. Also, it is not intended to bestow

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upon any Subcontractor, the status of a third-party beneficiary to the Contract between the Contracting Agency and the Contractor.

Payment

The Contractor will be solely responsible for any additional costs involved in paying retainage to the Subcontractors. Those costs shall be incidental to the respective Bid Items.

1 **1-08.3 Progress Schedule**

2
3 **1-08.3(2)A Type A Progress Schedule**

4 *(March 13, 2012 APWA GSP)*

5
6 Revise this section to read:

7
8 The Contractor shall submit ~~\$\$\$~~ copies of a Type A Progress Schedule no later than at the
9 preconstruction conference, or some other mutually agreed upon submittal time. The
10 schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule
11 format. Regardless of which format used, the schedule shall identify the critical path. The
12 Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for
13 corrections within 15 calendar days of receiving the submittal.

14
15 **1-08.4 Prosecution of Work**

16
17 Delete this section in its entirety, and replace it with the following:

18
19 **1-08.4 Notice to Proceed and Prosecution of Work**

20 *(June 27, 2011 APWA GSP)*

21
22 Notice to Proceed will be given after the contract has been executed and the contract bond
23 and evidence of insurance have been approved and filed by the Contracting Agency. The
24 Contractor shall not commence with the work until the Notice to Proceed has been given by
25 the Engineer. The Contractor shall commence construction activities on the project site
26 within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The
27 Contractor shall diligently pursue the work to the physical completion date within the time
28 specified in the contract. Voluntary shutdown or slowing of operations by the Contractor
29 shall not relieve the Contractor of the responsibility to complete the work within the time(s)
30 specified in the contract.

31
32 When shown in the Plans, the first order of work shall be the installation of high visibility
33 fencing to delineate all areas for protection or restoration, as described in the Contract.
34 Installation of high visibility fencing adjacent to the roadway shall occur after the placement
35 of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon
36 construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No
37 other work shall be performed on the site until the Contracting Agency has accepted the
38 installation of high visibility fencing, as described in the Contract.

39
40 *(August 7, 2006)*

41 The Contractor shall begin work no earlier than *****May 5, 2014*****.

42
43 *(February 1, 2008 R&E GSP)*

44 Section 1-08.4 is supplemented with the following:

45
46 **Project Meetings**

47 The Engineer shall be responsible for preparation of agenda, preparation of minutes and

1 distribution of documentation. One set of the documentation will be sent to each
2 participant. All meetings will be held at on-site, unless otherwise agreed upon.

3
4 **Progress Meetings**

5 Regular Progress Meetings shall be schedule by the Engineer. Progress Meetings shall be
6 held weekly or as otherwise schedule by the Engineer.

7
8 The Progress Meeting agenda shall include, but not be limited to:

- 9 1. Review minutes of previous meeting, amend minutes if necessary, and accept
10 minutes.
- 11 2. Review unresolved questions and issues from previous Progress Meetings and
12 further consider those questions and issues.
- 13 3. Review new questions and issues regarding delays, coordination with other
14 agencies, changed conditions or work scope, interferences, utilities, and requests
15 for information (RFI's).
- 16 4. Review corrective measures to regain projected schedule
- 17 5. Review status of submittals, RFI's, change issues, as-built documentation, and
18 other correspondence.
- 19 6. Review effects of proposed changes on progress schedule and coordination
- 20 7. Contractor to present updated look-ahead / as-built schedule describing activities
21 to occur in the upcoming three weeks, and to document the as-built schedule for
22 work accomplished since the prior meeting. Contractor to present the updated
23 schedule at each regular weekly progress meeting.

24
25 **Coordination Meetings**

26 Coordination Meetings will commence after the NTP has been issued. The purpose of
27 the Coordination Meetings is to coordinate the Contractor's Work with the work being
28 done concurrently at the Site by others. Coordination meetings will be scheduled in
29 conjunction with progress meetings when appropriate.

30
31 **Additional Meetings**

32 Additional meetings will be scheduled as necessary for the completion of various
33 portions of the Work. Meetings will include pre-installation, pre-testing or other purpose
34 as required by the specifications, conditions on the jobsite, or as requested by the
35 Engineer or the project team.

36
37 All costs involved with the various meetings shall be incidental to the various bid items.

38
39 **1-08.5 Time for Completion**

40 *(March 13, 1995 WSDOT GSP)*

41 Section 1-08.5 is supplemented with the following:

42
43 This project shall be physically completed within 100 working days.
44

1 (August 14, 2013 APWA GSP, Option A)

2 Revise the third and fourth paragraphs to read:

3
4 Contract time shall begin on the first working day following the Notice to Proceed Date.

5
6 Each working day shall be charged to the contract as it occurs, until the contract work is
7 physically complete. If substantial completion has been granted and all the authorized
8 working days have been used, charging of working days will cease. Each week the Engineer
9 will provide the Contractor a statement that shows the number of working days: (1) charged
10 to the contract the week before; (2) specified for the physical completion of the contract; and
11 (3) remaining for the physical completion of the contract. The statement will also show the
12 nonworking days and any partial or whole day the Engineer declares as unworkable. Within
13 10 calendar days after the date of each statement, the Contractor shall file a written protest of
14 any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in
15 sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed.
16 By not filing such detailed protest in that period, the Contractor shall be deemed as having
17 accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4
18 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked
19 would ordinarily be charged as a working day then the fifth day of that week will be charged
20 as a working day whether or not the Contractor works on that day.

21
22 Revise the sixth paragraph to read:

23
24 The Engineer will give the Contractor written notice of the completion date of the contract
25 after all the Contractor's obligations under the contract have been performed by the
26 Contractor. The following events must occur before the Completion Date can be established:

- 27 1. The physical work on the project must be complete; and
28 2. The Contractor must furnish all documentation required by the contract and required by
29 law, to allow the Contracting Agency to process final acceptance of the contract. The
30 following documents must be received by the Project Engineer prior to establishing a
31 completion date:
- 32 a. Certified Payrolls (per Section 1-07.9(5)).
 - 33 b. Material Acceptance Certification Documents
 - 34 c. Quarterly Reports of Amounts Credited as DBE Participation, as required by the
35 Contract Provisions.
 - 36 d. Final Contract Voucher Certification
 - 37 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and
38 all Subcontractors
 - 39 f. Property owner releases per Section 1-07.24

40
41 **1-08.7 Maintenance During Suspension**

42 (*October 1, 2005 APWA GSP*)

43
44 Revise the second paragraph to read:

45
46 At no expense to the Contracting Agency, the Contractor shall provide through the

1 construction area a safe, smooth, and unobstructed roadway, sidewalk, and path for public
2 use during suspension (as required in Section 1-07.23 or the Special Provisions). This may
3 include a temporary road or detour.
4

5 **1-08.9 Liquidated Damages**

6 *(August 14, 2013 APWA GSP)*
7

8 Revise the fourth paragraph to read:
9

10 When the Contract Work has progressed to Substantial Completion as defined in the
11 Contract, the Engineer may determine that the work is Substantially Complete. The Engineer
12 will notify the Contractor in writing of the Substantial Completion Date. For overruns in
13 Contract time occurring after the date so established, the formula for liquidated damages
14 shown above will not apply. For overruns in Contract time occurring after the Substantial
15 Completion Date, liquidated damages shall be assessed on the basis of direct engineering and
16 related costs assignable to the project until the actual Physical Completion Date of all the
17 Contract Work. The Contractor shall complete the remaining Work as promptly as possible.
18 Upon request by the Project Engineer, the Contractor shall furnish a written schedule for
19 completing the physical Work on the Contract.
20

21 **1-09 MEASUREMENT AND PAYMENT**
22

23 **1-09.2(1) General Requirement for Weighing Equipment**

24 *(February 1, 2008 R&E GSP)*
25

26 Section 1-09.2(1) is supplemented with the following:
27

28 Truck certified weight tickets must be machine-printed with gross, tare and net weights.
29 Additional information required on each weight ticket: Truck Number, Driver's Name, Date,
30 Load Time and Date, Load Site, Unload Time and Date, Unload Site. No handwritten weight
31 tickets will be accepted.
32

33 At the Engineer's request, the Contractor shall provide the Engineer with a list of hauling
34 vehicles and the licensed legal or permitted gross weight for each vehicle.
35

36 **1-09.8 Payment For Material On Hand**

37 *(August 3, 2009 WSDOT GSP)*
38

39 The last paragraph of Section 1-09.8 is revised to read:
40

41 The Contracting Agency will not pay for material on hand when the invoice cost is less than
42 \$2,000. As materials are used in the work, credits equaling the partial payments for them
43 will be taken on future estimates. Each month, no later than the estimate due date, the
44 Contractor shall submit a letter to the Project Engineer that clearly states: 1) the amount
45 originally paid on the invoice (or other record of production cost) for the items on hand, 2)
46 the dollar amount of the material incorporated into each of the various work items for the

1 month, and 3) the amount that should be retained in material on hand items. If work is
2 performed on the items and the Contractor does not submit a letter, all of the previous
3 material on hand payment will be deducted on the estimate. Partial payment for materials
4 on hand shall not constitute acceptance. Any material will be rejected if found to be faulty
5 even if partial payment for it has been made.

6
7 **1-09.6 Force Account**

8 *(October 10, 2008 APWA GSP)*
9

10 Supplement this section with the following:

11
12 The Contracting Agency has estimated and included in the Proposal, dollar amounts for all
13 items to be paid per force account, only to provide a common proposal for Bidders. All such
14 dollar amounts are to become a part of Contractor's total bid. However, the Contracting
15 Agency does not warrant expressly or by implication, that the actual amount of work will
16 correspond with those estimates. Payment will be made on the basis of the amount of work
17 actually authorized by Engineer.
18

19 **1-09.9 Payments**

20 *(March 13, 2012 APWA GSP)*
21

22 Supplement this section with the following:

23
24 Lump sum item breakdowns are not required when the bid price for the lump sum item is less
25 than \$20,000.
26

27 Delete the first four paragraphs and replace them with the following:

28
29 The basis of payment will be the actual quantities of Work performed according to the
30 Contract and as specified for payment.
31

32 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
33 Preconstruction Conference, to enable the Project Engineer to determine the Work performed
34 on a monthly basis. A breakdown is not required for lump sum items that include a basis for
35 incremental payments as part of the respective Specification. Absent a lump sum
36 breakdown, the Project Engineer will make a determination based on information available.
37 The Project Engineer's determination of the cost of work shall be final.
38

39 Progress payments for completed work and material on hand will be based upon progress
40 estimates prepared by the Engineer. A progress estimate cutoff date will be established at the
41 preconstruction conference.
42

43 The initial progress estimate will be made not later than 30 days after the Contractor
44 commences the work, and successive progress estimates will be made every month thereafter
45 until the Completion Date. Progress estimates made during progress of the work are
46 tentative, and made only for the purpose of determining progress payments. The progress
47 estimates are subject to change at any time prior to the calculation of the final payment.

1
2 The value of the progress estimate will be the sum of the following:

- 3 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of
4 work completed multiplied by the unit price.
5 2. Lump Sum Items in the Bid Form — based on the approved Contractor’s lump sum
6 breakdown for that item, or absent such a breakdown, based on the Engineer’s
7 determination.
8 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or
9 other storage area approved by the Engineer.
10 4. Change Orders — entitlement for approved extra cost or completed extra work as
11 determined by the Engineer.
12

13 Progress payments will be made in accordance with the progress estimate less:

- 14 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
15 2. The amount of progress payments previously made; and
16 3. Funds withheld by the Contracting Agency for disbursement in accordance with the
17 Contract Documents.
18

19 Progress payments for work performed shall not be evidence of acceptable performance or an
20 admission by the Contracting Agency that any work has been satisfactorily completed. The
21 determination of payments under the contract will be final in accordance with Section 1-05.1.
22

23 **1-09.9 (1) Retainage**

24 *(June 27, 2011 WSDOT GSP)*
25

26 Section 1-09.9(1) including title is deleted and replaced with the following:
27

28 Vacant
29

30 **1-09.13 Claims Resolution**

31 **1-09.13(3)A Administration of Arbitration**

32 *(October 1, 2005 APWA GSP)*
33
34

35 Revise the third paragraph to read:
36

37 The Contracting Agency and the Contractor mutually agree to be bound by the decision of
38 the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the
39 Superior Court of the county in which the Contracting Agency’s headquarters are located.
40 The decision of the arbitrator and the specific basis for the decision shall be in writing. The
41 arbitrator shall use the contract as a basis for decisions.
42
43
44
45
46

1 **1-10 TEMPORARY TRAFFIC CONTROL**

2 **1-10.1(2) Description**

3 *(February 4, 2008 R&E GSP)*

4
5 Section 1-10.1 is supplemented with the following:

6
7 During grading operations, the elevation difference between the portion of the traveled way
8 open to traffic and the adjoining portion of roadway shall be tapered at 10:1 or greater to
9 allow cross traffic.

10
11 **1-10.2 Traffic Control Management**

12 *(February 4, 2008 R&E GSP)*

13
14 Section 1-10.2 is supplemented with the following:

15
16 Before beginning work on the project, the Contractor shall designate a Traffic Control
17 Supervisor. The Contractor shall provide the Engineer with a list of names and phone
18 numbers of not more than six supervisory employees that may be called for traffic control, as
19 needed, during working or non-working hours. The Contractor shall have at least one of
20 these employees available at any time.

21
22 If the Contractor's employees are not available in a timely manner to take care of emergency
23 traffic control work, Contracting Agency forces will perform this work on behalf of the
24 Contractor. If Contracting Agency forces provide emergency traffic control, the costs to the
25 Contracting Agency will be deducted from progress payments due the Contractor in
26 accordance with Section 1-10.1 of the Standard Specifications.

27
28 **1-10.2(1) General**

29 *(December 1, 2008 WSDOT GSP)*

30
31 Section 1-10.2(1) is supplemented with the following:

32
33 Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the
34 State of Washington. The Traffic Control Supervisor shall be certified by one of the
35 following:

36
37 The Northwest Laborers-Employers Training Trust
38 27055 Ohio Ave.
39 Kingston, WA 98346
40 (360) 297-3035

41
42 Evergreen Safety Council
43 401 Pontius Ave. N.
44 Seattle, WA 98109
45 1-800-521-0778 or
46 (206) 382-4090

1 The American Traffic Safety Services Association
2 15 Riverside Parkway, Suite 100
3 Fredericksburg, Virginia 22406-1022
4 Training Dept. Toll Free (877) 642-4637
5 Phone: (540) 368-1701
6

7 **1-10.2(2) Traffic Control Plans**

8 *(February 4, 2008 R&E GSP)*
9

10 Section 1-10.2(2) is supplemented with the following:
11

12 The Series K WSDOT Standard Plans are included in the contract documents as an appendix.
13 These standard plans and the Traffic Control Plans included in the Contract Documents shall
14 be considered as the project TCP's. The contractor may choose to submit alternate TCP's for
15 approval as outlined in this section.
16

17 Any modifications to existing plans or new traffic plans shall be submitted to the Engineer
18 for review and approval a minimum of five (5) working days prior to institution of the plan.
19

20 **1-10.3 Traffic Control Labor, Procedures and Devices**
21

22 **1-10.3(3) Traffic Control Devices**

23 *(February 4, 2008 R&E GSP)*
24

25 Section 1-10.3 is supplemented with the following:
26

27 As may be indicated in the Signing Plan or Traffic Control Plan, the Contractor may be
28 required to install signs, warning lights, or both, on barricades.
29

30 **1-10.4 Measurement**
31

32 **1-10.4(3) Reinstating Unit Items With Lump Sum Traffic Control**
33

34 Section 1-10.4(3) is supplemented with the following:
35

36 *(August 2, 2004 WSDOT GSP)*
37

38 The bid proposal contains the item "Project Temporary Traffic Control," lump sum and
39 the additional temporary traffic control items listed below. The provisions of Section 1-
40 10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.
41

42 "Flaggers and Spotters"

43 "Other Traffic Control Labor"

1 **DIVISION 2**
2 **EARTHWORK**

3
4 **2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP**

5
6 **2-01.1 Description**
7 *(February 4, 2008 R&E GSP)*

8
9 Section 2-01.1 is supplemented with the following:

10
11 This item also includes any clearing and grubbing necessary for the construction of
12 driveways and the reconstruction of intersecting roads shown on the plans.

13
14 Clearing and Grubbing work includes removal and disposal of topsoil to a depth of 6-inches
15 and trees as shown on the plans. In addition to natural materials, clearing and grubbing shall
16 also include removing and disposing of all refuse and any remaining structures, obstructions,
17 trees and/or tree stumps within the right-of-way excluding contiguous pavement or structures
18 identified under "Removal of Structures and Obstructions", as directed by the Engineer.

19
20 **2-01.2 Disposal of Useable Material and Debris**
21 *(February 4, 2008 R&E GSP)*

22
23 Section 2-01.2 is supplemented with the following:

24
25 Unless otherwise provided in the specifications, all material removed under this item shall
26 become the property of the Contractor.

27
28 **2-01.2(1) Disposal Method No. 1 - Open Burning**
29 *(February 4, 2008 R&E GSP)*

30
31 Section 2-01.2(1) is supplemented with the following:

32
33 Disposal method No. 1 shall not be permitted within the project limits.

34
35 **2-01.2(3) Disposal Method No. 3 - Chipping**
36 *(February 4, 2008 R&E GSP)*

37
38 Revise the fourth sentence to read:

39
40 "Unsold chips shall become the property of the Contractor and shall be removed from the
41 project limits."

1 **2-01.3 Construction Requirements**

2
3 **2-01.3(1) Clearing**

4 *(February 4, 2008 R&E GSP)*

5
6 Section 2-01.3(1) is supplemented with the following:

- 7
8 8. The Contractor shall clear all areas staked and flagged by the Engineer prior to the
9 placement of cut/fill stakes, offset stakes or grade hubs.
10 9. Tree trimming shall be sequenced so that overhanging limbs are removed prior to
11 commencing construction activities. Construction activities include equipment staging,
12 materials storage, and worker-vehicle parking.
13 10. When tree roots are encountered during construction activities, the Contractor shall
14 carefully expose all roots greater than 1 inch diameter, either by hand or gently with the
15 machine bucket, and then cut cleanly with lopper or saw. Pulling and wrenching of the
16 roots shall not be allowed.
17

18 **2-01.3(2) Grubbing**

19
20 Section 2-01.3(2) is supplemented with the following:

- 21
22 f. Stumps shall be removed except where doing so would damage water, sewer lines or
23 other utilities. Voids left by stump removal shall be backfilled with a granular material
24 and compacted in accordance with Section 2-03.3(14)C. All materials removed shall
25 become the property of the Contractor and shall be disposed of outside the project limits.
26 g. If equipment outriggers are placed between the proposed sidewalk and the trees, the
27 Contractor shall place plywood or large wood chips to spread out the weight of the
28 outriggers.
29

30 **2-01.5 Payment**

31 *(February 4, 2008 R&E GSP)*

32
33 Section 2-01.5 is supplemented with the following:

34
35 “Clearing and Grubbing,” lump sum. No additional payment shall be made for haul. Any
36 other clearing and grubbing not specifically identified as being paid for elsewhere will be
37 considered incidental to this bid item and no other payment shall be made.
38
39

1 **2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

2
3 **2-02.1 Description**

4 *(September 15, 2008 R&E GSP)*

5
6 Section 2-02.1 is supplemented with the following:

7
8 Also included will be existing asphalt concrete pavement, chip seal, cement concrete curbs,
9 gutter, sidewalk, driveways, retaining walls, culverts, ecology blocks, guardrail and posts,
10 plugging drainage pipes, landscaping structures, fire hydrants, fences, and other structures
11 necessary to complete the work indicated on the plans or as directed by the Engineer. The
12 work described in this section includes abandonment of Asbestos Cement (AC) water main
13 in accordance with applicable regulations. The AC water main is located as shown on the
14 Plans. It is anticipated that the Contractor may encounter this water main during excavation.
15 Equipment, labor, and materials necessary to perform the work as specified shall be
16 considered a portion of this work. All material shall be hauled offsite to a permitted,
17 Contractor provided disposal site in accordance with Section 2-03.3(7)C. No payment will
18 be made for haul.

19
20 **2-02.3 Construction Requirements**

21 *(February 4, 2008 R&E GSP)*

22
23 Section 2-02.3 is supplemented with the following:

24
25 **Utility Removal**

26 Cavities left by removal of features by other parties, i.e., utility poles or other obstructions,
27 shall be backfilled and compacted by the Contractor in accordance with Section 2-03.3(14)C.

28
29 **Use of Explosives**

30 Explosives shall not be used in the demolition.

31
32 **2-02.3(2) Removal of Bridges, Box Culverts, and other Drainage Structures**

33 *(August 4, 2009 R&E GSP)*

34 Section 2-02.3(2) is supplemented with the following:

35
36 **Removal of Existing Water Mains**

37 Where shown in the Plans or at other locations as determined by the Engineer, the Contractor
38 shall abandon asbestos cement (AC) water mains that conflict with the proposed
39 improvements. This item will require the Contractor to bury sections of this main, if
40 necessary, a minimum of 2 feet below subgrade.

41
42 Voids left by the water main abandonment shall be backfilled with a granular material and
43 compacted in accordance with Section 2-03.3(14)C.

44
45 All materials removed shall become the property of the Contractor and shall be disposed of
46 outside the project limits.

1 **Removal of Drainage Structures**

2 Where shown in the Plans, or at other locations as determined by the Engineer, the
3 Contractor shall remove catch basins and manholes regardless of the size or type. Each catch
4 basin and manhole shall be removed in its entirety. Prior to backfilling the resultant void, the
5 Contractor shall plug and abandon the existing pipe(s) with commercial concrete in
6 accordance with Section 7-08.3(4).

7
8 Voids left by catch basin removal shall be backfilled and compacted in accordance with
9 Section 2-03.3(14)C.

10
11 All materials removed shall become the property of the Contractor and shall be disposed of
12 outside the project limits.

13
14
15 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs and Gutters**
16 *(February 4, 2008 R&E GSP)*

17
18 Section 2-02.3(3) is supplemented with the following:

19 Delete Item 1. No on-site burial of pavement, sidewalks, curbs and gutters, is allowed.

20
21 Item 3 is supplemented with the following: “At locations where the existing concrete is to
22 remain, the horizontal sawcut line shall not vary more than 1/8 inch along the edge of a 10-
23 foot straightedge placed on the surface parallel to the horizontal sawcut line.”

24
25
26 **Removal of Asphalt Concrete Pavement**

27 The approximate thicknesses of the pavement are:

28 Refer to the “Geotechnical Engineering Reports” contained in the appendix.

29
30
31 **Removal of Cement Concrete Curb, Gutter and Sidewalk**

32 The Contractor shall use a sawcut to delineate the curb, gutter and sidewalk to be removed
33 from curb, gutter and sidewalk to remain. The Contractor shall take care to avoid damaging
34 adjacent curb, gutter and sidewalk to remain. Any damage caused to the curb, gutter and
35 sidewalk to remain, as a result of the Contractor’s operations, shall be repaired to the
36 satisfaction of the Engineer at no additional cost to the Contracting Agency.

37
38 **2-02.4 Measurement**

39 *(February 4, 2008 R&E GSP)*

40
41 Section 2-02.4 is supplemented with the following:

42
43 Work performed under the item “Abandonment of Asbestos Cement Water Main” shall be
44 measured in accordance with Section 1-09.6 Force Account.

1 Removal of drainage structures and manholes will be measured per each for each structure
2 removed.

3
4 Saw-cut ACP will be measured by the linear foot-inch along the line and slope of the cut
5 prior to sawcutting and as staked by the Engineer. Saw-cut, if used for the pavement repair,
6 shall not be measured.

7
8 Saw-cut PCC will be measured by the linear foot-inch along the line and slope of the cut
9 prior to sawcutting and as staked by the Engineer.

10
11 **2-02.5 Payment**

12 *(February 4, 2008 R&E GSP)*

13
14 Section 2-02.5 is supplemented with the following:

15
16 The lump sum contract price for "Removal of Structures and Obstructions" shall be full
17 compensation for all tools, equipment, materials, and labor to excavate and dispose of the
18 above materials, including Haul and disposal fees; transporting to and stacking the ecology
19 blocks. Removal of any structures and obstructions readily apparent by visual inspection
20 from the ground surface and not identified elsewhere will be considered incidental to this bid
21 item.

22
23 Payment for "Abandonment of Asbestos Cement Water Main" shall be on a force account
24 basis as per Section 1-09.6. For the purpose of providing a common proposal for all bidders,
25 the Contracting Agency has established the amount of force account for this item and has
26 entered the amount in the bid proposal to become a part of the Contractor's total bid.

27
28 "Removing Drainage Structures", per each.

29 The unit contract price per each for "Removing Drainage Structures" shall be full pay to
30 perform the work as specified, including sawcutting and disposal.

31
32 The unit contract price per linear foot-inch for "Saw-cut ACP" and "Saw-cut PCC" as
33 indicated on the Bid Proposal shall be full compensation for all labor, including hand
34 removal if required, material, tools and equipment required to complete the Bid Items in
35 accordance with Section 1-04.1.

36
37 **2-03 ROADWAY EXCAVATION AND EMBANKMENT**

38
39 **2-03.1 Description**

40 Section 2-03.1 is supplemented with the following:

41
42 The work described in this section, regardless of the nature or type of the materials
43 encountered includes excavating and grading the roadway and areas for curb, gutter and
44 sidewalk, driveways, excavation or embankment required to construct the stormwater
45 facility, excavating in borrow pits, excavating below grade, excavating channels, removing
46 slide materials and disposing of all excavated material. This work also includes stockpiling,

1 placing and compacting Engineer approved materials generated during roadway excavation
2 at locations shown on the Plans or as directed by the Engineer. Any excavation or
3 embankment required to maintain positive drainage to or from drainage ditches or swales
4 will be considered incidental to this bid item. This item also includes any excavation required
5 to construct new driveway grades.
6

7 Excess material shall become the property of the contractor for disposal. This work may
8 include temporary stockpiling of material as dictated by the contractors operations. No
9 specific stockpile sites are provided within the project limits, however on-site stockpiling
10 may be permitted as approved by the Engineer. The costs for stockpiling shall be included in
11 the bid items in this section.
12

13 **2-03.3(7)C Contractor-Provided Disposal Site**

14 Section 2-03.3(7)C is supplemented with the following:
15

16 Before completing any filling outside of the project limits, the Contractor, or property owner
17 desiring to receive the fill, shall acquire all permits and approvals required for the use of the
18 disposal site.
19

20 **2-03.3(10) Selected Material**

21 Section 2-03.3(10) is supplemented with the following:
22

23 As indicated in the contract, existing suitable excavation materials, shall be used as
24 embankment, unless otherwise directed by the Engineer.
25

26 **2-03.3(14) Embankment Construction**

27 Section 2-03.3(14) is supplemented with the following:
28

29 This item consists of compacting embankments constructed in accordance with Section 2-
30 03.3(14) using excavated material. The Engineer shall approve all embankment material and
31 compaction equipment prior to their use by the Contractor. Roadway Excavation material
32 shall not be placed above subgrade anywhere within the roadway section unless approved by
33 the Engineer.
34

35 **2-03.3(14)C Compacting Earth Embankments**

36 Section 2-03.3(14)C is supplemented with the following:
37

38 Only Method B is allowed.
39

40 **2-03.3 (14)E Unsuitable Foundation Excavation**

41 Section 2-03.3(14)E is supplemented with the following:
42

43 Prior to any backfilling, the Contractor shall proof roll the subgrade with a loaded dump
44 truck, large self-propelled vibrating roller, or equivalent piece of equipment, to verify
45 stability of the subgrade. The associated cost to proof roll the roadway will be considered
46 incidental to the unit contract prices of this Contract.

1 **2-03.4 Measurement**

2 Section 2-03.4 is supplemented with the following

3
4 Unsuitable Foundation Excavation Including Haul shall be measured beginning 2 feet below
5 the roadway excavation lower limits to the depth of excavation as directed by the Engineer.
6 There is no limit to the depth of excavation to be paid under this item.
7

8 Groundwater may be encountered within the project boundary. No payment will be made for
9 dewatering or material replacement. When the Engineer requires excavated material to be
10 removed, stockpiled, and moved again, the material will be measured to the neat line of that
11 removed from the stockpile. No separate measurement or payment will be made for
12 stockpiled materials.
13

14 Only one determination of the original ground elevation will be made on this project.
15 Measurement for roadway excavation and embankment will be based on the original ground
16 elevations recorded previous to the award of this contract with the volume of planing
17 bituminous pavement and asphalt concrete pavement deducted. Control stakes will be set
18 during construction to provide the Contractor with all essential information for the
19 construction of excavation and embankments.
20

21 If discrepancies are discovered in the ground elevations which will materially affect the
22 quantities of earthwork, the original computations of earthwork quantities will be adjusted
23 accordingly.
24

25 Earthwork quantities will be computed, either manually or by means of electronic data
26 processing equipment, by use of the average end area method or by the finite element
27 analysis method utilizing digital terrain modeling techniques.
28

29 Copies of the ground cross-section notes will be available for the bidder's inspection, before
30 the opening of bids, at the Engineer's office.
31

32 Upon award of the contract, copies of the original ground cross-sections will be furnished to
33 the successful bidder on request to the Engineer.
34

35 Removal of Asphalt Concrete Pavement will not be measured under this bid item. Pavement
36 removal shall be paid under the bid items "Removal of Structures and Obstructions".
37

38 "Embankment Compaction" includes loading, hauling, stockpiling, placing, grading, and
39 compacting suitable excavated material generated under any roadway excavation within the
40 Project limits.
41

42 **2-03.5 Payment**

43 Section 2-03.5 is supplemented with the following:

44
45 The unit contract price per cubic yard for "Roadway Excavation Including Haul" shall be
46 compensation for all labor, materials, tools and equipment necessary to excavate, shape, load,

1 stockpile for later embankment or otherwise dispose of surplus or unsuitable material off-site
2 as specified herein. This item shall include the cost of compacting and proof rolling the
3 subgrade.

4
5 "Embankment Compaction" includes loading, hauling, stockpiling, placing, grading, and
6 compacting suitable excavated material generated under any roadway excavation within the
7 Project limits.

8 9 **2-04 HAUL**

10 11 **2-04.4 Measurement**

12 *(February 5, 2008 R&E GSP)*

13
14 Section 2-04.4 is revised to read:

15
16 No specific unit of measurement shall apply. All costs involved for haul shall be incidental
17 to and included in the various bid items.

18 19 **2-04.5 Payment**

20 *(February 5, 2008 R&E GSP)*

21
22 Section 2-04.5 is deleted in its entirety.

23 24 **2-07 WATERING**

25 26 **2-07.4 Measurement**

27 *(September 15, 2008 R&E GSP)*

28
29 Section 2-07.4 is supplemented with the following:

30
31 The Contractor shall provide water distribution records including truck tickets and operator
32 time records if requested by the Engineer. The contractor will not be allowed to use City
33 water from fire hydrant without a suitable backflow preventor and meter. Prior to using any
34 City hydrant, the Contractor shall submit a test report verifying that the backflow preventor is
35 functioning property. Use of City water must be pre-approved by the Public Works
36 Department.

37 38 **2-09 STRUCTURE EXCAVATION**

39 40 **2-09.3 Construction Requirements**

41
42 Select excavated material, as approved by the Engineer, shall be used as backfill. If the
43 Engineer determines that native material is not suitable for trench backfill, import gravel
44 shall be used and payment shall be made per Section 4-02.5.

1 **2-09.3(1)E Backfilling**

2
3 CDF shall be placed at locations where the storm or sanitary sewer crosses over the water
4 mains, where the separation between the top of the storm sewer or sanitary sewer and bottom
5 of the water main is less than 18", or where required by the Engineer. The estimated volume
6 of CDF for these crossings is 20' (length) X 1.5' (depth) X 5' (width).

7
8 **2-09.3(4) Construction Requirements, Structure Excavation, Class B**

9 Section 2-09.3(4) is supplemented with the following:

10
11 All trenches shall be backfilled and completed by the end of the day. No payment shall be
12 made for backfill of native materials. Gravel base shall be used for backfill unless the
13 Engineer approves the use of native material.

1 **DIVISION 4**

2 **BASES**

3

4 **4-02 GRAVEL BASE**

5

6 **4-02.2 Materials**

7 *(February 5, 2008 R&E GSP)*

8

9 Section 4-02.2 is replaced with:

10

11 Material shall meet the requirements of Section 9-03.10 Gravel Base as modified. Refer to

12 revised Section 9-03.10 Aggregate for Gravel Base.

13

14 **4-02.4 Measurement**

15 *(February 5, 2008 R&E GSP)*

16

17 Section 4-02.4 is revised to read:

18

19 "Gravel Base" shall be measured by the ton.

20

21 **4-02.5 Payment**

22 *(February 5, 2008 R&E GSP)*

23

24 Section 4-02.5, delete the second paragraph and replace with the following:

25

26 "Gravel Base" per ton.

27

28 Section 4-02.5 is supplemented with the following:

29

30 Proof rolling of material at the direction of the Engineer will be considered incidental to this
31 bid item.

32

33 **4-04 BALLAST AND CRUSHED SURFACING**

34

35 **4-04.4 Measurement**

36 *(February 5, 2008 R&E GSP)*

37

38 Section 4-04.4 is revised as follows:

39

40 The second paragraph is revised to read:

41

42 "Crushed Surfacing Top Course", shall be measured by the ton.

43

44

45

46

1 **4-04.5 Payment**

2 *(February 5, 2008 R&E GSP)*

3

4 Section 4-04.5, 1st item is revised as follows:

5

6 "Crushed Surfacing Top Course", per ton.

7

1 **DIVISION 5**
2 **SURFACE TREATMENTS AND PAVEMENTS**

3
4 **5-04 HOT MIX ASPHALT**

5
6 **5-04.1 Description**

7 *(January 5, 2012 R&E GSP)*

8
9 Section 5-04.1 is supplemented with the following:

10
11 Prior to hot mix asphalt paving, the Contractor shall coordinate an on-site construction
12 meeting with the asphalt paving company, Contracting Agency, material testing company
13 and the Engineer.

14
15 **5-04.3 Construction Requirements**

16 *(February 25, 2008 R&E GSP)*

17
18 Section 5-04.3 is supplemented with the following:

19
20 All castings within paved areas shall be adjusted to finished grade after the final lift of paving
21 as shown on the plans and paid per Section 7-05.5.

22
23 **5-04.3(3)A Material Transfer Device / Vehicle**

24 *(November 20, 2013 APWA GSP)*

25
26 The first paragraph of this section is supplemented with the following;

27
28 Additionally, a material transfer device or vehicle (MTD/V) is not required at the following
29 locations \$\$ Project Limits \$\$.
30

31 *(April 4, 2012 R&E GSP)*

32 **5-04.3(5)A Preparation Of Existing Surfaces**

33 Section 5-04.3(5)A is supplemented with the following:

34
35 Tack coat shall be uniformly applied to cover the face of the gutter abutting the HMA with a
36 thin film of residual asphalt free of streaks and bare spots.

37
38 The Contractor shall limit the amount of tack coat placed to that amount that will be fully
39 covered by the asphalt overlay at the end of each work shift.

40
41 *(NWR February 9, 2004)*

42 The Contractor shall ensure that the asphalt for tack coat does not enter into State waters,
43 including wetlands.

44
45 In accordance with Section 1-07.15(1) **Spill Prevention, Control and Countermeasures**
46 **Plan** (SPCC), as part of the SPCC the Contractor shall address the mitigating measures to be

1 taken in the event that the paving operation is suspended or terminated prior to the asphalt for
2 tack coat being fully covered.

3
4 **5-04.3(5)C Crack Sealing**

5 *(February 25, 2008 R&E GSP)*

6
7 Section 5-04.3(5)C is supplemented with the following:

8
9 All joints shall be sealed with using Rubberized Asphalt meeting the requirement of section
10 9-04.10.

11
12 **5-04.3(5)D Soil Residual Herbicide**

13 *(July 1, 2010 R&E GSP)*

14
15 Section 5-04.3(5)D is supplemented with the following:

16
17 The Contractor shall use a granular type herbicide material where HMA is placed over base
18 material, non-ACP material, or concrete surfaces. The Contractor shall request approval,
19 from the Contracting Agency, of the herbicide type prior to its placement.

20
21 **5-04.3(7)A Mix Design**

22
23 **5-04.3(7)A2 Statistical or Nonstatistical Evaluation**

24 *(November 20, 2013 APWA GSP)*

25
26 Delete this section and replace it with the following;

27
28 **5-04.3(7)A2 Nonstatistical and Commercial Evaluation**

29
30 Mix designs for HMA accepted by Nonstatistical or Commercial evaluation shall;

- 31
- 32 • Be submitted to the Project Engineer on WSDOT Form 350-042
 - 33 • Have the aggregate structure and asphalt binder content determined in accordance with
 - 34 WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-
 - 35 03.8(2) and 9-03.8(6).
 - 36 • Have anti-strip requirements, if any, for the proposed mix design determined in
 - 37 accordance with WSDOT Test Method T 718 or based on historic anti-strip and
 - 38 aggregate source compatibility from WSDOT lab testing. Anti-strip evaluation of HMA
 - 39 mix designs utilized that include RAP will be completed without the inclusion of the
 - 40 RAP.

41 At or prior to the preconstruction meeting, the contractor shall provide one of the following mix
42 design verification certifications for Contracting Agency review;

- 43
- 44 • The proposed mix design indicated on a WSDOT mix design/anti-strip report that is
 - 45 within one year of the approval date
 - 46 • The proposed HMA mix design submittal (Form 350-042) with the seal and certification
 - (stamp & signature) of a valid licensed Washington State Professional Engineer.

- 1 • The proposed mix design by a qualified City or County laboratory mix design report that
2 is within one year of the approval date.

3
4 The mix design will be performed by a lab accredited by a national authority such as Laboratory
5 Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials
6 Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall
7 supply evidence of participation in the AASHTO Material Reference Laboratory (AMRL)
8 program.

9
10 At the discretion of the Engineer, agencies may accept mix designs verified beyond the one year
11 verification period with a certification from the Contractor that the materials and sources are the
12 same as those shown on the original mix design.

13
14 Evaluation of anti-strip additives are to be provided as part of the mix design acceptance criteria.
15 Acceptable anti-strip evaluations include 1.) a WSDOT validated mix design showing the
16 validated anti-strip additive and dosage 2.) an historic anti-strip determination from WSDOT not
17 greater than two (2) calendar years old or 3.) a passing TSR test at the anti-strip dosage proposed
18 by the Contractor.

19
20 No paving shall begin prior to Contracting Agency approval of the Contractor provided mix
21 design.

22
23 **5-04.3(8)A1, General**
24 *(November 20, 2013 APWA GSP)*

25
26 Delete this section and replace it with the following:

27
28 **5-04.3(8)A1, General**

29
30 Acceptance of HMA shall be as defined under nonstatistical or commercial evaluation.

31
32 Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the
33 contract documents.

34
35 The mix design will be the initial JMF for the class of HMA. The Contractor may request a
36 change in the JMF. Any adjustments to the JMF will require the approval of the Project
37 Engineer and must be made in accordance with Section 9-03.8(7).

38
39 Commercial evaluation may be used for Commercial HMA and for other classes of HMA in the
40 following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel,
41 and pavement repair. Other nonstructural applications of HMA accepted by commercial
42 evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted
43 by commercial evaluation will be at the option of the Project Engineer. Commercial HMA can
44 be accepted by a contractor certificate of compliance letter stating the material meets the HMA
45 requirements defined in the contract.

1 **5-04.3(8)A4, Definition of Sampling Lot and Sublot**

2
3 Section 5-04.3(8)A4 is supplemented with the following:

4
5 For HMA in a structural application, sampling and testing for total project quantities less than
6 400 tons is at the discretion of the engineer. For HMA used in a structural application and with a
7 total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance
8 test shall be performed:

- 9 i. If test results are found to be within specification requirements, additional testing
10 will be at the engineers discretion.
11 ii. If test results are found not to be within specification requirements, additional
12 testing as needed to determine a CPF shall be performed.

13
14 **5-04.3(8)A5 Test Results**

15 *(November 20, 2013 APWA GSP)*

16
17 The first paragraph of this section is deleted.

18
19 **5-04.3(8)A6 Test Methods**

20 *(November 20, 2013 APWA GSP)*

21
22 Delete this section and replace it with the following;

23
24 **5-04.3(8)A6 Test Methods**

25
26 Testing of HMA for compliance of Va will be at the option of the Contracting Agency. If tested,
27 compliance of Va will be use WSDOT Standard Operating Procedure SOP 731. Testing for
28 compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308. Testing for
29 compliance of gradation will be by WAQTC FOP for AASHTO T 27/T 11.

30
31 **5-04.3(9) Spreading And Finishing**

32 *(February 25, 2008 R&E GSP)*

33
34 Section 5-04.3(9) is supplemented with the following:

35
36 During grading operations, the elevation difference between the portion of the traveled way
37 open to traffic and the adjoining portion of roadway shall be tapered at 10:1 or greater to
38 allow cross traffic.

39
40 **5-04.3(14) Planing Bituminous Pavement**

41 *(February 25, 2008 R&E GSP)*

42
43 Section 5-04.3(14) is supplemented with the following:

1 **Transverse Joints**

2 Unless specifically directed by the Engineer, all connections to existing asphalt shall be by a
3 vertical sawcut abutting the pavements together and heated prior to mat construction. All
4 joints of new hot mix asphalt to an existing pavement shall be sealed with an appropriate
5 asphalt joint sealer. The Contractor shall construct and maintain a temporary hot mix asphalt
6 wedge in accordance with Section 5-04.3(12) across the entire width of the transverse edge
7 when traffic is allowed prior to paving. The wedge shall be constructed before opening the
8 lane to traffic. The Contractor shall remove the wedge immediately prior to paving.

9
10 **Beveled Edge Planing**

11 A beveled edge shall be constructed in areas with a planed depth of more than 0.20 foot that
12 will not be paved during the same work shift.

13
14 The Contractor shall use a beveled cutter on the mandrel of the planing equipment, or other
15 approved method(s), to eliminate the vertical edge(s). The beveled edge(s) shall be
16 constructed at a 4:1 slope.

17
18 **5-04.4 Measurement**

19 *(July 1, 2010 R&E GSP)*

20
21 Section 5-04.4 is supplemented with the following:

22
23 All reference to measurement of Soil Residual Herbicide, Temporary Pavement Marking,
24 Removing Temporary Pavement Marking, and Anti-Stripping Additive are deleted. No
25 additional measurement will be given to these items.

26
27 *(September 5, 2006 WSDOT GSP)*

28 No specific unit of measurement will apply to the calculated item of asphalt cost price
29 adjustment.

30
31 **5-04.5 Payment**

32 *(July 1, 2010 R&E GSP)*

33
34 Section 5-04.5 is supplemented with the follows:

35
36 All reference to payment of Soil Residual Herbicide, Temporary Pavement Marking,
37 Removing Temporary Pavement Marking, and Anti-Stripping Additive are deleted. All
38 costs for furnishing, installing, and performing these items shall be incidental to and
39 included in the unit bid price of various HMA items.

40
41 **5-04.5(1)B Price Adjustments for Quality of HMA Compaction**

42 *(March 10, 2010 APWA GSP)*

43
44 Delete this section and replace it with the following:

45
46 The maximum CPF of a compaction lot is 1.00

47 For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming

1 Compaction Factor (NCCF) will be determined. THE NCCF equals the algebraic
2 difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment
3 will be calculated as the product of the NCCF, the quantity of HMA in the lot in tons and
4 the unit contract price per ton of the mix.

5
6 **5-04.5(2)**

7 *(August 5, 2013 WSDOT GSP)*

8
9 Section 5-04.5 is supplemented with the following:

10
11 ***Asphalt Cost Price Adjustment***

12 The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a
13 payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will
14 be applied to partial payments made according to Section 1-09.9 for the following bid items
15 when they are included in the proposal:

16
17 “HMA Cl. ___ PG ___”

18 “HMA for Approach Cl. ___ PG ___”

19 “HMA for Preleveling Cl. ___ PG ___”

20 “HMA for Pavement Repair Cl. ___ PG ___”

21 “Commercial HMA”

22
23 The adjustment is not a guarantee of full compensation for changes in the cost of asphalt
24 binder. The Contracting Agency does not guarantee that asphalt binder will be available at
25 the reference cost.

26
27 The Contracting Agency will establish the asphalt binder reference cost twice each month
28 and post the information on the Agency website at:

29
30 <http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm>

31 The reference cost will be determined using posted prices furnished by Poten & Partners,
32 Inc. If the selected price source ceases to be available for any reason, then the Contracting
33 Agency will select a substitute price source to establish the reference cost.

34
35 The base cost established for this contract is the reference cost posted on the Agency
36 website for the period immediately preceding the bid opening date.

37
38 Adjustments will be based on the most current reference cost for Western Washington or
39 Eastern Washington as posted on the Agency website, depending on where the work is
40 performed. For work completed after all authorized working days are used, the adjustment
41 will be based on the posted reference cost during which contract time was exhausted. The
42 adjustment will be calculated as follows:

43
44 No adjustment will be made if the reference cost is within 5% of the base cost.

45
46 If the reference cost is greater than or equal to 105% of the base cost, then

1 Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).
2

3 If the reference cost is less than or equal to 95% of the base cost, then
4 Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).
5

6 Where Q = total tons of all classes of HMA paid in the current month's progress payment.
7

8 "Asphalt Cost Price Adjustment", by calculation.
9

10 "Asphalt Cost Price Adjustment" will be calculated and paid for as described in this section.
11 For the purpose of providing a common proposal for all bidders, the Contracting Agency has
12 entered an amount in the proposal to become a part of the total bid by the Contractor.
13
14

1 **DIVISION 6**
2 **STRUCTURES**

3
4 **6-02 CONCRETE STRUCTURES**

5 **6-02.2 Measurement**

6 Section 6-02.4 is supplemented with the following:

7
8 Monolithic Retaining Wall will be measured by the square foot of completed wall in place.
9 The bottom limits for vertical measurement will be the bottom of the wall footing. The top
10 limit for vertical measurement will be the top of the walls as shown on the Plans. The
11 horizontal limits for measurement are from end of the wall to the end of the wall.
12

13 **6-02.5 Payment**

14 Section 6-02.5 is supplemented with the following:

15
16 “Type "A" Monolithic Retaining Wall”, per square foot.

17 All costs in connection with furnishing material for, and constructing, the retaining wall,
18 including reinforcement steel, underdrain pipe, pvc weep hole drains, premolded joint filler,
19 etc., shall be included in the unit contract price per square foot for “Type "A" Monolithic
20 Retaining Wall”.

21
22 Payment for the reinforced concrete sidewalk constructed as shown on the plans shall be
23 paid under the bid item “Reinforced Cement Concrete Sidewalk, 6 In. Thick”.
24

25 **6-13 STRUCTURAL EARTH WALLS**

26
27 **6-13.1 Description**

28 Section 6-13.1 is supplemented with the following:

29
30 This work consists of constructing two types of structural earth walls (SEW's), within the
31 project limits, as indicated in the Plans and as described in this Section.

32 **6-13.2 Materials**

33 Section 6-13.2 is supplemented with the following:

34
35 **Keystone**

36 Wall block units shall be Keystone ‘Compac’ and Sandal Stone in color or an approved
37 equal. Wall block units may be substituted with approval from the Engineer. Wall block
38 wall units shall also include cap-stones.
39

40 **Structural Earth Walls**

41 Section 6-13.2 is supplemented with the following:

42 *(April 1, 2013)*

43 ***Concrete Block Faced Structural Earth Wall Materials***

44 **General Materials**

45 **Concrete Block**

46 Acceptability of the blocks will be determined based on the following:

1. Visual inspection.
2. Compressive strength tests, conforming to Section 6-13.3(4).
3. Water absorption tests, conforming to Section 6-13.3(4).
4. Manufacturer's Certificate of Compliance in accordance with Section 1-06.3.
5. Freeze-thaw tests conducted on the lot of blocks produced for use in this project, as specified in Section 6-13.3(4).
6. Copies of results from tests conducted on the lot of blocks produced for this project by the concrete block fabricator in accordance with the quality control program required by the structural earth wall manufacturer.

The blocks shall be considered acceptable regardless of curing age when compressive test results indicate that the compressive strength conforms to the 28-day requirements, and when all other acceptability requirements specified above are met.

Testing and inspection of dry cast concrete blocks shall conform to ASTM C 140, and shall include block fabrication plant approval by WSDOT prior to the start of block production for this project.

Mortar

Mortar shall conform to ASTM C 270, Type S, with an integral water repellent admixture as approved by the Engineer. The amount of admixture shall be as recommended by the admixture manufacturer. To ensure uniform color, texture, and quality, all mortar mix components shall be obtained from one manufacturer for each component, and from one source and producer for each aggregate.

Metallic Soil Reinforcement

Reinforcing strips shall be composed of welded wire fabric strips conforming to AASHTO M 55 with wire conforming to AASHTO M 32, and attached to block connector plates conforming to ASTM A 36. Reinforcing strips and block connector plates shall be galvanized after fabrication in accordance with AASHTO M 111. Damage to galvanizing shall be repaired with one coat of paint conforming to Section 9-08.1(2)B.

Geosynthetic Soil Reinforcement

Geogrid reinforcement shall conform to Section 9-33.1, and shall be a product listed in Appendix D of the current WSDOT Qualified Products List (QPL). The values of T_{al} and T_{ult} as listed in the QPL for the products used shall meet or exceed the values required for the wall manufacturer's reinforcement design as specified in the structural earth wall design calculation and working drawing submittal.

1 The minimum ultimate tensile strength of the geogrid shall be a minimum average
2 roll value (the average test results for any sampled roll in a lot shall meet or exceed
3 the values shown in Appendix D of the current WSDOT QPL). The strength shall
4 be determined in accordance with ASTM D 6637, for multi-rib specimens.
5

6 The ultraviolet (UV) radiation stability, in accordance with ASTM D 4355, shall be
7 a minimum of 70 percent strength retained after 500 hours in the weatherometer.
8

9 The longitudinal (i.e., in the direction of loading) and transverse (i.e., parallel to
10 the wall or slope face) ribs that make up the geogrid shall be perpendicular to one
11 another. The maximum deviation of the cross-rib from being perpendicular to the
12 longitudinal rib (skew) shall be no more than 1 inch in 5 feet of geogrid width.
13 The maximum deviation of the cross-rib at any point from a line perpendicular to
14 the longitudinal ribs located at the cross-rib (bow) shall be 0.5 inches.
15

16 The gap between the connector and the bearing surface of the connector tab cross-
17 rib shall not exceed 0.5 inches. A maximum of 10 percent of connector tabs may
18 have a gap between 0.3 inches and 0.5 inches. Gaps in the remaining connector
19 tabs shall not exceed 0.3 inches.
20

21 The Engineer will take random samples of the geogrid materials at the job site.
22 Approval of the geogrid materials will be based on testing of samples from each
23 lot. A "lot" shall be defined as all geogrid rolls sent to the project site produced by
24 the same manufacturer during a continuous period of production at the same
25 manufacturing plant having the same product name. The Contracting Agency will
26 require 14 calendar days maximum for testing the samples after their arrival at the
27 WSDOT Materials Laboratory in Tumwater, WA.
28

29 The geogrid samples will be tested for conformance to the specified material
30 properties. If the test results indicate that the geogrid lot does not meet the
31 specified properties, the roll or rolls which were sampled will be rejected. Two
32 additional rolls for each roll tested which failed from the lot previously tested will
33 then be selected at random by the Engineer for sampling and retesting. If the
34 retesting shows that any of the additional rolls tested do not meet the specified
35 properties, the entire lot will be rejected. If the test results from all the rolls
36 retested meet the specified properties, the entire lot minus the roll(s) which failed
37 will be accepted.
38

39 All geogrid materials which have defects, deterioration, or damage, as determined
40 by the Engineer, will be rejected. All rejected geogrid materials shall be replaced
41 at no expense to the Contracting Agency.
42

43 Except as otherwise noted, geogrid identification, storage and handling shall
44 conform to the requirements specified in Section 2-12.2. The geogrid materials
45 shall not be exposed to temperatures less than -20F and greater than 122F.
46

1 **Drainage Geosynthetic Fabric**

2 Drainage geosynthetic fabric shall be a non-woven geosynthetic conforming to the
3 requirements in Section 9-33.1, for Construction Geotextile for Underground
4 Drainage, Moderate Survivability, Class B.
5

6 **Proprietary Materials**

7 **KeySystem I Wall**

8 Block alignment pins shall be fiberglass conforming to the requirements of
9 Keystone Retaining Wall Systems, Inc.

10 Block connector pins shall conform to AASHTO M 32, and shall be galvanized
11 after fabrication in accordance with AASHTO M 111.
12

13 **Landmark Retaining Wall**

14 Lock bars shall be made of a rigid polyvinyl chloride polymer conforming to the
15 following requirements:
16
17

Property	Value	Specification
Specific Gravity	1.4 minimum	ASTM D 792
Tensile Strength at yield	2,700 psi minimum	ASTM D 638

18 Lock bars shall remain sealed in their shipping containers until placement into the
19 wall. Lock bars exposed to direct sunlight for a period exceeding two months shall
20 not be used for construction of the wall.
21

22 **Mesa Wall**

23 Block connectors for block courses with geogrid reinforcement shall be glass fiber
24 reinforced high-density polypropylene conforming to the following minimum
25 material specifications:
26
27

<u>Property</u>	<u>Specification</u>	<u>Value</u>
Polypropylene	ASTM D 4101 Group 1 Class 1 Grade 2	73 ± 2 percent
Fiberglass Content	ASTM D 2584	25 ± 3 percent
Carbon Black	ASTM D 4218	2 percent minimum
Specific Gravity	ASTM D 792	1.08 ± 0.04
Tensile Strength at yield	ASTM D 638	8,700 ± 1,450 psi
Melt Flow Rate	ASTM D 1238	0.37 ± 0.16 ounces/10 min.

28 Block connectors for block courses without geogrid reinforcement shall be glass
29 fiber reinforced high-density polyethylene (HDPE) conforming to the following
30 minimum material specifications:
31
32
33
34
35
36
37

<u>Property</u>	<u>Specification</u>	<u>Value</u>
HDPE	ASTM D 1248	
	Type III Class A Grade 5	68 ± 3 percent
Fiberglass Content	ASTM D 2584	30 ± 3 percent
Carbon Black	ASTM D 4218	2 percent minimum
Specific Gravity	ASTM D 792	1.16 ± 0.06
Tensile Strength at yield	ASTM D 638	8,700 ± 725 psi
Melt Flow Rate	ASTM D 1238	0.11 ± 0.07 ounces/10 min.

(January 4, 2010)

Allan Block Wall

Wall backfill material placed in the open cells of the precast concrete blocks and placed in the one to three foot zone immediately behind the precast concrete blocks shall conform to Section 9-03.12(4).

Geogrid reinforcement shall conform to Section 9-33.1, and shall be a product listed in Appendix D of the current WSDOT Qualified Products List (QPL). The values of T_{al} and T_{ult} as listed in the QPL for the products used shall meet or exceed the values required for the wall manufacturer's reinforcement design as specified in the structural earth wall design calculation and working drawing submittal.

The minimum ultimate tensile strength of the geogrid shall be a minimum average roll value (the average test results for any sampled roll in a lot shall meet or exceed the values shown in Appendix D of the current WSDOT QPL). The strength shall be determined in accordance with ASTM D 6637, for multi-rib specimens.

The ultraviolet (UV) radiation stability, in accordance with ASTM D 4355, shall be a minimum of 70 percent strength retained after 500 hours in the weatherometer.

The Engineer will take random samples of the geogrid materials at the job site. Approval of the geogrid materials will be based on testing of samples from each lot. A "lot" shall be defined as all geogrid rolls sent to the project site produced by the same manufacturer during a continuous period of production at the same manufacturing plant having the same product name. The Contracting Agency will require 14 calendar days maximum for testing the samples after their arrival at the WSDOT Materials Laboratory in Tumwater, WA.

The geogrid samples will be tested for conformance to the specified material properties. If the test results indicate that the geogrid lot does not meet the specified properties, the roll or rolls which were samples will be rejected. Two additional rolls for each roll tested which failed from the lot previously tested will then be selected at random by the Engineer for sampling and retesting. If the retesting shows that any of the additional rolls tested do not meet the specified properties, the entire lot will be rejected. If the test results from all the rolls

1 retested meet the specified properties, the entire lot minus the roll(s) which failed
2 will be accepted.

3
4 All geogrid materials which have defects, deterioration, or damage, as determined
5 by the Engineer, will be rejected. All rejected geogrid materials shall be replaced
6 at no expense to the Contracting Agency.

7
8 Except as otherwise noted, geogrid identification, storage and handling shall
9 conform to the requirements specified in Section 2-12.2. The geogrid materials
10 shall not be exposed to temperatures less than 20°F and greater than 122°F.

11
12 **Construction Requirements**

13 Section 6-13.3 is supplemented with the following:

14
15 *(April 2, 2012)*

16 ***Concrete Block Faced Structural Earth Wall***

17 Concrete block faced structural earth walls shall be constructed of only one of the following
18 wall systems. The Contractor shall make arrangements to purchase the concrete blocks, soil
19 reinforcement, attachment devices, joint filler, and all necessary incidentals from the source
20 identified with each wall system:

21
22 **Mesa Wall**

23 Mesa Wall is a registered trademark of Tensar Corporation

24
25 Tensar Corporation
26 2500 Northwinds Parkway Suite 500
27 Atlanta, GA 30009
28 (770) 334-2090
29 FAX (678) 281-8546
30 www.tensarcorp.com

31
32 **Landmark Retaining Wall System**

33 Landmark Retaining Wall System is a registered trademark of Anchor Wall
34 Systems, Inc.

35
36 Anchor Wall Systems, Inc.
37 5959 Baker Road, Suite 390
38 Minnetonka, MN 55345-5996
39 (877) 295-5415
40 FAX (952) 979-8454
41 www.anchorwall.com

1 KeySystem I Wall

2 KeySystem I is a registered trademark of Keystone Retaining Wall Systems, Inc.

3
4 Keystone Retaining Wall Systems, Inc.

5 4444 West 78th Street

6 Minneapolis, MN 55435

7 (952) 897-1040

8 FAX (952) 897-3858

9 www.keystonewalls.com

10
11 (January 7, 2013)

12 Allan Block Wall

13 Allan Block Wall is a registered trademark of the Allan Block Corporation

14
15 Allan Block Corporation

16 7424 W 78th Street

17 Bloomington, MN 55439

18 (800) 899-5309

19 (FAX (952) 835-0013

20
21 ***Precast Concrete Facing Panel and Concrete Block Erection***

22 Section 6-13.3(5) is supplemented with the following:

23
24 **(April 2, 2012)**

25 **Specific Erection Requirements for Precast Concrete Block Faced Structural**

26 **Earth Walls**

27 **Landmark Retaining Wall**

28 When placing each course of concrete blocks, the Contractor shall pull the blocks
29 towards the front face of the wall until the male key of the bottom face of the upper
30 block contacts and fits into the female key of the top face of the supporting block
31 below.

32 A maximum gap of 1/8-inch is allowed between adjacent concrete blocks, except
33 for the base course set of concrete blocks placed on the leveling pad. A maximum
34 gap of 1-inch is allowed between adjacent base course concrete blocks, provided
35 geosynthetic reinforcement for drains is in place over the gap at the back face of
36 the concrete blocks.

37
38 Lock bars shall be installed in the female key of the top face of all concrete block
39 courses receiving geogrid reinforcement. Gaps between adjacent lock bars in the
40 key shall not exceed 3-inches. The lock bar shall be installed flat side up, with the
41 angled side to the back of the concrete block, as shown in the shop drawings.

42
43 Geogrid reinforcement shall be placed and connected to concrete block courses
44 specified to receive soil reinforcement. The leading edge of the geogrid
45 reinforcement shall be maintained within 1-inch of the front face of the supporting

1 concrete blocks below. Geogrid panels shall be abutted for 100 percent backfill
2 coverage with less than a 4-inch gap between adjacent panels.

3
4 Backfill shall be placed and compacted level with the top of each course of
5 concrete blocks, and geogrid reinforcement placed and connected to concrete block
6 courses specified to receive soil reinforcement, before the Contractor may continue
7 placing the next course of concrete blocks.

8
9 **Mesa Wall**

10 For all concrete block courses receiving geogrid reinforcement, the fingers of the
11 block connectors shall engage the geogrid reinforcement apertures, both in the
12 connector slot in the block, and across the block core. For all concrete block
13 courses with intermittent geogrid coverage, a #3 steel reinforcing bar shall be
14 placed, butt end to butt end, in the top block groove, with the butt ends being
15 placed at a center of a concrete block.

16
17 **6-13.4 Measurement**

18 Section 6-13.4 is supplemented with the following:

19
20 Gravel Base used for the block wall will be measured in accordance with Section 4-02.4.

21
22 **6-13.5 Payment**

23 Section 6-13.5 is supplemented with the following:

24
25 “Structural Earth Wall, Keystone, Gravity Compac” and “Structural Earth Wall, Keystone,
26 Reinforced Compac”, per square foot.

27 All costs in connection with furnishing materials, including but not limited to reinforcing
28 geogrid, plastic moisture barrier, pins, for and constructing block walls, including
29 constructing leveling pads when specified, underdrain pipe, underdrain pipe geotextile, and
30 concrete cap as shown on the Plans, shall be included in the unit contract price per square
31 foot.

1 **DIVISION 7**
2 **DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER**
3 **MAINS, AND CONDUITS**

4
5 **7-04 STORM SEWERS**
6

7 **7-04.1 Description**
8 *(February 5, 2008 R&E GSP)*
9

10 Section 7-04.1 is supplemented with the following:
11

12 The soils on the site may be considered suitable for trench backfill beneath the roadbed
13 prism. Native materials may be used for trench backfill within the roadway prism with
14 approval from or at the direction of the Engineer.
15

16 **7-04.2 Materials**

17 Section 7-04.2 is supplemented with the following:
18

19 “Ductile Iron Storm Sewer Pipe 9-05.13”
20

21 **7-04.3(1) Cleaning and Testing**
22

23 **7-04.3(1)A General**

24 Section 7-04.3(1)A is supplemented with the following:
25

26 Storm Drain Pipe shall be tested visually for alignment with full circle visibility required
27 between drainage structures. Storm drain structures shall be cleaned of sediment and debris
28 prior to final acceptance.
29

30 **7-04.4 Measurement**

31 Section 7-04.4 is supplemented with the following:
32

33 Measurement for the various bid items for Storm Sewer pipe as indicated in the bid proposal
34 form, shall be per linear foot. The following items shall be incidental and included in the
35 unit price per linear foot:
36

- 37 1. Dewatering if required.
- 38 2. Pipe bedding as shown on the Plans
- 39 3. Compaction
- 40 4. Installation of storm sewer pipe
- 41 5. Coupling bands, fittings, and associated gaskets.
- 42 6. Cleaning
- 43 7. Connection to existing storm drains, culverts, and structures
- 44 8. Other work and materials, not specifically identified as being paid elsewhere
- 45 9. Bevel of pipe ends if applicable.

1 **7-04.5 Payment**

2 Section 7-04.5 is supplemented with the following:

3

4 The unit contract price per linear foot for the various bid items for Storm Sewer pipe as
5 indicated in the bid proposal form, shall be full compensation for all labor, material, tools
6 and equipment required to complete the Bid Items in accordance with Section 1-04.1.

7

1 **7-05 MANHOLES, INLETS, AND CATCH BASINS**

2
3 **7-05.1 Description**

4 Section 7-05.1 is supplemented with the following:

5
6 This item also includes frames and grates in designated areas. Thru-curb inlet frame and
7 grate shall be used at locations with 6 inch high cement concrete traffic curb and gutter as
8 noted on the Plans. The adjusting of any new storm drain catch basin frame, manhole ring
9 and cover, for the purpose of matching new finish grades shall be incidental to the cost of
10 installation. Existing manholes, inlets, and catchbasins within the Project boundary which are
11 nearest to the point of connection into the storm drain system and other manholes, inlets, and
12 catchbasins which are impacted by construction activities will be cleaned by the Contractor.
13 This work is incidental to the various bid items in this Section.

14
15 **7-05.2 Materials**

16 Section 7-05.3 is supplemented with the following:

17
18 **Sanitary Sewer Manhole Covers**

19 “Never-Seez Anti-Seize & Lubricating Compound” shall be applied to all lock down bolts
20 prior to installation. “Never-Seez Anti-Seize & Lubricating Compound” application shall be
21 in accordance with manufacturer’s recommendations. This work is incidental to the various
22 bid items.

23
24 **7-05.3 Construction Requirements**

25 Section 7-05.3 is supplemented with the following:

26
27 Where called for in the Plans, existing grates shall be removed and catch basins, inlets, and
28 sanitary manholes shall be furnished with locking solid metal covers and frames or locking
29 metal grates and frames as detailed in the Plans and Standard Plans.

30
31 **Sanitary Sewer Manholes**

32 Where necessary to complete the removal of existing sanitary sewer pipe for the installation
33 of new sanitary sewer manhole, the Contractor shall pump existing sanitary sewer flows
34 around the area of work and/or pump directly into tanker trucks. The required time of
35 pumping shall be sufficient to allow the work to be completed for each manhole.

36
37 Pumps used for the temporary diversion of sanitary sewer flows shall be capable of passing
38 solids and other materials typically found in wastewater flows.

39
40 The Contractor shall give a minimum of one week notice to the Contracting Agency prior to
41 the planned installation of sanitary sewer manhole. At the time of notice, the Contractor
42 shall provide a Sanitary Sewer Pump Around Plan for review and approval by the
43 Contracting Agency.

44
45 The Sanitary Sewer Pump Around Plan shall show method of removing the existing sanitary
46 sewer pipe, proposed materials for the sanitary sewer pipe removal, and the sequence of

1 demolition and removal. The plan shall detail the containment, collection, and disposal of all
2 debris. The Contractor shall not begin removal operations until receiving the Engineer's
3 approval of the Sanitary Sewer Pump Around Plan.
4

5 The Contractor may at their option choose to make the connection at night. If night work is
6 elected, the Contractor shall be responsible for all necessary lighting, extra equipment and
7 personnel needed to complete the work. The Contractor shall be responsible for all overtime
8 pay for employees as a result of night work. The Contractor is cautioned that City of
9 Ferndale employees are not on duty for night work. Should City of Ferndale employees be
10 needed to aid in the night work, the Contractor will be billed overtime rates by the
11 Contracting Agency per hour for City employees.
12

13 According to available information, the highest expected flows at the location where the
14 sanitary sewer manhole S27 (Approx STA 27+06 LT) is to be installed is approximately **0.04**
15 **cubic feet per second (cfs)**. Typical flow rates will vary. At each location where pumping
16 is required, at least two pumps shall be supplied, both individually capable of pumping the
17 necessary flows the required distances and against the required elevation head. One shall be
18 designated as the primary pump, and the second shall be a back-up pump.
19

20 Tanker trucks shall empty their loads back into the City of Ferndale's wastewater collection
21 system at a sanitary sewer manhole located at the intersection of Church Road and Hilltop,
22 west side of Church Road.
23

24 Should the Contractor elect to construct a temporary bypass pumping system around the
25 work area for the upstream flow, the pump around for flow shall not impact Church Road
26 traffic.
27

28 Should the Contractor elect to pump from an existing sanitary sewer manhole to a sanitary
29 sewer manhole downstream, the elevation differences and distances between the sanitary
30 sewer manholes shall be addressed in the Sanitary Sewer Pump Around Plan. The Contractor
31 shall confirm this distance and elevation difference in the field and size the pumps
32 accordingly.
33

34 The Contractor shall designate a person to oversee the pumps during their operation. This
35 person shall be on site at all times while the pump around is occurring and shall continually
36 monitor the pump operation. The individual shall be familiar with the operation of the
37 pumps and shall be capable switching between pumps if necessary, refueling the pumps, etc.
38

39 The Contractor shall take all necessary precautions to prevent an uncontrolled spill of
40 untreated wastewater.
41

42 Roadway must remain open to the passage of traffic during all pumping operations.
43
44
45

1 **7-05.3(1) Adjusting Manholes and Catch Basins to Grade**

2 *(February 5, 2008 R&E GSP)*

3
4 Section 7-05.3(1), paragraph 1 is revised to read:

5
6 Where shown in the Plans or where directed by the Engineer, the existing manholes, catch
7 basins, inlets, water valve boxes, or water meter boxes shall be adjusted to the grade as
8 staked or otherwise designated by the Engineer.

9
10 **7-05.4 Measurement**

11
12 *(July 12, 2010 R&E GSP)*

13 Section 7-05.4 is supplemented with the following:

14
15 Measurement for the various inlets, manholes, vaults, and catch basins as indicated in the
16 Bid Proposal, shall be per each. The following items shall be incidental and included in the
17 unit price per each:

- 18
19 1. Dewatering if required
20 2. Gaskets, fittings, inlets, frames and grates
21 3. Baffles, plates, sluice gates
22 4. Bedding
23 5. Compaction
24 6. Curb modifications required per the Standard Plans
25 7. Connection to existing culverts, structures and drain lines
26 8. Sanitary Sewer Pump Around Plan
27 9. Other work and materials, not specifically identified as being paid elsewhere
28 10. Temporary pumping and transportation of sewer flows, including pumps and
29 trucks.

30
31 Solid Locking Ring and Cover or Frame and Cover for existing manholes and catchbasins
32 will be measured by the unit for each assembly installed.

33
34 No specific unit of measure shall apply for the item "Adjustments to Finished Grade."

35
36 Measurement for "Hot Mix Asphalt" required for Adjustments to Finished Grades shall be
37 per ton in accordance with Section 5-04.

38
39 **7-05.5 Payment**

40 *(July 12, 2010 R&E GSP)*

41
42 Section 7-05.5 is supplemented with the following:

43
44 "Adjustments to Finished Grade", lump sum.

45 The lump sum price for "Adjustments to Finished Grade" as indicated in the Bid Proposal
46 Form shall be full compensation for all labor, tools, equipment, and materials necessary to
47 adjust existing structures to finished grades within the project limits.

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Channelizing the existing manhole shall be incidental to the various bid items.

Payment for "Hot Mix Asphalt" required for Adjustments to Finished Grades shall be per ton in accordance with Section 5-04.

1 **7-08 GENERAL PIPE INSTALLATION REQUIREMENTS**

2
3 **7-08.2 Materials**

4 Section 7-08.2 is supplemented with the following:

5
6 All trenches within or beneath the roadbed prism shall be backfilled with suitable native
7 material as approved by the Engineer. If suitable native material is unavailable, trenches
8 shall be backfilled with Gravel Base in accordance with Section 4-02.
9

10 Detectable marking tape shall be specifically manufactured for marking and locating
11 underground utilities. Tape shall be solid aluminum foil, visible on the up-printed side,
12 encased in protective high visibility, inert polyethylene plastic jacket, six inches minimum
13 width. Aluminum foil thickness shall be 0.35 mils minimum or thicker if necessary to
14 enable detection from the ground surface by a metal detector when the tape is buried at a
15 depth of 3 feet. Laminate thickness shall be 5 mils minimum. Tape shall have permanent
16 black lettering minimum 1 inch high printed contiguously the entire length of the tape
17 identifying the facility (SEWER, for example). Color shall be in accordance with APWA
18 Uniform Color Code for Temporary Marking of Underground Facilities and in ANSI
19 Z535.1, Safety Color Code. Clips for joining sections of tape shall be tin or nickel-coated
20 and furnished by the tape manufacturer. Tape shall be Terra Tape, Sentry Line Detectable
21 as manufactured by Reef Industries, Detectable tape as manufactured by Mutual Industries,
22 or Detectable Tape as manufactured by Presco.
23

24 **7-08.3 Construction Requirements**

25
26 Section 7-08.3 is supplemented by the following:

27
28 Roadway must remain open to the passage of traffic during the pipe installation.
29

30 **7-08.3(2)G Jointing of Dissimilar Pipe**

31 Section 7-08.3(2)G is supplemented with the following:

32
33 Existing storm drains shall be jointed to proposed CPDP by use of factory-fabricated
34 adapter couplings or a pipe collar or as shown in the Plans. The Contractor shall cut
35 existing storm drains. The Contractor shall remove the portions of the storm drain to
36 provide for the installation of the required fitting at the point of connection. All damage
37 caused by the Contractor's operation to existing storm drains to remain in place shall be
38 repaired by the Contractor at no expense to the Contracting Agency. The Contractor shall
39 determine the exact length of the existing storm drains that must be removed.
40

41 **7-08.5 Payment**

42 The fifth paragraph of this section is revised to read:

43
44 Plugging pipes shall be incidental to the various bid items.
45

46 *(July 12, 2010 R&E GSP)*

47 Section 7-08.5 is supplemented with the following:

1
2 “Removal of Unsuitable Material Including Haul”, per cubic yard.
3 The unit contract price per cubic yard for “Removal of Unsuitable Material Including Haul”
4 shall be full pay for all work to remove unsuitable material, haul and disposal of unsuitable
5 material, as specified in Section 7-08.3(1)A.
6

7 Payment for “Quarry Spalls” required for trenches as shown on the Plans shall be per ton.
8

9 **7-09 WATER MAINS**

10 **7-09.1 Description**

11 Section 7-09.1 is supplemented with the following:
12

13
14 Suitable native materials shall be used for trench backfill with approval from or at the
15 direction of the Engineer. Unsuitable native material shall become the property of the
16 contractor for disposal. Excess suitable native material shall be embanked according to the
17 plans and specifications.
18

19 All thrust blocks shall be installed per details shown on the plans and inspected by the
20 Engineer prior to backfilling. All bends shall include a thrust block per the details or as
21 indicated on the Plans. Thrust blocks may be substituted with restrained joints at the
22 discretion of the Contractor. The Contractor shall submit detailed sketches and plans of the
23 proposed restrained joints to the Engineer not less than one week prior to the expected
24 construction. The costs for thrust blocks or restrained joints shall be incidental to other items
25 of work. No additional payment shall be made should the Contractor choose to substitute
26 restrained joints for thrust blocks
27

28 This work also consists of constructing stovepipe watermains at locations directed by the
29 Engineer where the watermain conflicts with unexpected existing utilities, or for other
30 reasons.
31

32 **7-09.2 Materials**

33 Section 7-09.2 is supplemented with the following:
34

35 Ductile Iron Pipe shall be in accordance with Section 9-30.1(1) for Ductile Iron Pipe.
36

37 Fittings shall be ductile iron and shall meet the requirements of AWWA C110-71 and
38 AWWA C104-71. Joints shall meet the requirements of C111. Fittings shall be cement
39 mortar lined meeting the requirements of AWWA C104-71.
40

41 **7-09.3(5) Grade and Alignment**

42 Section 7-09.3(5) is supplemented with the following:
43

44 Finished grade is the proposed ground elevation unless otherwise staked by the Engineer or
45 Surveyor. Pipes installed, which do not meet minimum cover requirements, shall be replaced
46 at the Contractor’s expense. Minimum cover over waterlines shall be 3-feet, except for

1 where specifically noted on the plans.
2

3 **7-09.3(7)A Dewatering of Trench**

4 Section 7-09.3(7)A is supplemented with the following:
5

6 If the Contractor fails to adequately dewater the trench and prevent water or other materials
7 from entering the pipe, the Contractor shall at their expense thoroughly clean the line per
8 section 7-09.3(24)A, prior to disinfecting the main. Dewatering trenches is incidental to the
9 cost of pipe installation.
10

11 **7-09.3(8) Removal and Replacement of Unsuitable Materials**

12 Section 7-09.3(8) is supplemented with the following:
13

14 Unsuitable material consists of excavated silt, clay, and organic material and in-situ materials
15 which provide less than 1500 psf bearing capacity (as determined by a penetrometer test by
16 the Engineer) shall be excavated and replaced with select backfill or ballast at the direction of
17 the Engineer. All unsuitable material shall be removed from the site and hauled to a
18 permitted, Contractor provided disposal site in accordance with Section 2-03.3(7)C.
19

20 **7-09.3(9) Bedding The Pipe**

21 Section 7-09.3(9) is supplemented with the following:
22

23 The contractor shall bed the pipe with Engineer approved native material, or provide
24 imported bedding material meeting the requirements for Gravel Backfill 9-03.12(3). Bedding
25 material or suitable native material used for pipe bedding will be considered incidental to the
26 pipe bid item.
27

28 **7-09.3(10) Backfilling Trenches**

29 Section 7-09.3(10) is supplemented with the following:
30

31 Native backfill containing organics, un-compactable or deleterious materials are considered
32 unsuitable. Driveways must be filled and compacted as required for driveway and pavement
33 repair in accordance with the Plans. Where the Engineer determines that the native material
34 is not suitable for backfill, the Contractor shall provide imported trench backfill material in
35 accordance with Section 9-03.10 as modified. No additional payment shall be made for
36 placement or compaction in the trench. Excess native materials after trench backfill shall be
37 embanked in accordance with the plans and specs. Payment of imported backfill is per ton
38 per Section 4-02. When water mains are installed within the roadway prism, trench backfill
39 shall include the minimum structural section for the roadway. Detectable marking tape shall
40 be installed over the water main.
41

42 **7-09.3(11) Compaction of Backfill**

43 Section 7-09.3(11) is supplemented with the following:
44

45 Trenches which are located outside the roadway may be backfilled with native material upon
46 approval of the Engineer, and compacted to 85% of maximum density as specified in Section

1 2-03.3(14)D. All other trenches shall be compacted to 95% of the maximum dry density.
2 Compaction of native or imported backfill shall be incidental to other items of work.
3

4 **7-09.3(19)A Connections to Existing Mains**

5 Section 7-09.3(19)A is supplemented with the following:
6

7 Connection to existing mains is the full responsibility of the Contractor. Temporary routing
8 of existing pipelines or services, shoring, temporary thrust blocks, extra fittings required to
9 route the pipe over or under existing or new pipe or other utilities and all other work and
10 materials required for making complete, permanent and workable connections are incidental
11 to other items of work.
12

13 The Contractor shall be responsible for determining which residents will be affected by
14 shutoffs, and will notify them 24 hours in advance. The Contractor shall notify private
15 property owners, or tenants, by having a representative of the Contractor personally contact
16 the private property owner or tenant. If the property owner or tenant is not available, the
17 Contractor shall leave a door hanger notice indicating the commencement date of work,
18 duration of work, the type of work being done, and the Contractor's and Engineer's phone
19 number and address for questions and concerns. The Engineer shall be provided adequate
20 time to review, comment, and approve the door hanger notice prior to the Contractor placing
21 any notices.
22

23 The Contractor shall locate and verify the type of pipe, size, and depth prior to making the
24 connection. Detailed sketches and plans of the connection proposed by the Contractor shall
25 be given to the Engineer not less than one week prior to the expected construction. The City
26 of Ferndale shall be notified not less than two (2) working days prior to connection to
27 existing mains.
28

29 **7-09.3(24) Disinfection of Water Mains**

30 Section 7-09.3(24) is supplemented with the following:
31

32 The liquid chlorine injection method described below or approved alternate method shall be
33 used. Hypochlorite granules (65%) shall be mixed with water and injected into the main to
34 acquire a minimum of 50 mg/l of chlorine in the main. A typical method is as follows: The
35 chlorine solution is mixed in a container (new, clean garbage can) and fed into the new water
36 main using a pressurizing pump. The injection is made at a corporation stop or similar fitting
37 at the fill point of water from the existing City of Ferndale main. Filling and injection rates
38 shall be reviewed by the Engineer prior to disinfection. Chlorine content at the beginning
39 and end of each required 24-hour disinfection period, and prior to bacteriological testing shall
40 be sampled by the Engineer. The cost for the first sequence of sampling and lab testing shall
41 be paid for by the City of Ferndale. Subsequent testing and inspection shall be paid by the
42 Contractor. The Engineer shall be notified 24 hours prior to conducting disinfecting and
43 flushing operations.
44
45

1 **7-09.3(24)A Flushing**

2 Section 7-09.3(24)A is supplemented with the following:

3
4 Water for flushing mains may be taken from a direct connection to existing mains providing
5 an approved backflow device is utilized. Velocity for testing must equal or exceed 2.5 fps.
6 The connection must be capable of passing at least 400 gallons per minute (gpm) for flushing
7 8-inch diameter mains.

8
9 The Contractor shall be responsible for disposal of treated water flushed from mains and
10 shall neutralize the waste water before disposal. An adequate amount of reducing agent shall
11 be applied to water being disposed of in order to thoroughly neutralize the chlorine residual
12 remaining in the water per AWWA Standard Section C651.

13
14 **7-09.3(24)N Final Flushing and Testing**

15 *(July 12, 2010 R&E GSP)*

16 Section 7-09.3(24)N is supplemented with the following:

17
18 Upon completion of final flushing, the main shall be filled with water and allowed to remain
19 filled for 24 hours. The Engineer shall obtain a sample at the end of this 24-hour period. A
20 satisfactory report shall be received before placing the lines into service.

21
22 **7-09.3(24)O Repetition of Flushing and Testing**

23 Section 7-09.3(24)O is supplemented with the following:

24
25 The City shall furnish water for the initial flushing and testing process. In the event
26 additional water is needed for flushing or testing, the Contractor shall connect a meter and
27 pay the City for actual water used, at the commercial rate. The Contractor will pay for
28 additional bacteriological testing required because of failed samples. The Contractor will be
29 responsible for all cost associated with re-testing, including laboratory fees, and inspection.

30
31 **7-09.4 Measurement**

32 Section 7-09.4 is supplemented with the following:

33
34 Measurement for connect to existing watermain shall be measured per each connection
35 completed.

36
37 Measurement for payment of stovepipe watermain shall be measured per each installed.

38
39 No measurement shall be made for marking tape. Marking tape shall be considered
40 incidental to the work of constructing the water main.

41
42 No measurement shall be made for clearing and grubbing, removal of existing street
43 improvements, removal of the abandoned watermain, removal of existing valve boxes,
44 protection of existing utilities and service, trench excavation and pipe zone backfill, pipe
45 zone bedding, thrust blocks, and compaction of backfill.

1 **7-09.5 Payment**

2
3 Section 7-09.5 is supplemented with the following:

4
5 "Connect to Existing Watermain ___" Diam.", per each.

6 The unit contract price bid per each "Connect to Existing Watermain" shall be full
7 compensation for all work to connect to the existing mains, including but not limited to
8 excavating, removing existing fittings and thrust blocks, backfilling, laying and jointing pipe,
9 pipe and fittings, and cover and cleanup."

10
11 "Stovepipe Watermain, ___ In. Diam.", per each

12 The unit contract price bid per each for "Stovepipe Watermain, ___ In. Diam" shall be full
13 pay for all work to install the stovepipe watermain, including but not limited to excavating,
14 backfilling, laying and jointing pipe, tapping the main, corporation stops, pipe and fittings,
15 thrust blocks, and cover and cleanup.

16
17 "Testing Water Main" shall be paid per lump sum of completed installation actually tested
18 and shall be full pay for all labor, material and equipment required to conduct the required
19 tests.

20
21 "Removal and Replacement of Unsuitable Materials" shall be paid under the bid items
22 "Removal of Unsuitable Material Including Haul" and "Quarry Spalls".

23
24 **7-12 VALVES FOR WATER MAINS**

25
26 **7-12.1 Description**

27 Section 7-12.1 is supplemented with the following:

28
29 All valves shall be thrust blocked per the detail shown on the plans. All valve boxes shall be
30 new and a uniform type.

31
32 **7-12.2 Materials**

33 Section 7-12.2 is supplemented with the following:

34
35 Valves shall meet the requirements of AWWA C509 or C-515 and shall be iron body,
36 bronze-mounted, with resilient seated wedge device and O-ring stuffing box. All valves shall
37 be provided with a valve box conforming to Section 9-30.3(4) and 9-30.3(6) and valves
38 outside of the pavement section shall be encased in concrete and furnished with a concrete
39 valve marker conforming to Section 9-30.3(5).

40
41 Valve stem extensions will be required on operating nuts located 4 feet below grade per
42 section 9-30.3(6). Extensions shall be incidental to gate valves.

43
44 The following new Section is added:

1 **7-12.3(2) Adjustments to Finished Grade**

2
3 Existing valve boxes, which are to remain, shall be adjusted to finished grade. This work shall be
4 included in the bid item "Adjustments to Finished Grade."

5
6 **7-14 HYDRANTS**

7
8 **7-14.1 Description**

9 Section 7-14.1 is supplemented with the following:

10
11 This work includes the installation of Blue Raised Pavement Markers on the roadway centerline
12 adjacent to all hydrants.

13
14 **7-14.2 Materials**

15 Section 7-14.2 is supplemented with the following:

16
17 The City of Ferndale Standard Fire Hydrants is "M&H model 929". The pumper port shall be
18 oriented to face the main road.

19
20 Fire hydrants shall be painted City colors with two coats of Urethane paint, applied per the paint
21 manufacturer's specifications.

22
23 A blue reflector, installed 1 foot off the road centerline towards the hydrant shall be included in
24 the bid item.

25
26 All labor, equipment, and materials necessary to connect fire hydrants shall be incidental to the
27 unit bid prices. Materials include, but are not limited to: gate valves, fittings, spool fittings,
28 restraints, and thrust blocks."

29
30 **7-14.5 Payment**

31 Section 7-14.5 is supplemented with the following:

32
33 The unit contract price per each for "Hydrant Assembly" shall be full compensation for all costs
34 for labor, material, and equipment to install spool fittings, restraints, thrust blocks, auxiliary gate
35 valve, shackles, tie rods, concrete blocks, painting required for the complete installation of the
36 hydrant assembly as specified, lateral tee and 6" ductile iron watermain to hydrant, hydrant, and
37 blue raised pavement marker.

38
39 **7-15 SERVICE CONNECTIONS**

40
41 **7-15.1 Description**

42 Section 7-15.1 is supplemented with the following:

43
44 This work consists of installing new service connections, replacing existing services, and
45 abandoning existing water service connections as shown on the Plans or at the direction of the
46 Engineer.

47
48 All work is to be in conformance with City standards for water services.
49
50

1 **7-15.2 Materials**

2 Section 7-15.2 is supplemented with the following:

3
4 All fittings shall be brass. Saddles shall be as shown on the Plans with I.P. standard tapping.
5 Corporation stops shall be Ford F700, or approved equal with inlet I.P. standard thread and
6 outlet thread compatible with Type K copper connection piping, with no special adapters,
7 minimum 150 psi.

8
9 Within the right-of-way, service piping shall be copper tubing and shall conform to the
10 requirements of ASTM B88, Type K annealed. All underground fittings shall be flared
11 within the right-of-way.

12
13 **7-15.3 Construction Requirements**

14 Section 7-15.3 is supplemented with the following:

15
16 **General**

17 New type K copper tubing shall be installed between the watermain and the meter setter
18 location. The Contractor shall provide and install a new meter, meter setter, and meter box
19 for all service connections, in accordance with the City of Ferndale Standards. All existing
20 water meters, setters, and boxes shall be salvaged by the Contractor and delivered to the City
21 of Ferndale Maintenance Shop.

22
23 Service connections shall include connection to the existing service line on the customer side
24 of the meter. The proposed meter and meter setter shall be installed at the correct elevation
25 below subgrade as shown in the plans. If the proposed meter setter is above or below the
26 existing service line on the customer side of the meter, this work shall include all pipe,
27 fittings, materials, tools, and labor to connect the customers' service line to the new setter.

28
29 Existing water services shall be abandoned at the existing water main by closing the
30 corporation stop, disjointing the water service pipe from the corporation stop, and removing
31 the existing water service line a minimum of 2 feet from the watermain.

32
33 Various items of work in this contract may require disruption of water service to customers
34 on adjacent properties. The Contractor shall keep the service disruptions to an absolute
35 minimum. When more than one item of work requires disruption of the same utility service
36 to the same customer, the Contractor shall schedule the work so that the customer's service is
37 disrupted only once. The Contractor shall be responsible for determining which residents
38 will be affected by shutoffs, and will notify them a minimum of 24 hours in advance. The
39 Contractor shall locate and verify the type of pipe, size, and depth prior to making the
40 connection. Detailed sketches and plans of the connection proposed by the Contractor shall
41 be given to the Engineer not less than one week prior to the expected construction. The City
42 of Ferndale shall be notified not less than two (2) working days prior to connection to
43 existing mains.

44
45 Any disrupted services shall be restored before the end of each working day. Overnight
46 disruptions will not be permitted. If, in the opinion of the Engineer, service has not been

1 restored in a satisfactory manner, the Engineer may take whatever action is necessary to
2 restore service. The cost of such action will be deducted from any payments due or coming
3 due the Contractor.
4

5 **Coordination of Work**

6 The Contractor shall notify the City of Ferndale Public Works Department at 384-4006, 48
7 hours prior to disconnection of the existing meter. The Contractor shall tag the existing
8 meters to be removed with the corresponding address which is served by that meter and
9 meter reading at time of removal. Once removed these meters shall be delivered to the City
10 of Ferndale Maintenance Shop.
11

12 The Contractor shall coordinate with the City of Ferndale for the collection of the existing
13 meter. The existing water meter shall not be removed and service shall not be interrupted
14 until the new water meter is on hand.
15

16 **7-15.3(1) Flushing and Disinfection**

17 Section 7-15.3(1) is supplemented with the following:
18

19 Service testing shall be done in conjunction with water main testing. An acceptance
20 inspection will be made by the Engineer upon completion of all project work. During the
21 inspection, every service shall be turned on to its full capacity to check flow and guarantee
22 that each service line has been flushed. In no case shall the acceptance inspection be made
23 until all project work is complete. Damage incurred during other construction work on the
24 project shall be corrected by the Contractor prior to acceptance by the Engineer.
25
26

27 The following new Section is added:
28

29 **7-15.3(2) Adjustments to Finished Grade**

30 Existing water meter and irrigation boxes, which are to remain shall be adjusted to finished
31 grade. This work shall be included in the bid item "Adjustments to Finished Grade."
32
33

34 **7-15.5 Payment**

35 Section 7-15.5 is supplemented with the following:
36

37 The unit contract price per each for "Service Connection, ___ In. Diam." and shall be full pay
38 for all work to install the meter boxes, meter setter, gate valve, service connection, including
39 but not limited to, excavating, tapping the main, laying and jointing the pipe and fittings and
40 appurtenances, backfilling, testing, flushing and disinfection of the service connection, and
41 other appurtenances to the location shown on the plans.
42
43
44
45
46

1 **7-17 SANITARY SEWERS**

2
3 **7-17.1 Description**

4 *(June 10, 2009 R&E GSP)*

5
6 Section 7-17.1 is supplemented with the following:

7
8 Realignment of existing sanitary sewer services may be necessary to allow installation of the
9 new storm drain pipe.

10
11 **Materials**

12 Section 7-17.2 is supplemented with the following:

13
14 All trenches within the roadbed section shall be backfilled with import gravel meeting the
15 requirements of Section 4-02.2.

16
17 **Measurement**

18 Section 7-17.4 is supplemented with the following:

19
20 Measurement for Sanitary Sewer Pipe, as indicated on the Bid Proposal, shall be per linear
21 foot. The following items shall be incidental and included in the unit price per linear foot:

- 22
23 1. Dewatering if required
24 2. Detectable marking tape
25 3. Pipe bedding as shown on the Plans
26 4. Compaction
27 5. Installation of sanitary sewer pipe
28 6. Coupling bands, fittings, and associated gaskets
29 7. Pipe Insulation
30 8. Connection to existing structures
31 9. Other work and materials, not specifically identified as being paid elsewhere

32
33 **Payment**

34 Section 7-17.5 is supplemented with the following:

35
36 The unit Contract price per linear foot for sewer pipe of the kind and size specified shall be
37 full pay for connections to existing mains.
38
39

1 **7-18 SIDE SEWERS**

2
3 **7-18.1 Description**

4 Section 7-18.1 is supplemented with the following:

5
6 Realignment and repair of the existing sanitary sewer services may be necessary to allow
7 installation of the new storm drain pipe.

8
9 **7-18.3(1) General**

10
11 Connections to the existing sewer main shall not be made without first making the necessary
12 scheduling arrangements with the Engineer in advance. Work shall not be started until all the
13 materials, equipment, and labor necessary to properly complete the work are assembled on
14 the site.

15
16 Existing side sewers shall be cut by the Contractor, unless otherwise specified in the Special
17 Conditions. The Contractor shall remove the portions of pipe to provide for the installation
18 of the required fittings at the points of connection. Damage caused by the Contractor's
19 operations to existing joints in piping to remain in-service shall be repaired by the Contractor
20 at no additional expense to the Contracting Agency.

21
22 Once work is started on a side sewer, it shall proceed continuously without interruption and
23 as rapidly as possible until completed. No shutoff will be permitted overnight, over
24 weekends, or on holidays.

25
26 If the connection to the existing side sewer system involves turning off the side sewer, the
27 Contractor shall be responsible for notifying the residents affected by the shutoff. The
28 Engineer will advise which property owners are to be notified.

29
30 The Contractor may be required to perform the connection during times other than normal
31 working hours.

32
33 The types of connections for the side sewers are varied. For the installation of these side
34 sewers, the surfaced portion of the roadway shall not be penetrated unless the connection
35 point is directly under it.

36
37 **7-18.5 Payment**

38
39 Section 7-18.5 is supplemented with the following:

40
41 Potholing required to determine the connection point at the right of way shall be paid under
42 the bid item "Pothole Existing Underground Utility."

1 **DIVISION 8**
2 **MISCELLANEOUS CONSTRUCTION**

3
4 **8-01 EROSION CONTROL AND WATER POLLUTION CONROL**

5
6 **8-01.3 Construction Requirements**

7
8 **8-01.3(1) General**

9 Section 8-01.3(1) is supplemented with the following:

10
11 The Contractor shall prepare a Stormwater Pollution Prevention (SWPP) Plan in compliance
12 with the most current edition of the Department of Ecology's Stormwater Management
13 Manual for Western Washington, Volume II – Construction Stormwater Pollution Prevention
14 and the NPDES Permit. The Contractor's ESC Lead shall coordinate with the Contracting
15 Agency in preparing the SWPP Plan. The SWPP Plan is to remain onsite throughout the
16 duration of construction.

17
18 **8-01.4 Measurement**

19 Section 8-01.4 is supplemented with the following:

20
21 No specific unit of measure shall apply to the lump sum item "ESC Lead."

22
23 No specific unit of measurement will apply for the lump sum bid item "SWPP Plan
24 Preparation".

25
26 **8-01.5 Payment**

27 The first item, "ESC Lead", of Section 8-01.5 is revised to read:

28
29 "ESC Lead", lump sum.

30
31 The sixth item, "Stabilized Construction Entrance" of Section 8-01.5 is revised to read:

32
33 "Stabilized Construction Entrance", per square yard. The unit contract price per square yard
34 for stabilized construction entrance shall include all costs associated with constructing,
35 operating, maintaining, and removing the stabilized construction entrance.

36
37 The ninth item, "Inlet Protection" of Section 8-01.5 is revised to read:

38
39 "Inlet Protection", per each. The unit contract price per each for inlet protection shall include
40 all costs for removal and disposal of accumulated debris, inlet protection maintenance, and
41 inlet protection removal and disposal.

42
43 The tenth item, "Silt Fence" of Section 8-01.5 is revised to read:

44
45 "Silt Fence", per linear foot. The unit contract price per liner foot for silt fence shall include
46 all costs for removal and disposal of accumulated debris, silt fence maintenance, and silt

1 fence removal and disposal.

2
3 “SWPP Plan Preparation”, Lump Sum

4 The lump sum price for SWPP Plan Preparation shall be full compensation for all labor,
5 materials, tools and equipment to satisfactorily complete the work as necessary and defined
6 in the Standard Specifications, these Special Provisions, and the Plans.

7
8 **8-02 ROADSIDE RESTORATION**

9
10 **8-02.1 Description**

11 Section 8-02.1 is supplemented with the following:

12
13 Furnish all labor, materials and equipment necessary for installation of planting and
14 installation of topsoil and soil amendments, including but not limited to the preparation of the
15 ground surface, installation of soil amendments, application of fertilizer, installation of seed,
16 and chemicals as necessary in areas shown on the Plans, as specified in this document, or as
17 directed by the Engineer in accordance with these specifications.

18
19 The extent and location of seeding work includes all areas in this project , except new plant
20 beds and paved areas, which are disturbed by construction, grading, pavement removal,
21 utility installation and any other of the Contractor’s operations or as directed by the Engineer
22 in accordance with these specifications.

23
24 The Contractor shall provide 48 hours notice to the Engineer when an inspection is desired.

25
26 **8-02.3 Construction Requirements**

27
28 **8-02.3(4) Topsoil**

29 *(March 18, 2010 R&E GSP)*

30 Section 8-02.3, revise the 1st sentence of this Section to read:

31
32 Topsoil shall be evenly spread over the specified areas to a depth of four (4) inches or as
33 otherwise directed by the Engineer. The soil shall be cultivated to a depth of 6 inches. After
34 the topsoil has been spread, all large clods, hard lumps, and rocks 3 inches in diameter and
35 larger, and litter shall be raked up, removed, and disposed of by the Contractor. The area
36 shall then be rolled with a landscape roller in at least 1 direction at a velocity not to exceed 2
37 feet per second. Spread topsoil after subgrade preparation is complete. Topsoil shall not be
38 placed when the ground or topsoil is frozen, inundated with water, or in a condition
39 detrimental to the Work -- Saturated soil is preferred, or in the opinion of the Engineer.

40
41 **8-02.3(4)A Topsoil Type A**

42 *(April 21, 2010 R&E GSP)*

43 Section 8-02.3(4)A is supplemented with the following:

44
45 Topsoil Type A shall be used for seeded lawn installation.

1 **8-02.3(11) Bark or Wood Chip Mulch**

2 Section 8-02.3(11) is supplemented with the following:

3
4 Wood Cellulose mulch shall be applied at a rate of 2,000 pounds per acre. To improve
5 germination of seeds, this rate may be increased with approval by the Engineer.
6

7 **8-02.3(16) Lawn Installation**

8 *(April 22, 2010 R&E GSP)*

9 Section 8-02.3(16) is supplemented with the following:

10
11 The Contractor shall perform lawn installation in accordance with the following:
12 Immediately prior to seeded lawn installation, a nominal four (4) inch depth of "Topsoil Type
13 A" shall be placed in the areas requiring seeded lawn installation or as directed by the
14 Engineer. Peat moss mulch shall be applied to a depth of 1/4 inch over newly seeded lawn
15 area. The area shall then be rolled with a landscape roller in at least 1 direction at a velocity
16 not to exceed 2 feet per second. Alternatively, a seed of fabric mulch mat shall be installed
17 as approved by the Engineer.
18

19 "Seeded Lawn Installation" will be paid where construction, filling excavation, and grading
20 have disturbed unimproved areas. This will generally consist of areas behind the sidewalk
21 where no established lawns or landscaping currently exist. "Seeded Lawn Installation" shall
22 be placed on all exposed soil disturbed by construction or any area directed by Engineer.
23 "Seeded Lawn Installation" shall also be placed on all fill and cut areas outside roadway
24 surface width, within the project limits.
25

26 The intent of seeding is to produce viable roadside vegetation toward the end of preventing
27 erosion. If seeding has not germinated satisfactorily at the time of final acceptance, this work
28 will be considered defective according to Section 1-05.7 of the Standard Specifications. The
29 Engineer may require the Contractor to post security equal to 200% of the amount bid for
30 seeding in order to secure performance of this germination specification. This security shall
31 be in a form acceptable to the City and may be required prior to release of retainage of this
32 project. Said security shall not be released until satisfactory germination has occurred. Any
33 erosion, which in the opinion of the Engineer, occurs directly as a result of insufficient seed
34 germination shall be repaired by the Contractor at no additional expense to the City. Any
35 such repairs shall be completed prior to project acceptance or release of security as identified
36 herein. Satisfactory germination is defined as a minimum of 300 stems per square foot. Any
37 area in which two consecutive one square foot plots sampled fall below this standard will be
38 considered defective and shall be corrected by the Contractor.
39

40 The dates for seeding outlined in Section 8-02.3(16)A of the Standard Specifications will be
41 considered guidelines rather than requirements for this item. The Contractor shall use
42 professional judgment and consider factors such as weather and soil moisture to obtain
43 satisfactory germination."
44

45 Immediately after hydroseeding, the Contractor shall remove hydroseed overspray from all
46 features other than the intended seeding area."

1
2 **Binding Agents**

3
4 Tacking agents and soil binders shall be provided in accordance with Section 8-01.3(2)E.
5

6 **8-02.4 Measurement**

7 *(February 7, 2008 R&E GSP)*

8 Section 8-02.4, is supplemented with the following:
9

10 No separate measurement will be made for composted mulch, water and fertilizer, and
11 binding agent, where applied for "Seeded Lawn Installation".
12

13 *(March 18, 2010 R&E GSP)*

14 Section 8-02.4, is supplemented with the following:
15

16 Work performed under the item "Landscape Restoration" shall be measured in accordance
17 with Section 1-09.6 Force Account.
18

19 **8-02.5 Payment**

20 *(February 7, 2008 R&E GSP)*

21 Section 8-02.5 is supplemented with the following:
22

23 The unit contract price per square yard for "Seeded Lawn Installation" shall be full
24 compensation for all labor, materials (topsoil, fertilizer, mulch, soil amendments, binding
25 agents, and water), tools and equipment necessary to perform the work as specified herein.
26 All other items in this Section, not specified on the Bid Proposal form shall be included in the
27 cost of "Seeded Lawn Installation". The unit price shall be full compensation for multiple
28 applications in areas required by the Engineer as the work progresses.
29

30 Payment for "Landscape Restoration" shall be on a force account basis as per Section 1-09.
31 For the purpose of providing a common proposal for all bidders, and for that purpose only,
32 the Contracting Agency has established the amount of force account for this item and has
33 entered the amount in the bid proposal to become a part of the total bid by the Contractor.
34

35 **8-04 CURBS, GUTTERS, AND SPILLWAYS**

36
37 **8-04.3 Construction Requirements**

38
39 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

40 Section 8-04.3(1) is supplemented with the following:
41

42 Depressed curb driveways and wheel chair ramp openings shall be provided at such locations
43 as directed by the Engineer or shown on the Plans. All curved sections with a radius less
44 than 500 feet shall be formed in arc sections to match the radii detailed in the Plans. The
45 Contractor shall provide temporary ramps over new concrete curbing at driveway locations.
46 Concrete placement shall be accomplished with line and grade control such that a 10-foot

1 long straight edge placed on the concrete surface in the gutter or against the face of the curb
2 shows no variance greater than 1/8 inch in grade or 1/4 inch on line, except at a designed
3 angle point. Under no circumstances shall variances be allowed that cause drainage away
4 from the catch basin or other drainage structures.
5

6 Curb drains shall be constructed of 2-inch PVC pipe or other material subject to approval of
7 the Engineer, cut to length to pass from the back of curb through the curb to the face of the
8 curb at the gutter line. Spacing will be maximum of 50 feet, center to center, and/or each
9 side of the driveways and at such locations as designated by the Engineer or as shown on the
10 Plans.
11

12 The first paragraph is revised to read:
13

14 Cement concrete curb, curb and gutter, gutter, and spillway shall be constructed with air
15 entrained concrete Class 3000 conforming to the requirement of Section 6-02 except at
16 driveway entrances. Cement concrete curb or curb and gutter along the full width of a
17 driveway entrance shall be constructed with air entrained concrete Class 4000 conforming to
18 the requirements of Section 6-02.
19

20 The fourth paragraph is revised to read:
21

22 Expansion joints in the curb or curb and gutter shall be spaced at 15-foot intervals, the
23 beginning and ends of curb returns, drainage structures, bridges, and cold joints with existing
24 curbs and gutters. The expansion joint shall be filled to full cross-section with 3/8-inch
25 premolded joint filler. When curb or curb and gutter is placed adjacent to Portland Cement
26 Concrete Pavement, a 1/4-inch thick, 6-inch deep premolded joint filler shall be installed
27 between the two vertical surfaces to prevent cracking. When noted in the Plans, the
28 Contractor shall install the catch basin gutter pan at drainage structures abutting the curb and
29 gutter.
30

31 **8-04.5 Payment**

32 Section 8-04.5, is supplemented with the following:
33

34 Payment for cement concrete curb and gutter shall be at the unit price bid per lineal foot and
35 shall be full compensation for all labor, equipment, and materials necessary to construct this
36 item, as specified in place, including curb drains, depressed curb driveways and wheel chair
37 ramp openings. This item includes all excavation, grading, and placement of backfill
38 necessary to construct cement concrete curb and gutter which are not identified as part of
39 other bid items.
40

41 **8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES**

42 **8-06.3 Construction Requirements**

43 *(February 8, 2008 R&E GSP)*
44

45 Section 8-06.3 is supplemented with the following:
46

1 Driveways shall meet the following minimum requirements.

- 2 1. 3/8-inch premolded joint filler shall be placed at 20 foot centers, maximum and shall be
- 3 matched to curb and gutter joints.
- 4 2. 'V' grooves shall be scored 3/4-inch deep at five-foot intervals.
- 5 3. Driveway sections shall be brush finished longitudinally with a fiber brush.
- 6 4. For driveways wider than 20 feet, place 3/4-inch deep 'V' groove at the mid-point. For
- 7 driveways greater than 30 feet wide, place 3/4-inch deep 'V' groove at one-third points.
- 8 5. All joints shall be cleaned and edged.
- 9 6. The back of some driveways may be depressed at the direction of the Engineer.
- 10 7. Driveways shall have a uniform thickness of 8-inches.
- 11 8. Six (6) inches of compacted gravel base shall be placed beneath driveways.

12 **8-06.5 Payment**

13 Section 8-06.5 is supplemented with the following:

14 "Cement Conc. Driveway Entrance ___ In. Thick", per square yard.

15 All costs in constructing the driveway entrance, including pedestrian curb, in segments and

16 installing and removing the temporary approach shall be included.

17 **8-09 RAISED PAVEMENT MARKERS**

18 **8-09.1 Description**

19 Section 8-09.1 is supplemented with the following:

20 This work includes the installation of Blue Raised Pavement Markers at the location

21 indicated on the Plans and in the Specifications.

22 **8-09.3 Construction Requirements**

23 Section 8-09.3 is supplemented with the following:

24 A blue reflector, shall be installed 1 foot off the road centerline towards the hydrant.

25 **8-09.4 Measurement**

26 Section 8-09.4 is supplemented with the following:

27 Blue raised pavement markers shall not be measured and shall be considered incidental to

28 the bid item "Hydrant Assembly" per Section 7-14.

29 **8-14 CEMENT CONCRETE SIDEWALKS**

30 **8-14.1 Description**

31 Section 8-14.1 is supplemented with the following:

32 This work shall consist of constructing cement concrete sidewalks and sidewalk ramps, in

33 accordance with details shown in the Plans and these Specifications and in conformity to

1 lines and grades shown in the Plans or as established by the Engineer. Replacement or
2 matching to existing driveways shall be completed with a similar material and finish as that
3 which exists or as directed by the Engineer.
4

5 **8-14.3 Construction Requirements**

6 Section 8-14.3 is supplemented with the following:
7

8 Sidewalks shall meet the following minimum requirements.
9

- 10 1. Sidewalks shall have a uniform thickness of 4-inches.
- 11 2. All curved sections shall be formed in arc sections to match the radii detailed in the Plans
- 12 3. 3/8-inch through joints shall be placed 20 feet center to center, and shall be matched to
- 13 curb and gutter joints.
- 14 4. "V" grooves shall be scored 3/4-inch deep at five-foot intervals.
- 15 5. All joints shall be cleaned and edged.
- 16 6. The Contractor shall provide temporary ramps over new concrete curbing at driveway
- 17 locations.
- 18 7. Two (2) inches of washed rock shall be placed beneath sidewalks. Washed rock shall
- 19 conform to Section 9-03.12(5).
20

21 **8-14.3(4) Curing**

22 Section 8-14.3(4) is supplemented with the following:
23

24 It shall be the Contractor's responsibility to protect curing concrete until it is set to prevent
25 vandalism. Any repairs needed to correct vandalism during the initial set period, including
26 full replacement of the damaged panel, shall be at the expense of the Contractor and subject
27 to approval of the Engineer.
28

29 **8-14.4 Measurement**

30 Section 8-14.4 is supplemented with the following:
31

32 Cement concrete sidewalk ramps constructed where the sidewalk ends and matches the HMA
33 shall be measured under the bid item "Cement Concrete Sidewalk".
34
35
36

1 **8-14.5 Payment**

2 Section 8-14.5 is supplemented with the following:

3
4 Payment for "Cement Concrete Sidewalk" and "Cement Concrete Sidewalk with Raised
5 Edge", shall be at the unit price bid per square yard of cement concrete in place and shall be
6 full compensation for all labor, equipment, and material necessary to construct this item in
7 place, including driveway sections and repair sections, as specified including leveling and
8 grading subgrade. Washed rock, and cement concrete pedestrian curb, shall be considered
9 incidental to this bid item

10
11 Payment for "Reinforced Cement Concrete Sidewalk, 6 In. Thick" shall be at the unit price
12 bid per square yard of cement concrete in place and shall be full compensation for all labor,
13 equipment, and material necessary to construct this item in place, as specified including
14 leveling and grading subgrade. Washed rock shall be considered incidental to this bid item.
15 Reinforcing bar for "Reinforced Cement Concrete Sidewalk, 6 In. Thick", shall be incidental
16 to the bid item.

17
18 "Cement Conc. Curb Ramp Type ____", per each

19 The unit Contract price per each for "Cement Concrete Curb Ramp Type ____" shall be full
20 pay for installing the curb ramp as specified, including the "Detectable Warning Surface" and
21 leveling and grading subgrade. Washed rock, and cement concrete pedestrian curb, shall be
22 considered incidental to this bid item

23
24 Cement concrete sidewalk ramps constructed where the sidewalk ends and matches the HMA
25 shall be paid under the bid item "Cement Concrete Sidewalk".

26
27 **8-18 MAILBOX SUPPORT**

28
29 **8-18.3 Construction Requirements**

30 Section 8-18.3 is supplemented with the following:

31
32 The contractor shall salvage existing mailboxes for use on the new mailbox supports. All
33 relocated mailboxes shall have new mailbox supports, Type 1 or Type 2 in accordance with
34 the Standard Plans unless otherwise noted.

35
36 The contractor shall maintain temporary mailboxes and mailbox supports as necessary
37 during construction to ensure that mail delivery is uninterrupted during the duration of the
38 project. Coordination with the United States Postal Service and the property owner or
39 tenant will be the responsibility of the Contractor.

40
41 **8-18.5 Payment**

42 Section 8-18.5 is supplemented with the following:

43
44 All costs for temporary mailboxes, temporary mailbox supports and salvage and relocation of
45 existing mailboxes shall be included in and incidental to the unit bid items for mailbox
46 supports as indicated on the bid proposal form.

1 **8-21 PERMANENT SIGNING**

2
3 **8-21.2 Materials**

4 Section 8-21.2 is supplemented with the following:

5
6 Permanent signs shall be mounted on Type ST-2 Sign Supports.

7
8 **8-21.3 Construction Requirements**

9
10 **8-21.3(4) Sign Removal**

11 Section 8-21.3(4) is supplemented with the following:

12
13 All signs removed and not relocated shall be salvaged without damage and delivered to the
14 City of Ferndale shop yard located on Legoe Street. The contractor shall take care to
15 salvage all signs, posts and concrete sign post bases or sleeves.

16
17 Delivery shall occur during the hours of 7:00 a.m. to 3:30 p.m. Monday thru Friday. Five
18 days written advance notice shall be delivered to the Engineer prior to delivery. Material
19 will not be accepted without the required advance notice.

20
21 Equipment damaged during removal or delivery shall be repaired or replaced to the
22 Engineer's satisfaction at no cost to the Contracting Agency.

23
24 The Contractor shall be responsible for unloading the equipment where directed by the
25 Engineer at the delivery site.

26
27 **8-21.5 Payment**

28 Section 8-21.5 is supplemented with the following:

29
30 The lump sum price in the Proposal will be full compensation for the costs of all labor,
31 tools, equipment, and materials necessary or incidental to provide all signs, supports, and
32 mounting hardware.

33
34 **8-22 PAVEMENT MARKING**

35
36 **8-22.1 Description**

37 Section 8-22.1 is supplemented with the following:

38
39 Also included in this item is the complete removal of existing and temporary pavement
40 markings that will conflict with the new channelization. This work shall be incidental to the
41 various bid items of the Contract, and no additional compensation will be made.

42
43 **8-22.2 Materials**

44 Section 8-22.2 is supplemented with the following:

1 In accordance with Section 8-22.2 of the Standard Specifications, the plastic material used
2 to form pavement markings shall be Type A – liquid hot applied thermoplastic.

3
4 **8-22.3 Construction Requirements**
5 *(February 11, 2008 R&E GSP)*

6
7 Section 8-22.3 is supplemented with the following:

8
9 Pavement markings shall be applied with appropriate templates to avoid non-uniform edges
10 and unwanted drippings. Any such non-conforming pavement markings will be removed and
11 replaced at the Contractors expense.

12
13 **8-22.3(1) Preliminary Spotting**

14 Section 8-22.3(1) is supplemented with the following:

15
16 The Contractor shall notify the Engineer three (3) working days in advance of scheduled
17 preliminary spotting.

18
19 **8-23 TEMPORARY PAVEMENT MARKINGS**

20
21 **8-23.1 Description**

22 Section 8-23.1 is supplemented with the following:

23
24 The temporary centerline striping shall be 1-foot of stripe for every 25-feet of roadway.
25 Temporary marking will be incidental to the bid proposal item for HMA in accordance with
26 Section 5-04.

27
28 The following new Section is created:

29
30 **8-30 POTHOLE EXISTING UNDERGROUND UTILITY**

31
32 **8-30.1 Description**

33
34 When directed by the Engineer or shown on the Plans, this work shall consist of potholing
35 existing underground utilities. The Contractor shall perform utility investigations or
36 coordinate with utility companies as required. At the direction of the Engineer, the
37 Contractor shall perform exploratory excavations or provide hand potholing as required to
38 collect as-built utility information. The Contractor shall verify the depth and location of
39 existing underground utilities. The Contractor shall immediately notify the Engineer if field
40 conditions differ from that shown on the Plans. The Contractor shall give the owner advance
41 notice of four (4) working days, prior to conducting such investigations.

1 **8-30.4 Measurement**

2
3 Measurement for potholing existing underground utilities will be by the unit for each
4 pothole.

5
6 **8-30.5 Payment**

7 Payment will be made in accordance with Section 1-04.1, for the following bid items:

8
9 “Pothole Existing Underground Utility”, per each.

10 The unit contract price per each for “Pothole Existing Underground Utility” shall be full
11 compensation for all equipment, labor, and materials to locate the existing utility, verify the
12 utilities’ vertical and horizontal location, and restoring the disturbed area.

13
14 The following new Section is created:

15
16 **8-31 REPAIR EXISTING PUBLIC AND PRIVATE FACILITIES**

17
18 **8-31.1 Description**

19
20 This work shall consist of the repair of existing public and private facilities, and the
21 correction, repair, removal, or construction of items as directed by the Engineer. This shall
22 not exempt the contractor from protecting known existing facilities, or from the
23 responsibility for repair of such known existing facilities.

24
25 **8-31.3 Construction Requirements**

26
27 The contractor shall obtain written or verbal approval from the Engineer, prior to proceeding
28 with any repair of existing or private facilities. Work performed without approval from the
29 Engineer will not be compensated.

30
31 The Contractor and the Contracting Agencies’ representative or Engineer shall reconcile the
32 hours of work for labor and equipment on a daily basis for the purpose of tracking all work
33 under this item. The Contractor shall supply the Engineer with material invoices for all
34 materials incorporated into this work in a timely manner. Invoices shall be original or copies
35 of original invoices from the material supplier.

36
37 **8-31.4 Measurement**

38
39 Work performed under the item “Repair Existing Public and Private Facilities” shall be
40 measured in accordance with Section 1-09.6 Force Account.

1 **8-31.5 Payment**

2
3 Payment for the item “Repair Existing Public and Private Facilities” shall be full
4 compensation for all labor, tools, equipment, materials and subcontractor work needed to
5 complete individual items of work as directed by the engineer. This item shall be paid in
6 accordance with Section 1-09.6 Force Account.

7
8 The following new Section is created:

9
10 **8-32 UNANTICIPATED SITE WORK**

11
12 **8-32.1 Description**

13
14 Unanticipated site work shall be performed at locations designated by the Engineer, and at
15 locations proposed by the Contractor and approved by the Engineer.

16
17 **8-32.3 Construction Requirements**

18
19 The Contractor and the Contracting Agencies’ representative or Engineer shall reconcile the
20 hours of work for labor and equipment on a daily basis for the purpose of tracking all work
21 under this item. The Contractor shall supply the Engineer with material invoices for all
22 materials incorporated into this work in a timely manner. Invoices shall be original or copies
23 of original invoices from the material supplier.

24
25 **8-32.4 Measurement**

26
27 Work performed under the item “Unanticipated Site Work” shall be measured in accordance
28 with Section 1-09.6 Force Account.

29
30 **8-32.5 Payment**

31
32 Payment will be made in accordance with Section 1-04.1, for the following bid item:
33 “Unanticipated Site Work,” by force account as provided in Section 1-09.6. To provide a
34 common proposal for all bidders, the Contracting Agency has entered an amount in the
35 proposal to become a part of the Contractor’s total bid.

1 **DIVISION 9**
2 **MATERIALS**

3
4 **9-03 AGGREGATES**

5
6 **9-03.8 Aggregates for Hot Mix Asphalt**

7
8 **9-03.8(2) HMA Test Requirements**
9 *(March 10, 2010 APWA GSP)*

10
11 Section 9-03.8(2) is supplemented with the following:

12
13 ESAL's

14 The number of ESAL's for the design and acceptance of the HMA shall be 2 million.

15
16 **9-03.8(7) HMA Tolerances and Adjustments**
17 *(March 10, 2010 APWA GSP)*

18
19 Delete Item 1 and replace it with the following:

- 20
21 1. **Job Mix Formula Tolerances.** After the JMF is determined as required in 5-04.3(7)A, the
22 constituents of the mixture at the time of acceptance shall conform to the following
23 tolerances:
24

	Nonstatistical Evaluation	Commercial Evaluation
Aggregate, percent passing		
1", ¾", ½", and 3/8" sieves	±6%	±8%
U.S. No. 4 sieve	±6%	±8%
U.S. No. 8 sieve	±6%	±8%
U.S. No. 200 sieve	±2.0%	±3.0%
Asphalt Binder	±0.5%	±0.7%

25
26 These tolerance limits constitute the allowable limits as described in Section 1-06.2. The
27 tolerance limit for aggregate shall not exceed the limits of the control points section, except
28 the tolerance limits for sieves designated as 100% passing will be 99-100. The tolerance
29 limits on sieves shall only apply to sieves with control points.
30
31

1 **9-03.10 Aggregate for Gravel Base**

2 *(December 28, 2009 R&E GSP)*

3
4 Section 9-03.10 is revised to read:

5
6 Gravel base shall consist of granular material, either naturally occurring or processed. It
7 shall be essentially free from various types of wood waste or other extraneous or
8 objectionable materials. It shall have such characteristics of size and shape that it will
9 compact readily and the maximum particle size shall not exceed 1/2 of the depth of the layer
10 being placed.

11
12 Gravel base shall meet the following requirements for grading and quality when placed in
13 hauling vehicles for delivery to the roadway or during manufacture and placement into a
14 temporary stockpile. The exact point of acceptance will be determined by the Engineer.

<u>Sieve Size</u>	<u>Percent Passing</u>
4" square	100
1-1/2" square	70-100
1/2" square	35-80
U.S. No. 4	15-50
U.S. No. 40	20 max
U.S. No. 200	5.0 max

23
24 Sand Equivalent shall be 40 min.

25
26 All percentages are by weight.

27 Gravel base material retained on a No. 4 sieve shall contain not more than 0.20 percent by
28 weight of wood waste.

29
30 **9-14 EROSION CONTROL AND ROADSIDE PLANTING**

31
32 **9-14.1 Soil**

33
34 **9-14.1(1) Topsoil Type A**

35
36 General: Topsoil shall be free draining, fertile, friable sandy loam, and shall supply the
37 following composition requirements: weed and seed free; pH between 5.5 and 7.5; maximum
38 particle size to 1/2 inch, with 97% to 100% passing the 3/8 inch screen; soluble salts shall not
39 exceed 4.0 mmho/cm; free of clay lumps, litter and toxic matter harmful to plant growth.
40 Components shall conform to the requirements indicated. Percentages below are by volume.
41 Mixing of the soil components shall not occur on site.

	Sand	Compost	Sandy Loam
Topsoil for turf, rough grass and plant bed areas	34%	33%	33%

1 Top Sand: Conform to the following analysis using Tyler Standard Screens - Equivalent U.S.
2 Series Number:

3 Sieve Size	Percent Passing by Weight
4 #4	100%
5 #10	95-100%
6 #16	85-100%
7 #30	75-90%
8 #60	15-30%
9 #100	0-5%
10 #200 (wet sieve)	0-1.5%

11 Composted Mulch: Material shall be derived from aerobic decomposition of recycled plant
12 waste fully composted; material shall be composted on a paved surface and shall have a
13 moisture content of between 20% and 40%; no visible free water or dust shall be produced
14 when handling the material; fresh sawdust or fresh wood by products shall not have been
15 added after the composting process has begun. No recycled sanican waste shall be used. Yard
16 waste shall be from permitted composting facility. Pure organic matter content shall be
17 between 30% and 50% by weight. 100% of composted yard waste shall pass the 7/16 inch
18 screen and a minimum 50% shall pass the 1/4" screen. Material shall be maintained at a 15%
19 oxygen level throughout the composting process.

20
21 Sandy Loam: Shall be derived from the "A" horizon of naturally occurring, free draining,
22 friable soils. Soils with a high clay content will be rejected. Submit separate sample for
23 approval prior to mixing.

24 **9-14.2 Seed**

25 Section 9-14.2 is supplemented with the following:

26
27
28 Grass seed for Seeded Lawn Installation shall be a blended seed mixture of non-leafy grasses
29 of a commercial grade for home lawn use. The composition, proportion, and quality shall be
30 subject to the advance approval of the Engineer. Grass seed mixtures for playgrounds,
31 pastures, roadside seeding, or other non-residential use shall not be allowed. The approved
32 grass seed mixture shall be applied to the rate of five pounds per 1,000 square feet.

33 **9-14.3 Fertilizer**

34 Section 9-14.3 is supplemented with the following:

35
36
37 The Contractor shall supply a commercially available starter fertilizer designed by the
38 manufacturer for use in new lawn installation applications. The fertilizer formula and
39 application rate shall provide the following types and amounts of nutrients at a minimum:

40
41 Total Nitrogen as N - One pound per thousand square feet

42 Available Phosphoric Acid as P_2O_5 - One pound per thousand square feet

43 Soluble Potash as K_2O - One pound per thousand square feet.

44 50-60 percent of the total nitrogen shall be derived from ureaform or ureformaldehyde.
45 The remainder may be derived from any source.

46

(August 5, 2013)

Standard Plans

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 13-037, effective August 5, 2013 is made a part of this contract.

The Standard Plans are revised as follows:

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-70.10

B-10.20 and B-10.40

Substitute “step” in lieu of “handhold” on plan

B-25.20

Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

B-90.40

Offset & Bend details, add the subtitle, “Plan View” above titles

C-16a

Note 1, reference C-28.40 is revised to C-20.10

C-16b

Note 3, reference C-28.40 is revised to C-20.10

C-70.10-00

Elevation, and Barrier Connection Detail, callout for premolded joint filler, revise ¼” to 3/8” Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.10-00

Elevation, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed,

for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.20-00

Elevation, callout for premolded joint filler, revise ¼” to 3/8”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-75.30-00

Elevation, and Plan views, callout for premolded joint filler, revise ¼” to 3/8” ”, Note 1, revise ¼” to 3/8”.

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.10-00

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.20-00

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.30-00

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed, for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-80.40-00

The Welded Wire Reinforcing Substitution Option Table is deleted. The note, “*Optional Substitutions to Welded Wire Reinforcements shall conform to Standard Specification Sections 6-10 and 9-07” is revised to read: “Steel Welded Wire Reinforcement Deformed,

for Concrete may be substituted for reinforcing steel in accordance with Standard Specification 6-10.3.”

C-85.14

General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.15

General Notes, Note 2, reference to Standard Plan C-13 is revised to C-70.10

C-85.16

General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.18

General Notes, Note 1, reference to Standard Plan C-13 is revised to C-70.10

C-85.20

General Notes, Note 3, reference to Standard Plan C-13 is revised to C-70.10

D-3.10

Key Note 7, reference to 1130.04(5).06 is revised to 730.05(5)

F-10.12

Note 1. See Standard Plan F-30.10 for Curb Expansion and Contraction Joint spacing. Is revised to read; “See Standard Plan F-30.10 for Curb Expansion and Contraction Joint spacing and see Standard Specification section 8-04 and 9-04 for additional requirements.”

F-10.62

Plan Title, Precast Concrete Sloped Mountable Curb is revised to read; “Precast Sloped Mountable Curb”

F-10.64

Plan Title, Plan Title, Precast Concrete Dual Faced Sloped Mountable Curb is revised to read; “Precast Dual Faced Sloped Mountable Curb”

F-30.10

Sections, left side of sheet, (4 places), dimension, Sidewalk - 6’ – 0” MIN.(See Contract) is revised to read; “Sidewalk (See Contract)”

Section, top middle of sheet, dimension, Sidewalk – 6’ – 0” MIN. (See Contract) is revised to read; “Sidewalk (See Contract)”

F-80.10

callout, top middle of sheet, Match Sidewalk Width See Contract Plans ~ 4’ – 0” MIN. is revised to read; “Match Sidewalk Width See Contract Plans”

dimension, PLAN VIEW TYPE 2, (2 places), 4’ – 0” MIN, is revised to read; “(See Contract)”

dimension, SECTION C, See Contract Plans ~ 4' - 0" MIN. is revised to read; "See Contract Plans"

G-60.20

Side View, callout, "Anchor Rod ~ 1-3/4" Diam. x 4'-4" Threaded 8" Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1'-0" Min." is revised to read; "Anchor Rod ~ 1-3/4" Diam. x 4'-4" Threaded 8" Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1'-0" Min."

G-60.30

End View, callout, "Anchor Rod ~ 1-3/4" Diam. x 4'-4" Threaded 8" Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1'-0" Min." is revised to read; "Anchor Rod ~ 1-3/4" Diam. x 4'-4" Threaded 8" Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1'-0" Min."

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-50.10

Deleted

J-3b

Sheet 2 of 2, Plan View of Service Cabinet, Boxed Note, "SEE STANDARD PLAN J-6C..." is revised to read: "SEE STANDARD PLAN J-10.10..."

Sheet 2 of 2, Plan View of Service Cabinet Notes, references to Std. Plan J-9a are revised to J-60.05 (3 instances).

J-10.10

Note 2. The contractor shall install the conduits in the locations shown. Conduits shall extend 2" min. above the coupling. The conduit containing unfused utility conductors shall extend into the utility chase is revised to read:

"The contractor shall install the conduits in the locations shown. Conduits shall extend 2" min. above the coupling. The grounded end bushing on GRS conduit and the end bell bushing on PVC conduit shall extend 3" max. above the coupling. The conduit containing unfused utility conductors shall extend into the utility chase."

Note 4. The cabinets shall be attached to the foundation with 4 each: 1/2" x 12" x 2" x 4" hot dip galv. anchor bolts, washers, and nuts. Stainless steel epoxy anchors may be used as an alternative, and shall be 1/2" diam. x 9", or 5/8" diam. x 8". Bolts shall extend 1 1/2" min. to 2" max. above the concrete pad is revised to read:

"The cabinets shall be attached to the foundation with 4 each: 1/2" x 12" x 2" x 4" anchor bolts, washers, and nuts conforming to Section 9-06.5(1) and galvanized after fabrication in accordance with AASHTO M 232. Stainless steel epoxy anchors may be used as an

alternative, and shall be 1/2" diameter x 9", or 5/8" diameter x 8". Threaded Rod (conforming to ASTM F 593), washers (conforming to ASTM A 240), and nuts (conforming to ASTM F 594), all shall be Type 304 stainless steel. Bolts shall extend 1 1/2" min. to 2" max. above the concrete pad."

J-10.15

ANCHOR BOLT detail, callout – ASTM A307 with washer and nut – Galvanized per AASHTO M 232 is revised to read; "Anchor bolts, washers, and nuts conforming to Section 9-06.5(1) and galvanized after fabrication in accordance with AASHTO M 232 "

J-15.10

Elevation View (3x), Depth dimension, reads; "Depth ~ See Std. Spec. 9-20.3(14)E and Contract", revised to read; "Depth ~ See Std. Spec. 8-20.3(13)A and Contract"

J-15.15

General Notes, Note 3, reference to Standard Plan J-7c is revised to J-27.15

J-16b

Deleted

J-16c

Deleted

J-20.10-02

Foundation Detail, callout, "1/2" diameter steel hex nut, with 1 1/2" flat washer (2) each req'd per anchor bolt" is revised to read; 1/2" diameter steel heavy hex nut, with 1/2" flat washer (2) each req'd per anchor bolt

J-20.11-01

Sheet 1, View A, callout, "1/2" x 26" full thread ~ (4) required 1/2" hex nuts ~ (4) required per anchor bolt" is revised to read; "1/2" x 24" full thread ~ (4) required 1/2" heavy hex nuts ~ (4) required per anchor bolt"

Section B, callout, "1/2" diameter steel hex nut, with 1/2" flat washer, (2) required per anchor bolt" is revised to read; 1/2" diameter steel heavy hex nut, with 1/2" flat washer, (2) required per anchor bolt

Sheet 2, Elevation, callout, "Anchor bolt 1/2" x 28" full thread ~ (4) required 1/2" hex nuts ~ (4) required per anchor bolt" is revised to read: Anchor bolt 3/4" x 36" full thread ~ (4) required 3/4" heavy hex nuts ~ (4) required per anchor bolt"

J-20.16

Elevation, callout, "1/4" Premolded Joint Filler" is revised to read; "3/8" Premolded Joint Filler"

Add General Note 9. "Junction Box serving the Standard shall preferably be located 5' – 0" (10' – 0" Max.) from the Standard."

J-21.10-03

Sheet 1, Round Concrete Foundation Detail, Elevation, callout, “3/4” hex nuts, steel, (4) Req’d. per Anchor Bolt” is revised to read; Anchor bolt 3/4” x 30” full thread ~ (4) required 3/4” heavy hex nuts, steel, (4) Req’d. per Anchor Bolt

Sheet 1, Square Concrete Foundation Detail, Elevation, callout, “3/4” hex nuts, steel, (4) Req’d. per Anchor Bolt” is revised to read; Anchor bolt 3/4” x 30” full thread ~ (4) required 3/4” heavy hex nuts, steel, (4) Req’d. per Anchor Bolt

Sheet 1, Detail C, callout, “Base Plate Assembly ~ 1/2” Diam. steel hex nut, with 1 1/2” flat washer, 2 each req’d per anchor bolt ~ minimum of 2 threads above top of nut or 5/8” maximum (Typ.)” is revised to read; Base Plate Assembly ~ 3/4” heavy hex nut, with 3/4” flat washer, 2 each req’d per anchor bolt ~ minimum of 2 threads above top of nut or 5/8” maximum (Typ.)”

Sheet 2, Round Concrete Foundation Detail, Elevation, callout, “Anchor Bolts ~ (4) req’d per assembly (Typ.)” is revised to read; Anchor Bolt 3/4” x 30” full thread ~ (4) req’d per assembly (Typ.)”

Callout, “3/4” hex nuts, steel ~ (4) req’d. per anchor bolt” is revised to read; 3/4” heavy hex nuts, steel ~ (4) req’d. per anchor bolt

Sheet 2, Round Concrete Foundation Detail, Elevation, callout, “Anchor Bolts ~ (4) req’d per assembly (Typ.)” is revised to read; Anchor Bolt 3/4” x 30” full thread ~ (4) req’d per assembly (Typ.)”

Callout, “3/4” hex nuts, steel ~ (4) req’d. per anchor bolt” is revised to read; 3/4” heavy hex nuts, steel ~ (4) req’d. per anchor bolt

J-22.15-01

Ramp Meter Signal Standard, elevation, dimension 4’6” is revised to read; 6’-0”

J-29.10

Galvanized Welded Wire Mesh detail, callout – “Drill and Tap for 1/4” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer”

Is revised to read;

“Drill and Tap for 1/4” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer. Liberally coat the threads with Anti-seize Compound.”

J-29.15

Title, “Camera Pole Standard” is revised to read; “Camera Pole Standard Details”

J-29-16

Title, “Camera Pole Standard Details” is revised to read; “Camera Pole Details”

J-60.14

All references to J-16b (6x) are revised to read; J-60.11

J-75.40

Monotube Sign Structure, elevation, callout – EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC. MINIMUM SIZE # 8

Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC minimum size # 4 AWG

Detail C, callout– EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC MIN. SIZE # 8

Is revised to read; EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC minimum size # 4 AWG

Detail C, callout – Stainless Steel, selftapping ¼” Diam. Screw w/ S.S. Washer, space approx. 9” O.C. is revised to read; “Stainless Steel, selftapping ¼” Diam. Screw w/ S.S. Washer, space approx. 9” O.C., liberally coat the threads with Anti-seize compound”

J-75.45

Elevation, callout – EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC. MINIMUM SIZE # 8

Is revised to read:

EQUIPMENT GROUNDING CONDUCTOR ~ SIZE PER NEC minimum size # 4 AWG

Detail D, callout– EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC. MIN. SIZE # 8

Is revised to read:

EQUIPMENT GROUNDING CONDUCTOR ~ CLAMP TO STEEL REINFORCING BAR, SIZE PER NEC minimum size # 4 AWG

Detail C, callout – Stainless Steel, selftapping ¼” Diam. Screw w/ S.S. Washer, space approx. 9” O.C. is revised to read; “Stainless Steel, selftapping ¼” Diam. Screw w/ S.S. Washer, space approx. 9” O.C., liberally coat the threads with Anti-seize compound”

J-90.10

Section B, callout, “Hardware Mounting Rack ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

J-90.20

Section B, callout, “Hardware Mounting Rack (Typ.) ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

K-80.30

In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00.....8/7/07	A-30.35-00.....10/12/07	A-50.20-01.....9/22/09
A-10.20-00.....10/5/07	A-40.00-00.....8/11/09	A-50.30-00.....11/17/08
A-10.30-00.....10/5/07	A-40.10-02.....6/2/11	A-50.40-00.....11/17/08
A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.10-01.....10/14/09
A-30.10-00.....11/8/07	A-40.20-02.....5/29/13	A-60.20-02.....6/2/11
A-30.15-00.....11/8/07	A-40.50-01.....6/2/11	A-60.30-00.....11/8/07
A-30.30-01.....6/16/11	A-50.10-00.....11/17/08	A-60.40-00.....8/31/07
B-5.20-01.....6/16/11	B-30.50-01.....4/26/12	B-75.20-01.....6/10/08
B-5.40-01.....6/16/11	B-30.70-03.....4/26/12	B-75.50-01.....6/10/08
B-5.60-01.....6/16/11	B-30.80-00.....6/8/06	B-75.60-00.....6/8/06
B-10.20-01.....2/7/12	B-30.90-01.....9/20/07	B-80.20-00.....6/8/06
B-10.40-00.....6/1/06	B-35.20-00.....6/8/06	B-80.40-00.....6/1/06
B-10.60-00.....6/8/06	B-35.40-00.....6/8/06	B-82.20-00.....6/1/06
B-15.20-01.....2/7/12	B-40.20-00.....6/1/06	B-85.10-01.....6/10/08
B-15.40-01.....2/7/12	B-40.40-01.....6/16/10	B-85.20-00.....6/1/06
B-15.60-01.....2/7/12	B-45.20-00.....6/1/06	B-85.30-00.....6/1/06
B-20.20-02.....3/16/12	B-45.40-00.....6/1/06	B-85.40-00.....6/8/06
B-20.40-03.....3/16/12	B-50.20-00.....6/1/06	B-85.50-01.....6/10/08
B-20.60-03.....3/15/12	B-55.20-00.....6/1/06	B-90.10-00.....6/8/06
B-25.20-01.....3/15/12	B-60.20-00.....6/8/06	B-90.20-00.....6/8/06
B-25.60-00.....6/1/06	B-60.40-00.....6/1/06	B-90.30-00.....6/8/06
B-30.10-01.....4/26/12	B-65.20-01.....4/26/12	B-90.40-00.....6/8/06
B-30.20-02.....4/26/12	B-65.40-00.....6/1/06	B-90.50-00.....6/8/06
B-30.30-01.....4/26/12	B-70.20-00.....6/1/06	B-95.20-01.....2/3/09
B-30.40-01.....4/26/12	B-70.60-00.....6/1/06	B-95.40-00.....6/8/06
C-1.....6/16/11	C-6.....5/30/97	C-23.60-02.....6/21/12
C-1a.....10/14/09	C-6a.....10/14/09	C-24.10-00.....7/12/12
C-1b.....6/16/11	C-6c.....1/6/00	C-25.18-03.....7/2/12
C-1c.....5/30/97	C-6d.....5/30/97	C-25.20-05.....7/2/12
C-1d.....10/31/03	C-6f.....7/25/97	C-25.22-04.....7/2/12
C-2.....1/6/00	C-7.....6/16/11	C-25.26-02.....7/2/12
C-2a.....6/21/06	C-7a.....6/16/11	C-25.80-02.....7/2/12
C-2b.....6/21/06	C-8.....2/10/09	C-40.14-02.....7/2/12
C-2c.....6/21/06	C-8a.....7/25/97	C-40.16-02.....7/2/12
C-2d.....6/21/06	C-8b.....6/27/11	C-40.18-02.....7/2/12
C-2e.....6/21/06	C-8e.....2/21/07	C-70.10-00.....4/8/12
C-2f.....3/14/97	C-8f.....6/30/04	C-75.10-00.....4/8/12
C-2g.....7/27/01	C-10.....6/3/10	C-75.20-00.....4/8/12
C-2h.....3/28/97	C-16a.....6/3/10	C-75.30-00.....4/8/12

C-2i.....3/28/97	C-16b.....6/3/10	C-80.10-00.....4/8/12
C-2j.....6/12/98	C-20.10-01.....6/20/13	C-80.20-00.....4/8/12
C-2k.....7/27/01	C-20.14-02.....7/2/12	C-80.30-00.....4/8/12
C-2n.....7/27/01	C-20.15-01.....7/2/12	C-80.40-00.....4/8/12
C-2o.....7/13/01	C-20.18-01.....7/2/12	C-80.50-00.....4/8/12
C-2p.....10/31/03	C-20.19-01.....7/2/12	C-85.10-00.....4/8/12
C-3.....6/27/11	C-20.40-03.....7/2/12	C-85.11-00.....4/8/12
C-3a.....10/4/05	C-20.42-03.....7/2/12	C-85.14-00.....6/16/11
C-3b.....6/27/11	C-20.45.01.....7/2/12	C-85.15-00.....6/16/11
C-3c.....6/27/11	C-22.14-02.....6/16/11	C-85.16-00.....6/16/11
C-4b.....6/8/06	C-22.16-03.....4/18/12	C-85.18-00.....6/16/11
C-4e.....2/20/03	C-22.40-02.....6/16/10	C-85.20-00.....6/16/11
C-4f.....7/2/12	C-22.45.00.....6/16/11	C-90.10-00.....7/3/08

D-2.04-00.....11/10/05	D-2.48-00.....11/10/05	D-3.17-01.....5/17/12
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-2.36-02.....1/6/09	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-3.11-02.....5/29/13	D-15.20-02.....6/2/11
D-2.62-00.....11/10/05	D-3.15-02.....6/10/13	D-15.30-01.....12/02/08
D-2.46-00.....11/10/05	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-10.12-02.....6/16/11	F-10.62-01.....9/05/07	F-40.15-02.....6/20/13
F-10.16-00.....12/20/06	F-10.64-02.....7/3/08	F-40.16-02.....6/20/13
F-10.18-00.....6/27/11	F-30.10-02.....6/20/13	F-45.10-01.....6/21/12
F-10.40-02.....6/21/12	F-40.12-02.....6/20/13	F-80.10-02.....3/15/12
F-10.42-00.....1/23/07	F-40.14-02.....6/20/13	

G-10.10-00.....9/20/07	G-24.60-02.....5/20/13	G-70.20-02....6/10/13
G-20.10-00.....9/20/07	G-25.10-04.....6/10/13	G-70.30-02.....6/10/13
G-22.10-01.....7/3/08	G-30.10-02.....6/20/13	G-90.10-01.....5/11/11
G-24.10-00.....11/8/07	G-50.10-01.....6/20/13	G-90.20-02.....3/22/13
G-24.20-01.....2/7/12	G-60.10-02.....6/10/13	G-90.30-02.....3/25/13
G-24.30-01.....2/7/12	G-60.20-01.....6/27/11	G-90.40-01.....10/14/09
G-24.40-03.....6/20/13	G-60.30-01.....6/27/11	G-95.10-01.....6/2/11

G-24.50-02.....6/20/13	G-70.10-02.....6/10/13	G-95.20-02.....6/2/11 G-95.30-02.....6/2/11
H-10.10-00.....7/3/08 H-10.15-00.....7/3/08 H-30.10-00.....10/12/07	H-32.10-00.....9/20/07 H-60.10-01.....7/3/08 H-60.20-01.....7/3/08	H-70.10-01.....2/7/12 H-70.20-01.....2/16/12 H-70.30-02.....2/7/12
I-10.10-01.....8/11/09 I-30.10-02.....3/22/13 I-30.15-02.....3/22/13 I-30.16-00.....3/22/13 I-30.17-00.....3/22/13	I-30.20-00.....9/20/07 I-30.30-01.....6/10/13 I-30.40-01.....6/10/13 I-30.60-00.....5/29/13 I-40.10-00.....9/20/07	I-40.20-00.....9/20/07 I-50.20-01.....6/20/13 I-60.10-01.....6/10/13 I-60.20-01.....6/10/13 I-80.10-01.....8/11/09
J-3.....8/1/97 J-3b.....3/4/05 J-3c.....6/24/02 J-10.....7/18/97 J-10.10-01.....5/11/11 J-10.15-00.....7/2/12 J-10.22-00.....5/29/13 J-15.10-00.....5/8/12 J-15.15-00.....6/16/10 J-16b.....2/10/09 J-16c.....2/10/09 J-20.10-02.....6/10/13 J-20.11-01.....6/10/13 J-20.15-02.....6/10/13 J-20.16-01.....7/12/12 J-20.20-02.....5/20/13 J-20.26-01.....7/12/12 J-21.10-03.....6/10/13 J-21.15-01.....6/10/13 J-21.16-01.....6/10/13 J-21.17-01.....6/10/13 J-21.20-01.....6/10/13 J-22.15-01.....6/10/13 J-22.16-02.....6/10/13 J-26.10-02.....3/15/12	J-26.15-01.....5/17/12 J-27.10-00.....3/15/12 J-27.15-00.....3/15/12 J-28.10-01.....5/11/11 J-28.22-00.....8/07/07 J-28.24-00.....8/07/07 J-28.26-01.....12/02/08 J-28.30-02.....6/27/11 J-28.40-01.....10/14/09 J-28.42-00.....8/07/07 J-28.45-01.....6/27/11 J-28.50-02.....6/2/11 J-28.60-01.....6/2/11 J-28.70-01.....5/11/11 J-29.10-00.....6/27/11 J-29.15-00.....6/27/11 J-29.16-01.....6/20/13 J-40.10-03.....5/20/13 J-40.20-01.....5/17/12 J-40.30-03.....5/20/13 J-40.35-01.....5/29/13 J-40.36-01.....5/20/13 J-40.37-01.....5/20/13 J-40.38-01.....5/20/13 J-40.39-00.....5/20/13	J-40.40-00.....5/20/13 J-50.10-00.....6/3/11 J-50.11-00.....6/3/11 J-50.12-00.....6/3/11 J-50.15-00.....6/3/11 J-50.16-01.....3/22/13 J-50.20-00.....6/3/11 J-50.25-00.....6/3/11 J-50.30-00.....6/3/11 J-60.05-00.....6/16/11 J-60.11-00.....5/20/13 J-60.12-00.....5/20/13 J-60.13-00.....6/16/10 J-60.14-00.....6/16/10 J-75.10-01.....5/11/11 J-75.20-00.....2/10/09 J-75.30-01.....5/11/11 J-75.40-00.....10/14/09 J-75.45-00.....10/14/09 J-90.10-01.....6/27/11 J-90.20-01.....6/27/11
K-70.20-00.....2/15/07 K-80.10-00.....2/21/07 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-20.10-02.....6/21/12	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
L-30.10-01.....6/16/11	L-40.20-02.....6/21/12	
M-1.20-02.....6/3/11	M-9.60-00.....2/10/09	M-40.10-02.....5/11/11
M-1.40-02.....6/3/11	M-11.10-01.....1/30/07	M-40.20-00...10/12/07
M-1.60-02.....6/3/11	M-15.10-01.....2/6/07	M-40.30-00.....9/20/07
M-1.80-03.....6/3/11	M-17.10-02.....7/3/08	M-40.40-00.....9/20/07
M-2.20-02.....6/3/11	M-20.10-02.....6/3/11	M-40.50-00.....9/20/07
M-3.10-03.....6/3/11	M-20.20-01.....1/30/07	M-40.60-00.....9/20/07
M-3.20-02.....6/3/11	M-20.30-02.....10/14/09	M-60.10-01.....6/3/11
M-3.30-03.....6/3/11	M-20.40-02.....6/3/11	M-60.20-02.....6/27/11
M-3.40-03.....6/3/11	M-20.50-02.....6/3/11	M-65.10-02.....5/11/11
M-3.50-02.....6/3/11	M-24.20-01.....5/31/06	M-80.10-01.....6/3/11
M-5.10-02.....6/3/11	M-24.40-01.....5/31/06	M-80.20-00.....6/10/08
M-7.50-01.....1/30/07	M-24.50-00.....6/16/11	M-80.30-00.....6/10/08
M-9.50-01.....1/30/07	M-24.60-03.....5/11/11	

CONTRACT FORMS
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CONTRACT
FOR:
CHURCH ROAD IMPROVEMENTS PROJECT
FEDERAL AID NO. STPUS-8033(001)
FERNDALE, WASHINGTON

This Contract, made and entered into this ____ day of _____, 2014 by and between the City of Ferndale, hereinafter called the "Owner" and _____, hereinafter called the "Contractor".

WITNESSETH:

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

1. The Contractor shall do all of the work and furnish all of the labor, materials, tools and equipment for the construction of the improvements and shall perform any changes in the work, all in full compliance with the contract documents entitled "**CHURCH ROAD IMPROVEMENTS PROJECT, Ferndale, Washington**".

The "Bid Proposal", "Specifications and Conditions", "Contract Forms", and the "Plans" sections contained in said contract documents are hereby referred to and by reference made a part hereof.

2. The Owner hereby promises and agrees with the Contractor to employ, and does employ the Contractor to furnish the labor, materials, tools and equipment, and to and cause to be done the above-described work, and to complete and finish the same in accordance with the said contract documents and the terms and conditions herein contained, and hereby contracts to pay for the same, according to the said contract documents, including the schedule of estimated quantities, and unit and lump sum prices in the Bid Proposal, the approximate sum of _____, the total amount of bid, subject to the actual quantity of work performed, at the time and in the manner and upon the conditions provided for in this contract.
3. The Contractor for himself, and for his agents, successors, assigns, subcontractors and/or employees, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.
4. The Owner hereby appoints and the Contractor hereby accepts Reichhardt & Ebe Engineering, Inc., hereinafter referred to as the Engineer, as the City's representative for the purpose of administering the provisions of this Contract, including the Owner's right to receive and act on all reports and documents related to this Contract, to request and receive additional information from the Contractor, to assess the general performance of the Contractor under this Contract, to determine if the contracted services are being performed in accordance with Federal, State or local laws, and to administer any other right granted to

the Owner under this Contract. The Owner expressly reserves the right to terminate this Contract as provided in the contract documents, and also expressly reserves the right to commence civil action for the enforcement of this contract.

5. This Contract contains terms and conditions agreed upon by the parties. The parties agree that there are no other understandings, oral or otherwise, regarding the subject matter of this Contract.
6. The Contractor agrees to comply with all applicable Federal, State, City or municipal standards for the licensing, certification, operation of facilities and programs, and accreditation and licensing of individuals.
7. The Contractor shall not assign or subcontract any portion of the work provided for under the terms of this Contract without obtaining prior written approval of the Engineer. All terms and conditions of this Contract shall apply to any approved subcontract or assignment related to this Contract.
8. The parties intend that an independent Contractor-Owner relationship will be created by this Contract. The Owner is interested only in the results to be achieved, the implementation of the work will lie solely with the Contractor. The Contractor will be solely and entirely responsible for its acts and for the acts of its agents, employees, servants, subcontractors, or otherwise during the performance of this Contract. In the performance of the work herein contemplated, the Contractor is an independent Contractor with regard to the performance of the details of the work; however, the components of and the results of the work contemplated herein must meet the approval of the Engineer and shall be subject to the Engineer's general rights of inspection and review to secure the satisfactory completion thereof.
9. The Contractor agrees and covenants to indemnify, defend, and save harmless, the Owner and the City of Ferndale and those persons who were, now are, or shall be duly elected or appointed officials or members of employees thereof, hereinafter referred to as the "Owner" or "City" against and from any loss, damage, costs, charge, expense, liability, claims, demands or judgments, of whatsoever kind or nature, whether to persons or to property, arising wholly or partially out of any act, action, neglect, omission, or default on the part of the Contractor, his agents, successors, assignees, subcontractors and/or employees, except only such injury or damage as shall have been caused by or resulted from the sole negligence of the City. In case any suit or cause of action shall be brought against the Owner or the City on account of any act, action, neglect, omission, or default on the part of the Contractor, his agents, successors, assignees, subcontractors and/or employees the Contractor hereby agrees and covenants to assume the defense thereof and to pay any and all costs, charges, attorney's fees and other expenses and any and all judgments that may be incurred or obtained against the City.

In the event the Owner is required to institute legal action and/or participate in the legal action to enforce this Indemnification and Hold Harmless Clause, the Contractor agrees to

pay the Owner or City's legal fees, costs and disbursements incurred in establishing the right to indemnification.

If the claim, suit, or action for injuries, death, or damages as provided for in the preceding paragraphs of this specification is caused by or results from the concurrent negligence of (a) the indemnitee or the indemnitee's agents or employees and (b) the indemnitor or the indemnitor's agents for employees the indemnity provisions provided for in the preceding paragraphs of this specification shall be valid and enforceable only to the extent of the indemnitor's negligence.

Contractor hereby specifically and expressly waives any immunity under Industrial Insurance, Title 51 RCW and acknowledges that this waiver was mutually negotiated by the parties herein. In the event of litigation between the parties to enforce the rights under this paragraph, reasonable attorney's fees shall be allowed to the prevailing party.

10. This Contract has been and shall be construed as having been made and delivered within the State of Washington, and it is mutually understood and agreed by each party hereto that this Contract shall be governed by the laws of the State of Washington, both as to interpretation and performance. Any action in law, suit and equity or judicial proceedings for the enforcement of this contract, or any provisions thereof, shall be instituted and maintained in the courts of competent jurisdiction located in City of Ferndale, Washington.
11. The failure of the Owner to insist upon strict performance of any of the covenants and agreements of this Contract or to exercise any option herein conferred in any one or more instances shall not be construed to be a waiver or relinquishment of any such, or any other covenants or agreements, but the same shall be and remain in full force and effect.
12. It is understood and agreed by the parties hereto that if any part of this agreement is determined to be illegal, the validity of the remaining portions shall be construed as if the agreement did not contain the particular illegal part.
13. No change or addition to this Contract shall be valid or binding upon either party unless such change or addition shall be in writing, executed by both parties.
14. In the event that funding from State, Federal, or other sources is withdrawn, reduced, or limited in any way after the effective date of this Agreement, and prior to its normal completion, the Owner may summarily terminate this Agreement as to the funds withdrawn, reduced, or limited notwithstanding any other termination provisions of this Agreement. If the level of funding withdrawn, reduced or limited is so great that the Owner deems that the continuation of the programs covered by this Agreement is no longer in the best interest of the City, the Owner may summarily terminate this Agreement in whole notwithstanding any other termination of this Agreement. Termination under this section shall be effective upon receipt of written notice as specified herein.

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

Executed by the Contractor this _____ day of _____, 2014.

CITY OF FERNDALE:

By: _____
City Administrator / Mayor

STATE OF WASHINGTON)
) ss.
COUNTY OF WHATCOM)

On this _____ day of _____, 2014, before me personally appeared

_____ to me personally known to be the person described in and who executed the above instrument and who acknowledged to me the act of signing thereof.

NOTARY PUBLIC, in and for the
State of Washington, residing at:

My Commission Expires: _____

CONTRACTOR:

By: _____
Title: _____

STATE OF WASHINGTON)
) ss.
COUNTY OF WHATCOM)

On this _____ day of _____, 2014, before me personally appeared

_____ to me personally known to be the person described in and who executed the above instrument and who acknowledged to me the act of signing thereof.

NOTARY PUBLIC, in and for the
State of Washington, residing at:

My Commission Expires: _____

PERFORMANCE BOND

**to the
City of Ferndale**

KNOW ALL MEN BY THESE PRESENTS, That we _____
the Contractor named in the Contract hereinafter referred to as PRINCIPAL,
and _____ as SURETY, are jointly and severally held
and firmly bound to the City of Ferndale, hereinafter referred to as OWNER named in said
Contract **CHURCH ROAD IMPROVEMENTS PROJECT**, Ferndale, Washington, for the
penal sum of,
_____ DOLLARS (\$ _____),
lawful money of the United States, for the payment of which sum well and truly to be made, we
bind ourselves, our heirs, assigns, administrators and successors jointly and severally, firmly by
these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that Whereas, the Principal entered
into a contract with the Owner, dated the ____ day of _____, 2014, for such construction
work with the City of Ferndale, Washington.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform all of the
provisions and fulfill all of the undertakings, covenants, terms, conditions and agreements of said
contract during the period of the original contract and any extensions thereof that may be granted
by the Owner, with or without notices to the surety; and during the life of any guaranty required
under the contract; and shall also well and truly perform and fulfill all of the undertakings,
covenants, terms, conditions and agreements of any and all duly authorized modifications of said
contract that may hereafter be made; notice of which modifications to the surety being hereby
waived, shall indemnify and save harmless owner from all cost and damage by reason of the
principal's default of failure to do so, and shall pay the State of Washington sales and use taxes,
and amounts due said state pursuant to Titles 50 and 51 of the Revised Code of Washington then
this obligation to be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the above bonded parties have executed this instrument under their
separate seals this ____ day of _____, 2014, the name and corporate seal of each corporate
party hereto affixed, and these presents duly signed by its undersigned representatives pursuant
to authority of its governing body.

PAYMENT BOND

To the
City of Ferndale

KNOW ALL MENT BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called Principal,
(Corporation, Partnership or Individual)

and _____
(Name of Surety)

(Address of surety)

hereinafter called **SURETY**, are held and firmly bound unto _____

(Name of Owner)

(Address of Owner)

hereinafter called **OWNER**, in the penal sum of _____ Dollars, \$(_____)

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the **OWNER**, dated the _____ day of _____ 20____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, **SUBCONTRACTORS**, and corporations furnishing materials for or performing labor in the prosecution of the **WORK** provided for in such contract, and any authorized extension or modification thereof including all amounts due for materials, lubricants, oil, gasoline, coal, and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such **WORK**, and all Insurance premiums on said **WORK**, and for all labor, performed in such **WORK** whether by **SUBCONTRACTOR** or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said **SURETY** for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the **WORK** to be performed thereunder or

the **SPECIFICATIONS** accompanying the same shall in any wise affect its obligation on this **BOND**, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the **WORK** or to the **SPECIFICATIONS**.

PROVIDED, FURTHER, that no final settlement between the **OWNER** and the **CONTRACTOR** shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each on of which
(number)
shall be deemed an original, this the _____ day of _____

ATTEST:

(Principal) Secretary

Principal

(SEAL) By _____ (s)

(Address)

Witness as to Principal

(Address)

(Surety)

ATTEST: By _____
(Attorney -in-Fact)

Witness as to Surety

(Address)

(Address)

NOTE: Date of **BOND** must not be prior to date of Contract.
If **CONTRACTOR** is Partnership, all partners should execute **BOND**.

IMPORTANT: Surety companies executing **BONDS** must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the **PROJECT** is located.

APPENDICES

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APPENDIX A
STATE PREVAILING WAGE RATES
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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: 3/3/2014

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Whatcom	<u>Asbestos Abatement Workers</u>	Journey Level	\$41.69	<u>5D</u>	<u>1H</u>	
Whatcom	<u>Boilermakers</u>	Journey Level	\$44.35		<u>1</u>	
Whatcom	<u>Brick Mason</u>	Brick And Block Finisher	\$43.26	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Brick Mason</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Brick Mason</u>	Pointer-Caulker-Cleaner	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Building Service Employees</u>	Janitor	\$9.32		<u>1</u>	
Whatcom	<u>Building Service Employees</u>	Shampooer	\$9.32		<u>1</u>	
Whatcom	<u>Building Service Employees</u>	Waxer	\$9.32		<u>1</u>	
Whatcom	<u>Building Service Employees</u>	Window Cleaner	\$9.32		<u>1</u>	
Whatcom	<u>Cabinet Makers (In Shop)</u>	Journey Level	\$24.89		<u>1</u>	
Whatcom	<u>Carpenters</u>	Acoustical Worker	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Bridge, Dock And Wharf Carpenters	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Carpenter	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Carpenters on Stationary Tools	\$50.95	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Creosoted Material	\$50.92	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Floor Finisher	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Floor Layer	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Carpenters</u>	Scaffold Erector	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Cement Masons</u>	Journey Level	\$51.18	<u>7A</u>	<u>1M</u>	
Whatcom	<u>Divers & Tenders</u>	Diver	\$100.28	<u>5D</u>	<u>1M</u>	<u>8A</u>
Whatcom	<u>Divers & Tenders</u>	Diver On Standby	\$56.68	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Divers & Tenders</u>	Diver Tender	\$52.23	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator	\$52.23	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator Tender	\$48.67	<u>5A</u>	<u>1B</u>	
Whatcom	<u>Dredge Workers</u>	Assistant Engineer	\$53.00	<u>5D</u>	<u>3F</u>	
Whatcom	<u>Dredge Workers</u>	Assistant Mate (Deckhand)	\$52.58	<u>5D</u>	<u>3F</u>	
Whatcom	<u>Dredge Workers</u>	Boatmen	\$52.30	<u>5D</u>	<u>3F</u>	
Whatcom	<u>Dredge Workers</u>	Engineer Welder	\$54.04	<u>5D</u>	<u>3F</u>	

Whatcom	<u>Dredge Workers</u>	Leverman, Hydraulic	\$55.17	<u>5D</u>	<u>3F</u>
Whatcom	<u>Dredge Workers</u>	Mates	\$52.30	<u>5D</u>	<u>3F</u>
Whatcom	<u>Dredge Workers</u>	Oiler	\$52.58	<u>5D</u>	<u>3F</u>
Whatcom	<u>Drywall Applicator</u>	Journey Level	\$50.82	<u>5D</u>	<u>1H</u>
Whatcom	<u>Drywall Tapers</u>	Journey Level	\$29.63		<u>1</u>
Whatcom	<u>Electrical Fixture Maintenance Workers</u>	Journey Level	\$13.82		<u>1</u>
Whatcom	<u>Electricians - Inside</u>	Cable Splicer	\$60.71	<u>7H</u>	<u>1E</u>
Whatcom	<u>Electricians - Inside</u>	Construction Stock Person	\$29.41	<u>7H</u>	<u>1D</u>
Whatcom	<u>Electricians - Inside</u>	Journey Level	\$56.69	<u>7H</u>	<u>1E</u>
Whatcom	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>
Whatcom	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$66.43	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$60.75	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Groundperson	\$42.36	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$60.75	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$60.75	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$51.05	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$60.75	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electricians - Powerline Construction</u>	Powderperson	\$45.39	<u>5A</u>	<u>4A</u>
Whatcom	<u>Electronic Technicians</u>	Journey Level	\$25.09		<u>1</u>
Whatcom	<u>Elevator Constructors</u>	Mechanic	\$77.70	<u>7D</u>	<u>4A</u>
Whatcom	<u>Elevator Constructors</u>	Mechanic In Charge	\$84.24	<u>7D</u>	<u>4A</u>
Whatcom	<u>Fabricated Precast Concrete Products</u>	Journey Level - In-Factory Work Only	\$13.67		<u>1</u>
Whatcom	<u>Fence Erectors</u>	Fence Erector	\$22.97		<u>1</u>
Whatcom	<u>Flaggers</u>	Journey Level	\$35.34	<u>7A</u>	<u>2Y</u>
Whatcom	<u>Glaziers</u>	Journey Level	\$53.76	<u>7L</u>	<u>1Y</u>
Whatcom	<u>Heat & Frost Insulators And Asbestos Workers</u>	Journeyman	\$58.93	<u>5J</u>	<u>1S</u>
Whatcom	<u>Heating Equipment Mechanics</u>	Journey Level	\$19.85		<u>1</u>
Whatcom	<u>Hod Carriers & Mason Tenders</u>	Journey Level	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$9.32		<u>1</u>
Whatcom	<u>Inland Boatmen</u>	Boat Operator	\$52.51	<u>5B</u>	<u>1K</u>
Whatcom	<u>Inland Boatmen</u>	Cook	\$48.89	<u>5B</u>	<u>1K</u>
Whatcom	<u>Inland Boatmen</u>	Deckhand	\$49.13	<u>5B</u>	<u>1K</u>
Whatcom	<u>Inland Boatmen</u>	Deckhand Engineer	\$50.12	<u>5B</u>	<u>1K</u>
Whatcom	<u>Inland Boatmen</u>	Launch Operator	\$51.34	<u>5B</u>	<u>1K</u>
Whatcom	<u>Inland Boatmen</u>	Mate	\$51.34	<u>5B</u>	<u>1K</u>

Whatcom	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$9.73		<u>1</u>	
Whatcom	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Grout Truck Operator	\$11.48		<u>1</u>	
Whatcom	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Head Operator	\$12.78		<u>1</u>	
Whatcom	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Technician	\$9.32		<u>1</u>	
Whatcom	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Tv Truck Operator	\$10.53		<u>1</u>	
Whatcom	<u>Insulation Applicators</u>	Journey Level	\$50.82	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Ironworkers</u>	Journeyman	\$59.77	<u>7N</u>	<u>1O</u>	
Whatcom	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Airtrac Drill Operator	\$42.99	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Ballast Regular Machine	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Batch Weighman	\$35.34	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Brick Pavers	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Brush Cutter	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Brush Hog Feeder	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Burner	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Caisson Worker	\$42.99	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Carpenter Tender	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Caulker	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Cement Dumper-paving	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Cement Finisher Tender	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Change House Or Dry Shack	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Choker Setter	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Chuck Tender	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Clary Power Spreader	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Clean-up Laborer	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Concrete Dumper/chute Operator	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Concrete Form Stripper	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Concrete Placement Crew	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Crusher Feeder	\$35.34	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Curing Laborer	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>		\$41.69	<u>7A</u>	<u>2Y</u>	

		Demolition: Wrecking & Moving (incl. Charred Material)			
Whatcom	Laborers	Ditch Digger	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Diver	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Drill Operator (hydraulic, diamond)	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Dry Stack Walls	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Dump Person	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Epoxy Technician	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Erosion Control Worker	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Faller & Bucker Chain Saw	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Fine Graders	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Firewatch	\$35.34	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Form Setter	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Gabian Basket Builders	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	General Laborer	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Grade Checker & Transit Person	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Grinders	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Grout Machine Tender	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Groutmen (pressure)including Post Tension Beams	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Guardrail Erector	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Hazardous Waste Worker (level A)	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Hazardous Waste Worker (level B)	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Hazardous Waste Worker (level C)	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	High Scaler	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Jackhammer	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Laserbeam Operator	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Maintenance Person	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Manhole Builder-mudman	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Material Yard Person	\$41.69	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Motorman-dinky Locomotive	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunit, Shotcrete, Water Bla	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Pavement Breaker	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Pilot Car	\$35.34	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Pipe Layer Lead	\$42.99	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Pipe Layer/tailor	\$42.46	<u>7A</u>	<u>2Y</u>
Whatcom	Laborers	Pipe Pot Tender	\$42.46	<u>7A</u>	<u>2Y</u>

Whatcom	<u>Laborers</u>	Pipe Reliner	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Pipe Wrapper	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Pot Tender	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Powderman	\$42.99	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Powderman's Helper	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Power Jacks	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Railroad Spike Puller - Power	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Raker - Asphalt	\$42.99	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Re-timberman	\$42.99	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Remote Equipment Operator	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Rigger/signal Person	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Rip Rap Person	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Rivet Buster	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Rodder	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Scaffold Erector	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Scale Person	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Sloper (over 20")	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Sloper Sprayer	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Spreader (concrete)	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Stake Hopper	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Stock Piler	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Tamper & Similar Electric, Air & Gas Operated Tools	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Tamper (multiple & Self-propelled)	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Toolroom Person (at Jobsite)	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Topper	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Track Laborer	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Track Liner (power)	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Traffic Control Laborer	\$37.79	<u>7A</u>	<u>2Y</u>	<u>8R</u>
Whatcom	<u>Laborers</u>	Traffic Control Supervisor	\$37.79	<u>7A</u>	<u>2Y</u>	<u>8R</u>
Whatcom	<u>Laborers</u>	Truck Spotter	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Tugger Operator	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 0-30 psi	\$60.06	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$65.09	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$68.77	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$74.47	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$76.59	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$81.69	<u>7A</u>	<u>2Y</u>	<u>8Q</u>

Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$83.59	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$85.59	<u>7A</u>	<u>1H</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$87.59	<u>7A</u>	<u>1H</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$43.09	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Tunnel Work-Miner	\$43.09	<u>7A</u>	<u>2Y</u>	<u>8Q</u>
Whatcom	<u>Laborers</u>	Vibrator	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Vinyl Seamer	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Watchman	\$32.12	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Welder	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Well Point Laborer	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers</u>	Window Washer/cleaner	\$32.12	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers - Underground Sewer & Water</u>	General Laborer & Topman	\$41.69	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Laborers - Underground Sewer & Water</u>	Pipe Layer	\$42.46	<u>7A</u>	<u>2Y</u>	
Whatcom	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$11.50		<u>1</u>	
Whatcom	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$11.50		<u>1</u>	
Whatcom	<u>Landscape Construction</u>	Landscaping Or Planting Laborers	\$11.50		<u>1</u>	
Whatcom	<u>Lathers</u>	Journey Level	\$50.82	<u>5D</u>	<u>1H</u>	
Whatcom	<u>Marble Setters</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Metal Fabrication (In Shop)</u>	Fitter	\$13.81		<u>1</u>	
Whatcom	<u>Metal Fabrication (In Shop)</u>	Laborer	\$9.32		<u>1</u>	
Whatcom	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$13.81		<u>1</u>	
Whatcom	<u>Metal Fabrication (In Shop)</u>	Welder	\$13.81		<u>1</u>	
Whatcom	<u>Millwright</u>	Journey Level	\$30.79		<u>1</u>	
Whatcom	<u>Modular Buildings</u>	Journey Level	\$9.32		<u>1</u>	
Whatcom	<u>Painters</u>	Journey Level	\$36.64	<u>6Z</u>	<u>2B</u>	
Whatcom	<u>Pile Driver</u>	Journey Level	\$51.07	<u>5D</u>	<u>1M</u>	
Whatcom	<u>Plasterers</u>	Journey Level	\$49.29	<u>7Q</u>	<u>1R</u>	
Whatcom	<u>Playground & Park Equipment Installers</u>	Journey Level	\$9.32		<u>1</u>	
Whatcom	<u>Plumbers & Pipefitters</u>	Journey Level	\$61.57	<u>5A</u>	<u>1G</u>	
Whatcom	<u>Power Equipment Operators</u>	Asphalt Plant Operators	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Assistant Engineer	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Barrier Machine (zipper)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Batch Plant Operator, Concrete	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Bobcat	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Brokk - Remote Demolition Equipment	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Brooms	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>

Whatcom	Power Equipment Operators	Bump Cutter	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cableways	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Chipper	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Compressor	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Conveyors	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: 200 Tons To 300 Tons, Or 250' Of Boom (including Jib With Attachments)	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: Friction 100 Tons Through 199 Tons	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: Friction Over 200 Tons	\$55.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: Over 300 Tons Or 300' Of Boom (including Jib With Attachments)	\$55.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Crusher	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Deck Engineer /deck Winches (power)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Derricks, On Building Work	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Dozers D-9 & Under	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators	Drilling Machine	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	Power Equipment Operators		\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Elevator And Man-lift: Permanent And Shaft Type				
Whatcom	<u>Power Equipment Operators</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Forklift: 3000 Lbs And Over With Attachments	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Forklifts: Under 3000 Lbs. With Attachments	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Gradechecker/stakeman	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Guardrail Punch	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Horizontal/directional Drill Locator	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Horizontal/directional Drill Operator	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks Over 10 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Loader, Overhead 8 Yards. & Over	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Loaders, Overhead Under 6 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Loaders, Plant Feed	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Loaders: Elevating Type Belt	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Locomotives, All	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Material Transfer Device	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Motor Patrol Grader - Non- finishing	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Motor Patrol Graders, Finishing	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>		\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Outside Hoists (elevators And Manlifts), Air Tuggers, strato				
Whatcom	<u>Power Equipment Operators</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 100 Tons And Over	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Pavement Breaker	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Pile Driver (other Than Crane Mount)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Plant Oiler - Asphalt, Crusher	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Posthole Digger, Mechanical	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Power Plant	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Pumps - Water	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Quad 9, Hd 41, D10 And Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Rigger And Bellman	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Rollagon	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Roller, Other Than Plant Mix	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Roller, Plant Mix Or Multi-lift Materials	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Roto-mill, Roto-grinder	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Saws - Concrete	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Scraper, Self Propelled Under 45 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Scrapers - Concrete & Carry All	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Scrapers, Self-propelled: 45 Yards And Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Service Engineers - Equipment	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Shotcrete/gunite Equipment	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>		\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes: Over 90 Metric Tons				
Whatcom	<u>Power Equipment Operators</u>	Slipform Pavers	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Spreader, Topsider & Screedman	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Subgrader Trimmer	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Tower Bucket Elevators	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Tower Crane Over 175'in Height, Base To Boom	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Tower Crane Up To 175' In Height Base To Boom	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Transporters, All Track Or Truck Type	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Trenching Machines	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver Under 100 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Truck Mount Portable Conveyor	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Welder	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Wheel Tractors, Farmall Type	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators</u>	Yo Yo Pay Dozer	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Asphalt Plant Operators	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Assistant Engineer	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Barrier Machine (zipper)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Batch Plant Operator, Concrete	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bobcat	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brokk - Remote Demolition Equipment	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brooms	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bump Cutter	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cableways	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Chipper	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Compressor	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Finish Machine -laser Screed	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>

Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Conveyors	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 200 Tons To 300 Tons, Or 250' Of Boom (including Jib With Attachments)	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: A-frame - 10 Tons And Under	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Friction 100 Tons Through 199 Tons	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Friction Over 200 Tons	\$55.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Over 300 Tons Or 300' Of Boom (including Jib With Attachments)	\$55.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Crusher	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Deck Engineer/deck Winches (power)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Derricks, On Building Work	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Dozers D-9 & Under	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drilling Machine	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom			\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklift: 3000 Lbs And Over With Attachments				
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Gradechecker/stakeman	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Guardrail Punch	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Locator	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Operator	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead 8 Yards. & Over	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Overhead Under 6 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Plant Feed	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders: Elevating Type Belt	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Locomotives, All	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Material Transfer Device	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Motor Patrol Grader - Non- finishing	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Motor Patrol Graders, Finishing	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom			\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer & Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato				
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pavement Breaker	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pile Driver (other Than Crane Mount)	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Plant Oiler - Asphalt, Crusher	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Posthole Digger, Mechanical	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Power Plant	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pumps - Water	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quad 9, Hd 41, D10 And Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger And Bellman	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rollagon	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Other Than Plant Mix	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roto-mill, Roto-grinder	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Saws - Concrete	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scraper, Self Propelled Under 45 Yards	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers - Concrete & Carry All	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Service Engineers - Equipment	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shotcrete/gunite Equipment	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom			\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.				
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Slipform Pavers	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Spreader, Topsider & Screedman	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Subgrader Trimmer	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Bucket Elevators	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane Over 175'in Height, Base To Boom	\$54.61	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$54.04	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Transporters, All Track Or Truck Type	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Trenching Machines	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$52.58	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Mount Portable Conveyor	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Welder	\$53.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Wheel Tractors, Farmall Type	\$50.22	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Equipment Operators- Underground Sewer & Water</u>	Yo Yo Pay Dozer	\$53.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Whatcom	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$43.76	<u>5A</u>	<u>4A</u>	
Whatcom	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$41.51	<u>5A</u>	<u>4A</u>	
Whatcom	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$43.76	<u>5A</u>	<u>4A</u>	
Whatcom	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$39.10	<u>5A</u>	<u>4A</u>	
Whatcom	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$29.44	<u>5A</u>	<u>4A</u>	

Whatcom	<u>Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$23.95		<u>1</u>	
Whatcom	<u>Residential Brick Mason</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Residential Carpenters</u>	Journey Level	\$23.81		<u>1</u>	
Whatcom	<u>Residential Cement Masons</u>	Journey Level	\$27.28		<u>1</u>	
Whatcom	<u>Residential Drywall Applicators</u>	Journey Level	\$25.00		<u>1</u>	
Whatcom	<u>Residential Drywall Tapers</u>	Journey Level	\$23.91		<u>1</u>	
Whatcom	<u>Residential Electricians</u>	Journey Level	\$37.65		<u>1</u>	
Whatcom	<u>Residential Glaziers</u>	Journey Level	\$13.79		<u>1</u>	
Whatcom	<u>Residential Insulation Applicators</u>	Journey Level	\$13.96		<u>1</u>	
Whatcom	<u>Residential Laborers</u>	Journey Level	\$20.00		<u>1</u>	
Whatcom	<u>Residential Marble Setters</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Residential Painters</u>	Journey Level	\$17.43		<u>1</u>	
Whatcom	<u>Residential Plumbers & Pipefitters</u>	Journey Level	\$28.26		<u>1</u>	
Whatcom	<u>Residential Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$36.44	<u>5A</u>	<u>1G</u>	
Whatcom	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$32.24	<u>7J</u>	<u>1I</u>	
Whatcom	<u>Residential Soft Floor Layers</u>	Journey Level	\$23.46		<u>1</u>	
Whatcom	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$31.09		<u>1</u>	
Whatcom	<u>Residential Stone Masons</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Residential Terrazzo Workers</u>	Journey Level	\$9.32		<u>1</u>	
Whatcom	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$14.00		<u>1</u>	
Whatcom	<u>Residential Tile Setters</u>	Journey Level	\$9.32		<u>1</u>	
Whatcom	<u>Roofers</u>	Journey Level	\$25.27		<u>1</u>	
Whatcom	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$56.69	<u>7F</u>	<u>1E</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Boilermaker	\$39.66	<u>7M</u>	<u>1H</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Carpenter	\$15.16		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Crane Operator	\$16.04		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Electrician	\$15.18		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Heat & Frost Insulator	\$58.93	<u>5J</u>	<u>1S</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Inside Machinist	\$16.70		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Laborer	\$23.38		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Outside Machinist	\$14.69		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Painter	\$15.16		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Pipefitter	\$15.18		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Sheet Metal	\$20.26		<u>1</u>	
Whatcom	<u>Shipbuilding & Ship Repair</u>	Welder/burner	\$15.21		<u>1</u>	
Whatcom	<u>Sign Makers & Installers (Electrical)</u>	Journey Level	\$16.03		<u>1</u>	
Whatcom	<u>Sign Makers & Installers (Non-Electrical)</u>	Journey Level	\$14.23		<u>1</u>	

Whatcom	<u>Soft Floor Layers</u>	Journey Level	\$42.15	<u>5A</u>	<u>3D</u>	
Whatcom	<u>Solar Controls For Windows</u>	Journey Level	\$9.32		<u>1</u>	
Whatcom	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$35.06		<u>1</u>	
Whatcom	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>	
Whatcom	<u>Stone Masons</u>	Journey Level	\$50.12	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$15.00		<u>1</u>	
Whatcom	<u>Surveyors</u>	All Classifications	\$36.16	<u>Null</u>	<u>1</u>	
Whatcom	<u>Telecommunication Technicians</u>	Journey Level	\$39.57	<u>7E</u>	<u>1E</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Cable Splicer	\$36.01	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Hole Digger/Ground Person	\$20.05	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$34.50	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$36.01	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$35.27	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$36.01	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$33.47	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$33.47	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$19.04	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$25.27	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$30.20	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Television Technician	\$27.09	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$33.47	<u>5A</u>	<u>2B</u>	
Whatcom	<u>Terrazzo Workers</u>	Journey Level	\$46.96	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Tile Setters</u>	Journey Level	\$46.96	<u>5A</u>	<u>1M</u>	
Whatcom	<u>Tile, Marble & Terrazzo Finishers</u>	Finisher	\$37.79	<u>5A</u>	<u>1B</u>	
Whatcom	<u>Traffic Control Stripers</u>	Journey Level	\$17.41		<u>1</u>	
Whatcom	<u>Truck Drivers</u>	Asphalt Mix	\$30.15		<u>1</u>	
Whatcom	<u>Truck Drivers</u>	Dump Truck	\$19.32		<u>1</u>	
Whatcom	<u>Truck Drivers</u>	Dump Truck And Trailer	\$19.32		<u>1</u>	
Whatcom	<u>Truck Drivers</u>	Other Trucks	\$14.48		<u>1</u>	
Whatcom	<u>Truck Drivers</u>	Transit Mixer	\$16.81		<u>1</u>	
Whatcom	<u>Well Drillers & Irrigation Pump Installers</u>	Irrigation Pump Installer	\$15.00		<u>1</u>	

Whatcom	<u>Well Drillers & Irrigation Pump Installers</u>	Oiler	\$9.32		<u>1</u>	
Whatcom	<u>Well Drillers & Irrigation Pump Installers</u>	Well Driller	\$18.02		<u>1</u>	

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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.

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1. 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.
- 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.

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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.
 - K. All hours worked on holidays shall be paid at two times the hourly rate of wage in addition to the holiday pay.
 - 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.
 - Y. All hours worked on Saturdays (except for make-up days) 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.
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.

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3.
 - B. 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, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - 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.
 - D. 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 15% over the hourly rate of wage. All other hours worked after 6:00 am 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.
 - 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.
 - G. 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, , 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 8:00 am Sunday to 8:00 am Monday and Holidays shall be paid at double the straight time rate of pay. 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.
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.

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).
 - 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).

Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- 5. 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).

Holiday Codes Continued

- 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, Day After Thanksgiving Day, Christmas Day, And A Half-Day On Christmas Eve Day. (9 1/2).
- 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,

Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

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.

Holiday Codes Continued

- 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.
- 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.

Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

- 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.
- 7. 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.
- O. 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, The Day After Or Before Christmas Day, And The Employees Birthday. 11). 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.
- 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.

Note Codes

- 8. A. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:

Benefit Code Key – Effective 8-31-2013 thru 3-4-2014

Over 50' To 100' -\$2.00 per Foot for Each Foot Over 50 Feet
Over 100' To 150' -\$3.00 per Foot for Each Foot Over 100 Feet
Over 150' To 220' -\$4.00 per Foot for Each Foot Over 150 Feet
Over 220' -\$5.00 per Foot for Each Foot Over 220 Feet

- 8 C. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:
Over 50' To 100' -\$1.00 per Foot for Each Foot Over 50 Feet
Over 100' To 150' -\$1.50 per Foot for Each Foot Over 100 Feet
Over 150' To 200' -\$2.00 per Foot for Each Foot Over 150 Feet
Over 200' -Divers May Name Their Own Price
- 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.

APPENDIX B
FEDERAL PREVAILING WAGE RATES
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General Decision Number: WA140001 02/21/2014 WA1

Superseded General Decision Number: WA20130001

State: Washington

Construction Type: Highway

Counties: Washington Statewide.

HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin Counties)

Modification Number	Publication Date
0	01/03/2014
1	01/17/2014
2	01/24/2014
3	02/07/2014
4	02/21/2014

CARP0001-008 06/01/2013

Rates Fringes

Carpenters:

COLUMBIA RIVER AREA - ADAMS, BENTON, COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GRANT, OKANOGAN (EAST OF THE 120TH MERIDIAN) AND WALLA WALLA COUNTIES

GROUP 1:.....	\$ 30.66	12.87
GROUP 2:.....	\$ 31.56	12.87
GROUP 3:.....	\$ 31.64	12.87
GROUP 4:.....	\$ 31.64	12.87
GROUP 5:.....	\$ 62.58	12.87
GROUP 6:.....	\$ 30.29	12.87
GROUP 7:.....	\$ 31.29	12.87
GROUP 8:.....	\$ 28.54	12.87
GROUP 9:.....	\$ 30.29	12.87

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS
AND WHITMAN COUNTIES

GROUP 1:.....	\$ 30.66	12.87
GROUP 2:.....	\$ 31.56	12.87
GROUP 3:.....	\$ 31.64	12.87
GROUP 4:.....	\$ 31.64	12.87
GROUP 5:.....	\$ 70.78	12.87
GROUP 6:.....	\$ 32.64	12.87
GROUP 7.....	\$ 35.39	12.87
GROUP 8.....	\$ 34.39	12.87
GROUP 9.....	\$ 34.39	12.87

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 carpenters
 GROUP 5: Diver Wet
 GROUP 6: Diver Tender, Manifold Operator, ROV Operator
 GROUP 7: Diver Standby, Bell/Vehicle or Submersible operator
 Not Under Pressure

GROUP 8: Assistant Tender, ROV Tender/Technician

GROUP 9: Manifold Operator-Mixed Gas

ZONE PAY:

ZONE 1	0-40 MILES	FREE
ZONE 2	41-65 MILES	\$2.25/PER HOUR
ZONE 3	66-100 MILES	\$3.25/PER HOUR
ZONE 4	OVER 100 MILES	\$4.75/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/PILEDRIVER: 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 (302 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 10/01/2011

SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLICKITAT, 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 WAHKIAKUM COUNTIES and INCLUDES THE ENTIRE PENINSULA WEST OF WILLAPA BAY

SEE ZONE DESCRIPTION FOR CITIES BASE POINTS

ZONE 1:

	Rates	Fringes
Carpenters:		
CARPENTERS.....	\$ 32.04	14.18
DIVERS TENDERS.....	\$ 36.34	14.18
DIVERS.....	\$ 77.08	14.18
DRYWALL.....	\$ 27.56	14.18
MILLWRIGHTS.....	\$ 32.19	14.18
PILEDRIVERS.....	\$ 33.04	14.18

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 07/01/2012

	Rates	Fringes
Carpenters:		
CENTRAL WASHINGTON:		
CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS, OKANOGAN (WEST OF THE 120TH MERIDIAN) AND YAKIMA COUNTIES		

CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 25.93	12.60
CARPENTERS.....	\$ 25.83	12.60
DIVERS TENDER.....	\$ 39.15	12.60
DIVERS.....	\$ 87.20	12.60
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 37.07	12.60
PILEDRIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 36.22	12.60

(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 07/07/2012

	Rates	Fringes
Carpenters:		
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.....	\$ 35.39	13.60
CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 35.49	13.60
CARPENTERS.....	\$ 35.39	13.60
DIVERS TENDER.....	\$ 39.15	13.60
DIVERS.....	\$ 87.20	13.60
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 36.39	13.60
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 35.59	13.60

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIEVERS

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 Vernion	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 PILEDRIEVER 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

WA140001 Modification 4
Federal Wage Determinations for Highway Construction

 ELEC0046-001 02/04/2013

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 46.87	3%+15.96
ELECTRICIAN.....	\$ 42.61	3%+15.96

 ELEC0048-003 01/01/2014

CLARK, KLICKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 42.63	19.11
ELECTRICIAN.....	\$ 38.75	19.11

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 01/01/2014

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 42.63	19.11
ELECTRICIAN.....	\$ 38.75	19.11

 ELEC0073-001 07/01/2013

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 31.98	16.15
ELECTRICIAN.....	\$ 29.07	16.15

 WA140001 Modification 4
 Federal Wage Determinations for Highway Construction

ELEC0076-002 09/01/2013

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON
COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.71	22.47
ELECTRICIAN.....	\$ 34.28	22.47

ELEC0112-005 07/01/2013ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA
WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 38.90	17.35
ELECTRICIAN.....	\$ 37.05	17.29

ELEC0191-003 06/01/2013

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 42.91	17.39
ELECTRICIAN.....	\$ 39.01	17.39

ELEC0191-004 07/01/2013

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 39.50	17.30
ELECTRICIAN.....	\$ 35.91	17.30

ENGI0302-003 06/01/2013

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

PROJECTS: CATEGORY A PROJECTS (EXCLUDES CATEGORY B PROJECTS, AS SHOWN BELOW)

Zone 1 (0-25 radius miles):

	Rates	Fringes
Power equipment operators:		
Group 1A.....	\$ 37.39	16.65
Group 1AA.....	\$ 37.96	16.65
Group 1AAA.....	\$ 38.52	16.65
Group 1.....	\$ 36.84	16.65
Group 2.....	\$ 36.35	16.65
Group 3.....	\$ 35.93	16.65
Group 4.....	\$ 33.57	16.65

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

WA140001 Modification 4

Federal Wage Determinations for Highway Construction

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, Barbar 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 machine-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

Category B Projects: 95% of the basic hourly reate for each group plus full fringe benefits applicable to category A projects shall apply to the following projects. 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 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.

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) - \$.70

Zone 3 (Over 45 radius miles) - \$1.00

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 Operaor-
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; 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, Barbar
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

CATEGORY B PROJECTS: 95% OF THE BASIC HOURLY RATE FOR EACH GROUP PLUS FULL FRINGE BENEFITS APPLICABLE TO CATEGORY A PROJECTS SHALL APPLY TO THE FOLLOWING PROJECTS. 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 including, but utilities excluded.
3. Marine projects (docks, wharfs, ect.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designed 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 06/01/2013

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 operators:		
GROUP 1.....	\$ 25.56	12.85
GROUP 2.....	\$ 25.88	12.85
GROUP 3.....	\$ 26.49	12.85
GROUP 4.....	\$ 26.65	12.85
GROUP 5.....	\$ 26.81	12.85
GROUP 6.....	\$ 27.09	12.85
GROUP 7.....	\$ 27.36	12.85
GROUP 8.....	\$ 28.46	12.85

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 (Dumor, 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; Roller (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 & Stifflegs (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.

 ENGI0612-012 06/01/2013

LEWIS, PIERCE, 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 operators:		
GROUP 1A.....	\$ 37.39	16.65
GROUP 1AA.....	\$ 37.96	16.65
GROUP 1AAA.....	\$ 38.52	16.65
GROUP 1.....	\$ 36.84	16.65
GROUP 2.....	\$ 36.35	16.65
GROUP 3.....	\$ 35.93	16.65
GROUP 4.....	\$ 33.57	16.65

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$.70
 Zone 3 (Over 45 radius miles) - \$1.00

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 tonsto 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in
height, bas 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, Barbar 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

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.

ENGI0701-002 01/01/2014

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
Power equipment operators:		
(See Footnote A)		
GROUP 1.....	\$ 38.25	13.70
GROUP 1A.....	\$ 40.16	13.70
GROUP 1B.....	\$ 42.08	13.70
GROUP 2.....	\$ 36.56	13.70
GROUP 3.....	\$ 35.54	13.70
GROUP 4.....	\$ 34.56	13.70
GROUP 5.....	\$ 33.43	13.70
GROUP 6.....	\$ 30.34	13.70

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 Operator, three units or more; CRANE: Helicopter Operator, when used in erecting work; Whirley Operator, 90 ton and over; LATTICE BOOM CRANE: Operator 200 tons through 299 tons, and/or over 200 feet boom; HYDRAULIC CRANE: Hydraulic Crane Operator 90 tons through 199 tons with luffing or tower attachments; FLOATING EQUIPMENT: Floating Crane, 150 ton but less than 250 ton

GROUP 1A: HYDRAULIC CRANE: Hydraulic Operator, 200 tons and over (with luffing or tower attachment); LATTICE BOOM CRANE: Operator, 200 tons through 299 tons, with over 200 feet boom; FLOATING EQUIPMENT: Floating Crane 250 ton and over

GROUP 1B: LATTICE BOOM CRANE: Operator, 300 tons through 399 tons with over 200 feet boom; Operator 400 tons and over; FLOATING EQUIPMENT: Floating Crane 350 ton and over

GROUP 2: ASPHALT: Asphalt Plant Operator (any type); Roto Mill, pavement profiler, operator, 6 foot lateral cut and over; BLADE: Auto Grader or "Trimmer" (Grade Checker required); Blade Operator, Robotic; BULLDOZERS: Bulldozer operator over 120,000 lbs and above; Bulldozer operator, twin engine; Bulldozer Operator, tandem, quadnine, D10, D11, and similar type; Bulldozere Robotic Equipment (any type; CONCRETE: Batch Plant and/or Wet Mix Operator, one and two drum; Automatic Concrete Slip Form Paver Operator; Concrete Canal Line Operator; Concrete Profiler, Diamond Head; CRANE: Cableway Operator, 25 tons and over; HYDRAULIC CRANE: Hydraulic crane operator 90 tons through 199 tons (without luffing or tower attachment); TOWER/WHIRLEY OPERATOR: Tower Crane Operator; Whirley Operator, under 90 tons; LATTICE BOOM CRANE: 90 through 199 tons and/or 150 to 200 feet boom; CRUSHER: Crusher Plant Operator; FLOATING EQUIPMENT: Floating Clamshell, etc.operator, 3 cu. yds. and over; Floating Crane (derrick barge) Operator, 30 tons but less than 150 tons; LOADERS: Loader operator, 120,000 lbs. and above; REMOTE CONTROL: Remote controlled earth-moving equipment; RUBBER-TIRED SCRAPERS: Rubber-tired scraper operator, with tandem scrapers, multi-engine; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Shovel, Dragline, Clamshell, operator 5 cu. yds and over; TRENCHING MACHINE: Wheel Excavator, under 750 cu. yds. per hour (Grade Oiler required); Canal Trimmer (Grade Oiler required); Wheel Excavator, over 750 cu. yds. per hour; Band Wagon (in conjunction with wheel excavator); UNDERWATER EQUIPMENT: Underwater Equipment Operator, remote or otherwise; HYDRAULIC HOES-EXCAVATOR: Excavator over 130,000 lbs.; HYDRAULIC CRANE: Hydraulic crane operator, 50 tons through 89 tons (with luffing or tower attachment);

GROUP 3: BULLDOZERS: Bulldozer operator, over 70,000 lbs. up to and including 120,000 lbs.; HYDRAULIC CRANE: Hydraulic crane operator, 50 tons through 89 tons (without luffing or tower attachment); LATTICE BOOM CRANES: Lattice Boom Crane-50 through 89 tons (and less than 150 feet boom); FORKLIFT: Rock Hound Operator; HYDRAULIC HOES-EXCAVATOR: excavator over 80,000 lbs. through 130,000 lbs.; LOADERS: Loader operator 60,000 and less than 120,000; RUBBER-TIRED SCRAPERS: Scraper Operator, with tandem scrapers; Self-loading, paddle wheel, auger type, finish and/or 2 or more units; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Shovel, Dragline, Clamshell operators 3 cu. yds. but less than 5 cu yds.

GROUP 4: ASPHALT: Screed Operator; Asphalt Paver operator (screeman required); BLADE: Blade operator; Blade operator, finish; Blade operator, externally controlled by electronic, mechanical hydraulic means; Blade operator, multi-engine; BULLDOZERS: Bulldozer Operator over 20,000 lbs and more than 100 horse up to 70,000 lbs; Drill Cat Operator; Side-boom Operator; Cable-Plow Operator (any type); CLEARING: Log Skidders; Chippers; Incinerator; Stump Splitter (loader mounted or similar type); Stump Grinder (loader mounted or similar type; Tub Grinder; Land Clearing Machine (Track mounted forestry mowing & grinding machine); Hydro Axe (loader mounted or similar type); COMPACTORS SELF-PROPELLED: Compactor Operator, with blade; Compactor Operator, multi-engine; Compactor Operator, robotic; CONCRETE: Mixer Mobile Operator; Screed Operator; Concrete Cooling Machine Operator; Concrete Paving Road Mixer; Concrete Breaker; Reinforced Tank Banding Machine (K-17 or similar types); Laser Screed; CRANE: Chicago boom and similar types; Lift Slab Machine Operator; Boom type lifting device, 5 ton capacity or less; Hoist Operator, two (2) drum; Hoist Operator, three (3) or more drums; Derrick Operator, under 100 ton; Hoist Operator, stiff leg, guy derrick or similar type, 50 ton and over; Cableway Operator up to twenty (25) ton; Bridge Crane Operator, Locomotive, Gantry, Overhead; Cherry Picker or similar type crane; Carry Deck Operator; Hydraulic Crane Operator, under 50 tons; LATTICE BOOM CRANE OPERATOR: Lattice Boom Crane Operator, under 50 tons; CRUSHER: Generator Operator; Diesel-Electric Engineer; Grizzley Operator; Drill Doctor; Boring Machine Operator; Driller-Perussion, Diamond, Core, Cable, Rotary and similar type; Cat Drill (John Henry); Directional Drill Operator over 20,000 lbs pullback; FLOATING EQUIPMENT: Diesel-electric Engineer; Jack Operator, elevating barges, Barge Operator, self-unloading; Piledriver Operator (not crane type) (Deckhand required); Floating Clamshell, etc. Operator, under 3 cu. yds. (Fireman or Diesel-Electric Engineer required); Floating Crane (derrick barge) Operator, less than 30 tons; GENERATORS: Generator Operator; Diesel-electric Engineer; GUARDRAIL EQUIPMENT: Guardrail Punch Operator (all types); Guardrail Auger Operator (all types); Combination Guardrail machines, i.e., punch auger, etc.; HEATING PLANT: Surface

Heater and Planer Operator; HYDRAULIC HOES EXCAVATOR: Robotic Hydraulic backhoe operator, track and wheel type up to and including 20,000 lbs. with any or all attachments; Excavator Operator over 20,000 lbs through 80,000 lbs.; LOADERS: Belt Loaders, Kolman and Ko Cal types; Loaders Operator, front end and overhead, 25,000 lbs and less than 60,000 lbs; Elevating Grader Operator by Tractor operator, Sierra, Euclid or similar types; PILEDRIVERS: Hammer Operator; Piledriver Operator (not crane type); PIPELINE, SEWER WATER: Pipe Cleaning Machine Operator; Pipe Doping Machine Operator; Pipe Bending Machine Operator; Pipe Wrapping Machine Operator; Boring Machine Operator; Back Filling Machine Operator; REMOTE CONTROL: Concrete Cleaning Decontamination Machine Operator; Ultra High Pressure Water Jet Cutting Tool System Operator/Mechanic; Vacuum Blasting Machine Operator/mechanic; REPAIRMEN, HEAVY DUTY: Diesel Electric Engineer (Plant or Floating; Bolt Threading Machine operator; Drill Doctor (Bit Grinder); H.D. Mechanic; Machine Tool Operator; RUBBER-TIRED SCRAPERS: Rubber-tired Scraper Operator, single engine, single scraper; Self-loading, paddle wheel, auger type under 15 cu. yds.; Rubber-tired Scraper Operator, twin engine; Rubber-tired Scraper Operator, with push-ull attachments; Self Loading, paddle wheel, auger type 15 cu. yds. and over, single engine; Water pulls, water wagons; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Diesel Electric Engineer; Stationay Drag Scraper Operator; Shovel, Dragline, Clamshell, Operator under 3 cy yds.; Grade-all Operator; SURFACE (BASE) MATERIAL: Blade mounted spreaders, Ulrich and similar types; TRACTOR-RUBBERED TIRED: Tractor operator, rubber-tired, over 50 hp flywheel; Tractor operator, with boom attachment; Rubber-tired dozers and pushers (Michigan, Cat, Hough type); Skip Loader, Drag Box; TRENCHING MACHINE: Trenching Machine operator, digging capacity over 3 ft depth; Back filling machine operator; TUNNEL: Mucking machine operator

GROUP 5: ASPHALT: Extrusion Machine Operator; Roller Operator (any asphalt mix); Asphalt Burner and Reconditioner Operator (any type); Roto-Mill, pavement profiler, ground man; BULLDOZERS: Bulldozer operator, 20,000 lbs. or less or 100 horse or less; COMPRESSORS: Compressor Operator (any power), over 1,250 cu. ft. total capacity; COMPACTORS: Compactor Operator, including vibratory; Wagner Factor Operator or similar type (without blade); CONCRETE: Combination mixer and Compressor Operator, gunite work; Concrete Batch Plant Quality Control Operator; Beltcrete Operator; Pumpcrete Operator (any type); Pavement Grinder and/or Grooving Machine Operator (riding type); Cement Pump Operator, Fuller-Kenyon and similar; Concrete Pump Operator; Grouting Machine Operator; Concrete mixer operator, single drum, under (5) bag capacity; Cast in place pipe laying machine; maginnis Internal Full slab vibrator operator; Concrete finishing mahine operator, Clary, Johnson, Bidwell, Burgess Bridge deck or similar type; Curb Machine Operator, mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine Operator; Concrete Planer Operator; Tower Mobile Operator; Power Jumbo Operator setting slip forms in tunnels; Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Concrete Paving Machine Operator; Concrete Finishing Machine Operator; Concrete Spreader Operator; CRANE: Helicopter Hoist Operator; Hoist Operator, single drum; Elevator Operator; A-frame Truck Operator, Double drum; Boom Truck Operator; HYDRAULIC CRANE OPERATOR: Hydraulic Boom Truck, Pittman; DRILLING: Churm Drill and Earth Boring Machine Operator; Vacuum Truck; Directional Drill Operator over 20,000 lbs pullback; FLOATING EQUIPMENT: Fireman; FORKLIFT: Fork Lift, over 10 ton and/or robotic; HYDRAULIC HOES EXCAVATORS: Hydraulic Backhoe Operator, wheel type (Ford, John Deere, Case type); Hydraulic Backhoe Operator track type up to and including 20,000 lbs.; LOADERS: Loaders, rubber- tired type, less than 25,000 lbs; Elevating Grader Operator, Tractor Towed requiring Operator or Grader; Elevating loader operator, Athey and similar types; OILERS: Service oiler (Greaser); PIPELINE-SEWER WATER: Hydra hammer or simialr types; Pavement Breaker Operator; PUMPS: Pump Operator, more than 5 (any size); Pot Rammer Operator; RAILROAD EQUIPMENT: Locomotive Operator, under 40 tons; Ballast Regulator Operator; Ballast Tamper Multi-Purpose Operator; Track Liner Operator; Tie Spacer Operator; Shuttle Car Operator; Locomotive Operator, 40 tons and over; MATERIAL HAULRS: Cat wagon DJBs Volvo similar types; Conveyored material hauler; SURFACING (BASE) MATERIAL: Rock Spreaders, self-propelled; Pulva-mixer or similar types; Chiip Spreading machine operator; Lime spreading operator, construction job siter; SWEEPERS: Sweeper operator (Wayne type) self-propelled construction job site; TRACTOR-RUBBER TIERED: Tractor operator, rubber-tired, 50 hp flywheel and under; Trenching machine operator, maximum digging capacity 3 ft depth; TUNNEL: Dinkey

GROUP 6: ASPHALT: Plant Oiler; Plant Fireman; Pugmill Operator (any type); Truck mounted asphalt spreader, with screed; COMPRESSORS: Compressor Operator (any power), under 1,250 cu. ft. total capacity; CONCRETE: Plant Oiler, Assistant Conveyor Operator; Conveyor Operator; Mixer Box Operator (C.T.B., dry batch, etc.); Cement Hog Operator; Concrete Saw Operator; Concrete Curing Machine Operator (riding type); Wire Mat or Brooming Machine Operator; CRANE: Oiler; Fireman, all equipment; Truck Crane Oiler Driver; A-frame Truck Operator, single drum; Tugger or Coffin Type Hoist Operator; CRUSHER: Crusher Oiler; Crusher Feederman; CRUSHER: Crusher oiler; Crusher feederman; DRILLING: Drill Tender; Auger Oiler; FLOATING EQUIPMENT: Deckhand; Boatman; FORKLIFT: Self-propelled Scaffolding Operator, construction job site (exclduing working platform); Fork Lift or Lumber Stacker Operator, construction job site; Ross Carrier Operator, construction job site; Lull Hi-Lift Operator or Similar Type; GUARDRAIL EQUIPMENT: Oiler; Auger Oiler; Oiler, combination guardrail machines; Guardrail Punch Oiler; HEATING PLANT: Temporary Heating Plant Operator; LOADERS: Bobcat, skid steer (less than 1 cu yd.); Bucket Elevator Loader Operator, BarberGreene and similar types; OILERS: Oiler; Guardrail Punch Oiler; Truck Crane Oiler-Driver; Auger Oiler; Grade Oiler, required to check grade; Grade Checker; Rigger; PIPELINE-SEWER WATER: Tar Pot Fireman; Tar Pot Fireman (power agitated); PUMPS: Pump Operator (any power); Hydrostatic Pump Operator; RAILROAD EQUIPMENT: Brakeman; Oiler; Switchman; Motorman; Ballast Jack Tamper Operator; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER, ETC. OPERATOR: Oiler, Grade Oiler (required to check grade); Grade Checker; Fireman; SWEEPER: Broom operator, self propelled, construction job site; SURFACING (BASE) MATERIAL: Roller Operator, grading of base rock (not asphalt); Tamping Machine operator, mechanical, self-propelled; Hydrographic Seeder Machine Operator; TRENCHING MACHINE: Oiler; Grade Oiler; TUNNEL: Conveyor operator; Air filtration equipment operator

IRON0014-005 07/01/2013

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 31.60	21.35

IRON0029-002 07/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKAIKUM
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.12	21.35

IRON0086-002 07/01/2013

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 31.60	21.35

IRON0086-004 07/01/2013

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 38.14	21.35

LABO0001-002 06/01/2013

ZONE 1:

	Rates	Fringes
Laborers:		
CALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (NORTH OF STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY WAHKIAKUM COUNTY WEST TO THE PACIFIC OCEAN), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES		
GROUP 1.....	\$ 22.19	9.85
GROUP 2.....	\$ 25.41	9.85
GROUP 3.....	\$ 31.76	9.85
GROUP 4.....	\$ 32.53	9.85
GROUP 5.....	\$ 33.06	9.85

CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS AND YAKIMA COUNTIES

GROUP 1.....	\$ 18.73	9.85
GROUP 2.....	\$ 21.47	9.85
GROUP 3.....	\$ 23.51	9.85
GROUP 4.....	\$ 24.08	9.85
GROUP 5.....	\$ 24.49	9.85

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).

LABO0238-004 06/01/2013

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.....	\$ 22.00	10.65
GROUP 2.....	\$ 24.10	10.65
GROUP 3.....	\$ 24.37	10.65
GROUP 4.....	\$ 24.64	10.65
GROUP 5.....	\$ 24.92	10.65
LABORER (SPOKANE)		
GROUP 1.....	\$ 21.70	10.65
GROUP 2.....	\$ 23.80	10.65
GROUP 3.....	\$ 24.07	10.65
GROUP 4.....	\$ 24.34	10.65
GROUP 5.....	\$ 24.62	10.65

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); Gunite (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 riases and shafts)

GROUP 6 - Powderman

LABO0238-006 06/01/2013

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.....	\$ 24.10	10.65

LABO0335-001 06/01/2013

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHKIAKUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 28.65	10.05
GROUP 2.....	\$ 29.25	10.05
GROUP 3.....	\$ 29.69	10.05
GROUP 4.....	\$ 30.07	10.05
GROUP 5.....	\$ 26.15	10.05
GROUP 6.....	\$ 23.73	10.05
GROUP 7.....	\$ 20.53	10.05

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: GOLDENDALE, 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; Gunite Nozzleman Tender; Gunite 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; Gunite Nozzleman; High Scalers, 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 09/01/2013

	Rates	Fringes
Hod Carrier.....	\$ 30.47	10.05

PAIN0005-002 07/01/2013

STATEWIDE EXCEPT CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 28.00	14.33

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 07/01/2013

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
Painters:		
Application of Cold Tar Products, Epoxies, Polyure thanes, Acids, Radiation Resistant Material, Water and Sandblasting.....	\$ 26.79	10.41
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping, Steam-cleaning and Spray....	\$ 21.69	10.41
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.

PAIN0055-002 01/01/2014

CLARK, COWLITZ, KLICKITAT, PACIFIC, SKAMANIA, AND WAHKIAKUM
 COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 21.01	9.06
High work - All work 60 ft. or higher.....	\$ 21.76	9.06
Spray and Sandblasting.....	\$ 21.61	9.06

PAIN0055-007 07/01/2013

CLARK, COWLITZ, KLICKITAT, SKAMANIA and WAHKIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT STRIPER.....	\$ 33.41	10.36

PLAS0072-004 06/01/2013

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.....	\$ 26.01	12.14

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 06/01/2013

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, LEWIS, MASON, PACIFIC, PIERCE, SAN JUAN, SKAGIT,
SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
Cement Masons:		
CEMENT MASON.....	\$ 36.63	14.55
COMPOSITION, TROWEL MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE.....	\$ 37.13	14.55
TROWLING MACHINE OPERATOR ON COMPOSITION.....	\$ 37.13	14.55

PLAS0555-002 06/01/2012

CLARK, KLICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
Cement Masons:		
CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDE/HANGING SCAFFOLD..	\$ 30.58	17.76
CEMENT MASONS ON SUSPENDE, SWINGING AND/OR HANGING SCAFFOLD.....	\$ 30.58	17.76
CEMENT MASONS.....	\$ 29.98	17.76
COMPOSITION WORKERS AND POWER MACHINERY OPERATORS...	\$ 31.18	17.76

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 06/01/2013

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 WAHKLAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 26.90	13.75
GROUP 2.....	\$ 27.02	13.75
GROUP 3.....	\$ 27.15	13.75
GROUP 4.....	\$ 27.41	13.75
GROUP 5.....	\$ 27.63	13.75
GROUP 6.....	\$ 27.79	13.75
GROUP 7.....	\$ 27.99	13.75

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 cumps, 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 01/01/2014

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:.....	\$ 32.18	16.69
GROUP 2:.....	\$ 31.34	16.69
GROUP 3:.....	\$ 28.53	16.69
GROUP 4:.....	\$ 23.56	16.69
GROUP 5:.....	\$ 31.73	16.69

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 01/01/2014

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.....	\$ 20.17	15.19
GROUP 2.....	\$ 22.44	15.19
GROUP 3.....	\$ 22.94	15.19
GROUP 4.....	\$ 23.27	15.19
GROUP 5.....	\$ 23.38	15.19
GROUP 6.....	\$ 23.55	15.19
GROUP 7.....	\$ 24.08	15.19
GROUP 8.....	\$ 24.44	15.19
AREA 2		
GROUP 1.....	\$ 21.77	15.19
GROUP 2.....	\$ 24.31	15.19
GROUP 3.....	\$ 24.42	15.19
GROUP 4.....	\$ 24.75	15.19
GROUP 5.....	\$ 24.86	15.19
GROUP 6.....	\$ 25.02	15.19
GROUP 7.....	\$ 25.56	15.19
GROUP 8.....	\$ 25.88	15.19

Zone Differential (Add to Zone 1 rate: Zone 2 + \$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)

WA140001 Modification 4

Federal Wage Determinations for Highway Construction

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 & Truck 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 addition 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.

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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 union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows 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. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

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

APPENDIX C
GEOTECHNICAL DATA REPORT
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GEOTEST

741 Marine Drive
Bellingham, WA 98223
20611-67th Avenue NE
Arlington, WA 98223

TOLL FREE
888 251_5276

FAX
360 733_7418

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360 733_7318

January 4, 2008
Job No. 07-0821

Reichhardt & Ebe Engineering, Inc.
PO Box 978
423 Front Street, Suite 201
Lynden, WA 98264

Attn.: Luis Ponce, P.E.

**Re: Church Road and 2nd Street
Road Section Investigation
Ferndale, WA**

Dear Mr. Ponce,

GeoTest Services, Inc. is pleased to present the results of phase 1 of the Church Road and 2nd Street design section and subgrade investigation performed for the above referenced project. It is our understanding that additional subsurface explorations will take place within the Simplot industrial property north of 2nd Street. The results of the additional explorations will be reported in our phase 2 addendum report. Our services were completed in general accordance with your request.

Project Description

We understand that pavement improvements are proposed on Church Road between Mountain View Road and Thornton Road, and on 2nd Street from Washington Street to Eaton Avenue. The purpose of this site investigation is to provide information about existing pavement thickness and subgrade conditions that will be used in planning for the future development and pavement improvements.

Site Investigation

As requested, on December 19th and 20th, GeoTest Services logged the thickness of the asphalt pavement and base materials at seven locations on 2nd Street and fifteen locations on Church Road. After removal of the existing asphalt and concrete, GeoTest excavated gravel road base to a depth which exposed undisturbed native soils. At this point, the existing road cross-section was evaluated for thickness and documented for your review. In order to evaluate the native soil conditions, excavation continued into the native soils in order to obtain representative samples for potential laboratory analysis.

Surface and Subsurface Conditions

2nd Street:

Observations of the existing roadway surface on 2nd street included the following conditions:

- **Alligator Cracking** – categorized as high severity which includes spalling and pumping.
- **Rutting** - categorized as high severity with average rutting depths exceeding ¼ inch in many locations.
- **Longitudinal Cracking** - categorized as medium to high severity with widths exceeding ¼ inch and spalling observed in some locations.
- **Transverse Cracking** - categorized as medium to high severity with widths exceeding ¼ inch and spalling observed in some locations.
- **Ravelling** – Categorized as low to high severity depending on location.
- **Patching** – Categorized as high severity due to full depth dig outs typically around utility repair areas.
- **Crack Seal** – Categorized as low severity due to small hairline cracks within a small percentage of crack sealed areas.

From Somerset Street to Washington Street, the asphalt surface displays large scale cracking categorized as severe which were mainly observed in the northbound lane. These cracks appear to propagate into the underlying concrete due to associated spalling. A lengthwise upheaval of approximately 5 inches in the southbound lane, approximately 3 feet from centerline extending from Eaton Ave to Somerset in another area where longitudinal cracking was observed. In some locations the existing concrete underlying the asphalt is visible through the longitudinal and transverse cracks.

Following are measurements of the pavement section at our seven core locations within 2nd Street:

	Depth of Material	Type of Material
Location 1 : 2nd Street	0 to ½ inches	Asphalt
Station 10+75, 3 ft. east of centerline	½ to 8 ½ inches	Concrete
	8 ½ to 20 inches	Undisturbed Native

Location 2 : 2nd Street Station 11+75, 4 ft. west of centerline	Depth of Material	Type of Material
	0 to 5 inches	Asphalt
	5 to 7 inches	Crushed Surfacing Top Course
	7 to 15 inches	Undisturbed Native

Location 3 : 2nd Street Station 12+75, 6 ft. from east curb	Depth of Material	Type of Material
	0 to ¾ inches	Asphalt
	¾ to 8 ¾ inches	Concrete
	8 ¾ to 13 inches	Undisturbed Native

Location 4 : 2nd Street Station 13+75, 3.5 ft. east of centerline	Depth of Material	Type of Material
	0 to ½ inches	Asphalt
	½ to 8 ½ inches	Concrete
	8 ½ to 14 inches	Undisturbed Native

Location 5 : 2nd Street Station 14+75, 3.5 ft west of centerline	Depth of Material	Type of Material
	0 to 6 ½ inches	Asphalt
	6 ½ to 7 ½ inches	Crushed Surfacing Top Course
	7 ½ to 30 inches	Undisturbed Native

Location 6 : 2nd Street Station 15+75, 8 ft. east of centerline	Depth of Material	Type of Material
	0 to ¾ inches	Asphalt
	¾ to 7 ½ inches	Concrete
	7 ½ to 22 inches	Undisturbed Native

	Depth of Material	Type of Material
Location 7 : 2nd Street Station 17+75, 6.5 ft. east of centerline	0 to 4 ½ inches	Asphalt
	4 ½ to 13 inches	Crushed Surfacing Top Course
	13 to 22 inches	Undisturbed Native

Underlying the asphalt surface on 2nd street, GeoTest observed concrete directly on the undisturbed native soils in core locations 1, 3, 4 and 6. In core locations 2, 5 and 7 no concrete was observed. Native subgrade soils beneath the import fill observed at the base of the exploration consisted of a moist, gray-brown, sandy silt. These underlying soils were visually classified using the Unified Soil Classification System (USCS). This material was probed with a 3/8 inch diameter pointed rod and was judged to be in a soft to medium stiff condition based on 5-12 inch penetrations with a hand probe. Samples of the native soils were collected from each core location for laboratory analysis if requested. A sample of crushed surfacing top course was also collected from core location 5.

Church Road:

Observations of the existing roadway surface on Church Road included the following conditions:

- **Alligator Cracking** – categorized as medium severity.
- **Rutting** – generally categorized as medium severity with average rutting depths from ½ to ¾ inch. In some areas we observed high severity of rutting with depths exceeding ¾ inch.
- **Ravelling** – Categorized as low to medium severity.

Alligator cracking and ravelling was observed in the section surrounding the entrance to the new Church Hill Estates residential development, mostly on the outside of the southbound lane. Medium to severe rutting was observed in both lanes from Heights Drive to Mountain View. It should be noted that some areas of Church Road showed no evidence of the above referenced conditions.

Following are measurements of the pavement section at our fifteen core locations within Church Road:

Location 8 : Church Road	Depth of Material	Type of Material
Northbound lane, 100 ft. north of Mountainview Road	0 to 4 inches	Asphalt
	4 to 13 inches	Sandy Gravel Base
	13 to 22 inches	Undisturbed Native

Location 9 : Church Road Northbound lane, 200 ft. north of Norway Drive	Depth of Material	Type of Material
	0 to 4 inches	Asphalt
	4 to 11 inches	Sandy Gravel Base
	11 to 19 inches	Undisturbed Native

Location 10 : Church Road Northbound lane, 40 ft. north of Heights Drive	Depth of Material	Type of Material
	0 to 2 ½ inches	Asphalt
	2 ½ to 12 inches	Sandy Gravel Base
	12 to 21 inches	Undisturbed Native

Location 11 : Church Road Northbound lane, adjacent to house number 5855	Depth of Material	Type of Material
	0 to 3 inches	Asphalt
	3 to 20 inches	Sandy Gravel Base
	20 to 29 inches	Undisturbed Native

Location 12 : Church Road Northbound lane, 150 ft. north of Lakeridge Drive	Depth of Material	Type of Material
	0 to 4 inches	Asphalt
	4 to 17 inches	Sandy Gravel Base
	17 to 25 inches	Undisturbed Native

Location 13 : Church Road Northbound lane, adjacent to house number 5971	Depth of Material	Type of Material
	0 to 2 ½ inches	Asphalt
	2 ½ to 12 inches	Sandy Gravel Base
	12 to 20 inches	Undisturbed Native

Location 14 : Church Road Northbound lane, adjacent Church Hill Estates Development	Depth of Material	Type of Material
	0 to 3 inches	Asphalt
	3 to 13 inches	Sandy Gravel Base
	13 to 24 inches	Undisturbed Native

Location 15 : Church Road Northbound lane, adjacent to house number 6086	Depth of Material	Type of Material
	0 to 2 inches	Asphalt
	2 to 12 inches	Sandy Gravel Base
	12 to 19 inches	Undisturbed Native

Location 16 : Church Road Northbound lane, adjacent to fire station near Thornton Road	Depth of Material	Type of Material
	0 to 5 inches	Asphalt
	5 to 25 inches	Sandy Gravel Base
	25 to 35 inches	Undisturbed Native

Location 17 : Church Road Northbound lane, adjacent house to number 6095	Depth of Material	Type of Material
	0 to 6 inches	Asphalt
	6 to 16 inches	Sandy Gravel Base
	16 to 25 inches	Undisturbed Native

Location 18 : Church Road Southbound lane, adjacent house to number 6087	Depth of Material	Type of Material
	0 to 6 ¼ inches	Asphalt
	6 ¼ to 18 ½ inches	Sandy Gravel Base
	18 ½ to 27 inches	Undisturbed Native

Location 19 : Church Road Southbound lane, 50 ft. south of Bakerview Pk.	Depth of Material	Type of Material
	0 to 3 ½ inches	Asphalt
	3 ½ to 14 inches	Sandy Gravel Base
	14 to 26 ½ inches	Undisturbed Native

Location 20 : Church Road Southbound lane, adjacent house number 5847	Depth of Material	Type of Material
	0 to 2 ½ inches	Asphalt
	2 ½ to 12 ½ inches	Sandy Gravel Base
	12 ½ to 19 inches	Undisturbed Native

Location 21 : Church Road Southbound lane, adjacent house number 5801	Depth of Material	Type of Material
	0 to 2 ½ inches	Asphalt
	2 ½ to 15 inches	Sandy Gravel Base
	15 to 26 inches	Undisturbed Native

Location 22 : Church Road Southbound lane, intersection with Norway Drive	Depth of Material	Type of Material
	0 to 2 ½ inches	Asphalt
	2 ½ to 17 inches	Sandy Gravel Base
	17 to 25 inches	Undisturbed Native

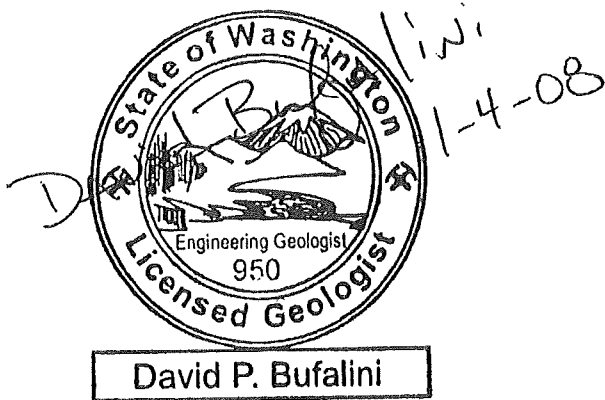
The sandy gravel base material encountered at all 15 core locations on Church Road underlying the asphalt is likely import fill. Samples of the gravel base material were obtained for laboratory analysis, if requested, in locations 9 and 17. No crushed surfacing top course was found in the Church Road section. Native subgrade soils beneath the gravel base exposed at the base of the exploration consisted of moist, gray, black, or brown, mottled silty clay and sandy silt. These underlying soils were visually classified using the Unified Soil Classification System (USCS). This material was probed with a 3/8 inch diameter pointed rod and was judged to be in a soft to medium stiff condition based on 6-12 inch penetrations with a hand probe. In location 13, the native soil was significantly over optimum at approximately 20 inches depth below the road surface. Samples of native material were collected from each location for lab analysis if requested. Pictures from our investigation on December 20 have been included in this report for your review.

Each of the 22 core locations were backfilled and compacted with the excavated gravel to within approximately 2 to 4 inches of the top of existing asphalt. The remaining depth

at each core location was patched with "EZ Street" asphalt patch and compacted with hand tools.

We appreciate the opportunity to be of service to you on this project and look forward to providing continuing services to you. Should you have any questions regarding this report or other aspects of the project, please feel free to contact our office at any time.

Respectfully Submitted,
GeoTest Services, Inc.



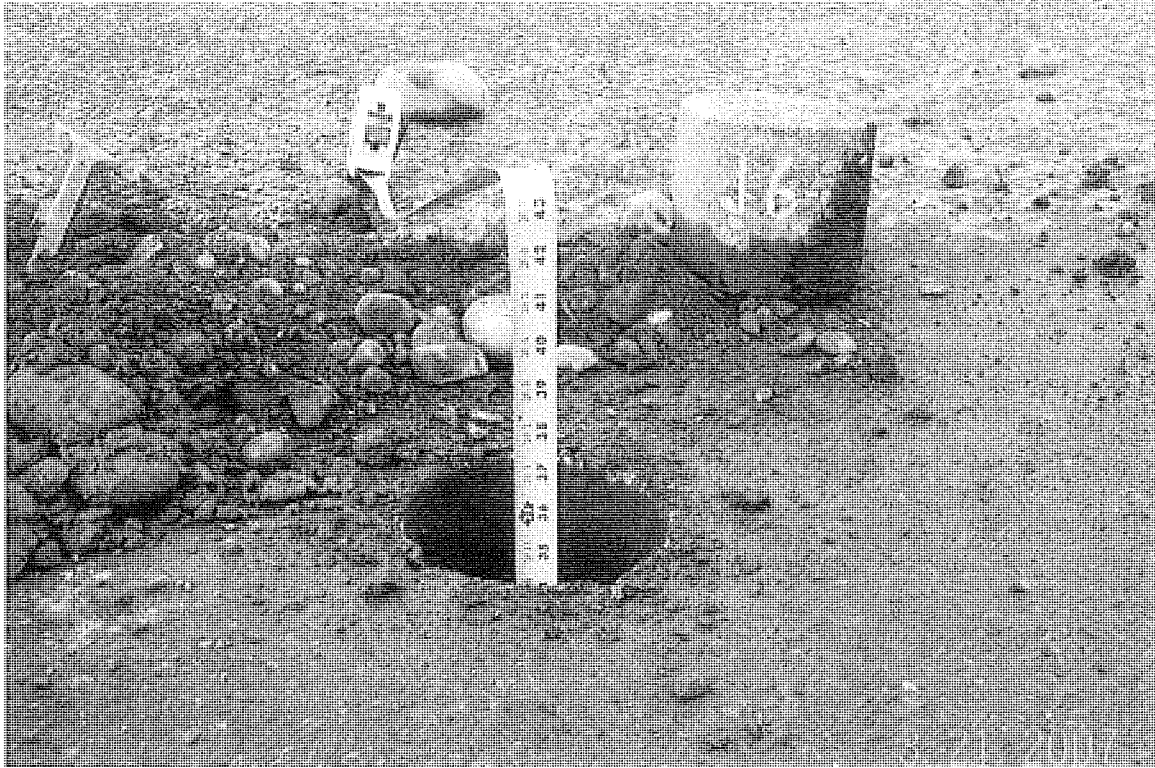
David Bufalini, L.E.G.
Engineering Geologist
Attached: photos



Looking South on Church Rd.- Location 9 (Date Incorrect)



Looking West on Church Rd. – Location 12 (Date Incorrect)



Church Rd. -- Location 16 (Date Incorrect)

APPENDIX D
FHWA-1273, REQUIRED CONTRACT PROVISIONS FOR FEDERAL AID
CONSTRUCTION CONTRACTS
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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.

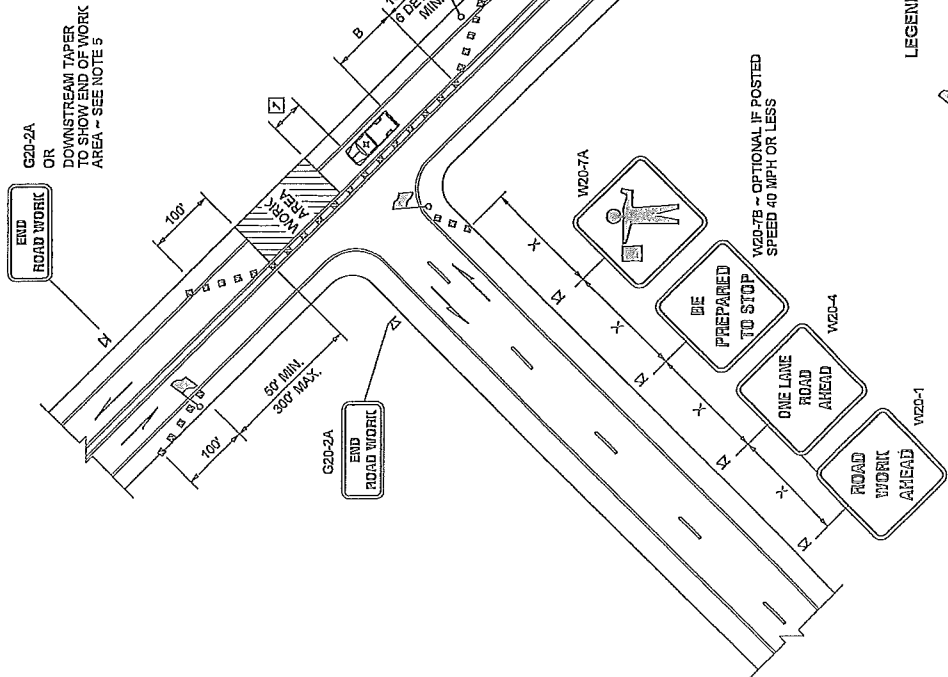
APPENDIX E
TRAFFIC CONTROL PLAN – SERIES K WSDOT STANDARD PLANS
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LONGITUDINAL BUFFER SPACE = B

POSTED SPEED (MPH)	25	30	35	40	45	50	55	60	65
LENGTH B (FEET)	155	200	250	305	360	425	495	570	645

BUFFER DATA

TYPICAL PROTECTIVE VEHICLE WITH TMA (SEE NOTE 1)	
VEHICLE TYPE	LOADED WEIGHT
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION)
◇ ROLL-AHEAD STOPPING DISTANCE = 30 FEET MIN. (DRY PAVEMENT ASSUMED)	



NOTES

1. A Protective Vehicle is recommended regardless if a Truck Mounted Attenuator (TMA) is available; a work vehicle may be used. When no TMA is used, the Protective Vehicle shall be strategically located to shield workers, with no specific Roll-Ahead distance.
2. Night work requires additional roadway lighting at flagging stations. See WSDOT Standard Specifications for additional details.
3. Extend Channelizing Device taper across shoulder ~ recommended.
4. Sign sequence is the same for both directions of travel on the roadway.
5. Channelizing Device spacing for the downstream taper option shall be 20' O.C.
6. For signs size refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual M65-06.

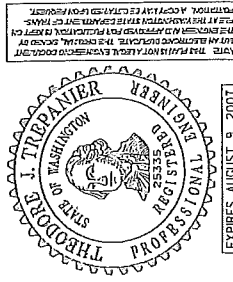
SIGN SPACING = X (1)

RURAL HIGHWAYS	60 / 65 MPH	600' ±
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)

ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE

- (1) ALL SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.
- (2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**FOR LOCAL AGENCY USE ONLY
NOT FOR USE ON STATE ROUTES**



**LANE CLOSURE
WITH FLAGGER CONTROL
STANDARD PLAN K-20.40-00**

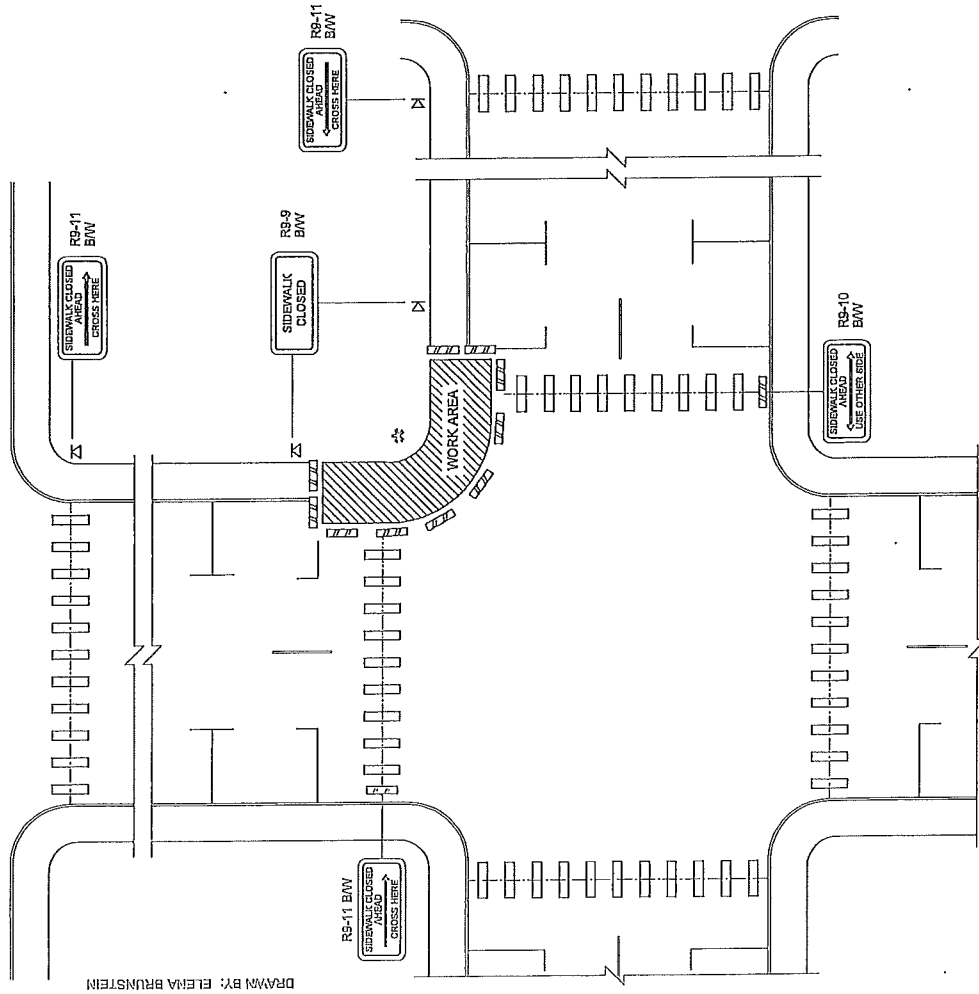
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Karen L. Smith
STATE ENGINEER

DATE: **02-15-07**

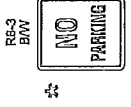
Washington State Department of Transportation



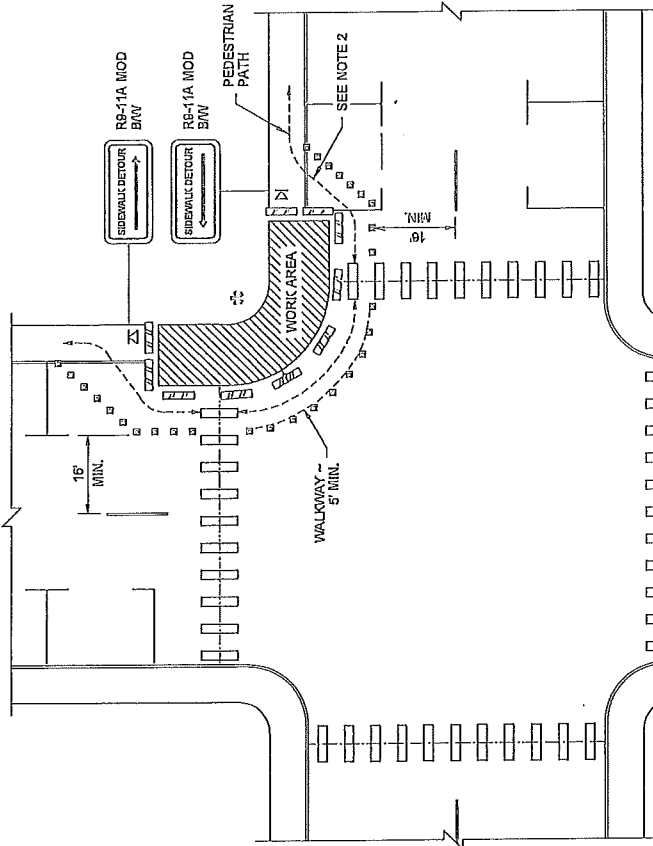
DRAWN BY: ELENA BRUNSTEIN

**PEDESTRIAN DETOUR
WORKING HOURS**

- LEGEND**
- ⊞ SIGN LOCATION
 - CHANNELIZING DEVICES
 - ▭ TYPE 2 BARRICADE



Install on Type 2 Barricades throughout the work area 24 hours prior to implementing traffic control. Prior notification of Local Law Enforcement required.

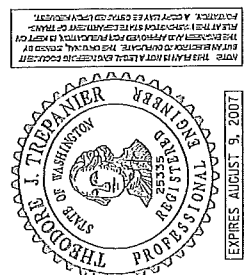


**PEDESTRIAN DETOUR
NON-WORKING HOURS**

NOTES

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
2. Controls shown are for pedestrian traffic only.
3. Use Warning Lights on barricades.
4. Maintain a minimum width of 3 feet for pedestrian path.
5. For signs size refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual M55-05.

**FOR LOCAL AGENCY USE ONLY
NOT FOR USE ON STATE ROUTES**



**INTERSECTION
PEDESTRIAN DETOUR**
STANDARD PLAN K-34.20-00

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Ken L. Smith
DATE **02-15-07**
ENGINEER
Washington State Department of Transportation

BUFFER DATA	
TYPICAL PROTECTIVE VEHICLE WITH TMA (SEE NOTE 1)	
VEHICLE TYPE	LOADED WEIGHT
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANU- FACTURER RECOMMENDATION)
◇ ROLL AHEAD STOPPING DISTANCE = 30 FEET MIN. (DRY PAVEMENT ASSUMED)	

MINIMUM TAPER LENGTH = L (FEET)	
LANE WIDTH (FEET)	POSTED SPEED (MPH)
25	30
30	35
35	40
40	45
45	50
50	55
55	60
60	65
65	70
70	75
75	80
80	85
85	90
90	95
95	100

SIGN SPACING = X (1)	
RURAL ROADS	45 / 55 MPH
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH
URBAN STREETS	25 MPH OR LESS
ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE	

NOTES

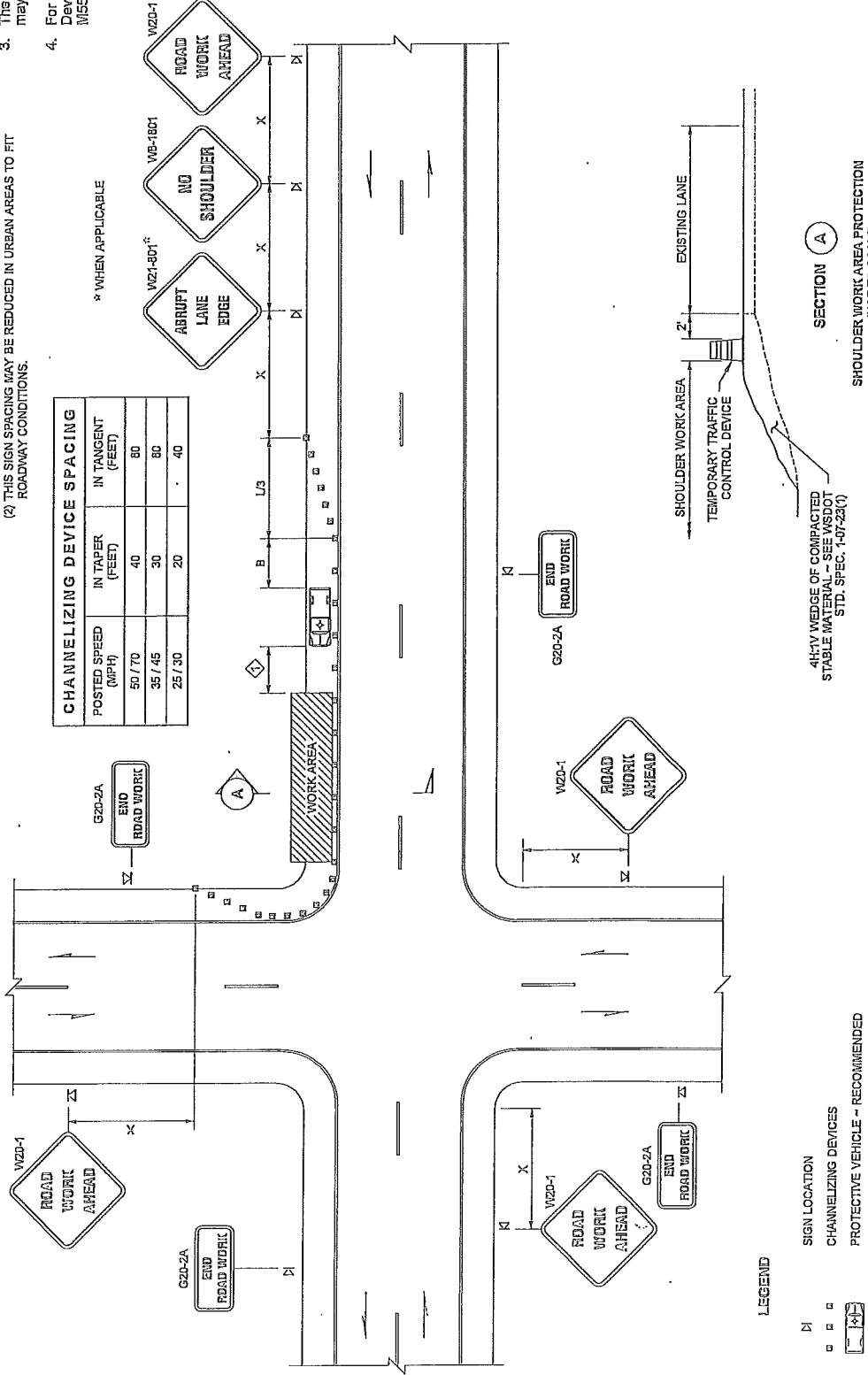
- A Protective Vehicle is recommended regardless if a Truck Mounted Attenuator (TMA) is available; a work vehicle may be used. When no TMA is used, the Protective Vehicle shall be strategically located to shield workers, with no specific Roll-Ahead distance.
- For long term projects conflicting pavement markings that are no longer applicable shall be removed. Temporary markings shall be used as necessary and signs shall be post mounted.
- The sign MOTORCYCLES USE EXTREME CAUTION may be used.
- For signs size refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual W55-05.

(1) ALL SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZING DEVICE SPACING		
POSTED SPEED (MPH)	IN TAPER (FEET)	IN TANGENT (FEET)
50 / 70	40	80
35 / 45	30	60
25 / 30	20	40

* WHEN APPLICABLE



LEGEND

- ◇ SIGN LOCATION
- CHANNELIZING DEVICES
- ◇ PROTECTIVE VEHICLE - RECOMMENDED

THEODORE J. TRAPANIER
STATE OF WASHINGTON
25333
REGISTERED PROFESSIONAL ENGINEER
EXPIRES AUGUST 9, 2007

THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.

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NOT FOR USE ON STATE ROUTES

INTERSECTION
~ SHOULDER WORK
STANDARD PLAN K-36.20-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Keren L. Smith
STATE DESIGN ENGINEER
Washington State Department of Transportation

DATE 02-15-07

LONGITUDINAL BUFFER SPACE = B						
POSTED SPEED (MPH)	25	30	35	40	45	50
LENGTH B (FEET)	155	200	250	305	SEE STD. PLAN K-40.20	70

MINIMUM TAPER LENGTH = L (FEET)						
SHOULDER WIDTH (FEET)	POSTED SPEED (MPH)					
	25	30	35	40	45	50
6	63	80	123	160	85	70
9	84	120	164	214	SEE STD. PLAN K-40.20	
10	105	150	204	267		
LESS THAN 6	3 DEVICES MINIMUM, SPACED 10' O.C.					

BUFFER DATA	
VEHICLE TYPE	LOADED WEIGHT
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 16,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION)
◊	ROLL-AHEAD STOPPING DISTANCE = 30 FEET MIN. (DRY PAVEMENT ASSUMED)

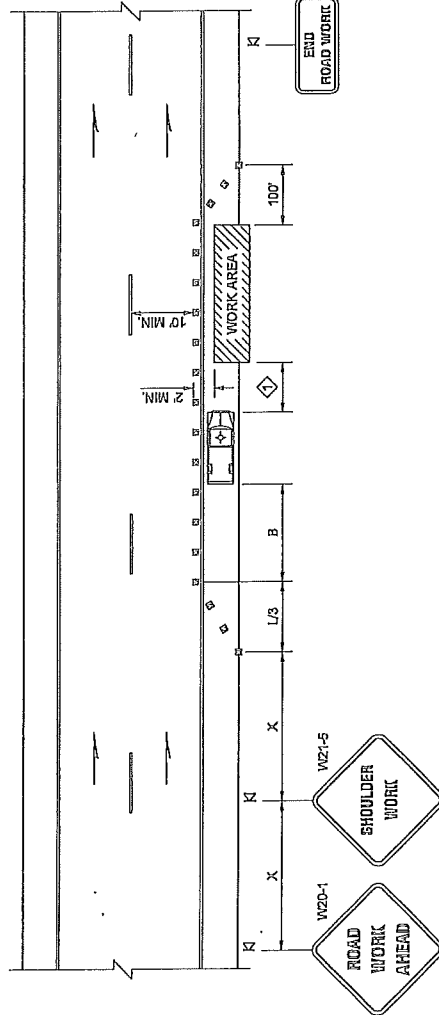
CHANNELIZING DEVICE SPACING		
POSTED SPEED (MPH)	IN TAPER (FEET)	IN TANGENT (FEET)
35 / 40	30	60
25 / 30	20	40

NOTES

1. A Protective Vehicle is recommended regardless if a Truck Mounted Attenuator (TMA) is available; a work vehicle may be used. When no TMA is used, the Protective Vehicle shall be strategically located to shield workers, with no specific Roll-Ahead distance.
2. Channelizing Device spacing for the downstream taper option shall be 20' O.C.
3. For signs size refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual M55-05.

SIGN SPACING = I (1)		
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 SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.
- (2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



- LEGEND**
- ◊ SIGN LOCATION
 - ▣ CHANNELIZING DEVICES
 - ◻ PROTECTIVE VEHICLE - RECOMMENDED

**FOR LOCAL AGENCY USE ONLY
NOT FOR USE ON STATE ROUTES**



**SHOULDER CLOSURE
~ LOW SPEED ROADWAY
(40 MPH OR LESS)
STANDARD PLAN K-40.40-00**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Ken L. Smith 02-15-07
STATE REGIONAL ENGINEER DATE

Washington State Department of Transportation

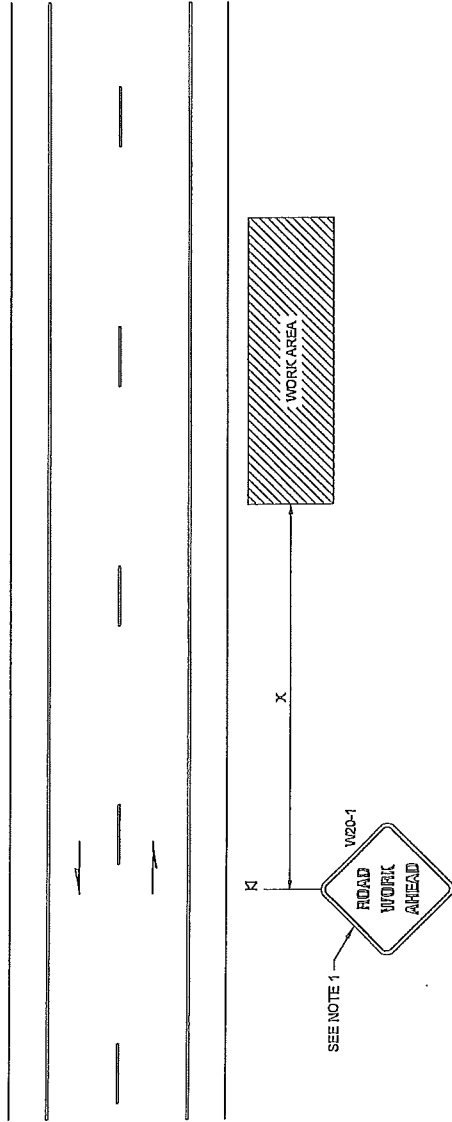
NOTES

1. The sign shown is not required in the following cases: the work space is behind a barrier, or more than 2' behind the curb, or more than 15' from the edge of a roadway.
2. For sign size, refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual W55-05.

SIGN SPACING = X (1)		
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)
ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE		

(1) ALL SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

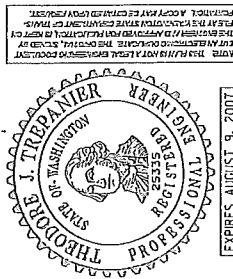
(2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



LEGEND

K SIGN LOCATION

FOR LOCAL AGENCY USE ONLY
NOT FOR USE ON STATE ROUTES



WORK BEYOND
THE SHOULDER

STANDARD PLAN K-40.00-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Ken L. Smith

02-15-07

CIVIL DESIGN ENGINEER

Washington State Department of Transportation



SIGN SPACING = X (1)	
RURAL HIGHWAYS	80 / 65 MPH 800' ±
RURAL ROADS	45 / 55 MPH 500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH 350' ±
RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH 200' ± (2)
URBAN STREETS	25 MPH OR LESS 100' ± (2)

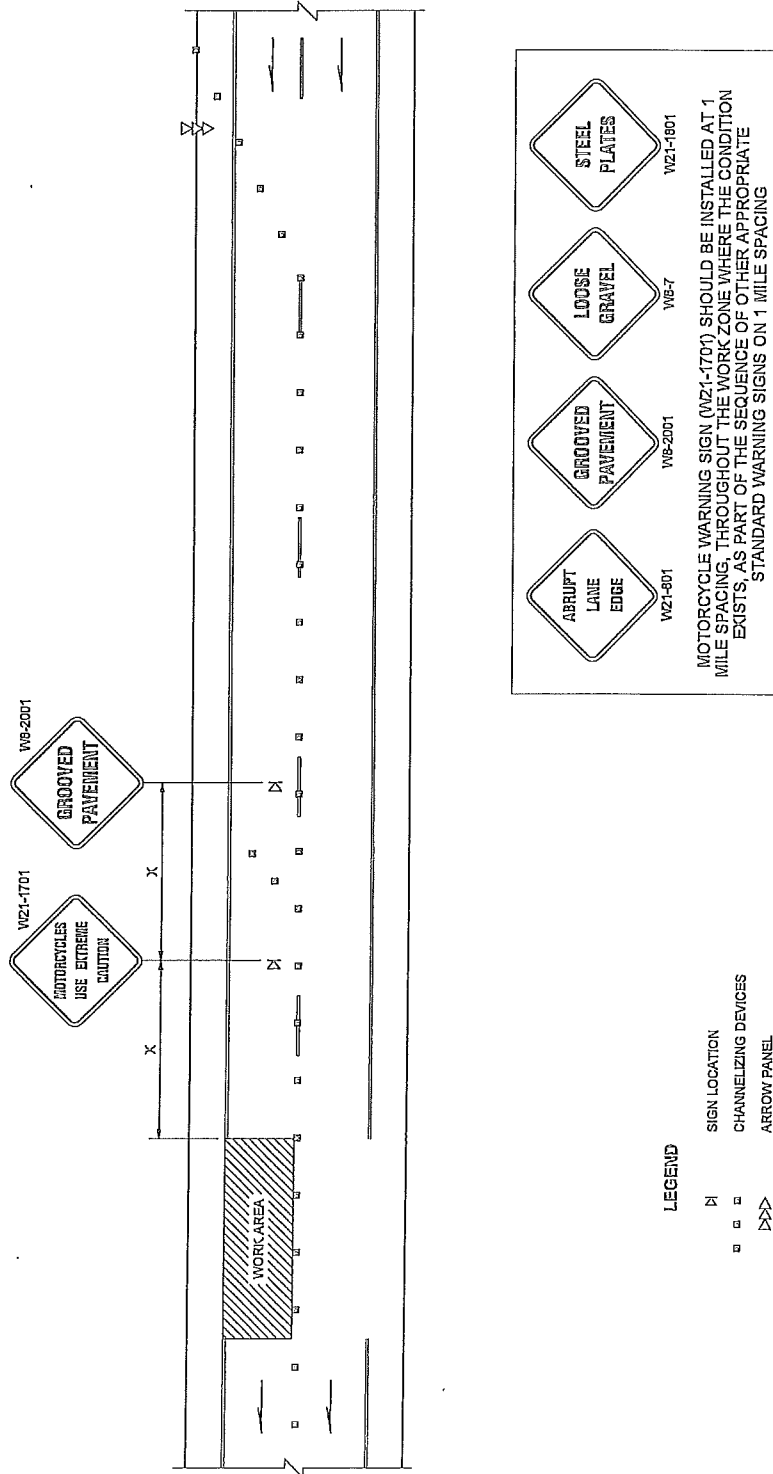
(1) ALL SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.

(2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZING DEVICE SPACING		
POSTED SPEED (MPH)	IN TAPER (FEET)	IN TANGENT (FEET)
50 / 70	40	80
35 / 45	30	80
25 / 30	20	40

NOTES

- See Standard Plan K-24-60 for typical lane closure signing details, device spacing requirements, and lane closure taper length.
 - MOTORCYCLES USE EXTREME CAUTION signs shall be installed when the following roadway conditions exist:
 - grooved pavement
 - abrupt lane edge
 - steel plates
 - loose gravel of earth
- Specific signs for each of the conditions noted shall be installed along with MOTORCYCLES USE EXTREME CAUTION signs.
- For signs size refer to Manual on Uniform Traffic Control Devices (MUTCD) and WSDOT Sign Fabrication Manual M55-05.



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NOT FOR USE ON STATE ROUTES

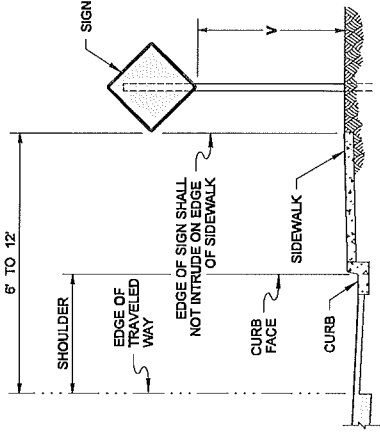


MOTORCYCLE
SUPPLEMENTAL SIGNING
STANDARD PLAN K-60-40-00
SHEET 1 OF 1 SHEET

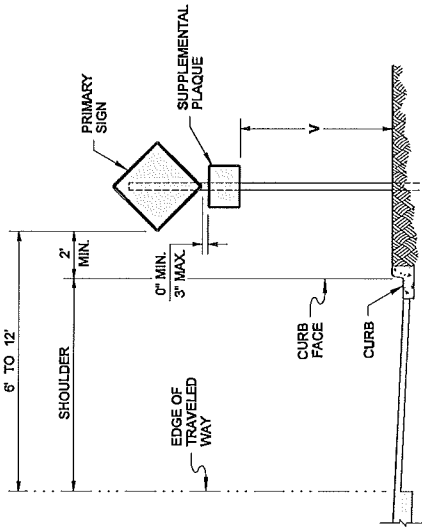
APPROVED FOR PUBLICATION
Ken L. Striif
STATE DESIGN ENGINEER
Washington State Department of Transportation

NOTES

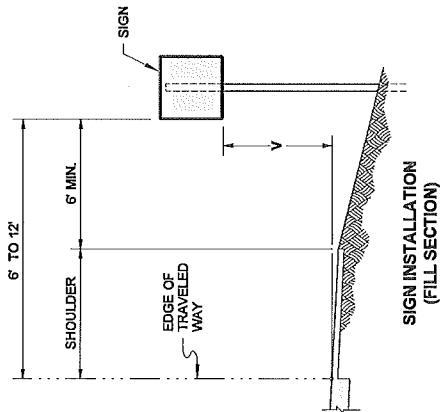
1. For sign installation details, see Std. Plan G - series.
2. In rural areas, the "H" Height can be a minimum of 7 feet for primary signs and 6 feet for the supplemental plaques for greater visibility, as directed by the engineer.
3. The "V" height for signs, with an area of more than 50 square feet and two or more sign supports, is 7 feet in both rural and urban areas.



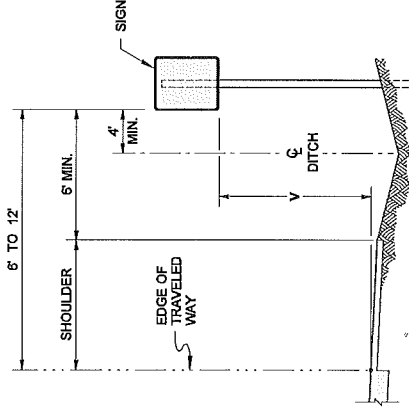
**SIGN INSTALLATION
(SIDEWALK AND CURB SECTION)**



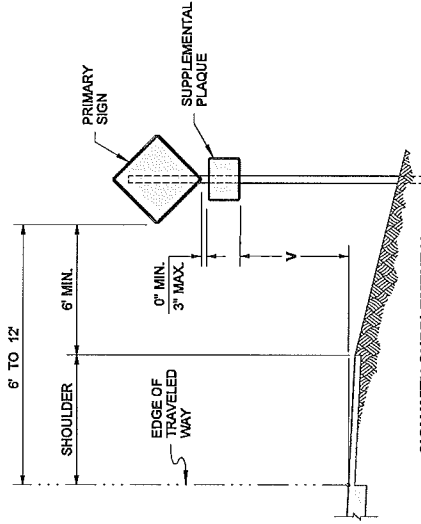
**SIGN INSTALLATION
(CURB SECTION)**



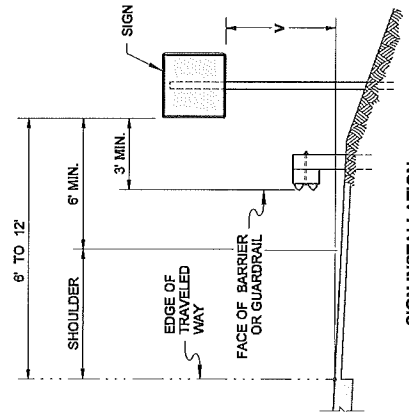
**SIGN INSTALLATION
(FILL SECTION)**



**SIGN INSTALLATION
(DITCH SECTION)**



**SIGN WITH SUPPLEMENTAL
PLAQUE INSTALLATION
(FILL SECTION)**



**SIGN INSTALLATION
(BEHIND TRAFFIC BARRIER)**

	HEIGHT V	TO BOTTOM OF SIGN SUPPLEMENTAL PLAQUE (WHEN REQUIRED)
RURAL	5' MINIMUM	4' MINIMUM
URBAN	7' MINIMUM	6' MINIMUM



EXPIRES AUGUST 9, 2007

**CLASS A
CONSTRUCTION SIGNING
INSTALLATION
STANDARD PLAN K-80.10-00**

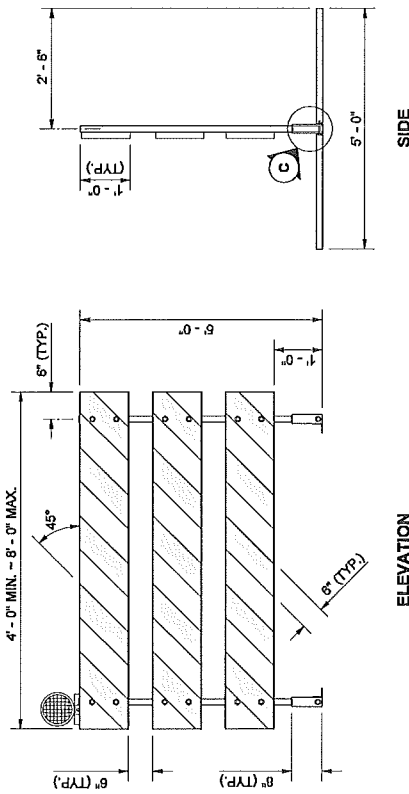
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Ken L. Smith 02-21-07
 STATE DESIGN ENGINEER DATE
 Washington State Department of Transportation

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 THE ENGINEER, AND APPROVED FOR PUBLICATION, IS TO BE
 FILED AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION.
 A COPY MAY BE OBTAINED UPON REQUEST.

NOTES

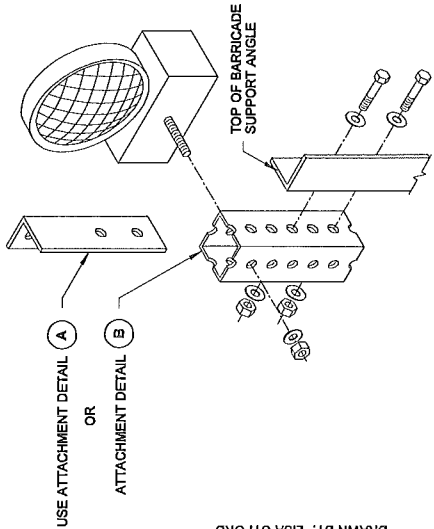
1. All fasteners may be zinc plated, galvanized or stainless steel. All steel angle and tubular steel shall be hot-rolled, high carbon steel, painted or galvanized.
2. Install one lightweight Type A Low-Intensity flashing warning light on the traffic side of the barricade. Install two Type A Low-Intensity flashing warning lights per barricade when the barricades are used to close a roadway. Attach the light to the barricade according to the light manufacturer's recommendations or use the details shown on this plan.
3. Stripes on barricade rails shall be alternating orange and white retroreflective stripes (sloping downward at an angle of 45 degrees in the direction traffic is to pass).
4. The Type 3 barricade design shown on this plan meets the crash test requirements of NCHRP 350. Alternative designs may be approved if they conform to the NCHRP 350 crash test criteria and the MUTCD.
5. When a sign is mounted on the barricade, it shall be securely bolted to at least two plywood panels. The top of the sign shall not be higher than the top panel of the barricade.
6. When sandbags are used in freezing weather, Urea fertilizer shall be mixed with the sand in a quantity to prevent the sand from freezing.



SIDE

ELEVATION

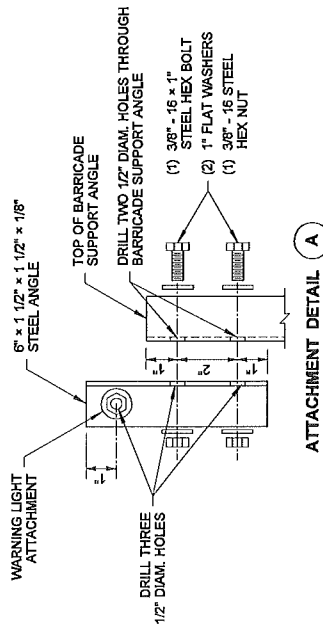
TYPE 3 BARRICADE



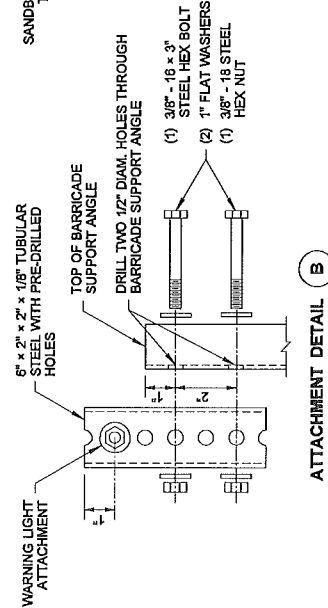
USE ATTACHMENT DETAIL A OR ATTACHMENT DETAIL B

DRAWN BY: LISA CYFORD

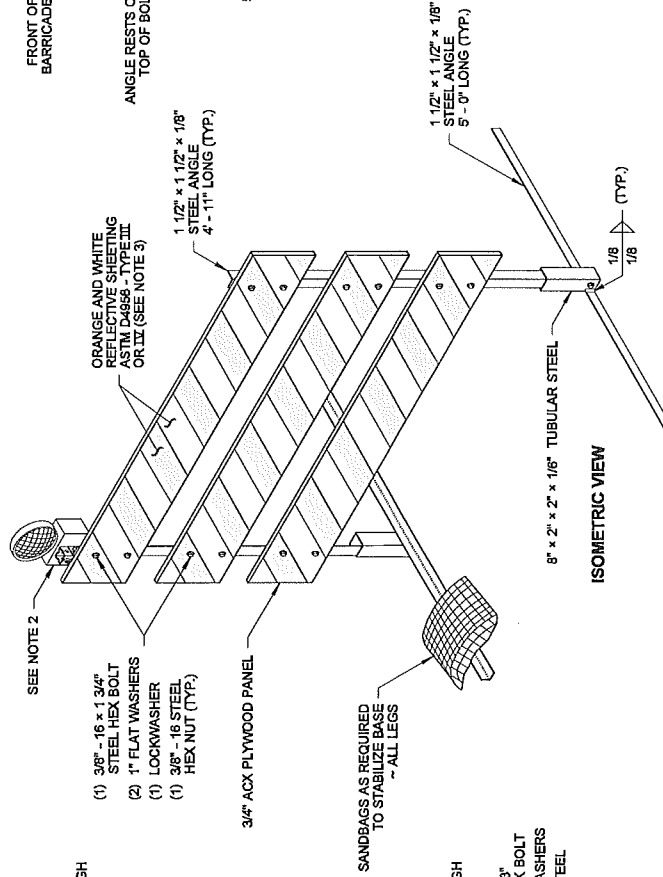
WARNING LIGHT ATTACHMENT DETAIL



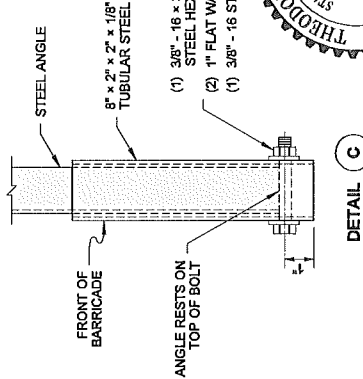
ATTACHMENT DETAIL A



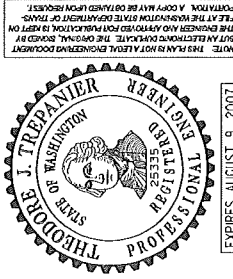
ATTACHMENT DETAIL B



ISOMETRIC VIEW



DETAIL C



EXPIRES AUGUST 9, 2007

TYPE 3 BARRICADE

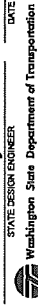
STANDARD PLAN K-80.20-00

SHEET 1 OF 2 SHEETS

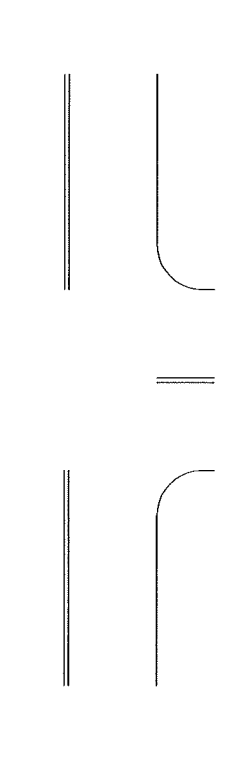
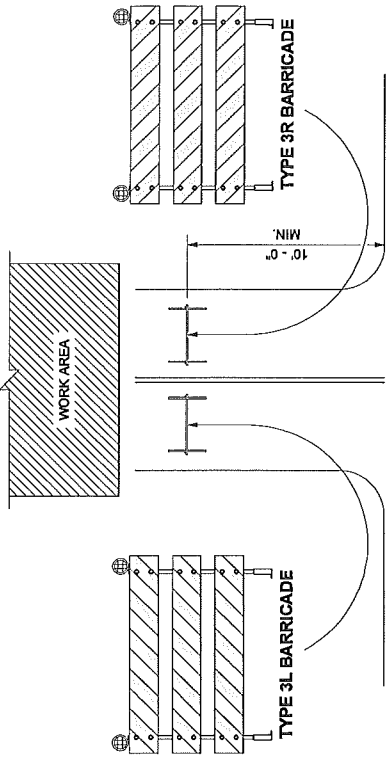
APPROVED FOR PUBLICATION

Kevin J. Dayton
STATE DESIGN ENGINEER

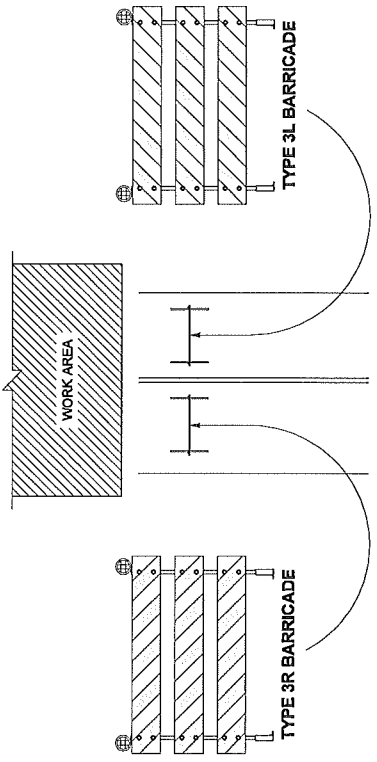
12-20-06
DATE



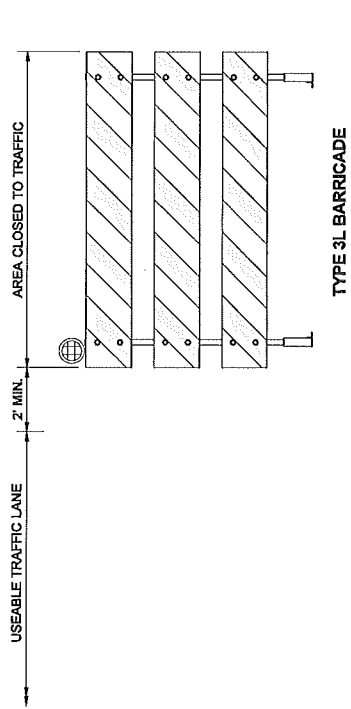
ATTACHMENT DETAIL B



ROAD CLOSURE AT INTERSECTION

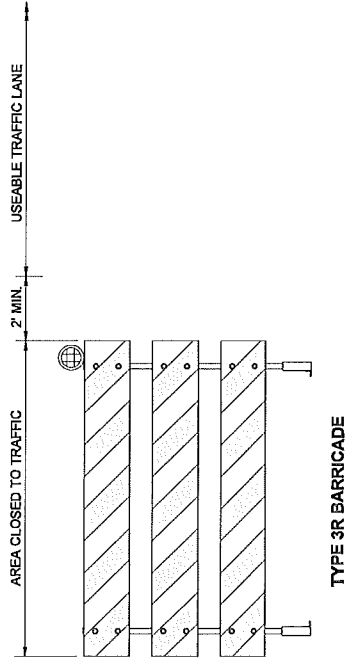


ROAD CLOSURE AT OTHER LOCATIONS



TYPE 3L BARRICADE

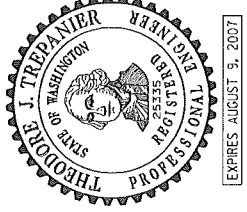
STRIPES ON THE BARRICADES SHALL SLOPE DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS



TYPE 3R BARRICADE

DRAWN BY: LISA CYFORD

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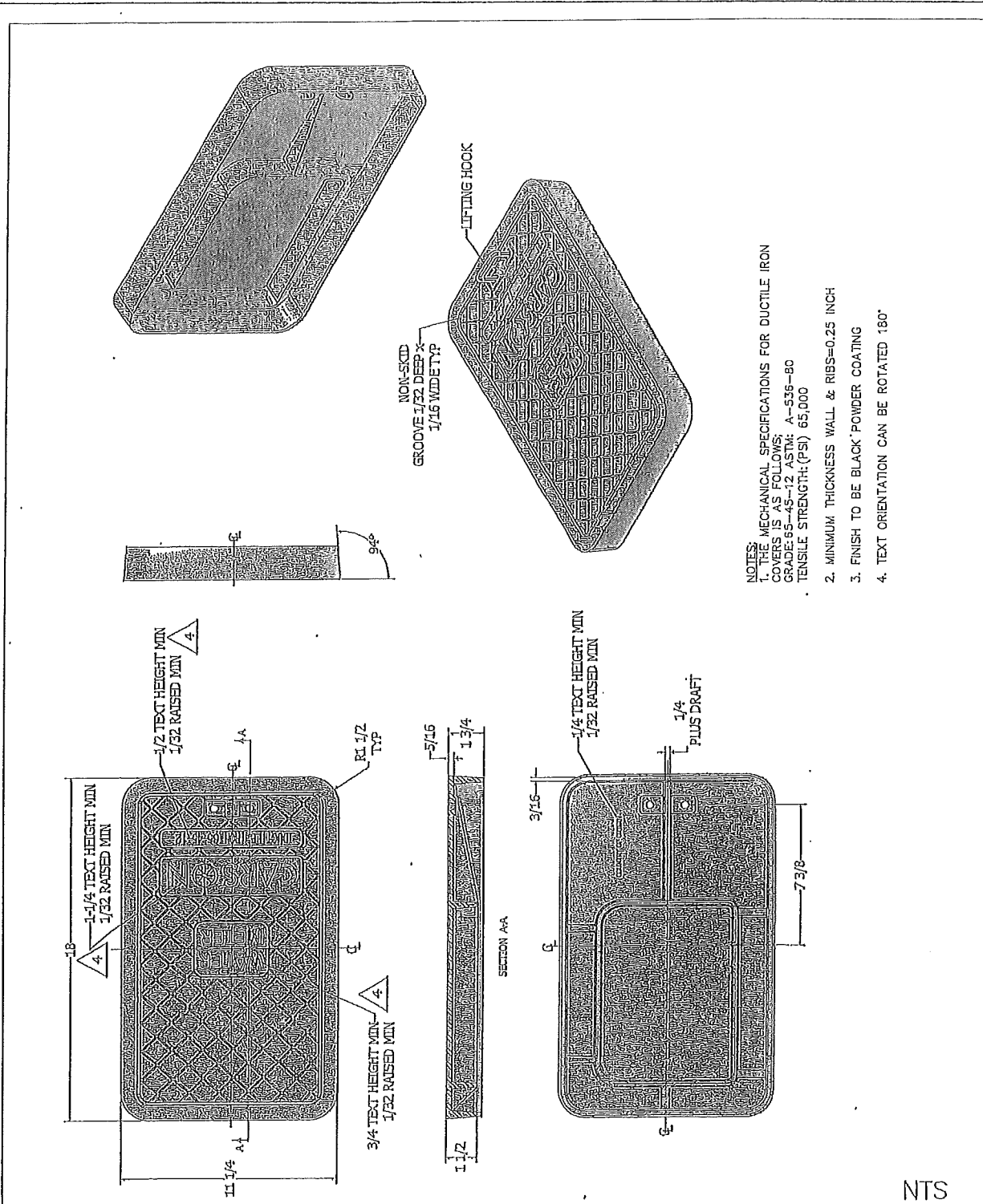
EXPIRES AUGUST 9, 2007

TYPE 3 BARRICADE
STANDARD PLAN K-80-20-00
 SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Kevin J. Dayton DATE 12-20-06
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

BARRICADE PLACEMENT

APPENDIX F
CITY OF FERNDALE STANDARD PLANS
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- NOTES:
1. THE MECHANICAL SPECIFICATIONS FOR DUCTILE IRON COVERS IS AS FOLLOWS: GRADE: 65-45-12 ASTM: A-536-80 TENSILE STRENGTH: (PSI) 65,000
 2. MINIMUM THICKNESS WALL & RIBS=0.25 INCH
 3. FINISH TO BE BLACK POWDER COATING
 4. TEXT ORIENTATION CAN BE ROTATED 180°

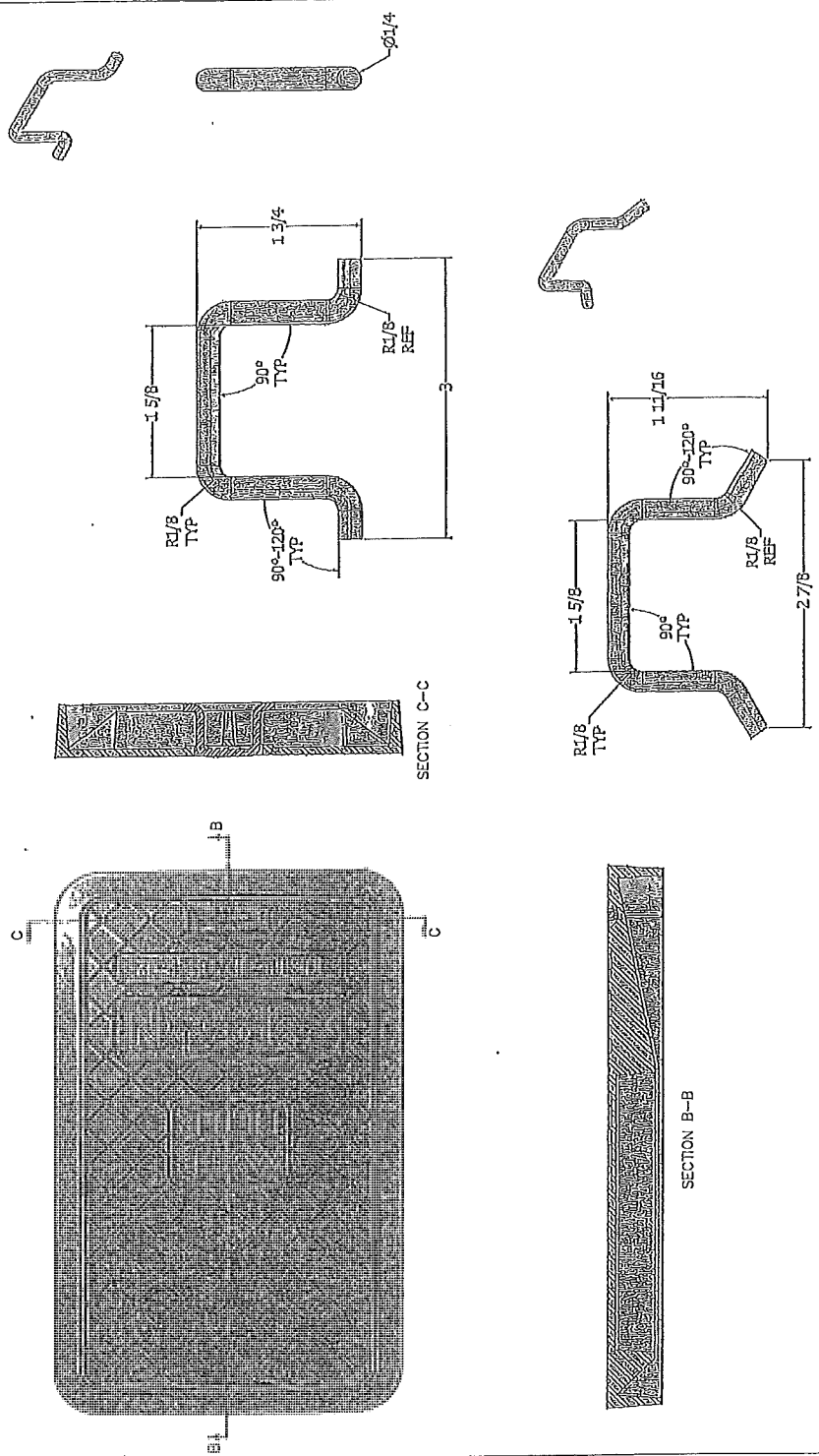
<p>APPROVED</p> <p>Public Works Director _____ Date _____</p>	<p>CITY OF FERNDALE</p> <p>3/4" WATER METER</p> <p>LOCATED IN SIDEWALK</p>	<p>NTS</p> <p>DRAWING</p> <p>W-6.1.1</p>
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R&E Reichhardt & Ebe
ENGINEERING INC

423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

THORNTON STREET
MAUREEN TO VISTA

I:\Projects\11037\dwg\DET.dwg, SPECS, 4/10/2013 11:33:43 AM



<p>APPROVED _____</p> <p>Public Works Director Date</p>	<p>CITY OF FERNDALÉ</p> <p>3/4" WATER METER</p> <p>LOCATED IN SIDEWALK</p>	<p>NTS</p> <p>DRAWING</p> <p>W-6.1.2</p>
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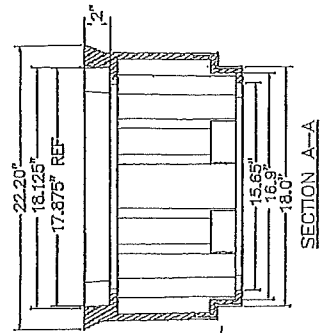
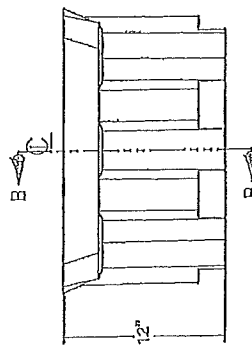
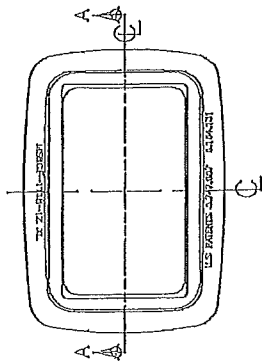
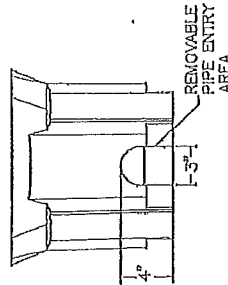
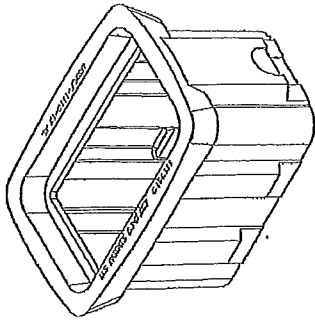
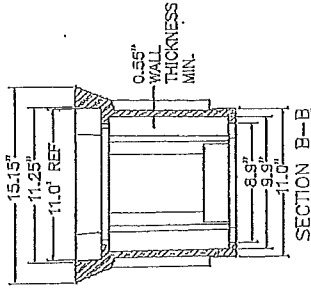
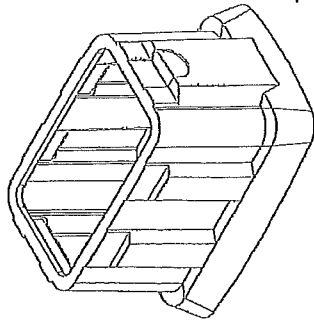
R&E Reichhardt & Ebe
ENGINEERING INC

423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

THORNTON STREET
MAUREEN TO VISTA

4-10-13 NTS 11037 DET

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NTS

APPROVED

Public Works Director

Date

CITY OF FERNDALE
3/4" WATER METER
LOCATED IN SIDEWALK

DRAWING
W-6.1.3



Reichhardt & Ebe
ENGINEERING INC

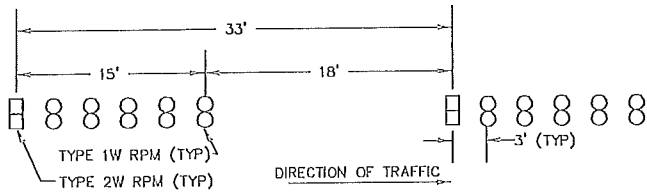
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

THORNTON STREET
MAUREEN TO VISTA

4-10-13

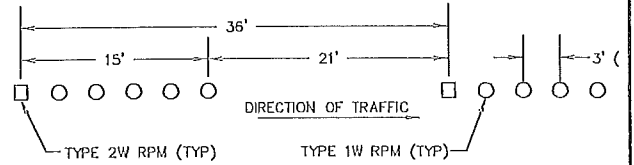
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11037 DET



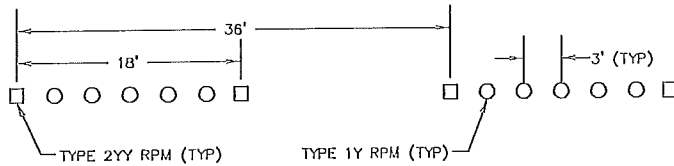
SKIP GORE STRIPE DETAIL

NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
FERNDALE



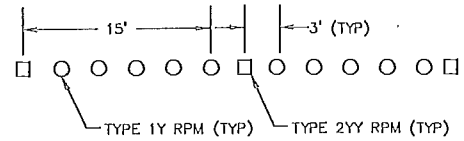
LANE STRIPE DETAIL

NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
FERNDALE



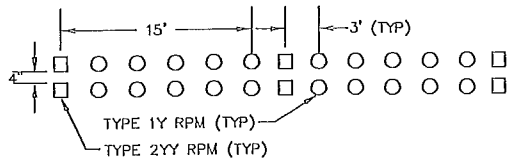
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NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
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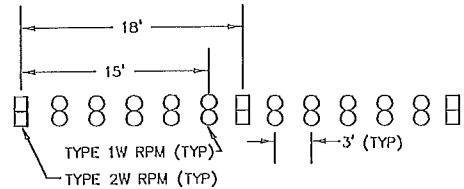
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FERNDALE



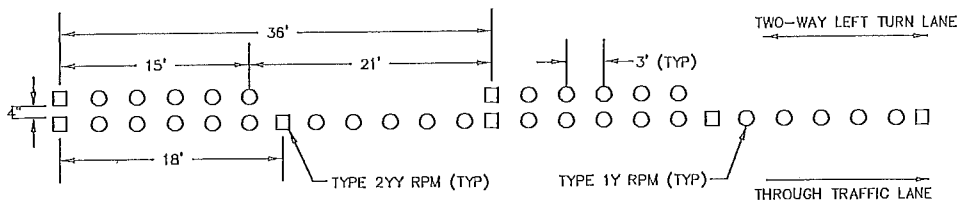
DOUBLE YELLOW STRIPE DETAIL

NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
FERNDALE



GORE STRIPE DETAIL

NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
FERNDALE



TWO-WAY LEFT TURN STRIPE DETAIL

NTS RAISED PAVEMENT MARKER
SUBSTITUTION PER CITY OF
FERNDALE

I:\Projects\11037\dwg\DET.dwg, SPECS, 4/10/2013 11:34:13 AM



Reichhardt & Ebe
ENGINEERING INC

423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

THORNTON STREET
MAUREEN TO VISTA

4-10-13

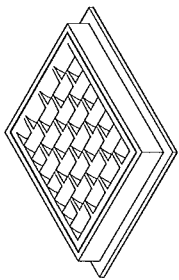
NTS

11037 DET

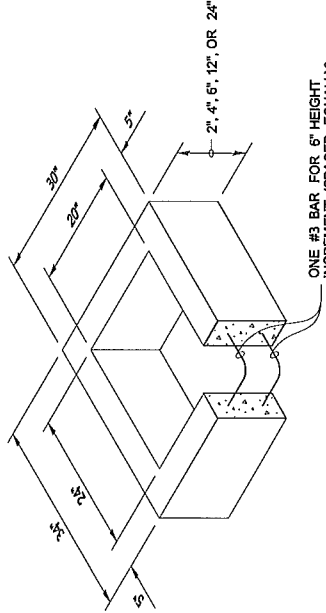
APPENDIX G
WSDOT STANDARD PLANS
(This Page Intentionally Left Blank)

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

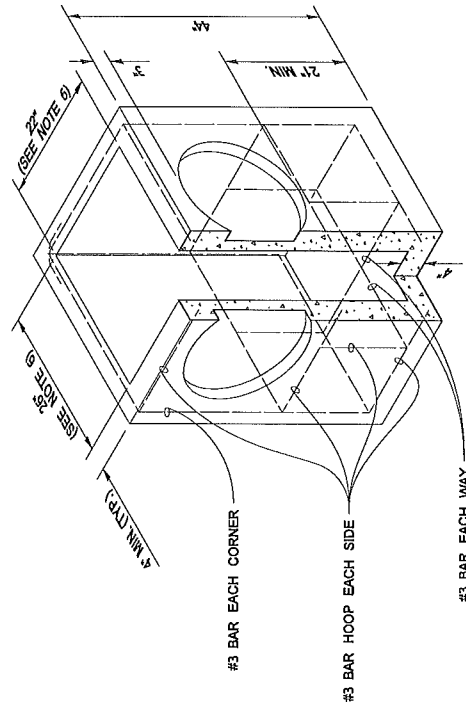
* CORRUGATED POLYETHYLENE STORM SEWER PIPE



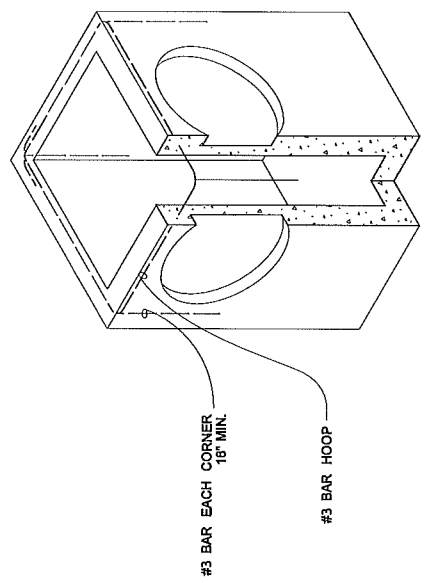
FRAME AND VANED GRATE



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION (SEE NOTE 1)

NOTES

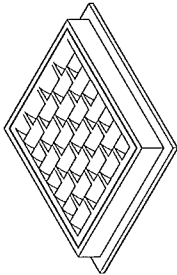
- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.

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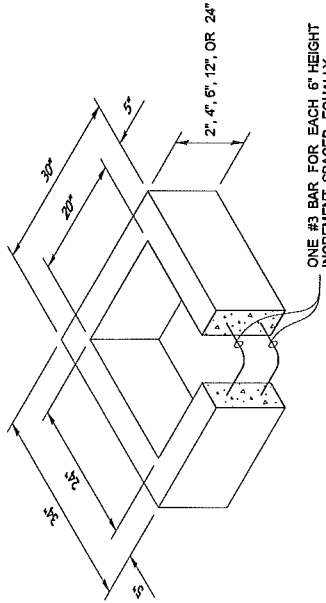


CATCH BASIN TYPE 1
STANDARD PLAN B-5.20-01
SHEET 1 OF 1 SHEET

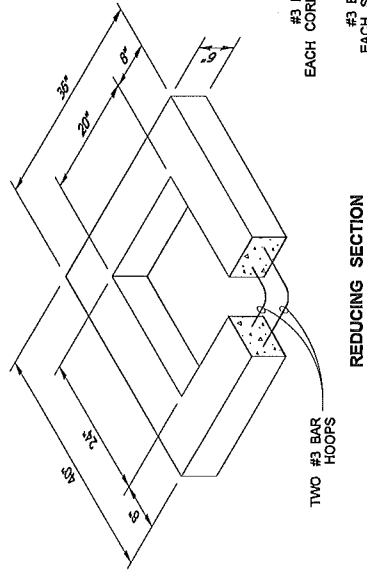
APPROVED FOR PUBLICATION
Pasco Bakofich III 06-16-11
STATE DESIGN ENGINEER DATE
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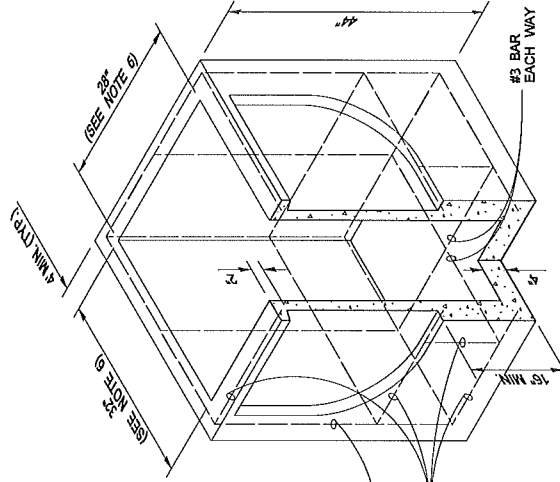
FRAME AND VANED GRATE



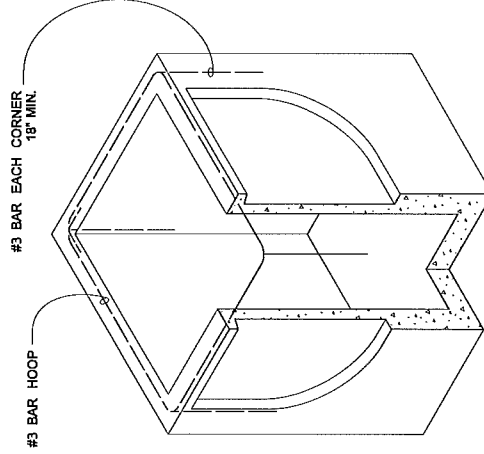
RECTANGULAR ADJUSTMENT SECTION



REDUCING SECTION



PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

NOTES

- As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot, shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
- The knockout shall not be greater than 26", in any direction. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
- The frame and grate may be installed with the flange down or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	18"
ALL METAL PIPE	21"
CPSSP * (STD. SPEC. 9-05.20)	18"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	21"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	21"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE

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CATCH BASIN TYPE 11

STANDARD PLAN B-5-40-01

SHEET 1 OF 1 SHEET

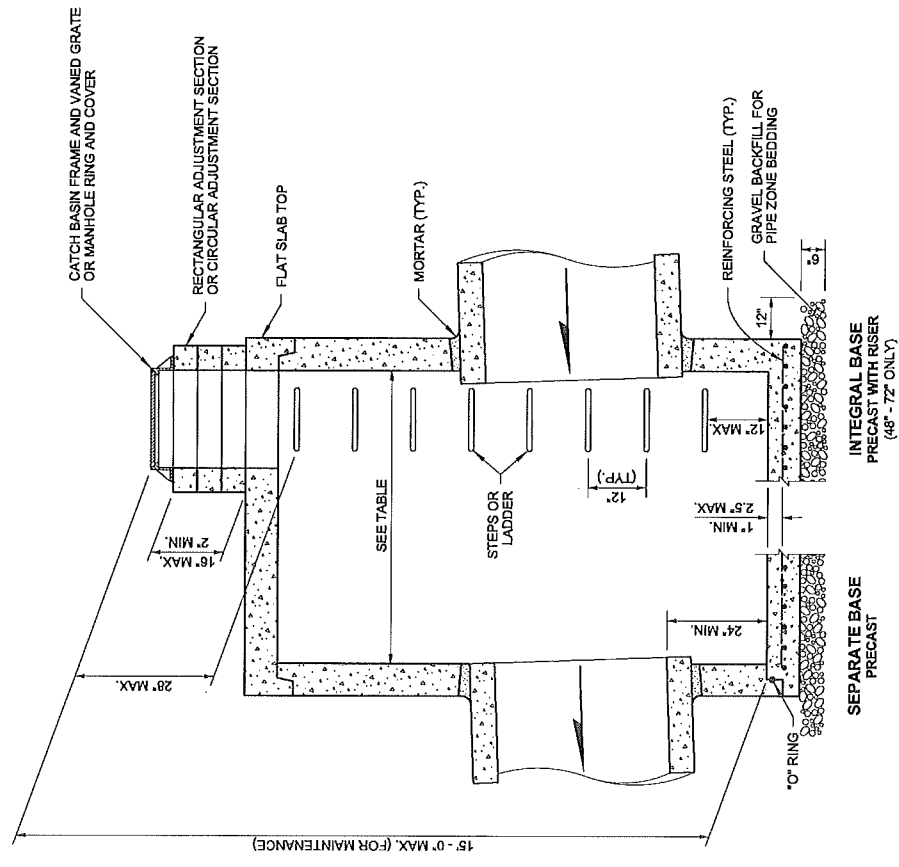
APPROVED FOR PUBLICATION

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(SEE NOTE 1)



NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification 9-04.3**.

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

CATCH BASIN DIAMETER	PIPE ALLOWANCES		
	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER	CONCRETE	ALL METAL
48"	24"	30"	30"
54"	30"	36"	36"
60"	36"	42"	42"
72"	42"	54"	48"
84"	54"	60"	48"
96"	60"	72"	48"
120"	66"	84"	48"
144"	78"	96"	48"

- ① Corrugated Polyethylene Storm Sewer Pipe (Standard Specification 9-05.20)
- ② Standard Specification 9-05.12(1)
- ③ Standard Specification 9-05.12(2)



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CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-01

SHEET 1 OF 1 SHEET

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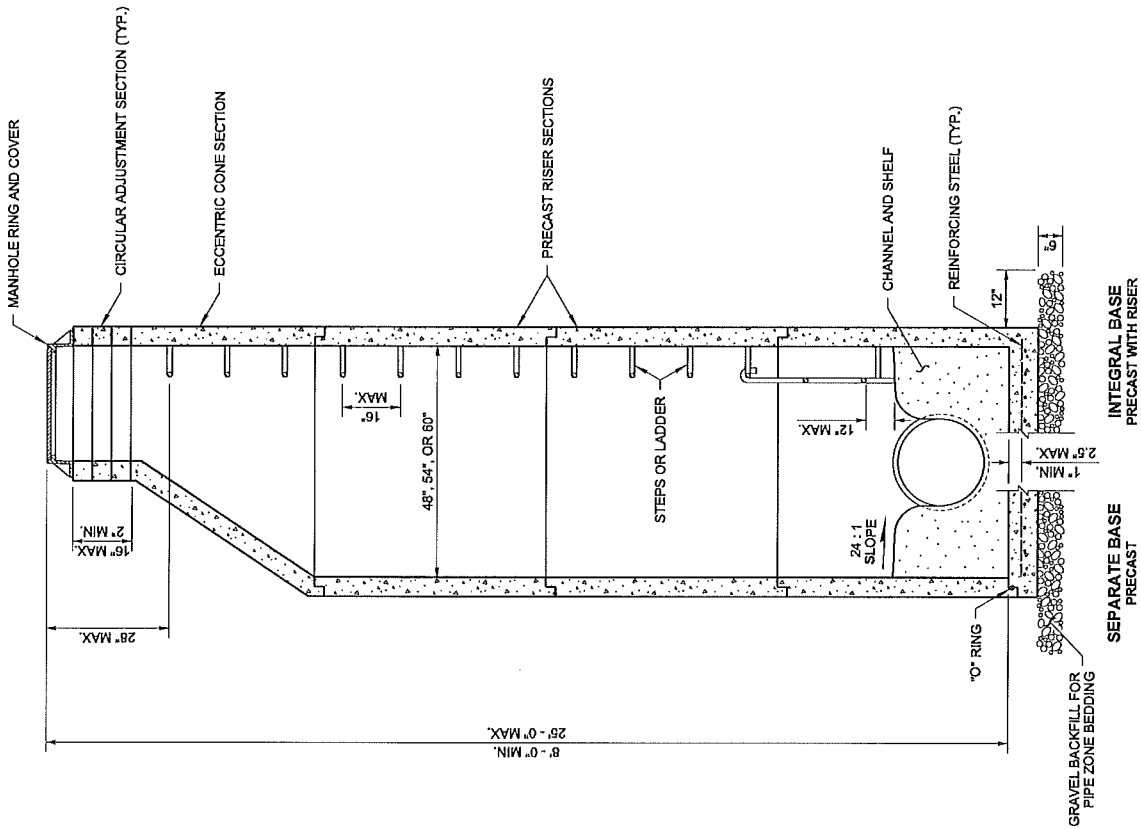
Pasco Bakotich III 02-07-12

STATE DESIGN ENGINEER DATE

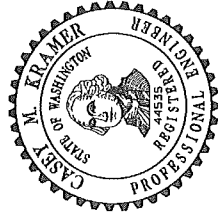
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NOTES

1. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum.
2. For pipe allowances, see Standard Plan B-10-20.



MANHOLE DIMENSION TABLE				
DIAM.	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"



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MANHOLE TYPE 1
STANDARD PLAN B-15-20-01

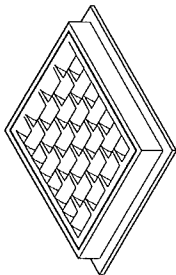
SHEET 1 OF 1 SHEET
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Pasco Bakotich III STATE DESIGN ENGINEER DATE **02-07-12**
 Washington State Department of Transportation

NOTES

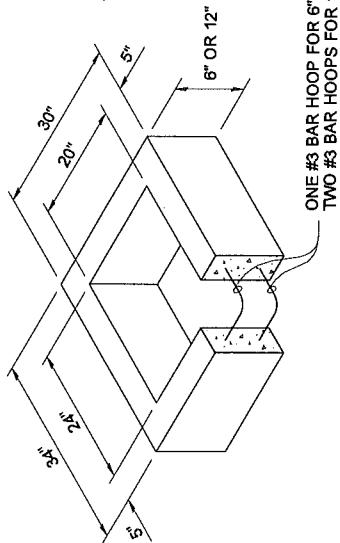
1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 18". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the precast base section.
7. All pickup holes shall be grouted full after the inlet has been placed.

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

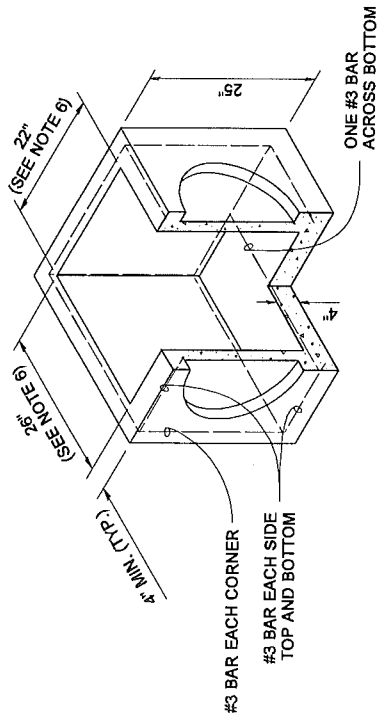
* CORRUGATED POLYETHYLENE STORM SEWER PIPE



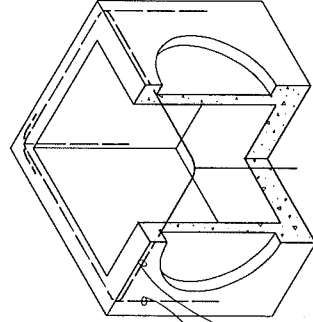
FRAME AND VANED GRATE



RECTANGULAR ADJUSTMENT SECTION

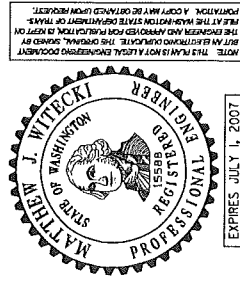


PRECAST BASE SECTION



SEE NOTE 1

ALTERNATIVE PRECAST BASE SECTION



EXPIRES JULY 1, 2007

CONCRETE INLET

STANDARD PLAN B-25.60-00

SHEET 1 OF 1 SHEET

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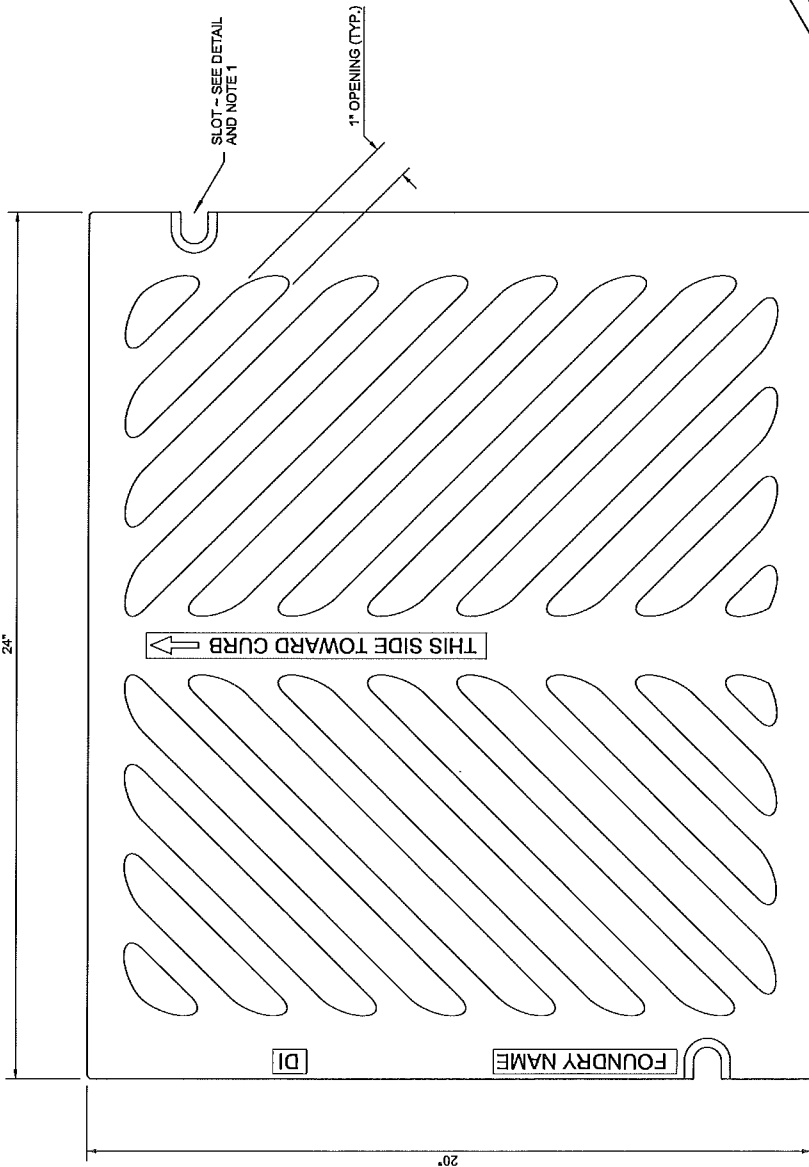
Harold J. Peterfeso 06-01-06

STATE DESIGN ENGINEER DATE

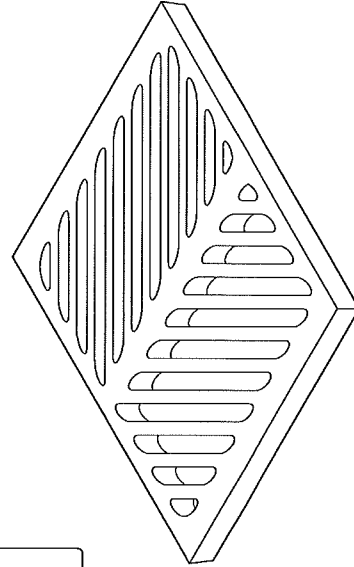
Washington State Department of Transportation

NOTES

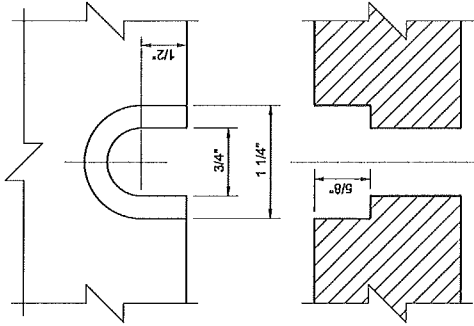
1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8" - 11 NC x 2" Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
2. Refer to **Standard Specification 9-05.15(2)** for additional requirements.
3. For frame details, see **Standard Plan B-30.10**.
4. The thickness of the grate shall not exceed 1 5/8".



TOP



ISOMETRIC



BOLT-DOWN SLOT DETAIL
SEE NOTE 1



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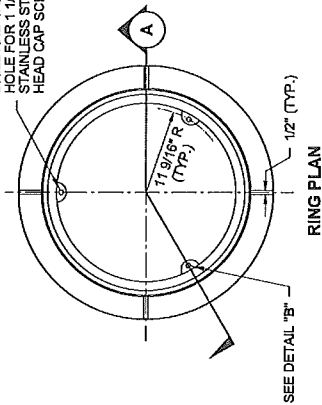
**RECTANGULAR
 HERRINGBONE GRATE
 STANDARD PLAN B-30.50-01**

SHEET 1 OF 1 SHEET

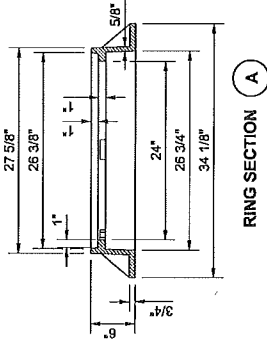
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Pasco Bakofich III 04/26/12
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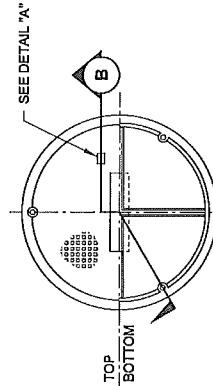
DRILL AND TAP 5/8" -11NC HOLE FOR 1 1/2" x 5/8" STAINLESS STEEL SOCKET HEAD CAP SCREW (TYP.)



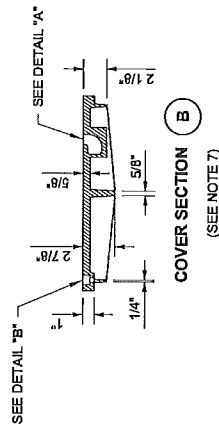
RING PLAN



RING SECTION A



COVER PLAN

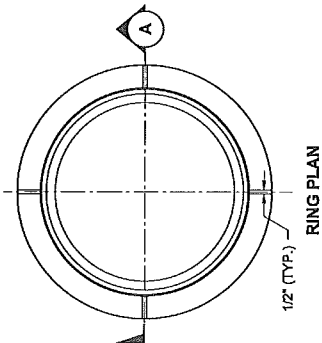


COVER SECTION B

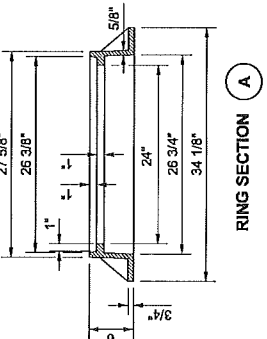
(SEE NOTE 7)

BOLT-DOWN / WATERTIGHT

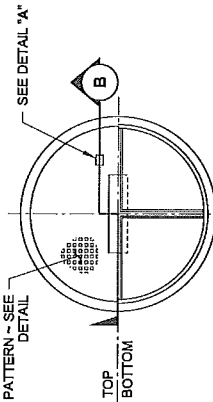
TYPE 2



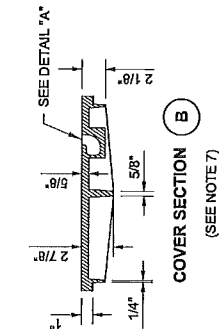
RING PLAN



RING SECTION A



COVER PLAN



COVER SECTION B

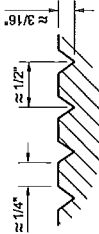
(SEE NOTE 7)

STANDARD

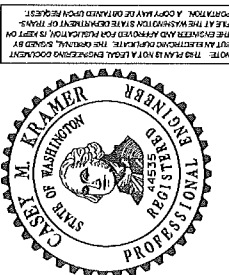
TYPE 1

NOTES

1. The gasket and groove may be in the seat (frame) or in the underside of the cover. The gasket may be "T" shaped in section. The groove may be cast or machined.
2. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 3 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8" - 11 NC x 2" Allen head cap screw by being tapped, or other approved mechanism. Location of bolt down holes varies by manufacturer.
3. For bolt-down manhole ring and covers that are not designated "Watertight," the neoprene gasket, groove, and washer are not required.
4. Washer shall be neoprene (Detail "B").
5. In lieu of blind pick notch for manhole covers, a single 1" pick hole is acceptable. Hole location and number of holes may vary by manufacturer.
6. Alternative reinforcing designs are acceptable in lieu of the rib design.
7. For clarity, the vertical scale of the Cover Section has been exaggerated, it is 1.5 times the horizontal scale (1H:1.5V).



SKID GROOVE PATTERN DETAIL



CIRCULAR FRAME (RING) AND COVER

STANDARD PLAN B-30.70-03

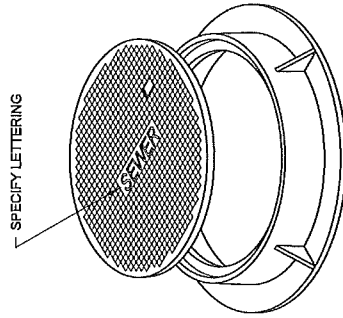
SHEET 1 OF 1 SHEET

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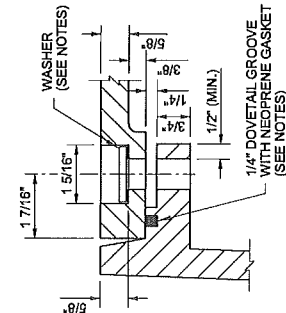
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ISOMETRIC VIEW

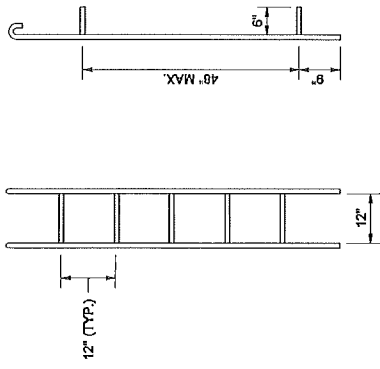


DETAIL "B"

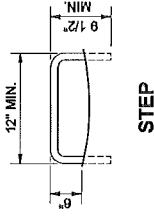
BOLT-DOWN / WATERTIGHT

NOTE

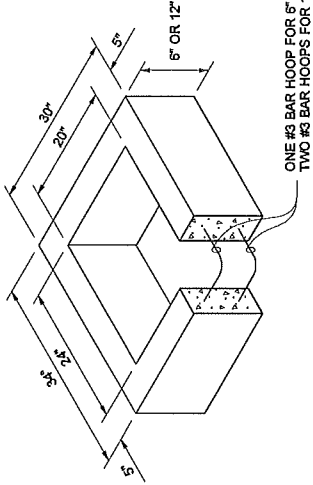
Ladder rungs for manholes and catch basins shall meet the requirements of AASHTO M 199.



PREFABRICATED LADDER

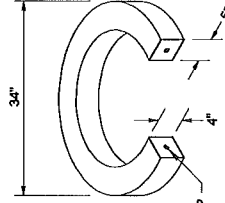


STEP

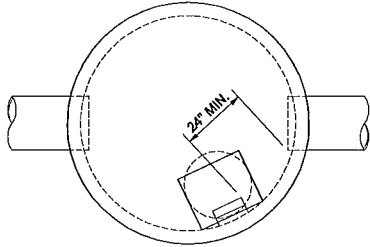


RECTANGULAR ADJUSTMENT SECTION

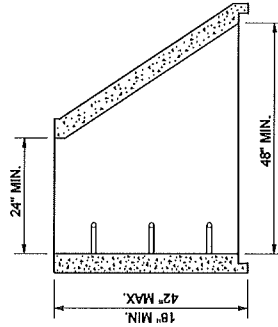
As an acceptable alternative to rebar, wire mesh having a minimum area of 0.12 square inches per foot may be used for adjustment sections.



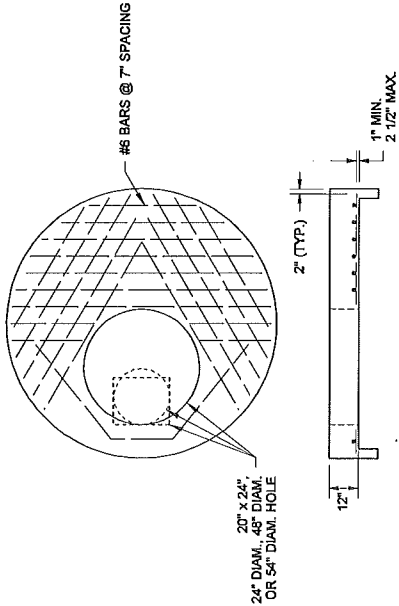
CIRCULAR ADJUSTMENT SECTION



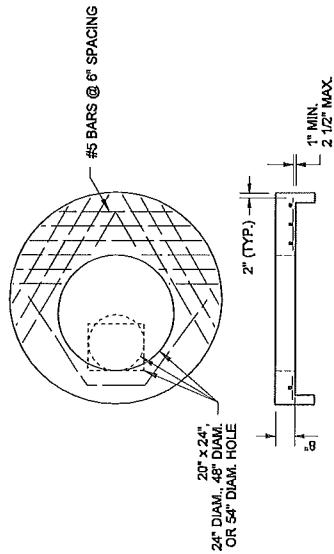
TYPICAL ORIENTATION FOR ACCESS AND STEPS



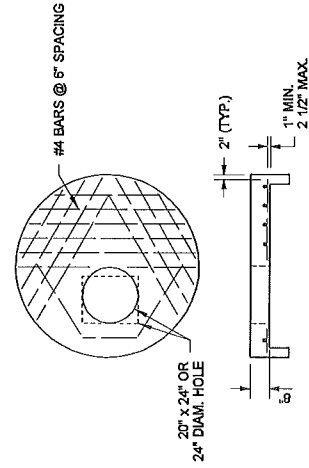
ECCENTRIC CONE SECTION



84" or 96" FLAT SLAB TOP



72" FLAT SLAB TOP



48", 54", or 60" FLAT SLAB TOP



EXPIRES JULY 1, 2009

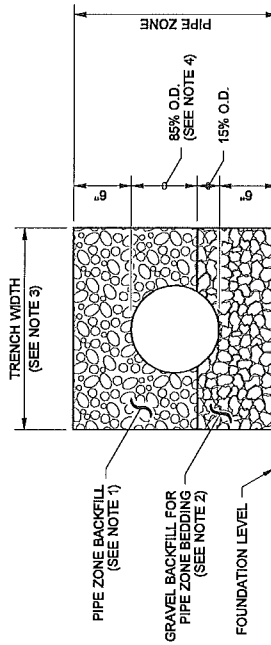
MISCELLANEOUS DETAILS FOR DRAINAGE STRUCTURES STANDARD PLAN B-30.90-01

SHEET 1 OF 1 SHEET
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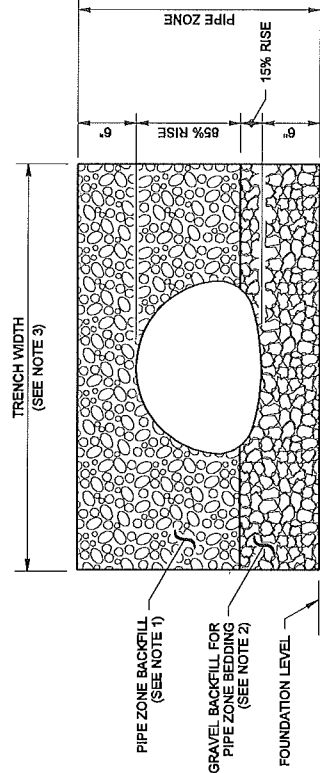
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NOTES

1. See Standard Specifications Section 7-08.3(3) for Pipe Zone Backfill.
2. See Standard Specifications Section 9-03.12(3) for Gravel Backfill for Pipe Zone Bedding.
3. See Standard Specifications Section 2-08.4 for Measurement of Trench Width.
4. For sanitary sewer installation, concrete pipe shall be bedded to spring line.

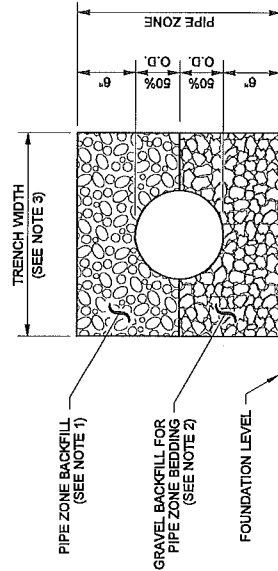


CONCRETE AND DUCTILE IRON PIPE



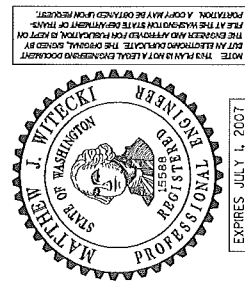
PIPE ARCHES

THERMOPLASTIC PIPE



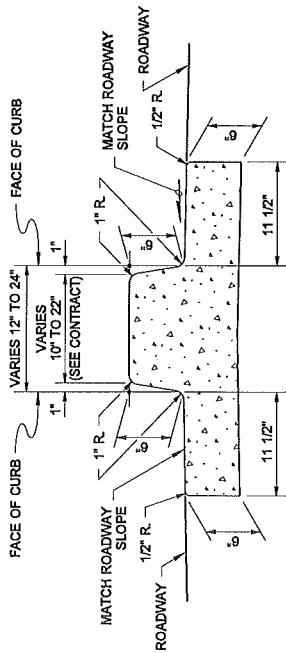
METAL PIPE

CLEARANCE BETWEEN PIPES FOR MULTIPLE INSTALLATIONS		MINIMUM DISTANCE BETWEEN BARRELS
PIPE	SIZE	
CIRCULAR PIPE (DIAMETER)	12" to 24"	12"
	30" to 96"	DIAM. / 2
	102" to 180"	48"
PIPE ARCH (SPAN) METAL ONLY	18" to 36"	12"
	43" to 142"	SPAN / 3
	148" to 200"	48"

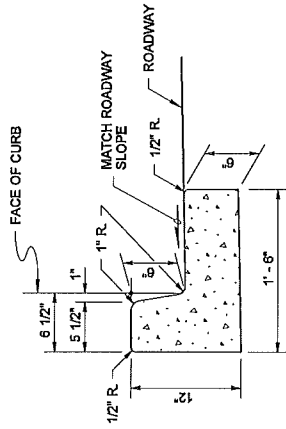


PIPE ZONE BEDDING AND BACKFILL
STANDARD PLAN B-55.20-00
 SHEET 1 OF 1 SHEET

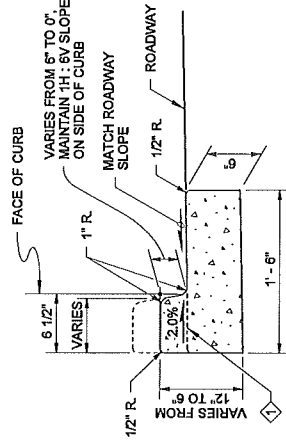
APPROVED FOR PUBLICATION
 Harold J. Peterfeso 06-01-06 DATE
 STATE ENGINEER
 Washington State Department of Transportation



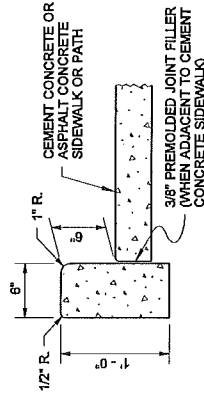
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



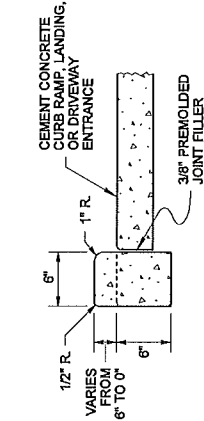
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



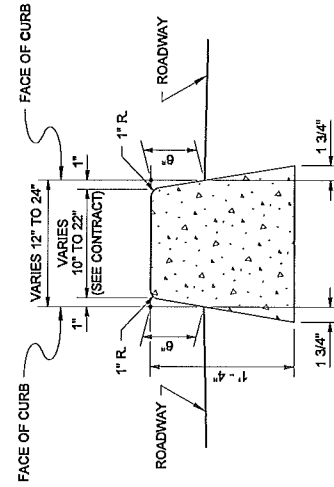
DEPRESSED CURB SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



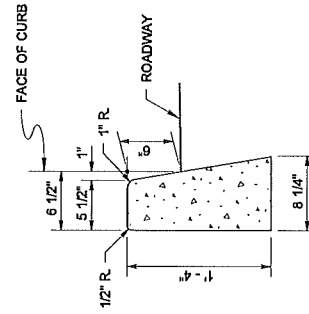
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES



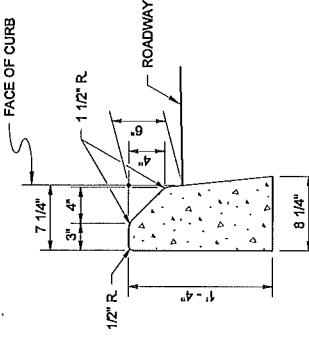
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB

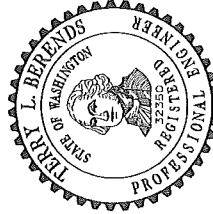


CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

DRAWN BY: FERN LIDDELL



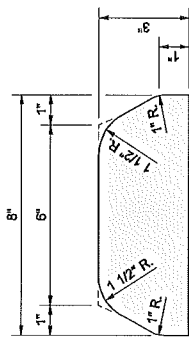
**CEMENT CONCRETE CURBS
STANDARD PLAN F-10.12-02**

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 06-16-11
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

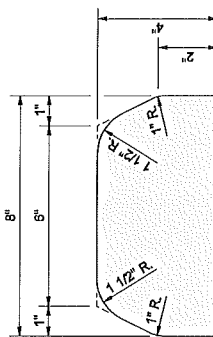
NOTE

1. See Standard Plan F-30.10 for Curb Expansion and Contraction Joint Spacing.

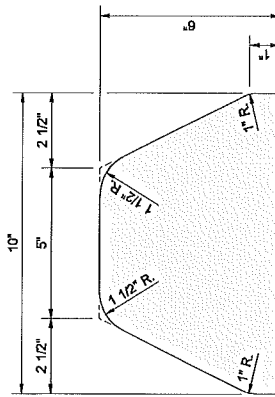
FLUSH WITH GUTTER PAN AT CURB RAMP ENTRANCE - 1/2" VERTICAL LIP AT DRIVEWAY ENTRANCE



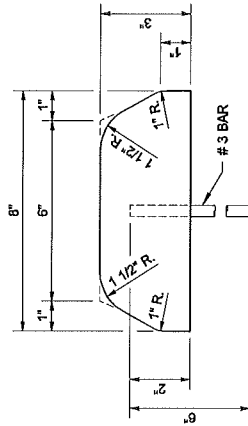
TYPE 1
(HOT MIX ASPHALT)



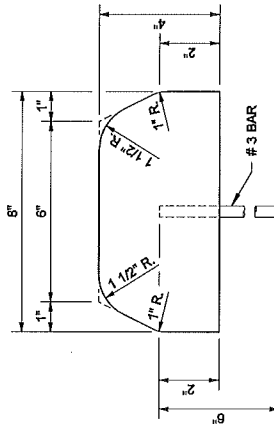
TYPE 2
(HOT MIX ASPHALT)



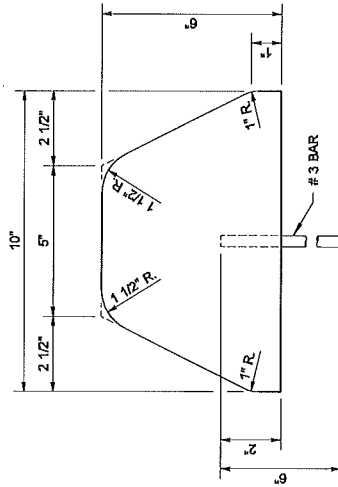
TYPE 3
(HOT MIX ASPHALT)



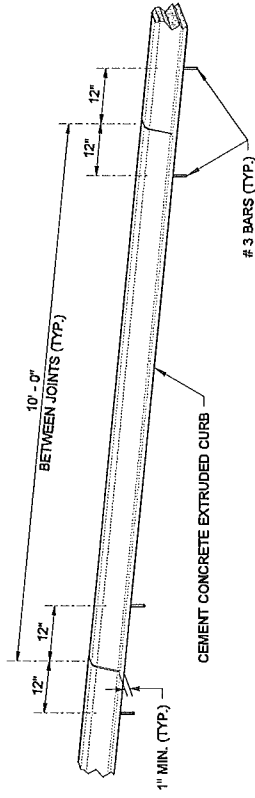
TYPE 4
(CEMENT CONCRETE)



TYPE 5
(CEMENT CONCRETE)



TYPE 6
(CEMENT CONCRETE)



SPACING OF ANCHOR BARS
(FOR TYPES 4, 5, AND 6)

NOTE
JOINTS MAY BE FORMED DURING INSTALLATION USING A RIGID DIVIDER OR SAWCUT AFTER CONCRETE CURES TO MINIMUM STRENGTH.



EXPIRES AUGUST 26, 2007

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EXTRUDED CURE

STANDARD PLAN F-10.42-00

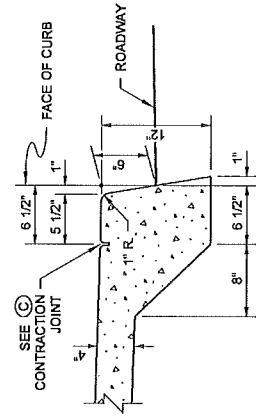
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Ken L. Smith 01-23-07
STATE DESIGN ENGINEER DATE

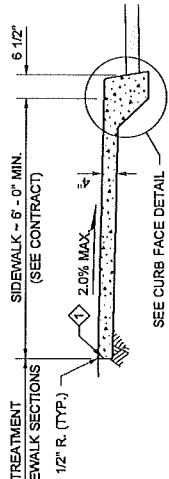
Washington State Department of Transportation





CURB FACE DETAIL

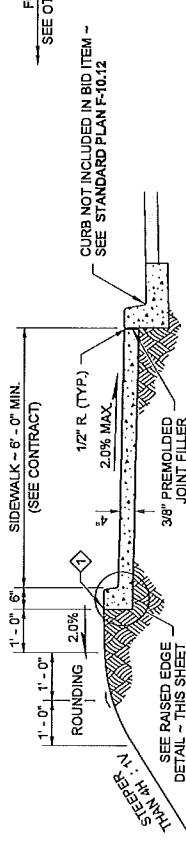
EXTEND SIDEWALK TRANSVERSE EXPANSION JOINTS TO INCLUDE CURB (FULL DEPTH)



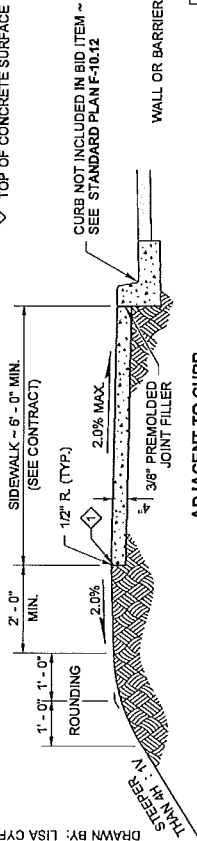
MONOLITHIC CEMENT CONCRETE CURB AND SIDEWALK

NOTE

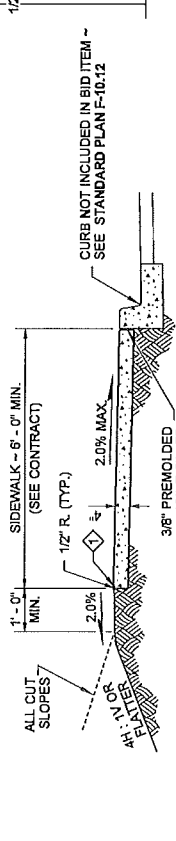
1. Four feet of the sidewalk width shall be the minimum pedestrian accessible route free of vertical and horizontal obstructions. Gratings, Access Covers, Junction Boxes, Cable Vaults, Pull Boxes and other appurtenances within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.



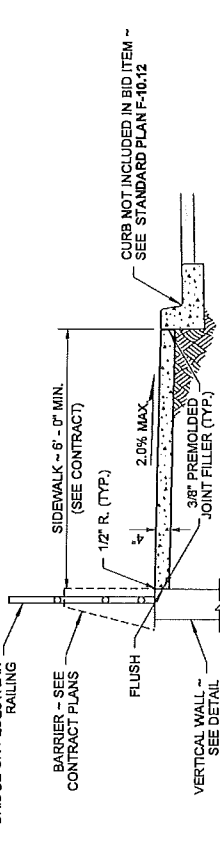
WITH RAISED EDGE



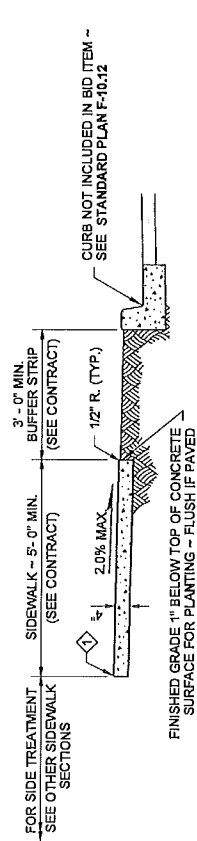
ADJACENT TO CURB (STEEP FILL SLOPES)



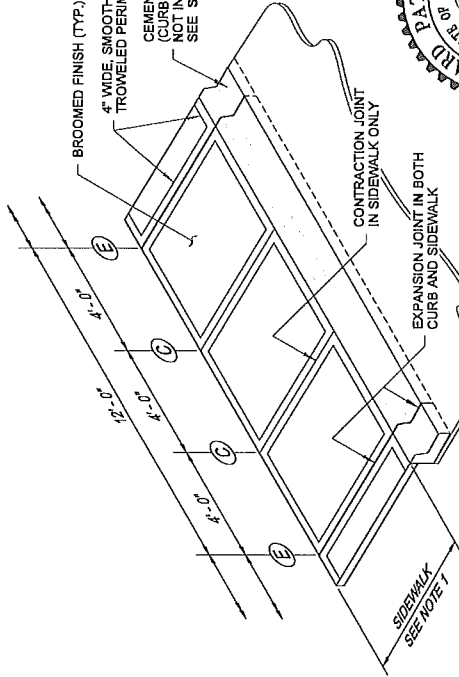
ADJACENT TO CURB



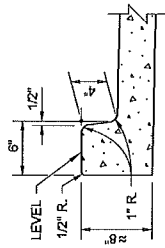
ADJACENT TO CURB AND RAILING OR WALL



ADJACENT TO BUFFER STRIP

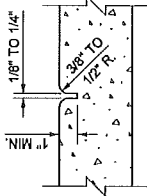


ISOMETRIC VIEW JOINT AND FINISH DETAIL

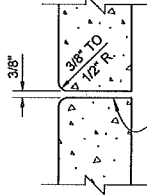


RAISED EDGE DETAIL

EXTEND SIDEWALK TRANSVERSE JOINTS TO INCLUDE RAISED EDGE



(C) CONTRACTION JOINT



(E) EXPANSION JOINT

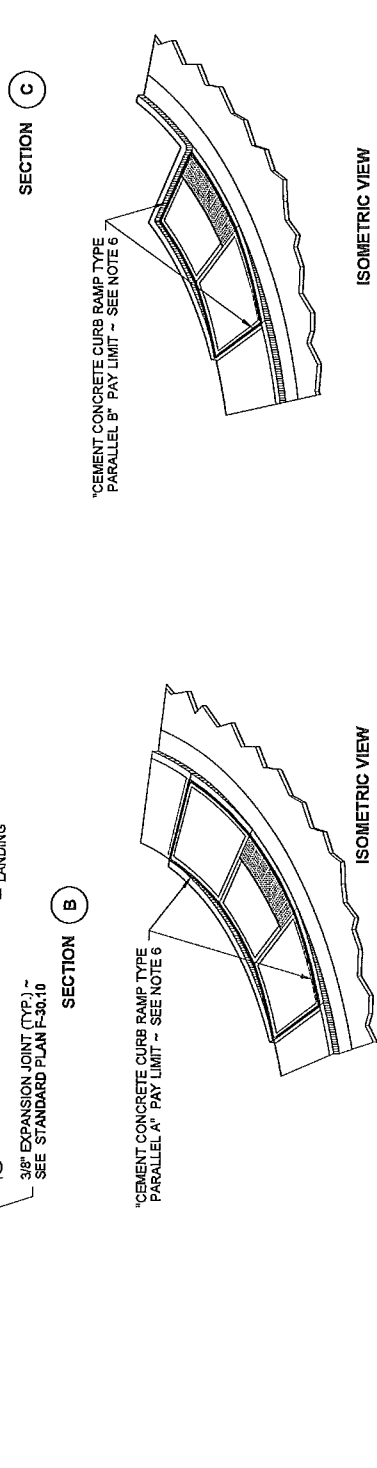
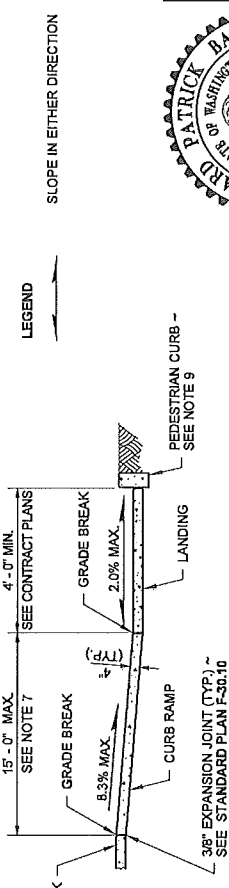
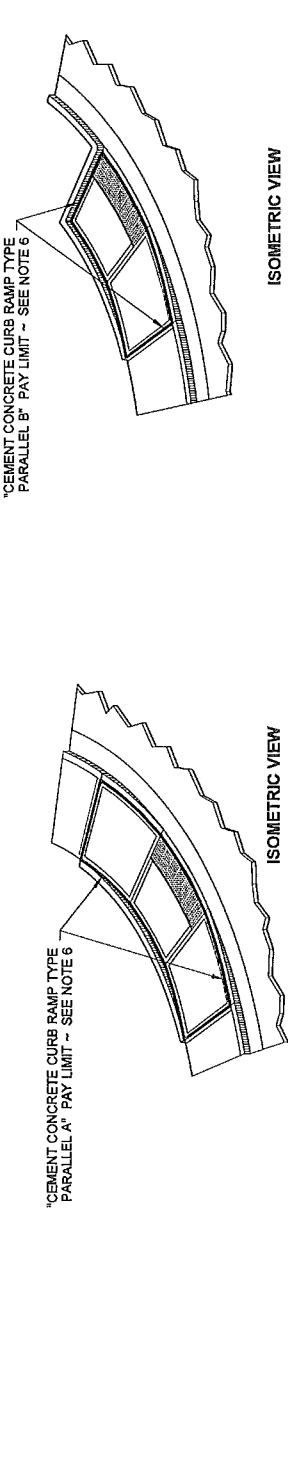
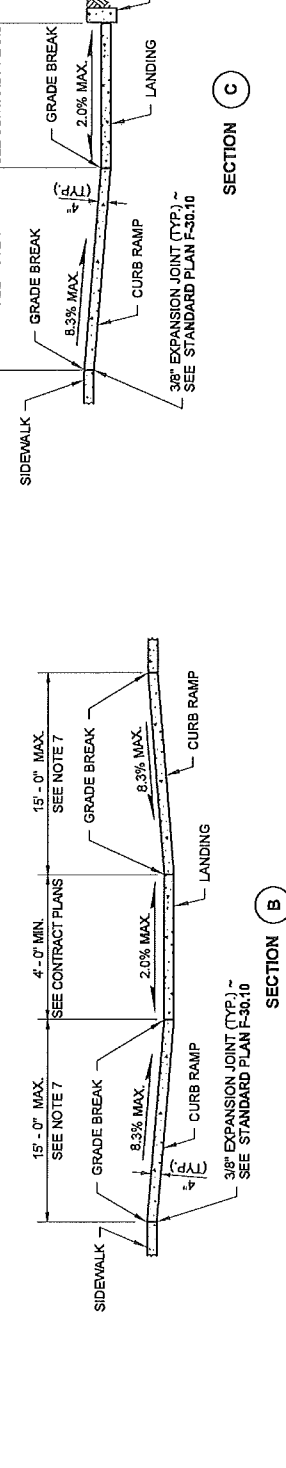
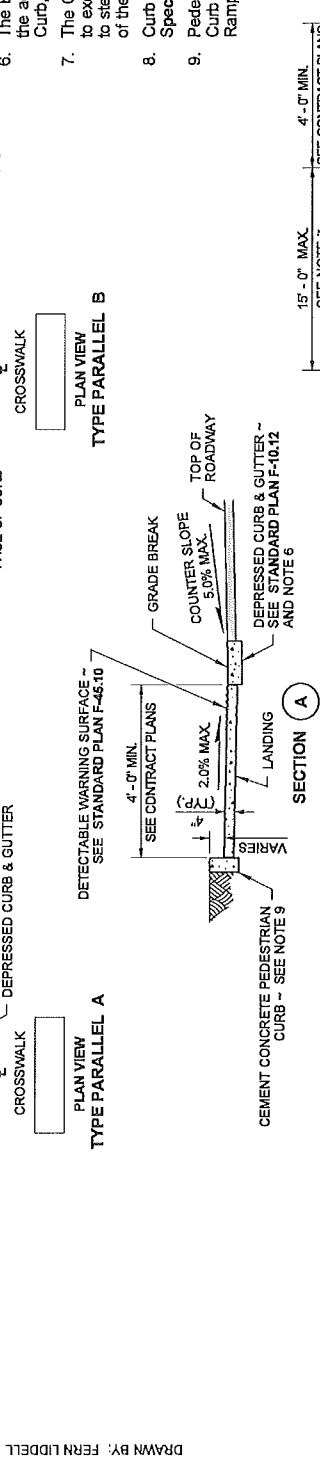
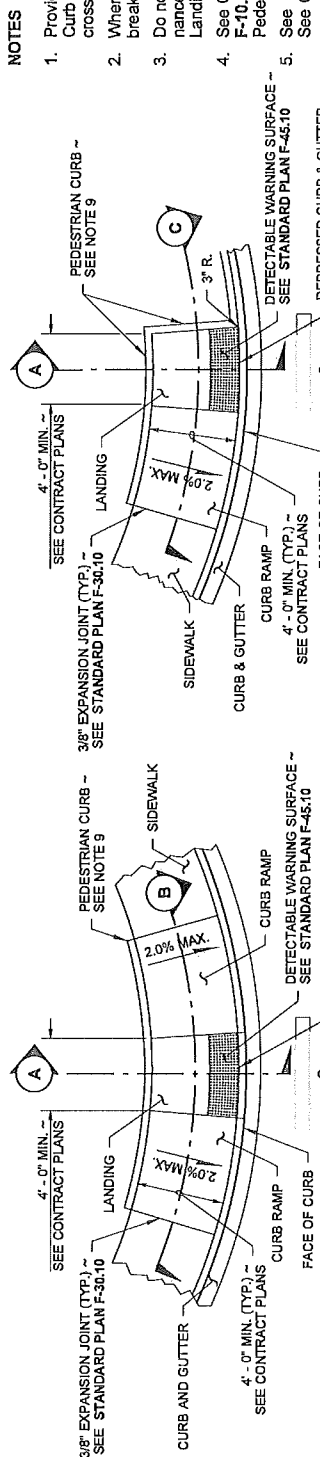


CEMENT CONCRETE SIDEWALK
STANDARD PLAN F-30.10-02

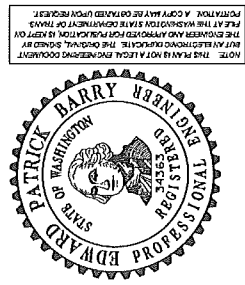
SHEET 1 OF 1 SHEET
 APPROVED FOR PUBLICATION
Pasco Bakotich III
 STATE DESIGN ENGINEER
 DATE **6/20/13**
 Washington State Department of Transportation

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DRAWN BY: LISA CYFORD



- NOTES**
1. Provide a separate Curb Ramp for each marked or unmarked crosswalk. Curb Ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.
 2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
 3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances in front of the Curb Ramp or on any part of the Curb Ramp or Landing.
 4. See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
 5. See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
 6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
 7. The Curb Ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades. When applying the 15-foot max. length, the running slope of the curb ramp shall be as flat as feasible.
 8. Curb Ramp, Landing, and Flares shall receive broom finish. See Standard Specifications 8-14.
 9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.



PARALLEL CURB RAMP

STANDARD PLAN F-40.12-02

SHEET 1 OF 1 SHEET

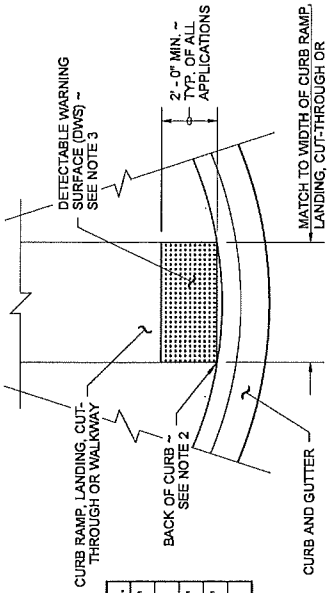
APPROVED FOR PUBLICATION

Pasco Bakofich III
STATE DESIGN ENGINEER

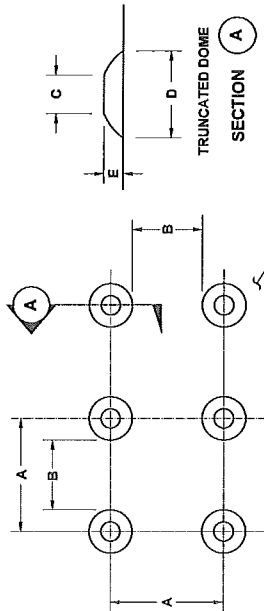
DATE: 6/20/13

Washington State Department of Transportation

- NOTES**
- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp (exclusive of flares) or the landing.
 - The Detectable Warning Surface shall be placed at the back of curb, and need not follow the radius.
 - The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
 - The rows of truncated domes shall be aligned to be parallel to the direction of travel.
 - If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
 - See **Standard Plans** for sidewalk and curb ramp details.
 - If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
 - When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp.

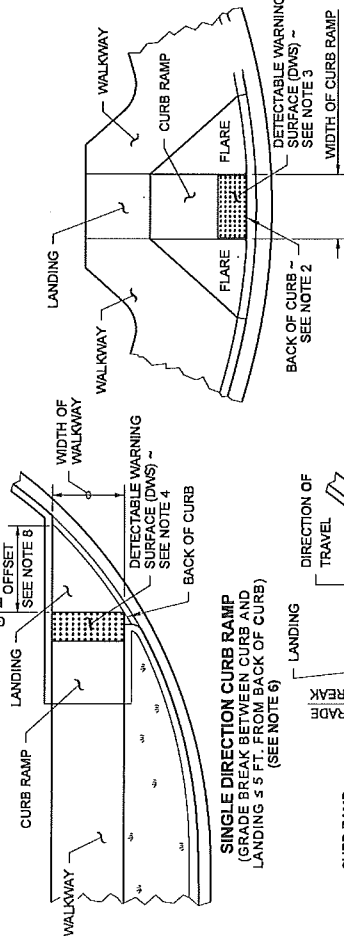


	MIN.	MAX.
A	1.80"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

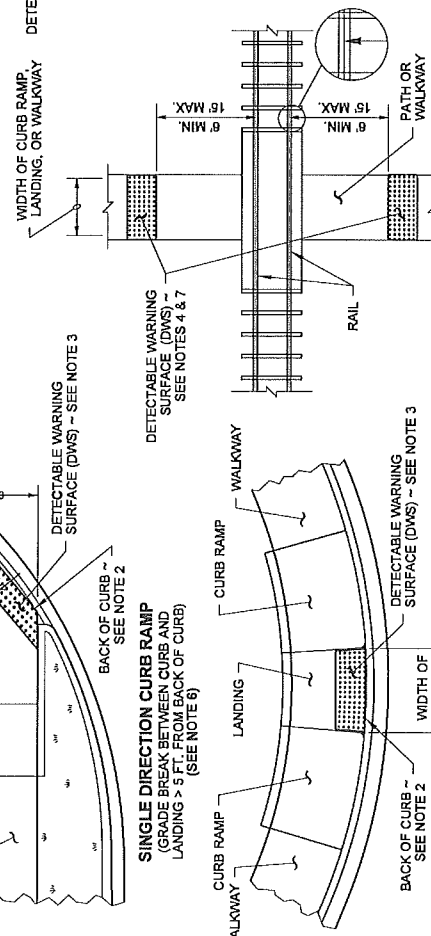


TRUNCATED DOME DETAILS

DETECTABLE WARNING SURFACE DETAIL

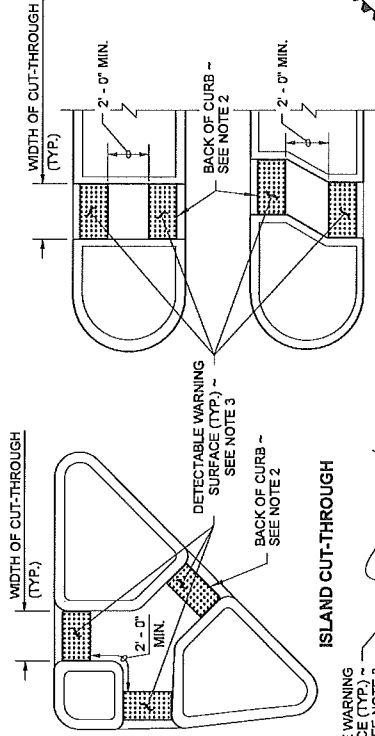


PERPENDICULAR CURB RAMP
(SEE NOTE 6)

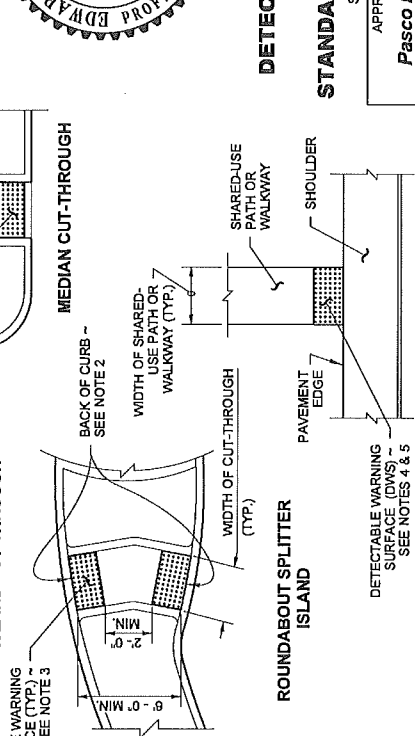


PEDESTRIAN RAILROAD CROSSING

SHARED-USE PATH CONNECTION



ISLAND CUT-THROUGH

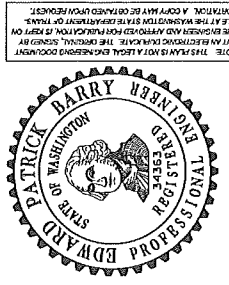


ROUNDABOUT SPLITTER ISLAND

PLACEMENT GUIDELINES

PARALLEL CURB RAMP
(SEE NOTE 6)

SHARED-USE PATH CONNECTION

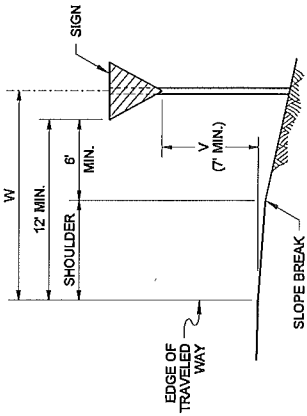


DETECTABLE WARNING SURFACE
STANDARD PLAN F-45.10-01
SHEET 1 OF 1 SHEET

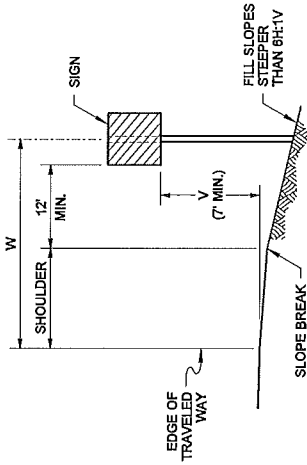
APPROVED FOR PUBLICATION
Pasco Bakofich III 06/21/12
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

NOTES

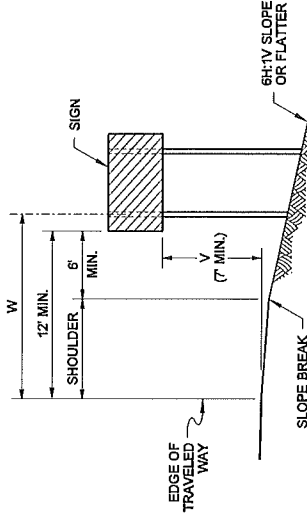
1. Refer to the Sign Specification Sheet of the Contract for the "V" and "W" distances.
2. The minimum vertical distance from the bottom of the sign to the ground shall not be less than 7' for signs located within the Design Clear Zone.



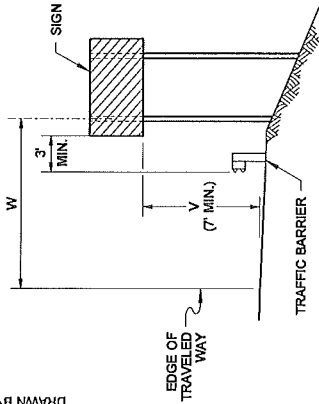
SIGN INSTALLATION IN FILL SECTION



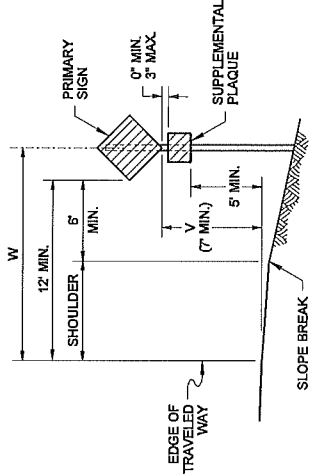
SIGN INSTALLATION ON STEEP FILL SLOPES



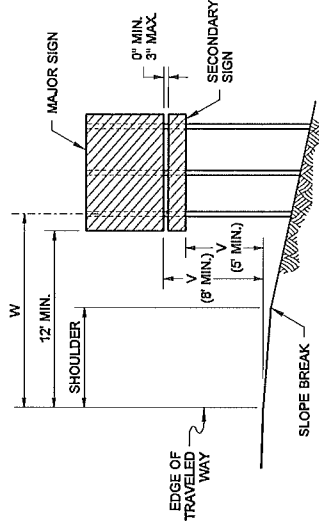
MULTIPLE SIGN POST INSTALLATION IN FILL SECTION



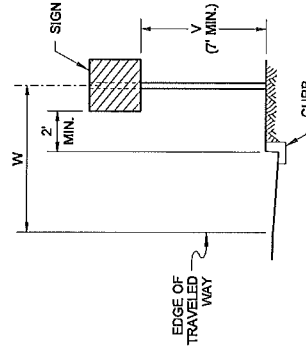
SIGN INSTALLATION BEHIND TRAFFIC BARRIER



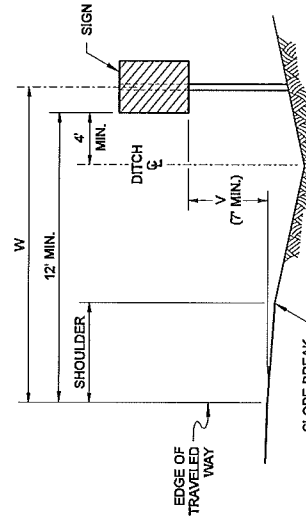
SIGN WITH SUPPLEMENTAL PLAQUE INSTALLATION IN FILL SECTION



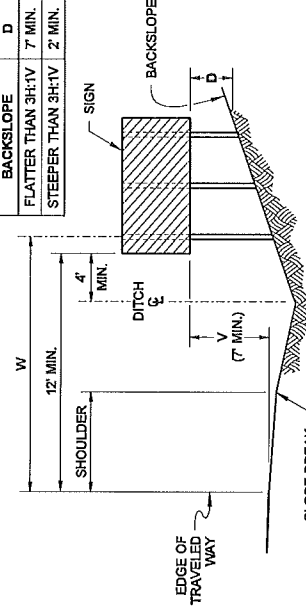
GUIDE OR DIRECTIONAL SIGN WITH SECONDARY SIGN INSTALLATION ON EXPRESSWAYS AND FREEWAYS



SIGN INSTALLATION IN CURB SECTION



SIGN INSTALLATION IN DITCH SECTION



MULTIPLE SIGN POST INSTALLATION IN DITCH SECTION

BACKSLOPE	D
FLATTER THAN 3H:1V	7' MIN.
STEEPER THAN 3H:1V	2' MIN.



EXPIRES AUGUST 9, 2008

GROUND MOUNTED SIGN PLACEMENT STANDARD PLAN G-20.10-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III

STATE DESIGN ENGINEER

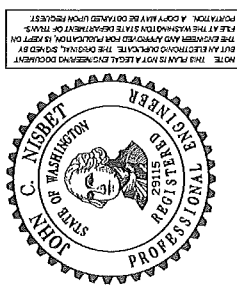
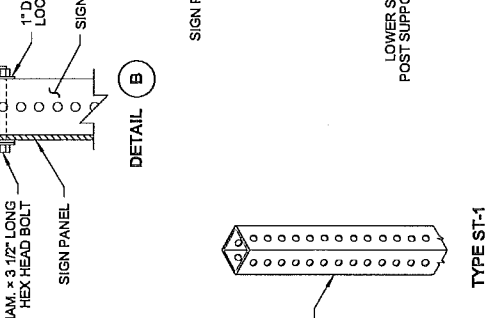
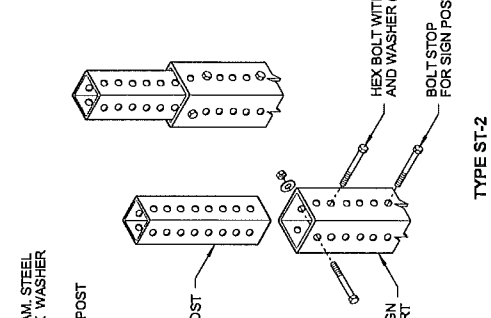
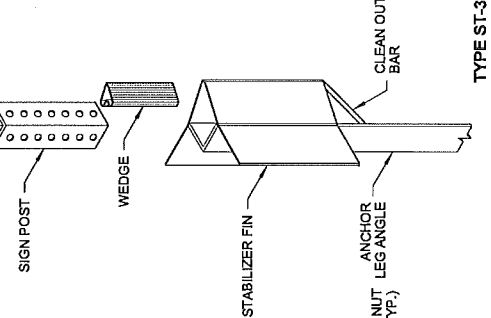
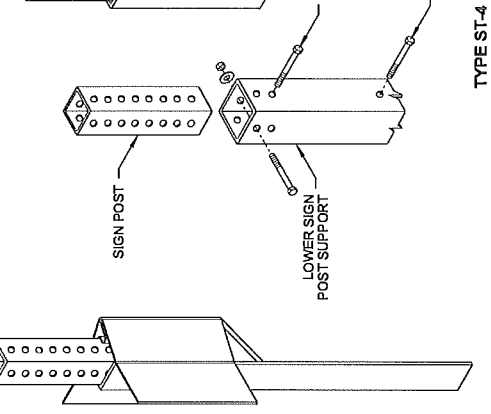
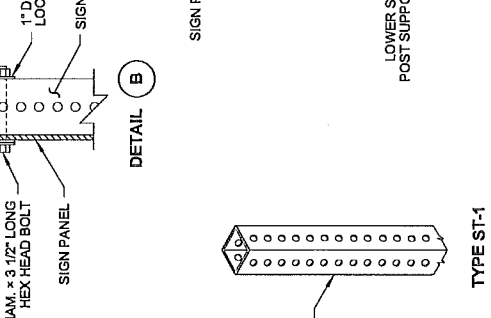
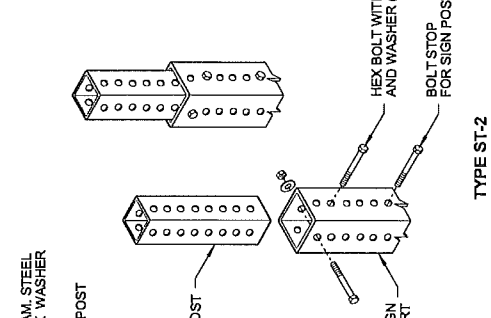
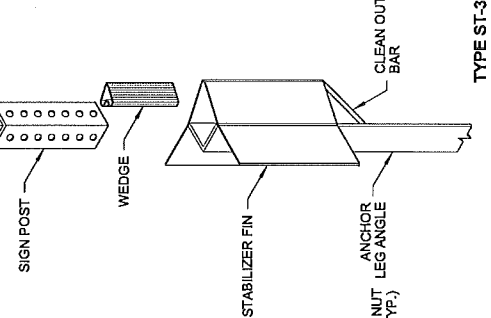
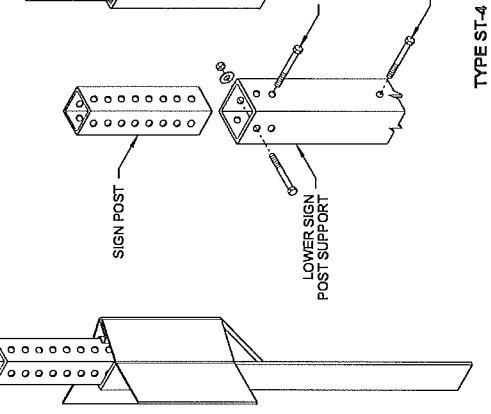
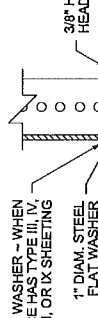
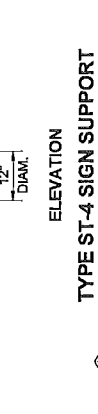
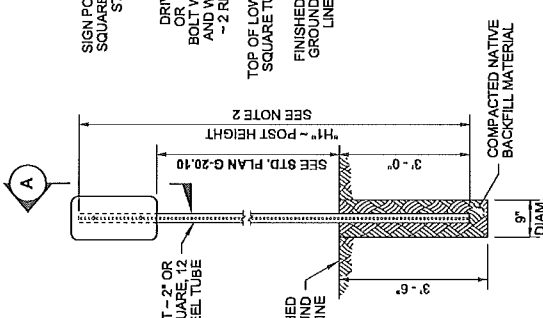
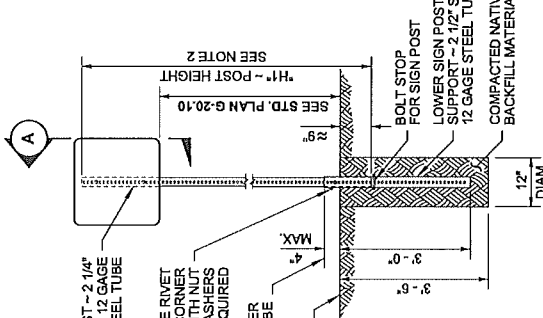
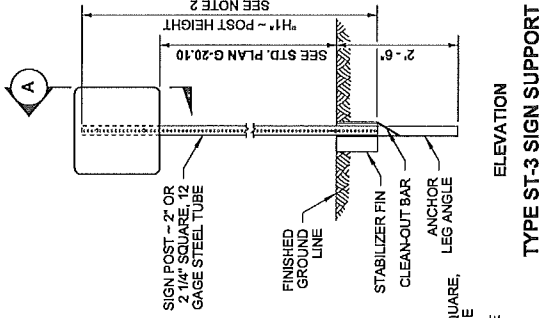
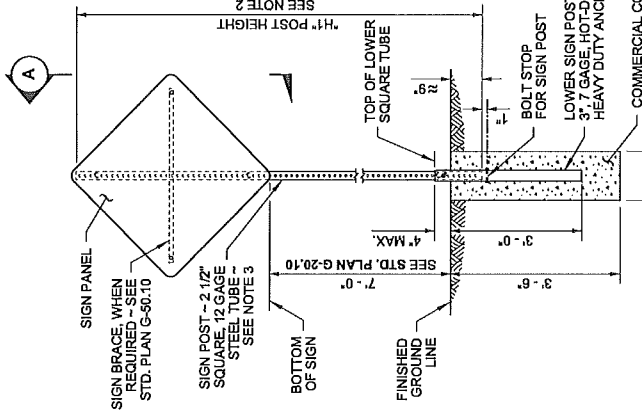
Washington State Department of Transportation

DATE 09-20-07

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NOTES

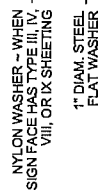
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled.
2. For "H1" refer to the Sign Specification Sheet in the Contract.
3. A. 2" post with a 2 1/4" PSST anchor, or a 2 1/4" post with a 2 1/2" PSST anchor may be substituted. See Contract Plans.



STEEL SIGN SUPPORT TYPES ST-1 ~ ST-4 INSTALLATION DETAILS STANDARD PLAN G-24.50-02

SHEET 1 OF 1 SHEET
 APPROVED FOR PUBLICATION
 Pasco Bakofich III
 STATE DESIGN ENGINEER
 DATE 6/20/13
 Washington State Department of Transportation

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TYPE ST-4

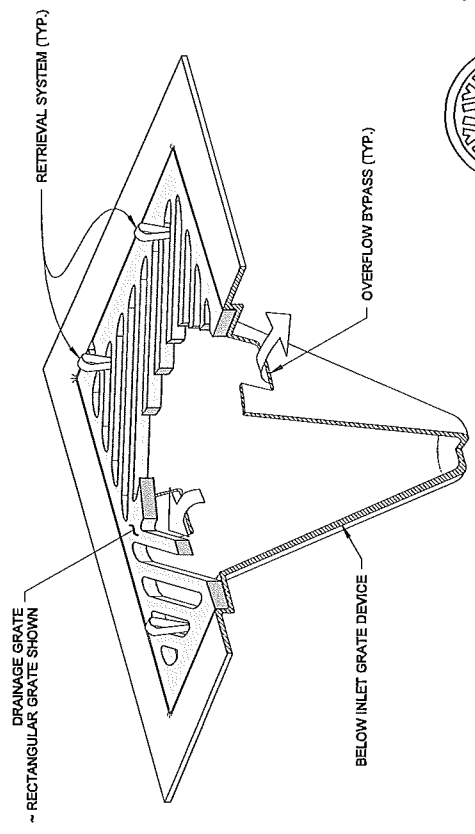
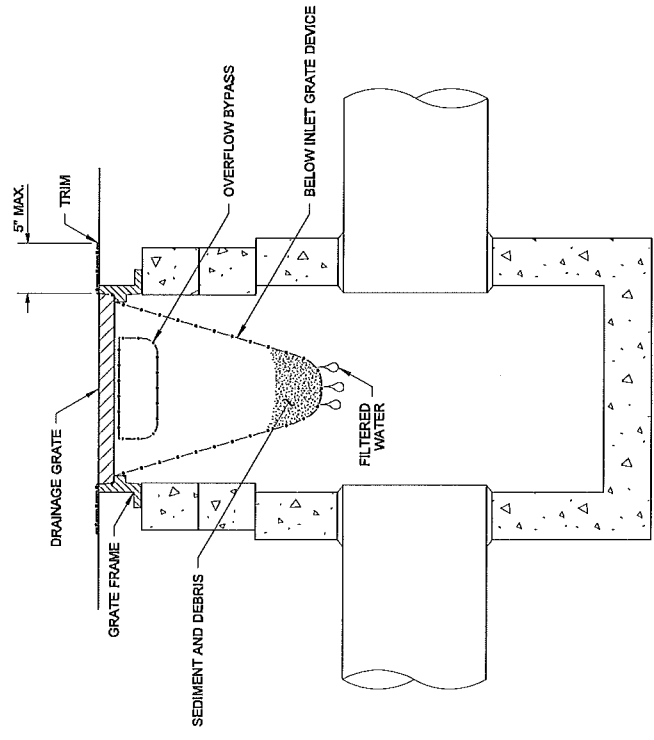
TYPE ST-3

TYPE ST-2

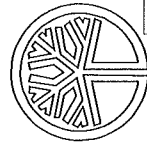
TYPE ST-1

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW



STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
 MARK W. MAURER
 CERTIFICATE NO. 000598

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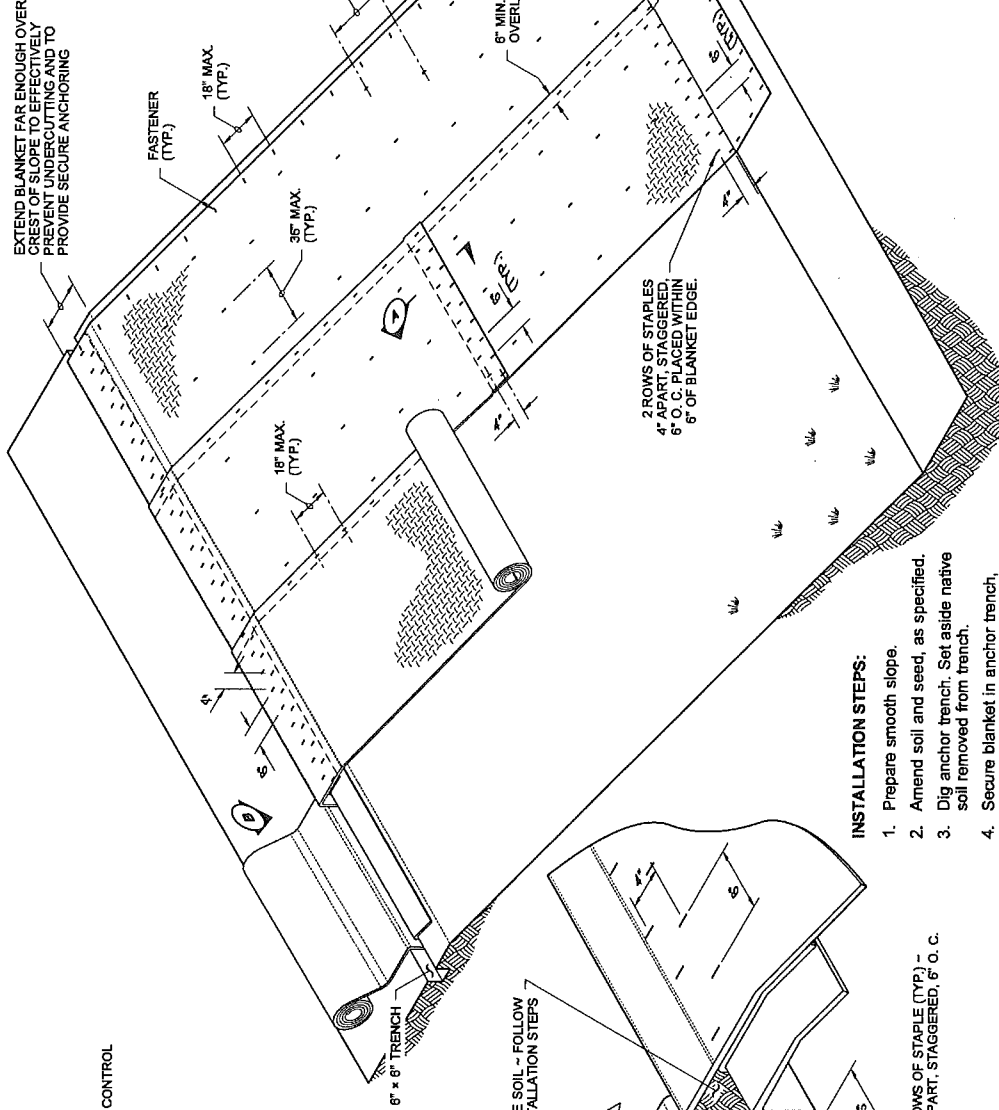
**STORM DRAIN
 INLET PROTECTION
 STANDARD PLAN I-40.20-00**

SHEET 1 OF 1 SHEET
 APPROVED FOR PUBLICATION
 Pasco Bakotich III
 STATE DESIGN ENGINEER
 DATE 09-20-07
 Washington State Department of Transportation

NOTES

1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and slope steepness.
2. See Standard Specification 8-01.3(3) and 9-14.6(2).
3. Use manufacturer's requirements. When manufacturer's requirements are not provided, use installation requirements shown on Standard Plans.
4. Additional staples may be required on slopes greater than 3H : 1V.

EXTEND BLANKET FAR ENOUGH OVER
REST OF SLOPE TO EFFECTIVELY
PREVENT UNDESIRABLE ROOTING AND TO
PROVIDE SECURE ANCHORING



EXTEND BLANKET 24\"/>



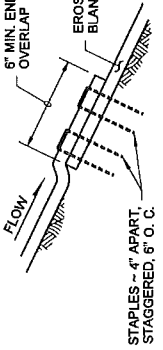
STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
SANDRA L. SALISBURY
LICENSE NO. 680
DATE: 6/8/13

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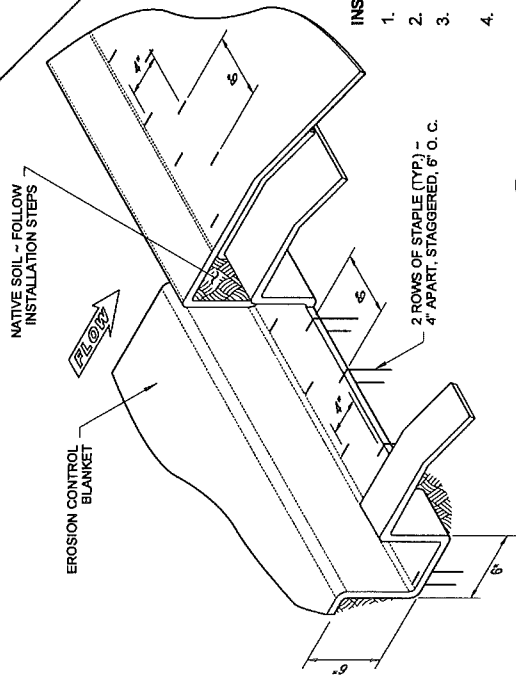
**BIODEGRADABLE EROSION
CONTROL BLANKET
STANDARD PLAN I-60.10-01**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakofich III
STATE DESIGN ENGINEER
Washington State Department of Transportation
DATE: **6/10/13**

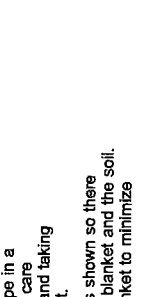


SHINGLE SPLICE - SECTION A



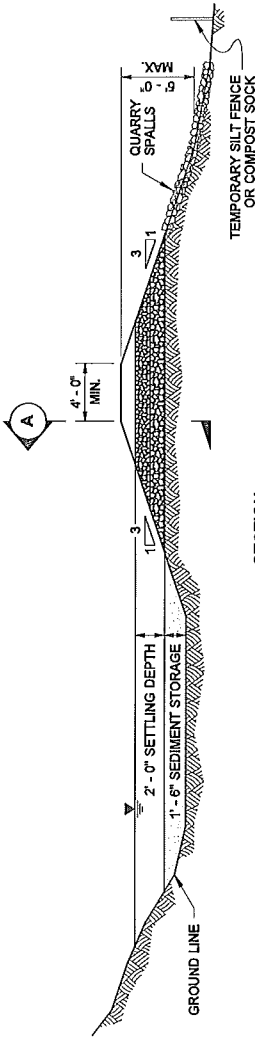
INITIAL ANCHOR - DETAIL B

ISOMETRIC VIEW

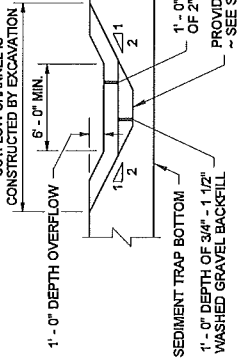


INSTALLATION STEPS:

1. Prepare smooth slope.
2. Amend soil and seed, as specified.
3. Dig anchor trench. Set aside native soil removed from trench.
4. Secure blanket in anchor trench, staking or stapling blanket as shown.
5. Replace native soil previously removed from trench.
6. Roll blanket down the slope in a controlled manner, taking care to remove excess slack, and taking care not to stretch blanket.
7. Stake or staple blanket as shown so there are no gaps between the blanket and the soil. Staple while unrolling blanket to minimize walking on blanket.

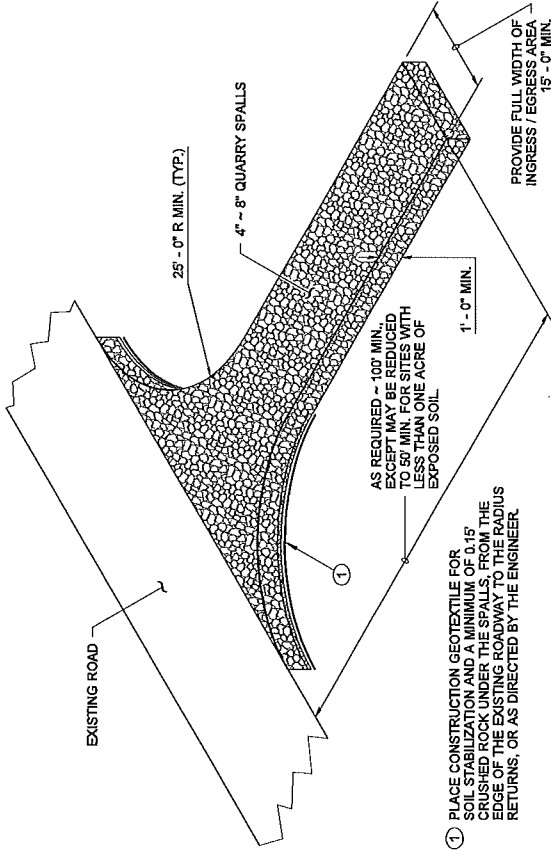


SECTION A

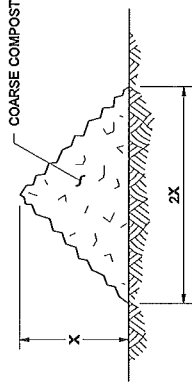


SECTION A

TEMPORARY SEDIMENT TRAP



ISOMETRIC VIEW
STABILIZED CONSTRUCTION ENTRANCE



X = 1'-0" FOR SLOPES 4H:1V OR FLATTER
X = 1'-6" FOR SLOPES STEEPER THAN 4H:1V

TYPICAL SECTION

COMPOST BERM DETAIL



STATE OF WASHINGTON
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

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MISCELLANEOUS
EROSION CONTROL DETAILS
STANDARD PLAN I-80.10-01

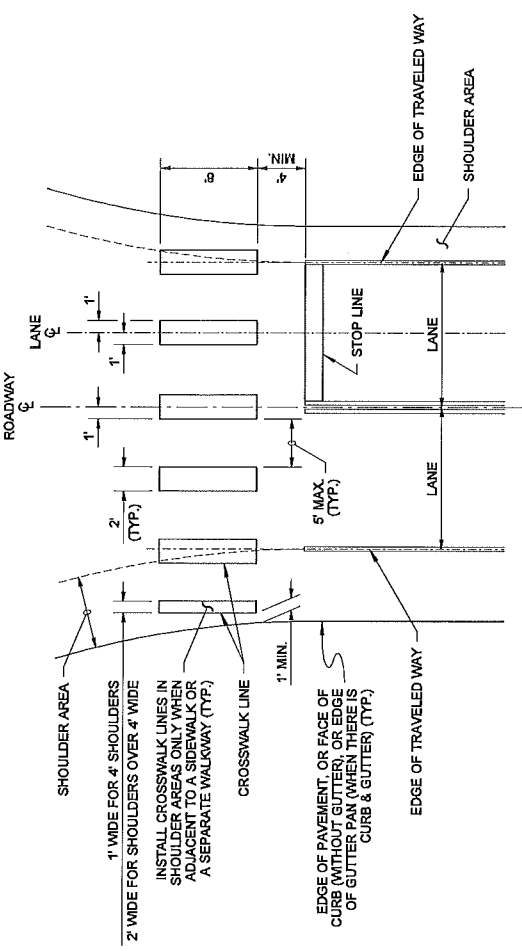
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 08-11-09 DATE

STATE DESIGN ENGINEER

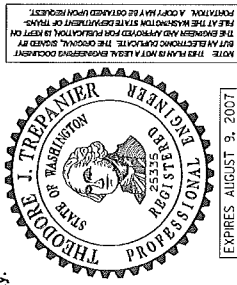
Washington State Department of Transportation



DETAIL

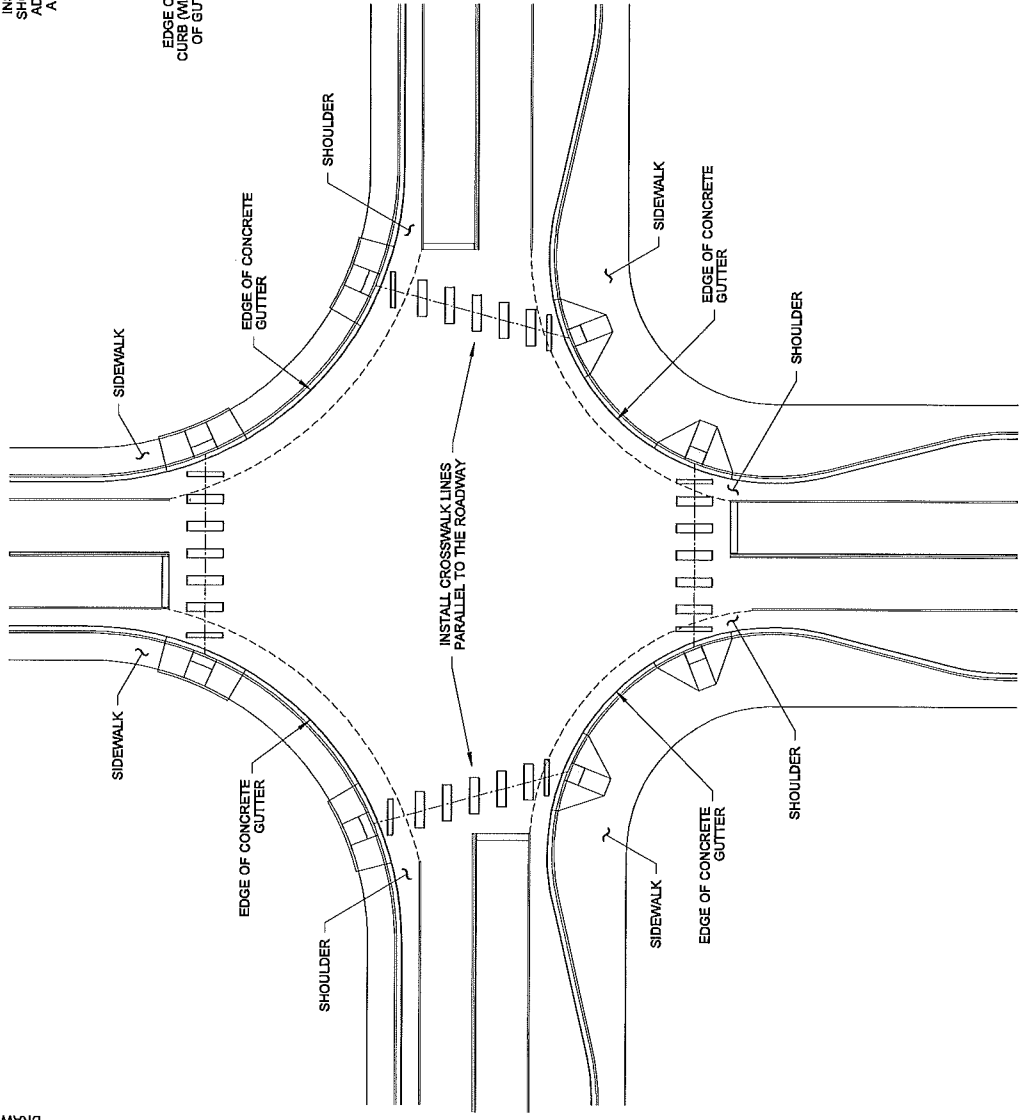
NOTES

1. See the Contract Plans for locations of crosswalk centerlines.
2. To the maximum extent possible, curb ramp centerline should be perpendicular to the crosswalk centerline.
3. To the maximum extent possible, crosswalks should be perpendicular to the centerline of the traveled way.

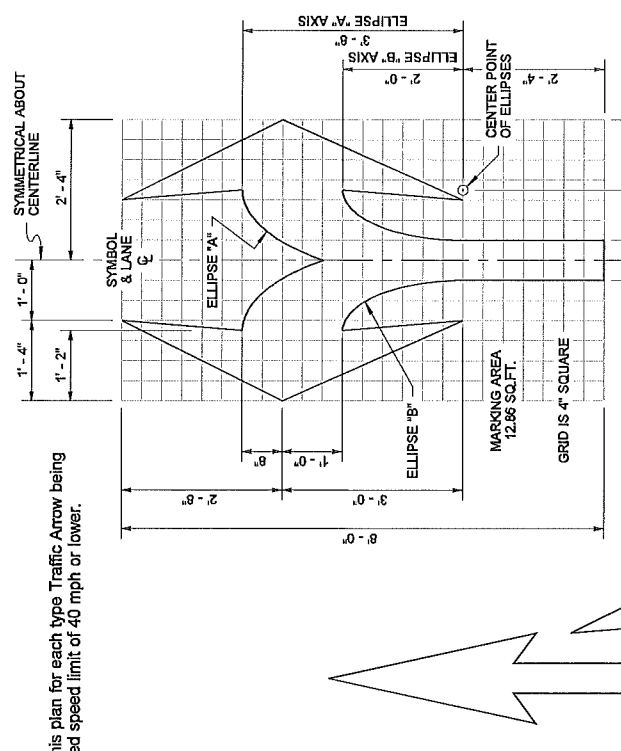
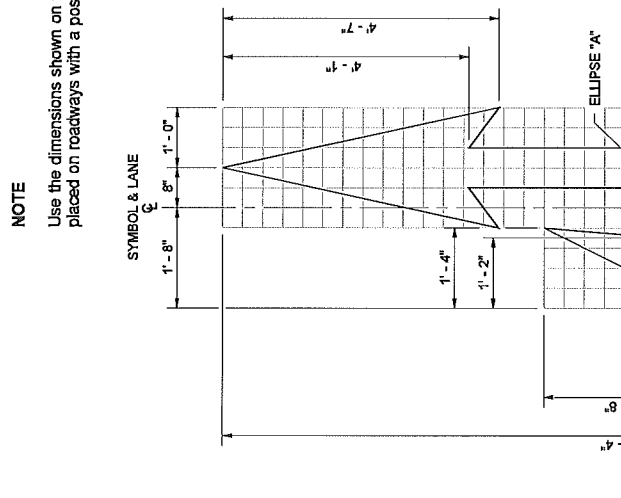
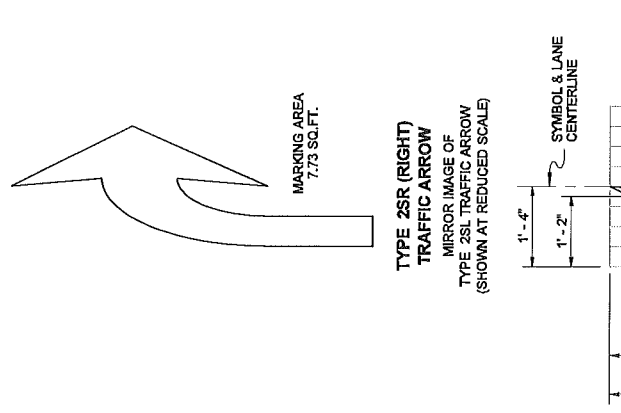
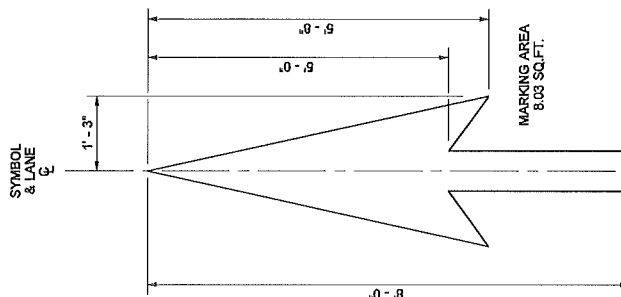


CROSSWALK LAYOUT
STANDARD PLAN M-15.10-01
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Ken L. Smith
 STATE DESIGN ENGINEER
 DATE **02-06-07**
 Washington State Department of Transportation

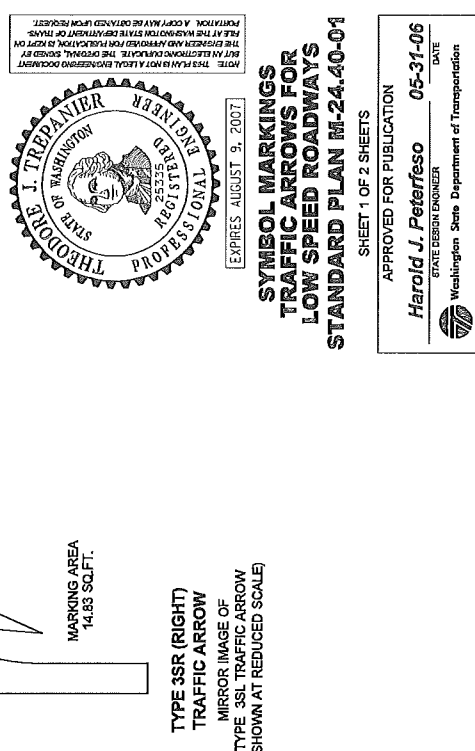
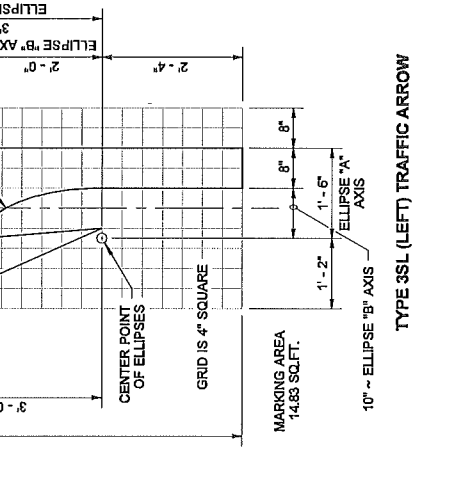
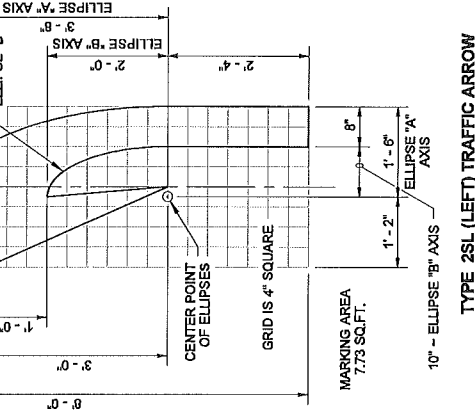


TYPICAL APPLICATIONS

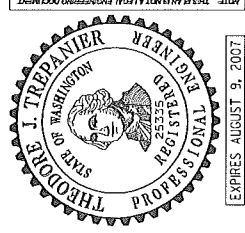


NOTE
Use the dimensions shown on this plan for each type Traffic Arrow being placed on roadways with a posted speed limit of 40 mph or lower.

SYMMETRICAL ABOUT CENTERLINE

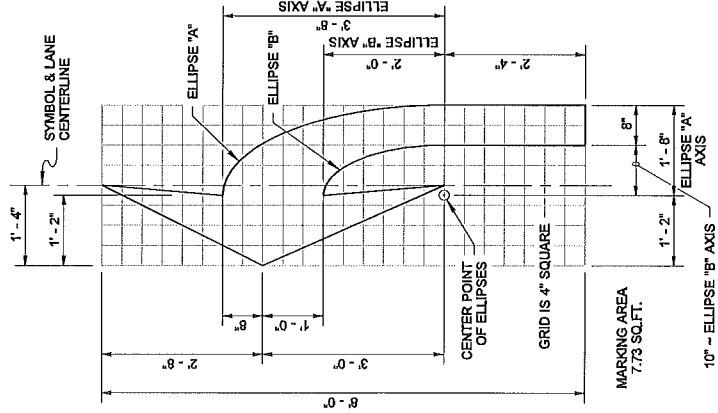
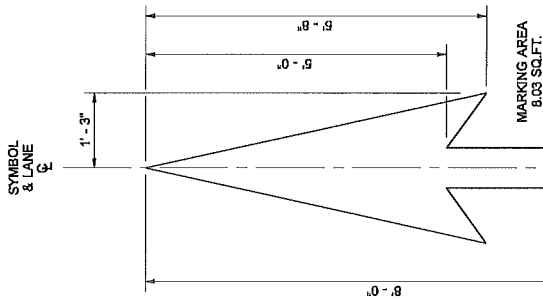


NOTE
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SYMBOL MARKINGS FOR TRAFFIC ARROWS FOR LOW SPEED ROADWAYS
STANDARD PLAN M-24.40-01

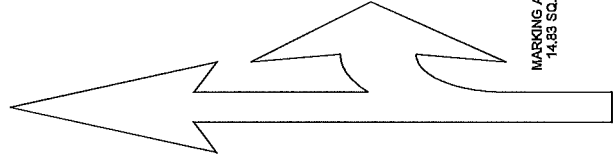
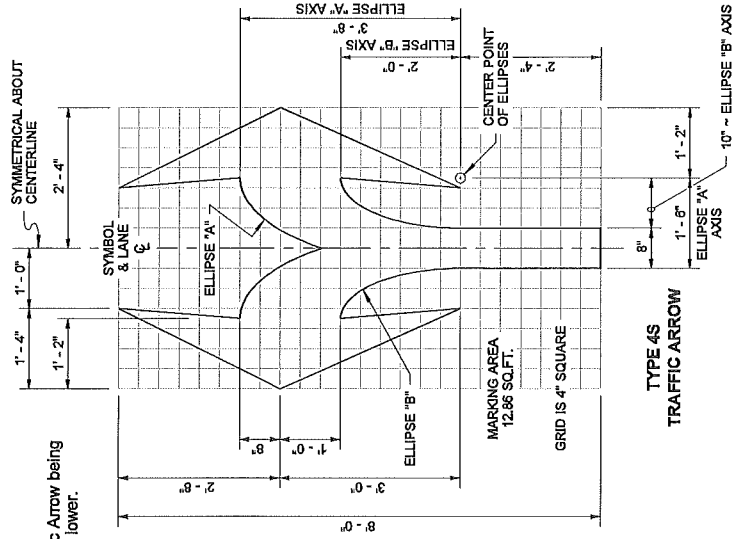
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Harold J. Peterfeso
STATE DESIGN ENGINEER
DATE 05-31-06
Washington State Department of Transportation



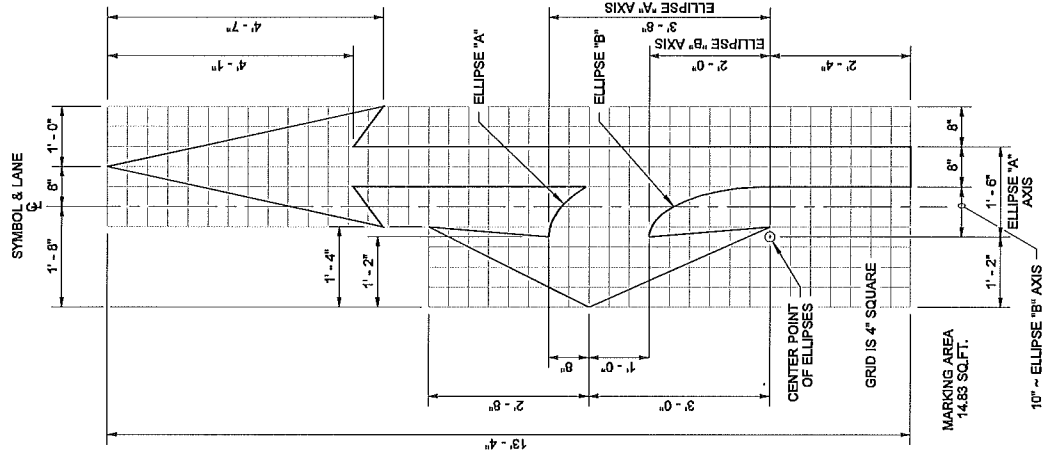
TYPE 2SL (LEFT) TRAFFIC ARROW

NOTE

Use the dimensions shown on this plan for each type Traffic Arrow being placed on roadways with a posted speed limit of 40 mph or lower.



**TYPE 3SR (RIGHT)
TRAFFIC ARROW**
MIRROR IMAGE OF
TYPE 3SL TRAFFIC ARROW
(SHOWN AT REDUCED SCALE)

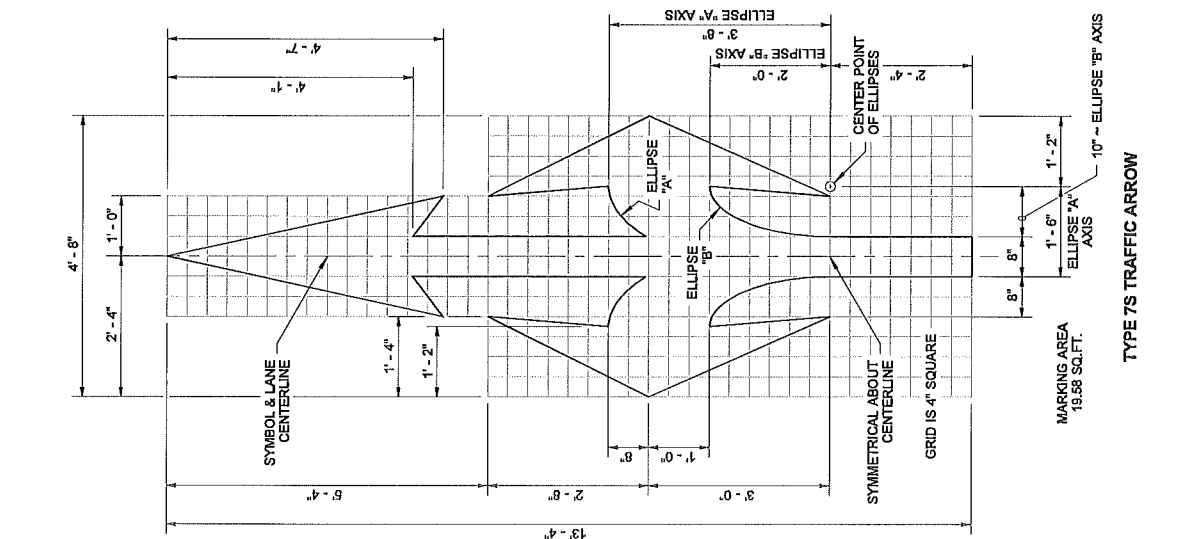


TYPE 3SL (LEFT) TRAFFIC ARROW

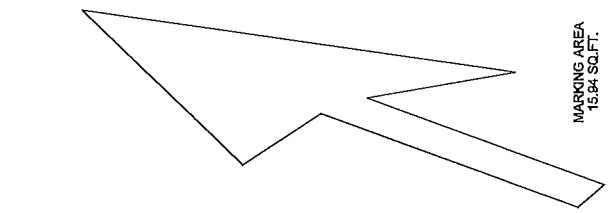
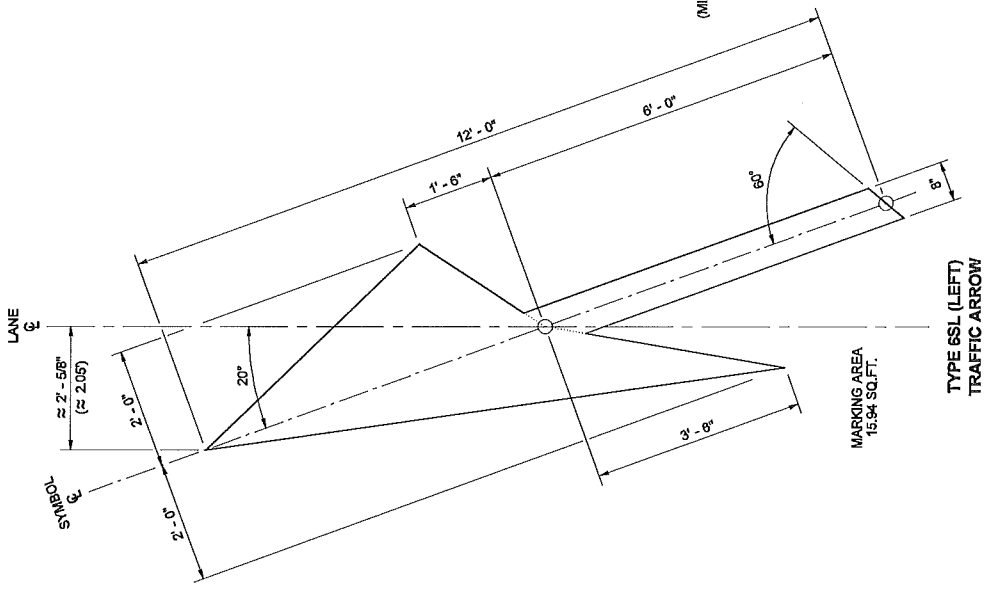
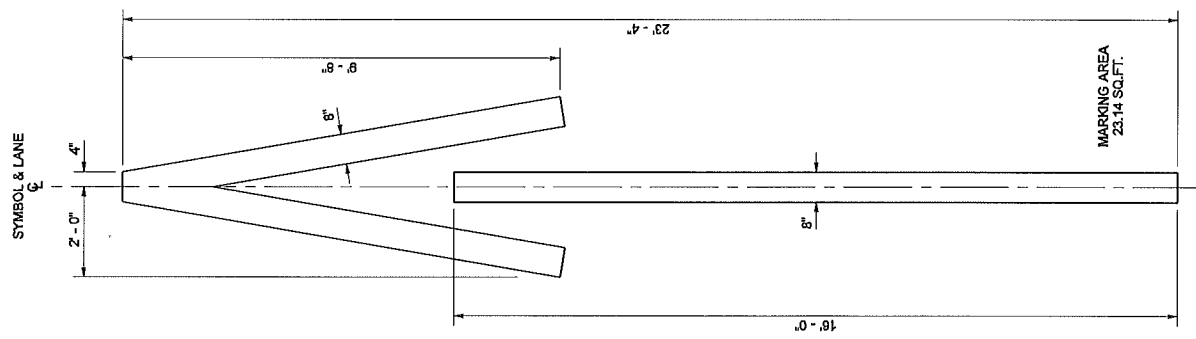


**SYMBOL MARKINGS
TRAFFIC ARROWS FOR
LOW SPEED ROADWAYS**
STANDARD PLAN M-24.40-01

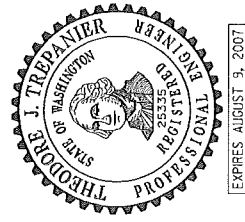
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Harold J. Peterferro 05-31-06
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation



DRAWN BY: MARK SUJKA



TYPE 6SR (RIGHT)
TRAFFIC ARROW
MIRROR IMAGE OF TYPE 6SL
(MIRRORED ABOUT LANE CENTERLINE)
(SHOWN AT REDUCED SCALE)



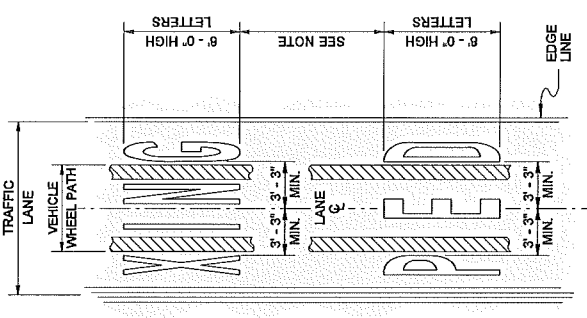
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EXPIRES AUGUST 9, 2007

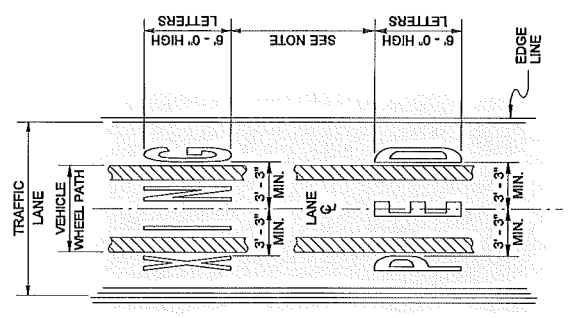
SYMBOL MARKINGS FOR TRAFFIC ARROWS FOR LOW SPEED ROADWAYS
STANDARD PLAN M-24-40-01

SHEET 2 OF 2 SHEETS

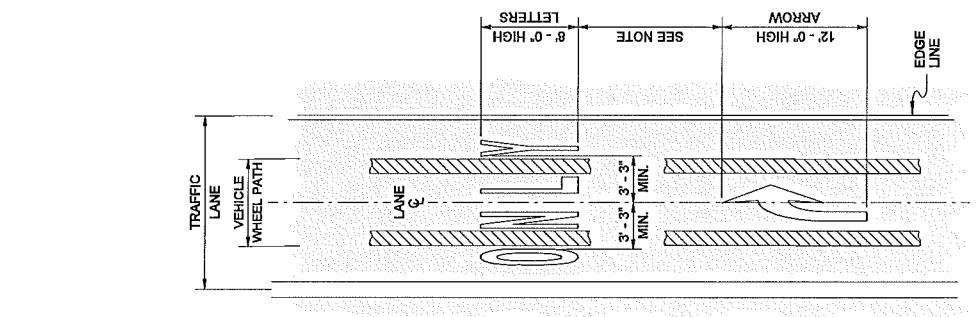
APPROVED FOR PUBLICATION
Harold J. Peterfeso 05-31-06
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation



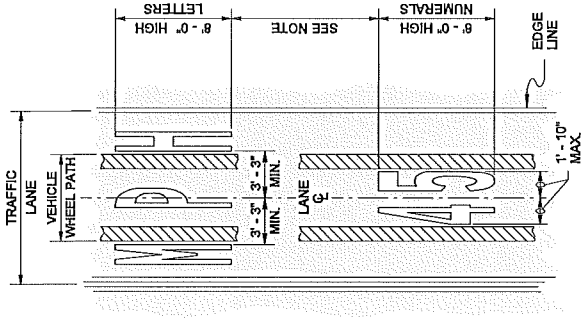
HIGH-SPEED APPLICATION



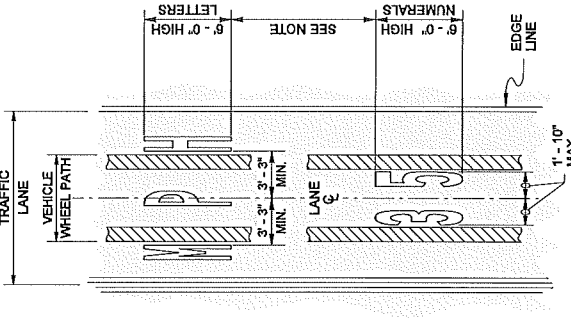
LOW-SPEED APPLICATION



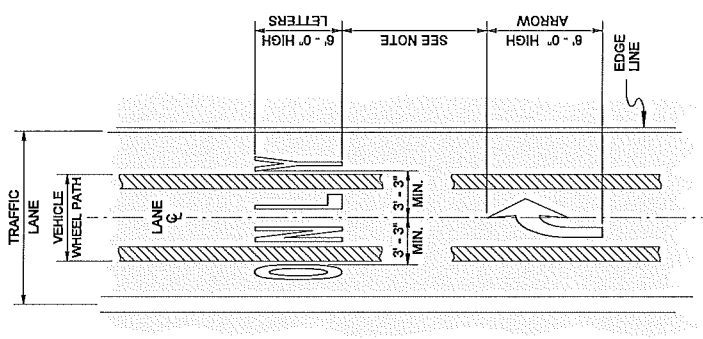
HIGH-SPEED APPLICATION



HIGH-SPEED APPLICATION

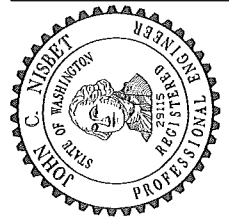


LOW-SPEED APPLICATION



LOW-SPEED APPLICATION

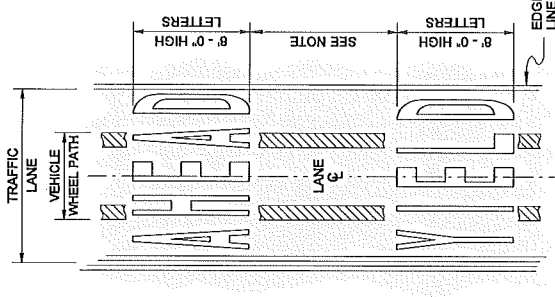
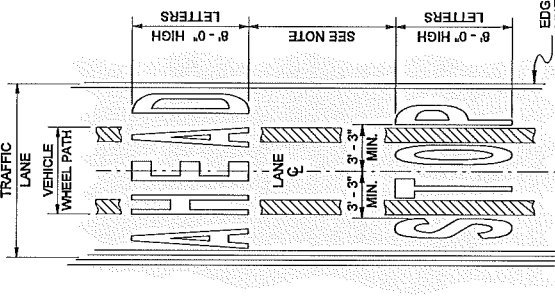
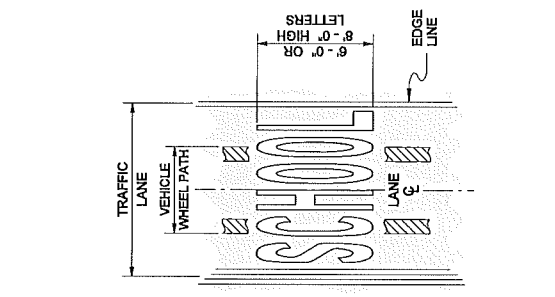
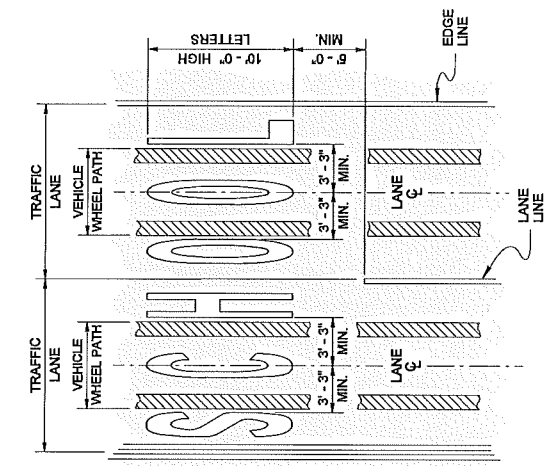
NOTE
1. Typically, four times the letter or numeral height ~ minimum, up to ten times ~ maximum, or according to Plans.



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TRAFFIC LETTER AND NUMERAL APPLICATIONS
STANDARD PLAN M-80.10-01

SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Pasco Bakotich III
STATE DESIGN ENGINEER
DATE **06-03-11**
Washington State Department of Transportation



TRAFFIC LANE VEHICLE WHEEL PATH

TRAFFIC LANE VEHICLE WHEEL PATH

TRAFFIC LANE VEHICLE WHEEL PATH

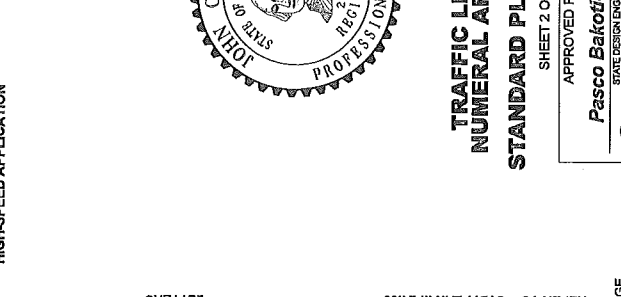
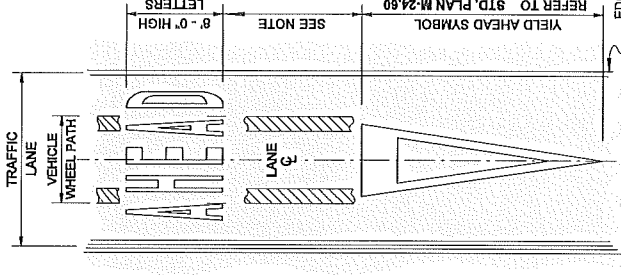
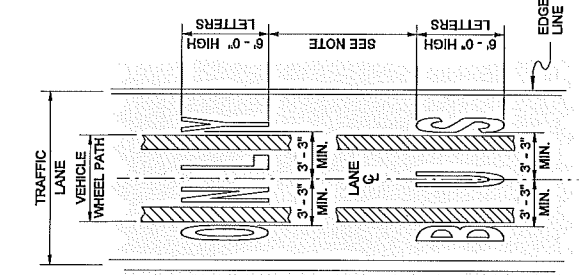
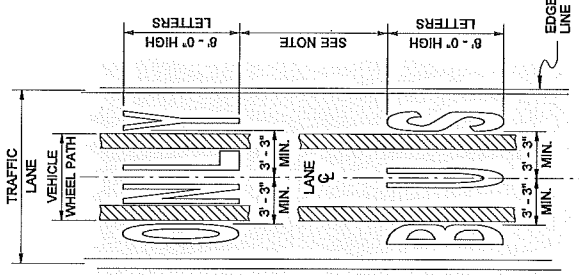
TRAFFIC LANE VEHICLE WHEEL PATH

HIGH-SPEED APPLICATION

HIGH-SPEED APPLICATION

HIGH-SPEED APPLICATION

HIGH-SPEED APPLICATION



TRAFFIC LANE VEHICLE WHEEL PATH

TRAFFIC LANE VEHICLE WHEEL PATH

TRAFFIC LANE VEHICLE WHEEL PATH

TRAFFIC LANE VEHICLE WHEEL PATH

HIGH-SPEED APPLICATION

LOW-SPEED APPLICATION

HIGH-SPEED APPLICATION

HIGH-SPEED APPLICATION

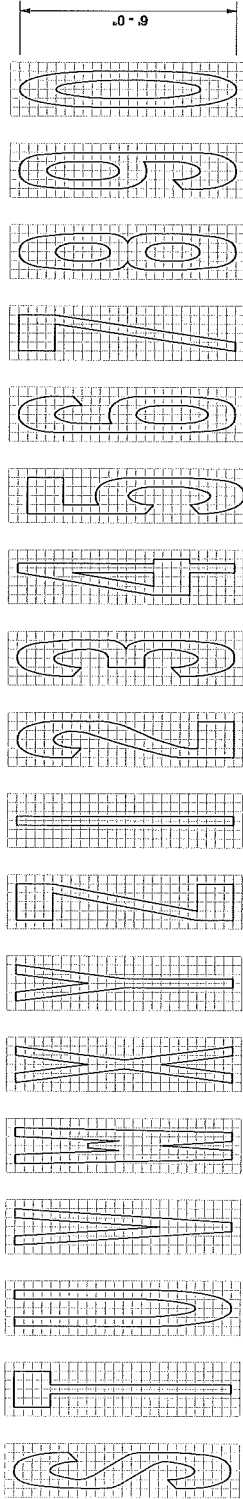
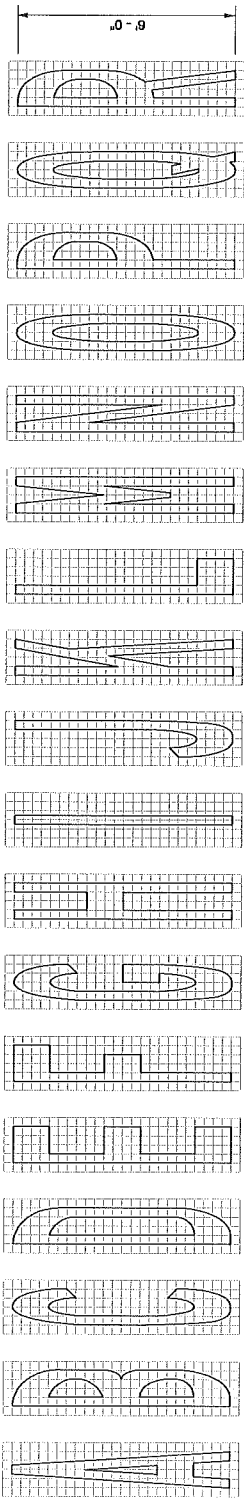


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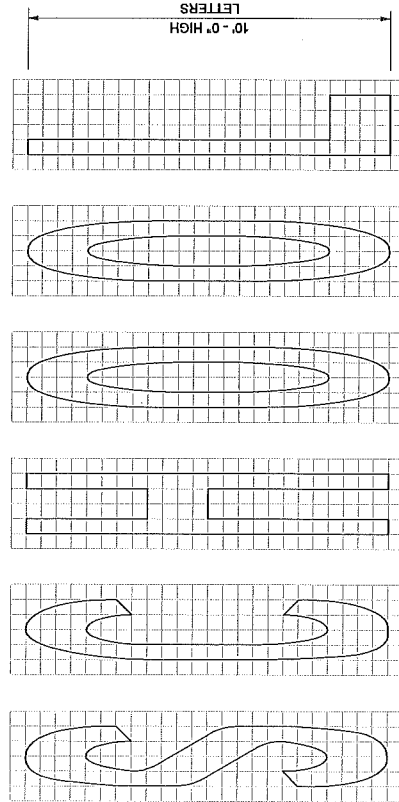
TRAFFIC LETTER AND NUMERAL APPLICATIONS
STANDARD PLAN M-80.10-01

SHEET 2 OF 2 SHEETS

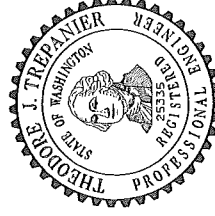
APPROVED FOR PUBLICATION
Pasco Bafotich III 06-03-11
 STATE ENGINEER
 Washington State Department of Transportation



SIX FOOT HIGH LETTERS AND NUMERALS SHOWN ON A THREE-INCH SQUARE GRID



TEN FOOT HIGH LETTERS SHOWN ON A FIVE-INCH SQUARE GRID



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TRAFFIC LETTERS AND NUMERALS (LOW SPEED ROADWAYS) STANDARD PLAN M-80.30-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakofich III
STATE DESIGN ENGINEER
DATE 06-10-08
Washington State Department of Transportation

FOR USE ON ROADWAYS WITH A POSTED SPEED OF 40 MPH OR LESS

APPENDIX H
AGC AGREEMENT
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AGC – WSDOT
EQUIPMENT RENTAL AGREEMENT

Effective Date: May 1, 2007 Until Further Notice

It is mutually agreed by the parties to this agreement that rental rates to be paid Contractors for equipment used on force account will be established in accordance with Section 1-09.6 of the Standard Specifications and this agreement. The following rules have been agreed to:

1. General

The Rental Rate Blue Book published by Primedia Information, Inc., as clarified or modified by this agreement, will be used to establish rental rates for equipment approved for use on force account work. Rate modifications, indicated on Regional Adjustment Maps in the Blue Book and as applied automatically by the Blue Book CD (Washington State Version), shall be used for all equipment covered under this agreement. Updates to the Rental Rate Book, in compact disk format, are published on a schedule determined by Primedia Information, Inc. Each update will become applicable to force accounts fourteen days after the date on which Primedia Information, Inc. declares the update to be effective. Equipment used under the terms of this agreement will be at the rates in effect for each section of the Blue Book at the time of use except that calculations made prior to the applicable date, using the previous rates, will not be changed.

2. Rental Rate

The hourly rental rate for equipment utilized on force account shall be a combination of the following items:

- a. The Blue Book monthly rate multiplied by the Rate Adjustment factors for age and geographic location divided by 176.
- b. Attachments will be included in the rental rate when the Engineer deems them necessary to accomplish the force account work. An approved attachment that is continuously attached and used intermittently during the work will be paid for the same duration as the host equipment. When multiple attachments are approved for use, and the attachments are being used interchangeably on the force account operation, only the one attachment having the higher rate will be paid.
- c. The hourly operating cost for each hour that the equipment is in use. "In use" shall mean that the presence of the equipment is necessary for the operation and that the equipment is present and is not being used for other activities while the force account work is underway. Under the circumstances, the equipment shall be paid at its hourly rate plus the hourly operating cost.

3. Standby Time

Standby time shall be defined as the time during which equipment is idled and cannot be assigned to other work on the project. Only that equipment which has been utilized for work on the force account and is expected to be utilized again on the same force account will be eligible for standby compensation. The Contractor is expected to utilize idled equipment on other work if reasonably possible. Standby time will only be paid if the Engineer has had an opportunity to evaluate the cost of standby versus the cost of mobilizing and demobilizing and has ordered standby.

When ordered by the Engineer, standby time shall be paid at one-half of the rate established in accordance with this agreement. The operating cost shall not be included in the calculation for establishing the standby rate. Standby time will not be compensated beyond that amount which will bring the resulting total of operated time and standby time to 8 hours in any one day or 40 hours in any one week.

4. Rental Equipment

If Contractor-owned equipment is not reasonably available, the Engineer may approve the use of operated or non-operated rental equipment. Operated equipment shall be considered a "service" and shall be compensated according to section 4 of the force account specification. Non-operated equipment shall be compensated according to the provisions for rented equipment in section 3 of the force account specifications. If the invoice costs of non-operated equipment do not specifically say the fuel is included, the Rental Rate Blue Book Hourly Operating Cost shall be added for each hour the equipment operates.

When invoiced equipment is used on both force account and non-force account work, payment for the equipment will be a prorated share of the invoice cost. The time period covered by the invoice shall reflect the normal practice of the renting agency, except that the time period shall not exceed one month. When calculating the prorated share, the amounts of standby time for both types of work will be considered according to the formula:

$$\text{Share of Invoice to be charged to Force Account} = \frac{\text{FC}}{\text{FC} + \text{NFC}}$$

Where:

FC = \$ Force account including standby time.

NFC = \$ Non-force account including standby time.

5. Mobilization

Force account mobilization of equipment is defined as the preparatory work performed by the Contractor including procurement, loading and transportation of equipment that is intended for use in a force account. A pro-rata adjustment will be made when the equipment is eventually used for regular contract work in addition to the force account work. Mobilization also included the costs incurred during demobilization. The costs will be included in the appropriate sections (Labor, Equipment, Services, etc) depending on the nature of the cost. If the equipment being mobilized is hauled, payment will cover the hauling vehicle (operated cost). In the event that equipment is transferred under its own power, the payment will cover the operated cost of the equipment plus operator costs. Move-out, or demobilization costs will provide for the return of the equipment to the location from which it was obtained. In the event that the move-out is to a different location, payment will not exceed the amount of the move-in.

If approved by the Engineer, payment will be allowed for moving equipment from work site to work site within the project after the equipment is on the job.

Charges for mechanic's time utilized in servicing equipment to ready it for use prior to moving to the project and similar charges will not be allowed.

6. Blue Book Omissions

In the event a rate has not been established for a particular piece of equipment in the Rental Rate Blue Book, a rate will be established, utilizing one or more of the following methods:

- a. Use a rate for the most similar model found in the applicable Blue Book. Such characteristics as manufacturer, capacity, horsepower, and fuel type will be used as the basis for selecting a similar model.
- b. Contact Primedia Information, Inc, (through the WSDOT OSC Construction Office) for the rate not included in the Book.
- c. Utilize a rate agreed upon by the parties.
- d. For equipment that is older than 20 years the oldest adjustment rate available in the book shall be used.

7. Breakdown

The Contractor shall provide reasonable maintenance efforts for equipment utilized in force account. When a breakdown occurs for any piece of equipment being used on force account work, the Contractor shall divert idled equipment. Payment shall cease for the equipment that is broken down. Payment shall also cease for any other equipment that is idled as a result of the breakdown (there will be no standby payment.) Payment for any labor that is idled as a result of the breakdown will be made in accordance with provisions of section 1 of the force account specifications, particularly as related to contractual obligations and normal practices of the Contractor.

8. Shutdown

If the Engineer orders a shutdown of any or all of the force account, the equipment idled as a result of the shutdown shall be diverted to other work. When diversion of equipment is not practical, standby time may be paid during non-operating hours as provided in Item 3 of this agreement.

The Engineer reserves the right to cease standby payment for equipment that is idled as a result of a shutdown when the shutdown is anticipated to be for an extended period of time. No further payment shall be allowed after the date the Engineer makes this determination except as provided in Item 5 of this agreement, "Mobilization."

Standby time shall not be paid when shutdown is the result of the fault or negligence of the Contractor.

9. Small Tools

Any contractor-owned equipment listed in the Blue Book with a monthly rate of less than \$100 and any other equipment with a purchase price of less than \$500 shall be considered Small Tools and shall be paid by negotiation rather than using an hourly rate (except for rentals.) Any such small tool that is rented shall be paid according to the rental provisions in the Equipment section of this agreement. All other Small Tools shall be paid by agreement of the parties. After the force account work has been completed, (or more often, by agreement of the parties,) the Contractor shall promptly supply a list of small tools and equipment that have been utilized in the work. The list shall be supported by invoices or, in the event the item came from stock, by a Contractor affidavit of purchase cost. The negotiation of the Small Tools payment may include discussions of shared use with other work and of residual value, if appropriate. Once agreed upon, the small tools amount will be added to the payment amount in the Equipment section (Section 3 of the force account specification.)

10. Aeration Equipment

The rental rate for plows and discs shall be as listed below:

Plows and discs meeting the requirements of Section 2-03.3(15) of the Standard Specifications shall be paid at the rate of \$9.60 per hour.

Add \$0.70 per hour per foot of width for additional width of disc more than 10 ft.

Motive power for discs and plows shall be capable of pulling discs and plows at the speeds specified in Section 2-03.3(15) of the Standard Specifications. Payment for motive power shall be 100 percent of the rates in this agreement except that equipment having motive power in excess of 340 horsepower shall be paid at 100 percent of the highest equipment rate for a comparable unit of the same manufacturer having less than 340 horsepower.

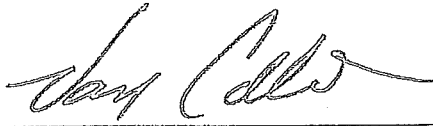
Payment for all other equipment approved for Aeration shall be at the rates established in accordance with this agreement when used for aeration work.

10. Concurrence, Review Time

This agreement is issued after conference among representatives of the Associated General Contractors of Washington and the Washington State Department of Transportation and has the approval of both. Either party may request a review after a one-year period.

Associated General Contractors of Washington

Washington State Department of
Transportation



Van Collins
Southern District Manager



Linea Laird
State Construction Engineer

APPENDIX I
NPDES PERMIT
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Instructions for Transfer of Coverage

Construction Stormwater General Permit

Instructions

This form is used to process two types of permit transfers: 1) Complete Transfer, or 2) Partial Transfer. Determine which type of transfer applies to your situation before filling out this form.

1. Complete Transfer: The original permittee has sold, or otherwise released control of, the entire site to another party.

Required Paperwork for Complete Transfer:

- Either the current permittee, or the new permittee(s), must submit a complete and accurate Transfer of Coverage form for each new party to Ecology. The form must be signed by the current permittee and the new permittee.

2. Partial Transfer: The original permittee retains control over some portion of the site after selling or releasing control over a portion of the site.

Required Paperwork for Partial Transfer

- Either the current permittee or the new permittee(s) must submit a complete and accurate Transfer of Coverage Form for each new operator to Ecology. The form must be signed by the current permittee and the new permittee.
- For partial transfers, once all transfers are submitted, the original permittee should submit the Notice of Termination only if the portion(s) they still own or control have undergone final stabilization and meet the criteria for termination.

For Your Information

- When this form is 1) completed, 2) signed by the current and new permittee, and 3) submitted to Ecology, permit transfers are effective on the date specified at the top page 1 (unless Ecology notifies the current permittee and new permittee of its intention to revoke coverage under the General Permit or if Ecology sends notice that the application is incomplete).
- The new permittee should keep a copy of the signed Transfer of Coverage form (which serves as proof of permit coverage) until Ecology sends documentation in the mail.
- Following the transfer, the new permittee must either: (1) use the Stormwater Pollution Prevention Plan (SWPPP) developed by the original operator, and modified as necessary, or (2) develop and use a new SWPPP which meets the requirements of the Construction Stormwater General Permit.
- For projects for which the original permittee has completed a Proposed New Discharge to an Impaired Water Body Form (ECY070-399) or for projects that are operating on sites with soil or groundwater contamination: By completing the Transfer of Coverage form, the new permittee will adopt any special provisions made to protect water quality for sites that have existing contamination or that discharge to an impaired water body.

To ask about the availability of this document in a version for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.

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Transfer of Coverage

Construction Stormwater General Permit

This form transfers permit coverage for all, or a portion Permit # WAR-_____ of a site to one or more new operators.

Type of permit transfer (check one): Partial transfer Complete transfer

Specific date that permit responsibility, coverage, and liability, is transferred to new operator: _____

Please see instructions for details on type of transfer.

Current Operator/Permittee Information

For partial transfers:			
• List <u>total size of project/site</u> remaining under your operational control following transfer: _____ acres.			
• List <u>total area of soil disturbance</u> remaining under your operational control following transfer: _____ acres.			
• Submitting this form meets the requirement to submit an updated NOI (General Permit Condition G9)			
Current Operator/Permittee Name:		Company:	
Business Phone:	Ext:	Mailing Address:	
Cell Phone:	Fax (optional):		
Email:	City:	State:	Zip+4:
Signature:		Title:	
		Date:	

New Operator/Permittee Information

I. New Operator/Permittee (Party with operational control over plans and specifications or day-to-day operational control of activities which ensure compliance with Stormwater Pollution Prevention Plan (SWPPP) and permit conditions. Ecology will send correspondence and permit fee invoices to the permittee on record.)			
Name:		Company:	
Business Phone:	Ext:	Unified Business Identifier (UBI): <i>(UBI is a nine-digit number used to identify a business entity. Write "none" if you do not have a UBI number.)</i>	
Cell Phone (Optional):	Fax (Optional):	E-mail:	
Mailing Address:	City:	State:	Zip + 4:
II. Property Owner (The party listed on the County Assessor's records as owner and taxpayer of the parcel[s] for which permit coverage is requested. Ecology will <u>not</u> send correspondence and permit fee invoices to the Property Owner. The Property Owner information will be used for emergency contact purposes.)			
Name:		Company:	
Business Phone:	Ext:	Unified Business Identifier (UBI): <i>(UBI is a nine-digit number used to identify a business entity. Write "none" if you do not have a UBI number.)</i>	
Cell Phone (Optional):	Fax (Optional):	E-mail:	

Mailing Address:	City:	State:	Zip + 4:
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III. On-Site Contact Person(s) (Typically the Certified Erosion and Sediment Control Lead or Operator/Permittee)				
Name:		Company:		
Business Phone:	Ext:	Mailing Address:		
Cell Phone:	Fax(Optional):	City:	State:	Zip+4:
Email:				

IV. Site/Project Information				
Site or Project Name		Site Acreage Total size of your site/project (that <u>you</u> own/control): _____ acres. (Note: 1 acre = 43,560 ft ² .)		
Street Address or Location Description (If the site lacks a street address, list its specific location. For example, Intersection of Highway 61 and 34.)		Total area of soil disturbance (grading and/or excavating) for <u>your</u> site/project over the life of the project: _____ acres.		
Parcel ID#: _____ (Optional)		<u>Concrete / Engineered Soils</u> How many yards of concrete will be poured? _____ yd ³ (estimate)		
Type of Construction Activity (check all that apply): <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Highway or Road (city, county, state) <input type="checkbox"/> Utilities (specify): _____ <input type="checkbox"/> Other (specify): _____		How many yards of recycled concrete will be used? _____ yd ³ (estimate)		
City (or nearest city): _____		Estimated project start-up date (mm/dd/yy): _____		
County: _____		Estimated project completion date (mm/dd/yy): _____		
Zip Code: _____				
Record the latitude and longitude of the <i>main entrance</i> to the site or the approximate center of site.				
Latitude: _____°N		Longitude: _____°W		
For assistance with latitude and longitude, refer to any of the following websites: www.getlatlon.com or http://www.worldatlas.com/aatlas/imageg.htm . Please convert all latitude and longitude coordinates into decimal degrees format. For help with this process, go to: http://www.fcc.gov/mb/audio/bickel/DDDMMSS-decimal.html .				
V. Existing Site Conditions				

1. Are you aware of contaminated soils present on the site? Yes No
2. Are you aware of groundwater contamination located within the site boundary? Yes No
3. If you answered yes to questions 1 or 2, will any contaminated soils be disturbed or will any contaminated groundwater be discharged due to the proposed construction activity? Yes No

["Contaminated" and "contamination" here mean containing any hazardous substance (as defined in WAC 173-340-200) that does not occur naturally or occurs at greater than natural background levels.]

If you answered yes to Question 3, please explain below or on a separate paper in detail the locations, contaminants, and concentrations, and pollution prevention and/or treatment BMPs proposed to control the discharge of soil/groundwater contaminants. Ecology may request a copy of your SWPPP.

VI. WQWebDMR (Electronic Discharge Monitoring Reporting)

You must submit monthly discharge monitoring reports using Ecology's WQWebDMR system. To sign up for WQWebDMR, or to register a new site, go to www.ecy.wa.gov/stormwater, and click on the "Construction Stormwater" link. You will find information on WQWebDMR under the "WQWebDMR and PARIS" link on the right-hand side. If you are unable to submit your DMRs electronically, you may contact Ecology to request a waiver. Ecology will generally only grant waiver requests to those permittees without internet access. Only a permittee or representative, designated in writing, may request access to or a waiver from WQWebDMR. To have the ability to use the system immediately, you must submit the **Electronic Signature Agreement with your transfer of coverage form**. If you have questions on this process, contact Ecology's WQWebDMR staff at WebDMR-Stormwater@ecy.wa.gov or 360-407-7097.

VII. Discharge/Receiving Water Information

Indicate whether your site's stormwater and/or dewatering water could enter surface waters, directly and/or indirectly:

- Water will discharge directly or indirectly (through a storm drain system or roadside ditch) into one or more surface water bodies (wetlands, creeks, lakes, and all other surface waters and water courses).

If your discharge is to a storm sewer system, provide the name of the operator of the storm sewer system:

(e.g., City of Tacoma): _____

(NOTE: If your stormwater discharges to a storm sewer system operated by the City of Seattle, King County, Snohomish County, City of Tacoma, Pierce County, or Clark County, you must **also** submit a copy of this NOI to the appropriate jurisdiction.)

- Water will discharge to ground with 100% infiltration, with no potential to reach surface waters under any conditions.

If your project includes dewatering, you must include dewatering plans and discharge locations in your site Stormwater Pollution Prevention Plan.

Location of Discharge into Surface Water Body

Enter the outfall identifier code, water body name, and latitude/longitude of the point(s) where the site has the potential to discharge into a water body (enter all locations).

- Include the names and locations of both direct and indirect discharges to surface water bodies, even if the risk of discharge is low or limited to periods of extreme weather.
- Give each point a unique 3-digit alpha numeric code. This code will be used for identifying these points in WQWebDMR
- Some large construction projects (for example, subdivisions, roads, or pipelines) may discharge into several water bodies.
- If the creek or tributary is unnamed, use a format such as "unnamed tributary to Deschutes River."

Attach a separate list if necessary.

Outfall Identifier Code	Surface Water Body Name	Latitude Decimal Degrees	Longitude Decimal Degrees

				° N	° W
				° N	° W
				° N	° W
<p><i>If your site discharges to a water body that is on the impaired water bodies list (i.e., 303[d] list) for turbidity, fine sediment, high pH, or phosphorus, your sites will be subject to additional sampling and numeric effluent limits (per Permit Condition S8). Information on impaired water bodies is available online at: http://www.ecy.wa.gov/programs/wq/303d/index.html.</i></p>					

Before signing, please use the following checklist to ensure this form is complete:

- All spaces on this form have been completed (attach additional sheets if necessary).
- The transfer form is signed by both the current permittee and the new permittee(s).
- New Operator/Permittee: Before you submit this form to Ecology, please retain a copy for your records – this will serve as proof of permit coverage until documentation arrives from Ecology.
- For partial transfers: If the original permittee no longer owns or controls any portions of the site that meet the criteria for termination, the original permittee must submit a Notice of Termination to terminate permit coverage. (<http://www.ecy.wa.gov/biblio/ecy02087.html>)
- For sites with contaminated soils/groundwater or a new discharger to an impaired water body: Any special provisions to protect water quality put in place at the time of initial coverage have been reviewed and adopted by the new permittee.

VIII. Certification of Permittee

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed/Typed Name	Company (operator/permittee only)	Title
Signature of Operator/Permittee	Date	

*** Federal regulations require this application is signed by one of the following:**

- A. For a corporation: By a principal executive officer of at least the level of vice president.
- B. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively.
- C. For a municipality, state, federal, or other public facility: By either a principal executive officer or ranking elected official.

Please sign and return this document to the following address:
 Washington Department of Ecology - Stormwater
 P.O. Box 47696
 Olympia, WA 98504-7696

If you have questions about this form, contact the following Ecology staff:

Location	Contact Name	Phone	E-mail
City of Seattle, and Kitsap, Pierce, and Thurston counties	Josh Klimek	360-407-7451	josh.klimek@ecy.wa.gov
Island, King, and San Juan counties	Clay Keown	360-407-6048	clay.keown@ecy.wa.gov
Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Skagit, Snohomish, Spokane, Stevens, Walla, Whatcom, and Whitman counties.	Shawn Hopkins	360-407-6442	shawn.hopkins@ecy.wa.gov
Benton, Chelan, Clallam, Clark, Cowlitz, Douglas, Grays Harbor, Jefferson, Kittitas, Klickitat, Lewis, Mason, Okanogan, Pacific, Skamania, Wahkiakum, and Yakima counties.	Joyce Smith	360-407-6858	joyce.smith@ecy.wa.gov

To ask about the availability of this document in a version for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.

Issuance Date: December 1, 2010
Effective Date: January 1, 2011
Expiration Date: December 31, 2015

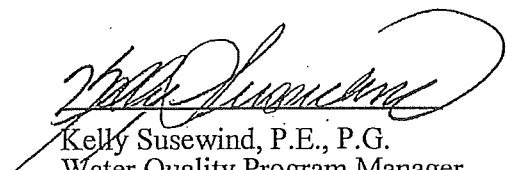
CONSTRUCTION STORMWATER GENERAL PERMIT

National Pollutant Discharge Elimination System (NPDES) and State Waste Discharge General
Permit for Stormwater Discharges Associated with Construction Activity

State of Washington
Department of Ecology
Olympia, Washington 98504

In compliance with the provisions of
Chapter 90.48 Revised Code of Washington
(State of Washington Water Pollution Control Act)
and
Title 33 United States Code, Section 1251 et seq.
The Federal Water Pollution Control Act (The Clean Water Act)

Until this permit expires, is modified or revoked, Permittees that have properly obtained
coverage under this general permit are authorized to discharge in accordance with the special and
general conditions that follow.



Kelly Susewind, P.E., P.G.
Water Quality Program Manager
Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions within this permit for additional submittal requirements. Appendix A provides a list of definitions. Appendix B provides a list of acronyms.

Table 1. Summary of Permit Report Submittals

Permit Section	Submittal	Frequency	First Submittal Date
S5.A and S8	High Turbidity/Transparency Phone Reporting	As Necessary	Within 24 hours
S5.B	Discharge Monitoring Report	Monthly*	Within 15 days of applicable monitoring period
S5.F and S8	Noncompliance Notification	As necessary	Immediately
S5.F	Noncompliance Notification – Written Report	As necessary	Within 5 Days of non-compliance
G2.	Notice of Change in Authorization	As necessary	
G6.	Permit Application for Substantive Changes to the Discharge	As necessary	
G8.	Application for Permit Renewal	1/permit cycle	No later than 180 days before expiration
G9.	Notice of Permit Transfer	As necessary	
G20.	Notice of Planned Changes	As necessary	
G22.	Reporting Anticipated Non-compliance	As necessary	

SPECIAL NOTE: *Permittees must submit Discharge Monitoring Reports (DMRs) to the Washington State Department of Ecology monthly, regardless of site discharge, for the full duration of permit coverage. Refer to Section S5.B of this General Permit for more specific information regarding DMRs.

Table 2. Summary of Required On-site Documentation

Document Title	Permit Conditions
Permit Coverage Letter	See Conditions S2, S5
Construction Stormwater General Permit	See Conditions S2, S5
Site Log Book	See Conditions S4, S5
Stormwater Pollution Prevention Plan (SWPPP)	See Conditions S9, S5

SPECIAL CONDITIONS

S1. PERMIT COVERAGE

A. Permit Area

This Construction Stormwater General Permit (CSWGP) covers all areas of Washington State, except for federal and Tribal lands as specified in Special Condition S1.E.3.

B. Operators Required to Seek Coverage Under this General Permit:

1. Operators of the following construction activities are required to seek coverage under this CSWGP:
 - a. Clearing, grading and/or excavation that results in the disturbance of one or more acres and discharges stormwater to surface waters of the State; and clearing, grading and/or excavation on sites smaller than one acre that are part of a larger common plan of development or sale, if the common plan of development or sale will ultimately disturb one acre or more and discharge stormwater to surface waters of the State.
 - i. This includes forest practices (including, but not limited to, class IV conversions) that are part of a construction activity that will result in the disturbance of one or more acres, and discharge to surface waters of the State (that is, forest practices that prepare a site for construction activities); and
 - b. Any size construction activity discharging stormwater to waters of the State that the Department of Ecology ("Ecology"):
 - i. Determines to be a significant contributor of pollutants to waters of the State of Washington.
 - ii. Reasonably expects to cause a violation of any water quality standard.
2. Operators of the following activities are not required to seek coverage under this CSWGP (unless specifically required under Special Condition S1.B.1.b. above):
 - a. Construction activities that discharge all stormwater and non-stormwater to ground water, sanitary sewer, or combined sewer, and have no point source discharge to either surface water or a storm sewer system that drains to surface waters of the State.
 - b. Construction activities covered under an Erosivity Waiver (Special Condition S2.C).
 - c. Routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

C. Authorized Discharges:

1. Stormwater Associated with Construction Activity. Subject to compliance with the terms and conditions of this permit, Permittees are authorized to discharge stormwater associated with construction activity to surface waters of the State or to a storm sewer system that drains to surface waters of the State. (Note that “surface waters of the State” may exist on a construction site as well as off site; for example, a creek running through a site.)
2. Stormwater Associated with Construction Support Activity. This permit also authorizes stormwater discharge from support activities related to the permitted construction site (for example, an on-site portable rock crusher, off-site equipment staging yards, material storage areas, borrow areas, etc.) provided:
 - a. The support activity relates directly to the permitted construction site that is required to have a NPDES permit; and
 - b. The support activity is not a commercial operation serving multiple unrelated construction projects, and does not operate beyond the completion of the construction activity; and
 - c. Appropriate controls and measures are identified in the Stormwater Pollution Prevention Plan (SWPPP) for the discharges from the support activity areas.
3. Non-Stormwater Discharges. The categories and sources of non-stormwater discharges identified below are authorized conditionally, provided the discharge is consistent with the terms and conditions of this permit:
 - a. Discharges from fire-fighting activities.
 - b. Fire hydrant system flushing.
 - c. Potable water, including uncontaminated water line flushing.
 - d. Pipeline hydrostatic test water.
 - e. Uncontaminated air conditioning or compressor condensate.
 - f. Uncontaminated ground water or spring water.
 - g. Uncontaminated excavation dewatering water (in accordance with S9.D.10).
 - h. Uncontaminated discharges from foundation or footing drains.
 - i. Water used to control dust. Permittees must minimize the amount of dust control water used.
 - j. Routine external building wash down that does not use detergents.
 - k. Landscape irrigation water.

The SWPPP must adequately address all authorized non-stormwater discharges, except for discharges from fire-fighting activities, and must comply with Special

Condition S3. At a minimum, discharges from potable water (including water line flushing), fire hydrant system flushing, and pipeline hydrostatic test water must undergo the following: dechlorination to a concentration of 0.1 parts per million (ppm) or less, and pH adjustment to within 6.5 – 8.5 standard units (su), if necessary.

D. Prohibited Discharges:

The following discharges to waters of the State, including ground water, are prohibited.

1. Concrete wastewater.
2. Wastewater from washout and clean-up of stucco, paint, form release oils, curing compounds and other construction materials.
3. Process wastewater as defined by 40 Code of Federal Regulations (CFR) 122.1 (see Appendix A of this permit).
4. Slurry materials and waste from shaft drilling.
5. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
6. Soaps or solvents used in vehicle and equipment washing.
7. Wheel wash wastewater, unless discharged according to Special Condition S9.D.9.d.
8. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, unless managed according to Special Condition S9.D.10.

E. Limits on Coverage

Ecology may require any discharger to apply for and obtain coverage under an individual permit or another more specific general permit. Such alternative coverage will be required when Ecology determines that this CSWGP does not provide adequate assurance that water quality will be protected, or there is a reasonable potential for the project to cause or contribute to a violation of water quality standards.

The following stormwater discharges are not covered by this permit:

1. Post-construction stormwater discharges that originate from the site after completion of construction activities and the site has undergone final stabilization.
2. Non-point source silvicultural activities such as nursery operations, site preparation, reforestation and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance, from which there is natural runoff as excluded in 40 CFR Subpart 122.
3. Stormwater from any federal project or project on federal land or land within an Indian Reservation except for the Puyallup Reservation. Within the Puyallup

Reservation, any project that discharges to surface water on land held in trust by the federal government may be covered by this permit.

4. Stormwater from any site covered under an existing NPDES individual permit in which stormwater management and/or treatment requirements are included for all stormwater discharges associated with construction activity.
5. Stormwater from a site where an applicable Total Maximum Daily Load (TMDL) requirement specifically precludes or prohibits discharges from construction activity.

S2. APPLICATION REQUIREMENTS

A. Permit Application Forms

1. Notice of Intent Form/Timeline

- a. Operators of new or previously unpermitted construction activities must submit a complete and accurate permit application (Notice of Intent, or NOI) to Ecology.
- b. The operator must submit the NOI at least 60 days before discharging stormwater from construction activities and must submit it on or before the date of the first public notice (see Special Condition S2.B below for details). The 30-day public comment period required by WAC 173-226-130(5) begins on the publication date of the second public notice. Unless Ecology responds to the complete application in writing, based on public comments, or any other relevant factors, coverage under the general permit will automatically commence on the thirty-first day following receipt by Ecology of a completed NOI, or the issuance date of this permit, whichever is later, unless Ecology specifies a later date in writing.
- c. Applicants who propose to discharge to a storm or sewer system operated by Seattle, King County, Snohomish County, Tacoma, Pierce County, or Clark County must also submit a copy of the NOI to the appropriate jurisdiction.
- d. If an applicant intends to use a Best Management Practice (BMP) selected on the basis of Special Condition S9.C.4 (“demonstrably equivalent” BMPs), the applicant must notify Ecology of its selection as part of the NOI. In the event the applicant selects BMPs after submission of the NOI, it must provide notice of the selection of an equivalent BMP to Ecology at least 60 days before intended use of the equivalent BMP.
- e. Permittees must notify Ecology regarding any changes to the information provided on the NOI by submitting an updated NOI. Examples of such changes include, but are not limited to,
 - i. changes to the Permittee’s mailing address,
 - ii. changes to the on-site contact person information, and

iii. changes to the area/acreage affected by construction activity.

2. Transfer of Coverage Form

The Permittee can transfer current coverage under this permit to one or more new operators, including operators of sites within a Common Plan of Development, provided the Permittee submits a Transfer of Coverage Form in accordance with General Condition G9. Transfers do not require public notice.

B. Public Notice

For new or previously unpermitted construction activities, the applicant must publish a public notice at least one time each week for two consecutive weeks, at least 7 days apart, in a newspaper with general circulation in the county where the construction is to take place. The notice must contain:

1. A statement that "The applicant is seeking coverage under the Washington State Department of Ecology's Construction Stormwater NPDES and State Waste Discharge General Permit."
2. The name, address and location of the construction site.
3. The name and address of the applicant.
4. The type of construction activity that will result in a discharge (for example, residential construction, commercial construction, etc.), and the number of acres to be disturbed.
5. The name of the receiving water(s) (that is, the surface water(s) to which the site will discharge), or, if the discharge is through a storm sewer system, the name of the operator of the system.
6. The statement: "Any persons desiring to present their views to the Washington State Department of Ecology regarding this application, or interested in Ecology's action on this application, may notify Ecology in writing no later than 30 days of the last date of publication of this notice. Ecology reviews public comments and considers whether discharges from this project would cause a measurable change in receiving water quality, and, if so, whether the project is necessary and in the overriding public interest according to Tier II antidegradation requirements under WAC 173-201A-320. Comments can be submitted to: Department of Ecology, P.O. Box 47696, Olympia, WA 98504-7696 Attn: Water Quality Program, Construction Stormwater."

C. Erosivity Waiver

Construction site operators may qualify for an erosivity waiver from the CSWGP if the following conditions are met:

1. The site will result in the disturbance of fewer than 5 acres and the site is not a portion of a common plan of development or sale that will disturb 5 acres or greater.
2. Calculation of Erosivity “R” Factor and Regional Timeframe:
 - a. The project’s rainfall erosivity factor (“R” Factor) must be less than 5 during the period of construction activity, as calculated using either the Texas A&M University online rainfall erosivity calculator at: <http://ei.tamu.edu/> or EPA's calculator at <http://cfpub.epa.gov/npdes/stormwater/lew/lewcalculator.cfm>. The period of construction activity starts when the land is first disturbed and ends with final stabilization. In addition:
 - b. The entire period of construction activity must fall within the following timeframes:
 - i. For sites west of the Cascades Crest: June 15 – September 15.
 - ii. For sites east of the Cascades Crest, excluding the Central Basin: June 15 – October 15.
 - iii. For sites east of the Cascades Crest, within the Central Basin: no additional timeframe restrictions apply. The Central Basin is defined as the portions of Eastern Washington with mean annual precipitation of less than 12 inches. For a map of the Central Basin (Region 2), refer to <http://www.ecy.wa.gov/pubs/ecy070202.pdf>.
3. Construction site operators must submit a complete Erosivity Waiver certification form at least one week before disturbing the land. Certification must include statements that the operator will:
 - a. Comply with applicable local stormwater requirements; and
 - b. Implement appropriate erosion and sediment control BMPs to prevent violations of water quality standards.
4. This waiver is not available for facilities declared significant contributors of pollutants as defined in Special Condition S1.B.1.b.
5. This waiver does not apply to construction activities which include non-stormwater discharges listed in Special Condition S1.C.3.
6. If construction activity extends beyond the certified waiver period for any reason, the operator must either:
 - a. Recalculate the rainfall erosivity “R” factor using the original start date and a new projected ending date and, if the “R” factor is still under 5 and the entire

project falls within the applicable regional timeframe in Special Condition S2.C.2.b, complete and submit an amended waiver certification form before the original waiver expires; or

- b. Submit a complete permit application to Ecology in accordance with Special Condition S2.A and B before the end of the certified waiver period.

S3. COMPLIANCE WITH STANDARDS

- A. Discharges must not cause or contribute to a violation of surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), sediment management standards (Chapter 173-204 WAC), and human health-based criteria in the National Toxics Rule (40 CFR Part 131.36). Discharges not in compliance with these standards are not authorized.
- B. Prior to the discharge of stormwater and non-stormwater to waters of the State, the Permittee must apply all known, available, and reasonable methods of prevention, control, and treatment (AKART). This includes the preparation and implementation of an adequate Stormwater Pollution Prevention Plan (SWPPP), with all appropriate BMPs installed and maintained in accordance with the SWPPP and the terms and conditions of this permit.
- C. Ecology presumes that a Permittee complies with water quality standards unless discharge monitoring data or other site-specific information demonstrates that a discharge causes or contributes to a violation of water quality standards, when the Permittee complies with the following conditions. The Permittee must fully:
 1. Comply with all permit conditions, including planning, sampling, monitoring, reporting, and recordkeeping conditions.
 2. Implement stormwater BMPs contained in stormwater management manuals published or approved by Ecology, or BMPs that are demonstrably equivalent to BMPs contained in stormwater technical manuals published or approved by Ecology, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs for on-site pollution control. (For purposes of this section, the stormwater manuals listed in Appendix 10 of the Phase I Municipal Stormwater Permit are approved by Ecology.)
- D. Where construction sites also discharge to ground water, the ground water discharges must also meet the terms and conditions of this CSWGP. Permittees who discharge to ground water through an injection well must also comply with any applicable requirements of the Underground Injection Control (UIC) regulations, Chapter 173-218 WAC.

S4. MONITORING REQUIREMENTS, BENCHMARKS AND REPORTING TRIGGERS

Table 3. Summary of Primary Monitoring Requirements

Size of Soil Disturbance ¹	Weekly Site Inspections	Weekly Sampling w/ Turbidity Meter	Weekly Sampling w/ Transparency Tube	Weekly pH Sampling ²	Requires CESCL Certification?
Sites that disturb less than 1 acre, but are part of a larger Common Plan of Development	Required	Not Required	Not Required	Not Required	No
Sites that disturb 1 acre or more, but fewer than 5 acres	Required	Sampling Required – either method ³		Required	Yes
Sites that disturb 5 acres or more	Required	Required	Not Required ⁴	Required	Yes

A. Site Log Book

The Permittee must maintain a site log book that contains a record of the implementation of the SWPPP and other permit requirements, including the installation and maintenance of BMPs, site inspections, and stormwater monitoring.

B. Site Inspections

The Permittee's (operator's) site inspections must include all areas disturbed by construction activities, all BMPs, and all stormwater discharge points. (See Special Conditions S4.B.3 and B.4 below for detailed requirements of the Permittee's Certified Erosion and Sediment Control Lead [CESCL]).

¹ Soil disturbance is calculated by adding together all areas affected by construction activity. Construction activity means clearing, grading, excavation, and any other activity that disturbs the surface of the land, including ingress/egress from the site.

² If construction activity results in the disturbance of 1 acre or more, and involves significant concrete work (1,000 cubic yards of poured or recycled concrete over the life of a project) or the use of engineered soils (soil amendments including but not limited to Portland cement-treated base [CTB], cement kiln dust [CKD], or fly ash), and stormwater from the affected area drains to surface waters of the State or to a storm sewer stormwater collection system that drains to other surface waters of the State, the Permittee must conduct pH monitoring sampling in accordance with Special Condition S4.D.

³ Sites with one or more acres, but fewer than 5 acres of soil disturbance, must conduct turbidity or transparency sampling in accordance with Special Condition S4.C.

⁴ Sites equal to or greater than 5 acres of soil disturbance must conduct turbidity sampling using a turbidity meter in accordance with Special Condition S4.C.

Construction sites one acre or larger that discharge stormwater to surface waters of the State must have site inspections conducted by a certified CESCL. Sites less than one acre may have a person without CESCL certification conduct inspections; sampling is not required on sites that disturb less than an acre.

1. The Permittee must examine stormwater visually for the presence of suspended sediment, turbidity, discoloration, and oil sheen. The Permittee must evaluate the effectiveness of BMPs and determine if it is necessary to install, maintain, or repair BMPs to improve the quality of stormwater discharges.

Based on the results of the inspection, the Permittee must correct the problems identified by:

- a. Reviewing the SWPPP for compliance with Special Condition S9 and making appropriate revisions within 7 days of the inspection.
 - b. Immediately beginning the process of fully implementing and maintaining appropriate source control and/or treatment BMPs as soon as possible, addressing the problems no later than within 10 days of the inspection. If installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when an extension is requested by a Permittee within the initial 10-day response period.
 - c. Documenting BMP implementation and maintenance in the site log book.
2. The Permittee must inspect all areas disturbed by construction activities, all BMPs, and all stormwater discharge points at least once every calendar week and within 24 hours of any discharge from the site. (For purposes of this condition, individual discharge events that last more than one day do not require daily inspections. For example, if a stormwater pond discharges continuously over the course of a week, only one inspection is required that week.) The Permittee may reduce the inspection frequency for temporarily stabilized, inactive sites to once every calendar month.
 3. The Permittee must have staff knowledgeable in the principles and practices of erosion and sediment control. The CESCL (sites one acre or more) or inspector (sites less than one acre) must have the skills to assess the:
 - a. Site conditions and construction activities that could impact the quality of stormwater, and
 - b. Effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.
 4. The SWPPP must identify the CESCL or inspector, who must be present on site or on-call at all times. The CESCL must obtain this certification through an approved erosion and sediment control training program that meets the minimum training standards established by Ecology (see BMP C160 in the manual referred to in Special Condition S9.C.1 and 2).

5. The Permittee must summarize the results of each inspection in an inspection report or checklist and enter the report/checklist into, or attach it to, the site log book. At a minimum, each inspection report or checklist must include:
 - a. Inspection date and time.
 - b. Weather information, the general conditions during inspection and the approximate amount of precipitation since the last inspection, and precipitation within the last 24 hours.
 - c. A summary or list of all implemented BMPs, including observations of all erosion/sediment control structures or practices.
 - d. A description of the locations:
 - i. Of BMPs inspected.
 - ii. Of BMPs that need maintenance and why.
 - iii. Of BMPs that failed to operate as designed or intended, and
 - iv. Where additional or different BMPs are needed, and why.
 - e. A description of stormwater discharged from the site. The Permittee must note the presence of suspended sediment, turbidity, discoloration, and oil sheen, as applicable.
 - f. Any water quality monitoring performed during inspection.
 - g. General comments and notes, including a brief description of any BMP repairs, maintenance or installations made following the inspection.
 - h. A summary report and a schedule of implementation of the remedial actions that the Permittee plans to take if the site inspection indicates that the site is out of compliance. The remedial actions taken must meet the requirements of the SWPPP and the permit.
 - i. The name, title, and signature of the person conducting the site inspection, a phone number or other reliable method to reach this person, and the following statement: "I certify that this report is true, accurate, and complete to the best of my knowledge and belief."

C. Turbidity/Transparency Sampling Requirements

1. Sampling Methods
 - a. If construction activity involves the disturbance of 5 acres or more, the Permittee must conduct turbidity sampling per Special Condition S4.C.
 - b. If construction activity involves 1 acre or more but fewer than 5 acres of soil disturbance, the Permittee must conduct either transparency sampling **or** turbidity sampling per Special Condition S4.C.

2. Sampling Frequency
 - a. The Permittee must sample all discharge locations at least once every calendar week when stormwater (or authorized non-stormwater) discharges from the site or enters any on-site surface waters of the state (for example, a creek running through a site).
 - b. Samples must be representative of the flow and characteristics of the discharge.
 - c. Sampling is not required when there is no discharge during a calendar week.
 - d. Sampling is not required outside of normal working hours or during unsafe conditions.
 - e. If the Permittee is unable to sample during a monitoring period, the Permittee must include a brief explanation in the monthly Discharge Monitoring Report (DMR).
 - f. Sampling is not required before construction activity begins.
3. Sampling Locations
 - a. Sampling is required at all points where stormwater associated with construction activity (or authorized non-stormwater) is discharged off site, including where it enters any on-site surface waters of the state (for example, a creek running through a site).
 - b. The Permittee may discontinue sampling at discharge points that drain areas of the project that are fully stabilized to prevent erosion.
 - c. The Permittee must identify all sampling point(s) on the SWPPP site map and clearly mark these points in the field with a flag, tape, stake or other visible marker.
 - d. Sampling is not required for discharge that is sent directly to sanitary or combined sewer systems.
4. Sampling and Analysis Methods
 - a. The Permittee performs turbidity analysis with a calibrated turbidity meter (turbidimeter) either on site or at an accredited lab. The Permittee must record the results in the site log book in nephelometric turbidity units (NTU).
 - b. The Permittee performs transparency analysis on site with a 1¼-inch-diameter, 60-centimeter (cm)-long transparency tube. The Permittee will record the results in the site log book in centimeters (cm). Transparency tubes are available from: <http://watermonitoringequip.com/pages/stream.html>.

Table 4. Monitoring and Reporting Requirements

Parameter	Unit	Analytical Method	Sampling Frequency	Benchmark Value	Phone Reporting Trigger Value
Turbidity	NTU	SM2130 or EPA 180.1	Weekly, if discharging	25 NTU	250 NTU
Transparency	cm	Manufacturer instructions, or Ecology guidance	Weekly, if discharging	33 cm	6 cm

5. Turbidity/Transparency Benchmark Values and Reporting Triggers

The benchmark value for turbidity is 25 NTU or less. The benchmark value for transparency is 33 centimeters (cm). Note: Benchmark values do not apply to discharges to segments of water bodies on Washington State’s 303(d) list (Category 5) for turbidity, fine sediment, or phosphorus; these discharges are subject to a numeric effluent limit for turbidity. Refer to Special Condition S8 for more information.

a. Turbidity 26 – 249 NTU, or Transparency 32 – 7 cm:

If the discharge turbidity is 26 to 249 NTU; or if discharge transparency is less than 33 cm, but equal to or greater than 6 cm, the Permittee must:

- i. Review the SWPPP for compliance with Special Condition S9 and make appropriate revisions within 7 days of the date the discharge exceeded the benchmark.
- ii. Immediately begin the process to fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, addressing the problems within 10 days of the date the discharge exceeded the benchmark. If installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when the Permittee requests an extension within the initial 10-day response period.
- iii. Document BMP implementation and maintenance in the site log book.

b. Turbidity 250 NTU or greater, or Transparency 6 cm or less:

If a discharge point’s turbidity is 250 NTU or greater, or if discharge transparency is less than or equal to 6 cm, the Permittee must complete the reporting and adaptive management process described below.

- i. Telephone the applicable Ecology Region’s Environmental Report Tracking System (ERTS) number within 24 hours, in accordance with Special Condition S5.F.
 - Central Region (Okanogan, Chelan, Douglas, Kittitas, Yakima, Klickitat, Benton): (509) 575-2490

- Eastern Region (Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman): (509) 329-3400
- Northwest Region (Kitsap, Snohomish, Island, King, San Juan, Skagit, Whatcom): (425) 649-7000
- Southwest Region (Grays Harbor, Lewis, Mason, Thurston, Pierce, Clark, Cowlitz, Skamania, Wahkiakum, Clallam, Jefferson, Pacific): (360) 407-6300

These numbers are also listed at the following web site:

<http://www.ecy.wa.gov/programs/wq/stormwater/construction/permit.html>

- ii. Review the SWPPP for compliance with Special Condition S9 and make appropriate revisions within 7 days of the date the discharge exceeded the benchmark.
- iii. Immediately begin the process to fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, addressing the problems within 10 days of the date the discharge exceeded the benchmark. If installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when the Permittee requests an extension within the initial 10-day response period.
- iv. Document BMP implementation and maintenance in the site log book.
- v. Continue to sample discharges daily until:
 - a) Turbidity is 25 NTU (or lower); or
 - b) Transparency is 33 cm (or greater); or
 - c) The Permittee has demonstrated compliance with the water quality limit for turbidity:
 - 1) No more than 5 NTU over background turbidity, if background is less than 50 NTU, or
 - 2) No more than 10% over background turbidity, if background is 50 NTU or greater; or
 - d) The discharge stops or is eliminated.

D. pH Sampling Requirements -- Significant Concrete Work or Engineered Soils

If construction activity results in the disturbance of 1 acre or more, **and** involves significant concrete work (significant concrete work means greater than 1000 cubic yards poured concrete or recycled concrete used over the life of a project) or the use of engineered soils (soil amendments including but not limited to Portland cement-treated base [CTB], cement kiln dust [CKD], or fly ash), and stormwater from the affected area

drains to surface waters of the State or to a storm sewer system that drains to surface waters of the state, the Permittee must conduct pH monitoring as set forth below. Note: In addition, discharges to segments of water bodies on Washington State's 303(d) list (Category 5) for high pH are subject to a numeric effluent limit for pH; refer to Special Condition S8.

1. For sites with significant concrete work, the Permittee must begin the pH monitoring period when the concrete is first poured and exposed to precipitation, and continue weekly throughout and after the concrete pour and curing period, until stormwater pH is in the range of 6.5 to 8.5 (su).
2. For sites with engineered soils, the Permittee must begin the pH monitoring period when the soil amendments are first exposed to precipitation and must continue until the area of engineered soils is fully stabilized.
3. During the applicable pH monitoring period defined above, the Permittee must obtain a representative sample of stormwater and conduct pH analysis at least once per week.
4. The Permittee must monitor pH in the sediment trap/pond(s) or other locations that receive stormwater runoff from the area of significant concrete work or engineered soils before the stormwater discharges to surface waters.
5. The benchmark value for pH is 8.5 standard units. Anytime sampling indicates that pH is 8.5 or greater, the Permittee must either:
 - a. Prevent the high pH water (8.5 or above) from entering storm sewer systems or surface waters; or
 - b. If necessary, adjust or neutralize the high pH water until it is in the range of pH 6.5 to 8.5 (su) using an appropriate treatment BMP such as carbon dioxide (CO₂) sparging or dry ice. The Permittee must obtain written approval from Ecology before using any form of chemical treatment other than CO₂ sparging or dry ice.
6. The Permittee must perform pH analysis on site with a calibrated pH meter, pH test kit, or wide range pH indicator paper. The Permittee must record pH monitoring results in the site log book.

S5. REPORTING AND RECORDKEEPING REQUIREMENTS

A. High Turbidity Phone Reporting

Anytime sampling performed in accordance with Special Condition S4.C indicates turbidity has reached the 250 NTU phone reporting level, the Permittee must call Ecology's Regional office by phone within 24 hours of analysis. The web site is <http://www.ecy.wa.gov/programs/wq/stormwater/construction/permit.html>. Also see phone numbers in Special Condition S4.C.5.b.i.

B. Discharge Monitoring Reports

Permittees required to conduct water quality sampling in accordance with Special Conditions S4.C (Turbidity/Transparency), S4.D (pH), S8 (303[d]/TMDL sampling), and/or G13 (Additional Sampling) must submit the results to Ecology.

Permittees must submit monitoring data using Ecology's WebDMR program. To find out more information and to sign up for WebDMR go to:

<http://www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html>.

Permittees unable to submit electronically (for example, those who do not have an internet connection) must contact Ecology to request a waiver and obtain instructions on how to obtain a paper copy DMR at:

Mailing Address:

Department of Ecology

Water Quality Program

Attn: Stormwater Compliance Specialist

PO Box 47696

Olympia, WA 98504-7696

Permittees who obtain a waiver not to use WebDMR must use the forms provided to them by Ecology; submittals must be mailed to the address above. Permittees shall submit DMR forms to be received by Ecology within 15 days following the end of each month.

If there was no discharge during a given monitoring period, all Permittees must submit a DMR as required with "no discharge" entered in place of the monitoring results. For more information, contact Ecology staff using information provided at the following web site: <http://www.ecy.wa.gov/programs/spills/response/assistancesoil%20map.pdf>

C. Records Retention

The Permittee must retain records of all monitoring information (site log book, sampling results, inspection reports/checklists, etc.), Stormwater Pollution Prevention Plan, and any other documentation of compliance with permit requirements for the entire life of the construction project and for a minimum of three years following the termination of permit coverage. Such information must include all calibration and maintenance records, and records of all data used to complete the application for this

permit. This period of retention must be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

D. Recording Results

For each measurement or sample taken, the Permittee must record the following information:

1. Date, place, method, and time of sampling or measurement.
2. The first and last name of the individual who performed the sampling or measurement.
3. The date(s) the analyses were performed.
4. The first and last name of the individual who performed the analyses.
5. The analytical techniques or methods used.
6. The results of all analyses.

E. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Special Condition S4 of this permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the Permittee's DMR.

F. Noncompliance Notification

In the event the Permittee is unable to comply with any part of the terms and conditions of this permit, and the resulting noncompliance may cause a threat to human health or the environment, the Permittee must:

1. Immediately notify Ecology of the failure to comply by calling the applicable Regional office ERTS phone number (find at <http://www.ecy.wa.gov/programs/spills/response/assistancesoil%20map.pdf>) or refer to Special Condition S4.C.5.b.i.
2. Immediately take action to prevent the discharge/pollution, or otherwise stop or correct the noncompliance, and, if applicable, repeat sampling and analysis of any noncompliance immediately and submit the results to Ecology within five (5) days of becoming aware of the violation.
3. Submit a detailed written report to Ecology within five (5) days, unless requested earlier by Ecology. The report must contain a description of the noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Permittee must report any unanticipated bypass and/or upset that exceeds any effluent limit in the permit in accordance with the 24-hour reporting requirement contained in 40 C.F.R. 122.41(1)(6)).

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply. Refer to Section G14 of this permit for specific information regarding non-compliance.

G. Access to Plans and Records

1. The Permittee must retain the following permit documentation (plans and records) on site, or within reasonable access to the site, for use by the operator or for on-site review by Ecology or the local jurisdiction:
 - a. General Permit.
 - b. Permit Coverage Letter.
 - c. Stormwater Pollution Prevention Plan (SWPPP).
 - d. Site Log Book.
2. The Permittee must address written requests for plans and records listed above (Special Condition S5.G.1) as follows:
 - a. The Permittee must provide a copy of plans and records to Ecology within 14 days of receipt of a written request from Ecology.
 - b. The Permittee must provide a copy of plans and records to the public when requested in writing. Upon receiving a written request from the public for the Permittee's plans and records, the Permittee must either:
 - i. Provide a copy of the plans and records to the requester within 14 days of a receipt of the written request; or
 - ii. Notify the requester within 10 days of receipt of the written request of the location and times within normal business hours when the plans and records may be viewed; and provide access to the plans and records within 14 days of receipt of the written request; or

Within 14 days of receipt of the written request, the Permittee may submit a copy of the plans and records to Ecology for viewing and/or copying by the requester at an Ecology office, or a mutually agreed location. If plans and records are viewed and/or copied at a location other than at an Ecology office, the Permittee will provide reasonable access to copying services for which a reasonable fee may be charged. The Permittee must notify the requester within 10 days of receipt of the request where the plans and records may be viewed and/or copied.

S6. PERMIT FEES

The Permittee must pay permit fees assessed by Ecology. Fees for stormwater discharges covered under this permit are established by Chapter 173-224 WAC. Ecology continues to assess permit fees until the permit is terminated in accordance with Special Condition S10 or revoked in accordance with General Condition G5.

S7. SOLID AND LIQUID WASTE DISPOSAL

The Permittee must handle and dispose of solid and liquid wastes generated by construction activity, such as demolition debris, construction materials, contaminated materials, and waste materials from maintenance activities, including liquids and solids from cleaning catch basins and other stormwater facilities, in accordance with:

- A. Special Condition S3, Compliance with Standards.
- B. WAC 173-216-110.
- C. Other applicable regulations.

S8. DISCHARGES TO 303(D) OR TMDL WATER BODIES

A. Sampling and Numeric Effluent Limits For Certain Discharges to 303(d)-listed Water Bodies

- 1. Permittees who discharge to segments of water bodies listed as impaired by the State of Washington under Section 303(d) of the Clean Water Act for turbidity, fine sediment, high pH, or phosphorus, must conduct water quality sampling according to the requirements of this section, and Special Conditions S4.C.2.b-f and S4.C.3.b-d, and must comply with the applicable numeric effluent limitations in S8.C and S8.D.
- 2. All references and requirements associated with Section 303(d) of the Clean Water Act mean the most current listing by Ecology of impaired waters (Category 5) that exists on January 1, 2011, or the date when the operator's complete permit application is received by Ecology, whichever is later.

B. Limits on Coverage for New Discharges to TMDL or 303(d)-listed Waters

Operators of construction sites that discharge to a 303(d)-listed water body are not eligible for coverage under this permit *unless* the operator:

- 1. Prevents exposing stormwater to pollutants for which the water body is impaired, and retains documentation in the SWPPP that details procedures taken to prevent exposure on site; or
- 2. Documents that the pollutants for which the water body is impaired are not present at the site, and retains documentation of this finding within the SWPPP; or

3. Provides Ecology with data indicating the discharge is not expected to cause or contribute to an exceedance of a water quality standard, and retains such data on site with the SWPPP. The operator must provide data and other technical information to Ecology that sufficiently demonstrate:
 - a. For discharges to waters without an EPA-approved or -established TMDL, that the discharge of the pollutant for which the water is impaired will meet in-stream water quality criteria at the point of discharge to the water body; or
 - b. For discharges to waters with an EPA-approved or -established TMDL, that there is sufficient remaining wasteload allocation in the TMDL to allow construction stormwater discharge and that existing dischargers to the water body are subject to compliance schedules designed to bring the water body into attainment with water quality standards.

Operators of construction sites are eligible for coverage under this permit if Ecology issues permit coverage based upon an affirmative determination that the discharge will not cause or contribute to the existing impairment.

C. Sampling and Numeric Effluent Limits for Discharges to Water Bodies on the 303(d) List for Turbidity, Fine Sediment, or Phosphorus

1. Permittees who discharge to segments of water bodies on the 303(d) list (Category 5) for turbidity, fine sediment, or phosphorus must conduct turbidity sampling in accordance with Special Condition S4.C.2 and comply with either of the numeric effluent limits noted in Table 5 below.
2. As an alternative to the 25 NTU effluent limit noted in Table 5 below (applied at the point where stormwater [or authorized non-stormwater] is discharged off-site), permittees may choose to comply with the surface water quality standard for turbidity. The standard is: no more than 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or no more than a 10% increase in turbidity when the background turbidity is more than 50 NTU. In order to use the water quality standard requirement, the sampling must take place at the following locations:
 - a. Background turbidity in the 303(d)-listed receiving water immediately upstream (upgradient) or outside the area of influence of the discharge.
 - b. Turbidity at the point of discharge into the 303(d)-listed receiving water, inside the area of influence of the discharge.
3. Discharges that exceed the numeric effluent limit for turbidity constitute a violation of this permit.
4. Permittees whose discharges exceed the numeric effluent limit shall sample discharges daily until the violation is corrected and comply with the non-compliance notification requirements in Special Condition S5.F.

Table 5. Turbidity, Fine Sediment & Phosphorus Sampling and Limits for 303(d)-Listed Waters

Parameter identified in 303(d) listing	Parameter Sampled	Unit	Analytical Method	Sampling Frequency	Numeric Effluent Limit ¹
<ul style="list-style-type: none"> • Turbidity • Fine Sediment • Phosphorus 	Turbidity	NTU	SM2130 or EPA180.1	Weekly, if discharging	25 NTU, at the point where stormwater is discharged from the site; OR In compliance with the surface water quality standard for turbidity (S8.C.1.a)

¹Permittees subject to a numeric effluent limit for turbidity may, at their discretion, choose either numeric effluent limitation based on site-specific considerations including, but not limited to, safety, access and convenience.

D. Discharges to Water Bodies on the 303(d) List for High pH

1. Permittees who discharge to segments of water bodies on the 303(d) list (Category 5) for high pH must conduct pH sampling in accordance with the table below, and comply with the numeric effluent limit of pH 6.5 to 8.5 su (Table 6).

Table 6. pH Sampling and Limits for 303(d)-Listed Waters

Parameter identified in 303(d) listing	Parameter Sampled/Units	Analytical Method	Sampling Frequency	Numeric Effluent Limit
High pH	pH /Standard Units	pH meter	Weekly, if discharging	In the range of 6.5 – 8.5

2. At the Permittee's discretion, compliance with the limit shall be assessed at one of the following locations:
 - a. Directly in the 303(d)-listed water body segment, inside the immediate area of influence of the discharge; or
 - b. Alternatively, the permittee may measure pH at the point where the discharge leaves the construction site, rather than in the receiving water.
3. Discharges that exceed the numeric effluent limit for pH (outside the range of 6.5 – 8.5 su) constitute a violation of this permit.
4. Permittees whose discharges exceed the numeric effluent limit shall sample discharges daily until the violation is corrected and comply with the non-compliance notification requirements in Special Condition S5.F.

E. Sampling and Limits for Sites Discharging to Waters Covered by a TMDL or Another Pollution Control Plan

1. Discharges to a water body that is subject to a Total Maximum Daily Load (TMDL) for turbidity, fine sediment, high pH, or phosphorus must be consistent with the TMDL. Refer to <http://www.ecy.wa.gov/programs/wq/tmdl/index.html> for more information on TMDLs.
 - a. Where an applicable TMDL sets specific waste load allocations or requirements for discharges covered by this permit, discharges must be consistent with any specific waste load allocations or requirements established by the applicable TMDL.
 - i. The Permittee must sample discharges weekly or as otherwise specified by the TMDL to evaluate compliance with the specific waste load allocations or requirements.
 - ii. Analytical methods used to meet the monitoring requirements must conform to the latest revision of the Guidelines Establishing Test Procedures for the Analysis of Pollutants contained in 40 CFR Part 136. Turbidity and pH methods need not be accredited or registered unless conducted at a laboratory which must otherwise be accredited or registered.
 - b. Where an applicable TMDL has established a general waste load allocation for construction stormwater discharges, but has not identified specific requirements, compliance with Special Conditions S4 (Monitoring) and S9 (SWPPPs) will constitute compliance with the approved TMDL.
 - c. Where an applicable TMDL has not specified a waste load allocation for construction stormwater discharges, but has not excluded these discharges, compliance with Special Conditions S4 (Monitoring) and S9 (SWPPPs) will constitute compliance with the approved TMDL.
 - d. Where an applicable TMDL specifically precludes or prohibits discharges from construction activity, the operator is not eligible for coverage under this permit.
2. Applicable TMDL means a TMDL for turbidity, fine sediment, high pH, or phosphorus that is completed and approved by EPA before January 1, 2011, or before the date the operator's complete permit application is received by Ecology, whichever is later. TMDLs completed after the operator's complete permit application is received by Ecology become applicable to the Permittee only if they are imposed through an administrative order by Ecology, or through a modification of permit coverage.

S9. STORMWATER POLLUTION PREVENTION PLAN

The Permittee must prepare and properly implement an adequate Stormwater Pollution Prevention Plan (SWPPP) for construction activity in accordance with the requirements of this permit beginning with initial soil disturbance and until final stabilization.

A. The Permittee's SWPPP must meet the following objectives:

1. To implement best management practices (BMPs) to prevent erosion and sedimentation, and to identify, reduce, eliminate or prevent stormwater contamination and water pollution from construction activity.
2. To prevent violations of surface water quality, ground water quality, or sediment management standards.
3. To control peak volumetric flow rates and velocities of stormwater discharges.

B. General Requirements

1. The SWPPP must include a narrative and drawings. All BMPs must be clearly referenced in the narrative and marked on the drawings. The SWPPP narrative must include documentation to explain and justify the pollution prevention decisions made for the project. Documentation must include:
 - a. Information about existing site conditions (topography, drainage, soils, vegetation, etc.).
 - b. Potential erosion problem areas.
 - c. The 12 elements of a SWPPP in Special Condition S9.D.1-12, including BMPs used to address each element.
 - d. Construction phasing/sequence and general BMP implementation schedule.
 - e. The actions to be taken if BMP performance goals are not achieved—for example, a contingency plan for additional treatment and/or storage of stormwater that would violate the water quality standards if discharged.
 - f. Engineering calculations for ponds and any other designed structures.
2. The Permittee must modify the SWPPP if, during inspections or investigations conducted by the owner/operator, or the applicable local or state regulatory authority, it is determined that the SWPPP is, or would be, ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site. The Permittee must then:
 - a. Review the SWPPP for compliance with Special Condition S9 and make appropriate revisions within 7 days of the inspection or investigation.
 - b. Immediately begin the process to fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, addressing the problems no later than 10 days from the inspection or investigation. If

installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when an extension is requested by a Permittee within the initial 10-day response period,

- c. Document BMP implementation and maintenance in the site log book.

The Permittee must modify the SWPPP whenever there is a change in design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the State.

C. Stormwater Best Management Practices (BMPs)

BMPs must be consistent with:

1. Stormwater Management Manual for Western Washington (most recent edition), for sites west of the crest of the Cascade Mountains; or
2. Stormwater Management Manual for Eastern Washington (most recent edition), for sites east of the crest of the Cascade Mountains; or
3. Revisions to the manuals listed in Special Condition S9.C.1. & 2., or other stormwater management guidance documents or manuals which provide an equivalent level of pollution prevention, that are approved by Ecology and incorporated into this permit in accordance with the permit modification requirements of WAC 173-226-230; or
4. Documentation in the SWPPP that the BMPs selected provide an equivalent level of pollution prevention, compared to the applicable Stormwater Management Manuals, including:
 - a. The technical basis for the selection of all stormwater BMPs (scientific, technical studies, and/or modeling) that support the performance claims for the BMPs being selected.
 - b. An assessment of how the selected BMP will satisfy AKART requirements and the applicable federal technology-based treatment requirements under 40 CFR part 125.3.

D. SWPPP – Narrative Contents and Requirements

The Permittee must include each of the 12 elements below in Special Condition S9.D.1-12 in the narrative of the SWPPP and implement them unless site conditions render the element unnecessary and the exemption from that element is clearly justified in the SWPPP.

1. Preserve Vegetation/Mark Clearing Limits
 - a. Before beginning land-disturbing activities, including clearing and grading, clearly mark all clearing limits, sensitive areas and their buffers, and trees that are to be preserved within the construction area.

- b. Retain the duff layer, native top soil, and natural vegetation in an undisturbed state to the maximum degree practicable.
2. Establish Construction Access
- a. Limit construction vehicle access and exit to one route, if possible.
 - b. Stabilize access points with a pad of quarry spalls, crushed rock, or other equivalent BMPs, to minimize tracking sediment onto roads.
 - c. Locate wheel wash or tire baths on site, if the stabilized construction entrance is not effective in preventing tracking sediment onto roads.
 - d. If sediment is tracked off site, clean the affected roadway thoroughly at the end of each day, or more frequently as necessary (for example, during wet weather). Remove sediment from roads by shoveling, sweeping, or pickup and transport of the sediment to a controlled sediment disposal area.
 - e. Conduct street washing only after sediment removal in accordance with Special Condition S9.D.2.d. Control street wash wastewater by pumping back on site or otherwise preventing it from discharging into systems tributary to waters of the State.
3. Control Flow Rates
- a. Protect properties and waterways downstream of development sites from erosion and the associated discharge of turbid waters due to increases in the velocity and peak volumetric flow rate of stormwater runoff from the project site, as required by local plan approval authority.
 - b. Where necessary to comply with Special Condition S9.D.3.a, construct stormwater retention or detention facilities as one of the first steps in grading. Assure that detention facilities function properly before constructing site improvements (for example, impervious surfaces).
 - c. If permanent infiltration ponds are used for flow control during construction, protect these facilities from siltation during the construction phase.
4. Install Sediment Controls
- The Permittee must design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, the Permittee must design, install and maintain such controls to:
- a. Construct sediment control BMPs (sediment ponds, traps, filters, etc.) as one of the first steps in grading. These BMPs must be functional before other land disturbing activities take place.
 - b. Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of

resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site.

- c. Direct stormwater runoff from disturbed areas through a sediment pond or other appropriate sediment removal BMP, before the runoff leaves a construction site or before discharge to an infiltration facility. Runoff from fully stabilized areas may be discharged without a sediment removal BMP, but must meet the flow control performance standard of Special Condition S9.D.3.a.
- d. Locate BMPs intended to trap sediment on site in a manner to avoid interference with the movement of juvenile salmonids attempting to enter off-channel areas or drainages.
- e. Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas to increase sediment removal and maximize stormwater infiltration, unless infeasible.
- f. Where feasible, design outlet structures that withdraw impounded stormwater from the surface to avoid discharging sediment that is still suspended lower in the water column.

5. Stabilize Soils

- a. The Permittee must stabilize exposed and unworked soils by application of effective BMPs that prevent erosion. Applicable BMPs include, but are not limited to: temporary and permanent seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, soil application of polyacrylamide (PAM), the early application of gravel base on areas to be paved, and dust control.
- b. The Permittee must control stormwater volume and velocity within the site to minimize soil erosion.
- c. The Permittee must control stormwater discharges, including both peak flow rates and total stormwater volume, to minimize erosion at outlets and to minimize downstream channel and stream bank erosion.
- d. Depending on the geographic location of the project, the Permittee must not allow soils to remain exposed and unworked for more than the time periods set forth below to prevent erosion:

West of the Cascade Mountains Crest
During the dry season (May 1 - Sept. 30): 7 days
During the wet season (October 1 - April 30): 2 days

East of the Cascade Mountains Crest, except for Central Basin*
During the dry season (July 1 - September 30): 10 days
During the wet season (October 1 - June 30): 5 days

The Central Basin*, East of the Cascade Mountains Crest

During the dry Season (July 1 - September 30): 30 days

During the wet season (October 1 - June 30): 15 days

*Note: The Central Basin is defined as the portions of Eastern Washington with mean annual precipitation of less than 12 inches.

- e. The Permittee must stabilize soils at the end of the shift before a holiday or weekend if needed based on the weather forecast.
 - f. The Permittee must stabilize soil stockpiles from erosion, protected with sediment trapping measures, and where possible, be located away from storm drain inlets, waterways, and drainage channels.
 - g. The Permittee must minimize the amount of soil exposed during construction activity.
 - h. The Permittee must minimize the disturbance of steep slopes.
 - i. The Permittee must minimize soil compaction and, unless infeasible, preserve topsoil.
6. Protect Slopes
- a. The Permittee must design and construct cut-and-fill slopes in a manner to minimize erosion. Applicable practices include, but are not limited to, reducing continuous length of slope with terracing and diversions, reducing slope steepness, and roughening slope surfaces (for example, track walking).
 - b. The Permittee must divert off-site stormwater (run-on) or ground water away from slopes and disturbed areas with interceptor dikes, pipes, and/or swales. Off-site stormwater should be managed separately from stormwater generated on the site.
 - c. At the top of slopes, collect drainage in pipe slope drains or protected channels to prevent erosion.
 - i. West of the Cascade Mountains Crest: Temporary pipe slope drains must handle the peak 10-minute velocity of flow from a Type 1A, 10-year, 24-hour frequency storm for the developed condition. Alternatively, the 10-year, 1-hour flow rate predicted by an approved continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic analysis must use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas on the project site, the analysis must use the temporary or permanent project land cover condition, whichever will produce the highest flow rates. If using the Western Washington Hydrology Model (WWHM) to predict flows, bare soil areas should be modeled as "landscaped area."

- ii. East of the Cascade Mountains Crest: Temporary pipe slope drains must handle the expected peak flow velocity from a 6-month, 3-hour storm for the developed condition, referred to as the short duration storm.
 - d. Place excavated material on the uphill side of trenches, consistent with safety and space considerations.
 - e. Place check dams at regular intervals within constructed channels that are cut down a slope.
7. Protect Drain Inlets
- a. Protect all storm drain inlets made operable during construction so that stormwater runoff does not enter the conveyance system without first being filtered or treated to remove sediment.
 - b. Clean or remove and replace inlet protection devices when sediment has filled one-third of the available storage (unless a different standard is specified by the product manufacturer).
8. Stabilize Channels and Outlets
- a. Design, construct and stabilize all on-site conveyance channels to prevent erosion from the following expected peak flows:
 - i. West of the Cascade Mountains Crest: Channels must handle the peak 10-minute velocity of flow from a Type 1A, 10-year, 24-hour frequency storm for the developed condition. Alternatively, the 10-year, 1-hour flow rate indicated by an approved continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic analysis must use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas on the project site, the analysis must use the temporary or permanent project land cover condition, whichever will produce the highest flow rates. If using the WWHM to predict flows, bare soil areas should be modeled as "landscaped area."
 - ii. East of the Cascade Mountains Crest: Channels must handle the expected peak flow velocity from a 6-month, 3-hour storm for the developed condition, referred to as the short duration storm.
 - b. Provide stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches at the outlets of all conveyance systems.
9. Control Pollutants
- Design, install, implement and maintain effective pollution prevention measures to minimize the discharge of pollutants. The Permittee must:

- a. Handle and dispose of all pollutants, including waste materials and demolition debris that occur on site in a manner that does not cause contamination of stormwater.
 - b. Provide cover, containment, and protection from vandalism for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment. On-site fueling tanks must include secondary containment. Secondary containment means placing tanks or containers within an impervious structure capable of containing 110% of the volume contained in the largest tank within the containment structure. Double-walled tanks do not require additional secondary containment.
 - c. Conduct maintenance, fueling, and repair of heavy equipment and vehicles using spill prevention and control measures. Clean contaminated surfaces immediately following any spill incident.
 - d. Discharge wheel wash or tire bath wastewater to a separate on-site treatment system that prevents discharge to surface water, such as closed-loop recirculation or upland land application, or to the sanitary sewer with local sewer district approval.
 - e. Apply fertilizers and pesticides in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Follow manufacturers' label requirements for application rates and procedures.
 - f. Use BMPs to prevent contamination of stormwater runoff by pH-modifying sources. The sources for this contamination include, but are not limited to: bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, dewatering concrete vaults, concrete pumping and mixer washout waters. (Also refer to the definition for "concrete wastewater" in Appendix A--Definitions.)
 - g. Adjust the pH of stormwater if necessary to prevent violations of water quality standards.
 - h. Assure that washout of concrete trucks is performed offsite or in designated concrete washout areas only. Do not wash out concrete trucks onto the ground, or into storm drains, open ditches, streets, or streams. Do not dump excess concrete on site, except in designated concrete washout areas. Concrete spillage or concrete discharge to surface waters of the State is prohibited.
 - i. Obtain written approval from Ecology before using chemical treatment other than CO₂ or dry ice to adjust pH.
10. Control Dewatering
- a. Permittees must discharge foundation, vault, and trench dewatering water, which have characteristics similar to stormwater runoff at the site, into a

controlled conveyance system before discharge to a sediment trap or sediment pond.

- b. Permittees may discharge clean, non-turbid dewatering water, such as well-point ground water, to systems tributary to, or directly into surface waters of the State, as specified in Special Condition S9.D.8, provided the dewatering flow does not cause erosion or flooding of receiving waters. Do not route clean dewatering water through stormwater sediment ponds. Note that “surface waters of the State” may exist on a construction site as well as off site; for example, a creek running through a site.
- c. Other treatment or disposal options may include:
 - i. Infiltration.
 - ii. Transport off site in a vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute state waters.
 - iii. Ecology-approved on-site chemical treatment or other suitable treatment technologies.
 - iv. Sanitary or combined sewer discharge with local sewer district approval, if there is no other option.
 - v. Use of a sedimentation bag with discharge to a ditch or swale for small volumes of localized dewatering.
- d. Permittees must handle highly turbid or contaminated dewatering water separately from stormwater.

11. Maintain BMPs

- a. Permittees must maintain and repair all temporary and permanent erosion and sediment control BMPs as needed to assure continued performance of their intended function in accordance with BMP specifications.
- b. Permittees must remove all temporary erosion and sediment control BMPs within 30 days after achieving final site stabilization or after the temporary BMPs are no longer needed.

12. Manage the Project

- a. Phase development projects to the maximum degree practicable and take into account seasonal work limitations.
- b. Inspection and monitoring -- Inspect, maintain and repair all BMPs as needed to assure continued performance of their intended function. Conduct site inspections and monitoring in accordance with Special Condition S4.
- c. Maintaining an updated construction SWPPP -- Maintain, update, and implement the SWPPP in accordance with Special Conditions S3, S4 and S9.

E. SWPPP – Map Contents and Requirements

The Permittee's SWPPP must also include a vicinity map or general location map (for example, a USGS quadrangle map, a portion of a county or city map, or other appropriate map) with enough detail to identify the location of the construction site and receiving waters within one mile of the site.

The SWPPP must also include a legible site map (or maps) showing the entire construction site. The following features must be identified, unless not applicable due to site conditions:

1. The direction of north, property lines, and existing structures and roads.
2. Cut and fill slopes indicating the top and bottom of slope catch lines.
3. Approximate slopes, contours, and direction of stormwater flow before and after major grading activities.
4. Areas of soil disturbance and areas that will not be disturbed.
5. Locations of structural and nonstructural controls (BMPs) identified in the SWPPP.
6. Locations of off-site material, stockpiles, waste storage, borrow areas, and vehicle/equipment storage areas.
7. Locations of all surface water bodies, including wetlands.
8. Locations where stormwater or non-stormwater discharges off-site and/or to a surface water body, including wetlands.
9. Location of water quality sampling station(s), if sampling is required by state or local permitting authority.
10. Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.

S10. NOTICE OF TERMINATION

- A. The site is eligible for termination of coverage when it has met any of the following conditions:
1. The site has undergone final stabilization, the Permittee has removed all temporary BMPs (except biodegradable BMPs clearly manufactured with the intention for the material to be left in place and not interfere with maintenance or land use), and all stormwater discharges associated with construction activity have been eliminated; or
 2. All portions of the site that have not undergone final stabilization per Special Condition S10.A.1 have been sold and/or transferred (per General Condition G9), and the Permittee no longer has operational control of the construction activity; or

3. For residential construction only, the Permittee has completed temporary stabilization and the homeowners have taken possession of the residences.
- B. When the site is eligible for termination, the Permittee must submit a complete and accurate Notice of Termination (NOT) form, signed in accordance with General Condition G2, to:

Department of Ecology
Water Quality Program - Construction Stormwater
PO Box 47696
Olympia, Washington 98504-7696

The termination is effective on the date Ecology receives the NOT form, unless Ecology notifies the Permittee within 30 days that termination request is denied because the Permittee has not met the eligibility requirements in Special Condition S10.A.

Permittees transferring the property to a new property owner or operator/permittee are required to complete and submit the Notice of Transfer form to Ecology, but are not required to submit a Notice of Termination form for this type of transaction.

GENERAL CONDITIONS

G1. DISCHARGE VIOLATIONS

All discharges and activities authorized by this general permit must be consistent with the terms and conditions of this general permit. Any discharge of any pollutant more frequent than or at a level in excess of that identified and authorized by the general permit must constitute a violation of the terms and conditions of this permit.

G2. SIGNATORY REQUIREMENTS

- A. All permit applications must bear a certification of correctness to be signed:
1. In the case of corporations, by a responsible corporate officer of at least the level of vice president of a corporation;
 2. In the case of a partnership, by a general partner of a partnership;
 3. In the case of sole proprietorship, by the proprietor; or
 4. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by Ecology must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
1. The authorization is made in writing by a person described above and submitted to the Ecology.
 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.
- C. Changes to authorization. If an authorization under paragraph G2.B.2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph G2.B.2 above must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section must make the following certification:
- “I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering

information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

G3. RIGHT OF INSPECTION AND ENTRY

The Permittee must allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

- A. To enter upon the premises where a discharge is located or where any records are kept under the terms and conditions of this permit.
- B. To have access to and copy – at reasonable times and at reasonable cost -- any records required to be kept under the terms and conditions of this permit.
- C. To inspect -- at reasonable times – any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
- D. To sample or monitor – at reasonable times – any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G4. GENERAL PERMIT MODIFICATION AND REVOCATION

This permit may be modified, revoked and reissued, or terminated in accordance with the provisions of Chapter 173-226 WAC. Grounds for modification, revocation and reissuance, or termination include, but are not limited to, the following:

- A. When a change occurs in the technology or practices for control or abatement of pollutants applicable to the category of dischargers covered under this permit.
- B. When effluent limitation guidelines or standards are promulgated pursuant to the CWA or Chapter 90.48 RCW, for the category of dischargers covered under this permit.
- C. When a water quality management plan containing requirements applicable to the category of dischargers covered under this permit is approved, or
- D. When information is obtained that indicates cumulative effects on the environment from dischargers covered under this permit are unacceptable.

G5. REVOCATION OF COVERAGE UNDER THE PERMIT

Pursuant to Chapter 43.21B RCW and Chapter 173-226 WAC, the Director may terminate coverage for any discharger under this permit for cause. Cases where coverage may be terminated include, but are not limited to, the following:

- A. Violation of any term or condition of this permit.
- B. Obtaining coverage under this permit by misrepresentation or failure to disclose fully all relevant facts.
- C. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.
- D. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.
- E. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations.
- F. Nonpayment of permit fees or penalties assessed pursuant to RCW 90.48.465 and Chapter 173-224 WAC.
- G. Failure of the Permittee to satisfy the public notice requirements of WAC 173-226-130(5), when applicable.

The Director may require any discharger under this permit to apply for and obtain coverage under an individual permit or another more specific general permit. Permittees who have their coverage revoked for cause according to WAC 173-226-240 may request temporary coverage under this permit during the time an individual permit is being developed, provided the request is made within ninety (90) days from the time of revocation and is submitted along with a complete individual permit application form.

G6. REPORTING A CAUSE FOR MODIFICATION

The Permittee must submit a new application, or a supplement to the previous application, whenever a material change to the construction activity or in the quantity or type of discharge is anticipated which is not specifically authorized by this permit. This application must be submitted at least sixty (60) days prior to any proposed changes. Filing a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G7. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in this permit will be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G8. DUTY TO REAPPLY

The Permittee must apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

G9. TRANSFER OF GENERAL PERMIT COVERAGE

Coverage under this general permit is automatically transferred to a new discharger, including operators of lots/parcels within a common plan of development or sale, **if**:

- A. A written agreement (Transfer of Coverage Form) between the current discharger (Permittee) and new discharger, signed by both parties and containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the Director; and
- B. The Director does not notify the current discharger and new discharger of the Director's intent to revoke coverage under the general permit. If this notice is not given, the transfer is effective on the date specified in the written agreement.

When a current discharger (Permittee) transfers a portion of a permitted site, the current discharger must also submit an updated application form (NOI) to the Director indicating the remaining permitted acreage after the transfer.

G10. REMOVED SUBSTANCES

The Permittee must not re-suspend or reintroduce collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of stormwater to the final effluent stream for discharge to state waters.

G11. DUTY TO PROVIDE INFORMATION

The Permittee must submit to Ecology, within a reasonable time, all information that Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee must also submit to Ecology, upon request, copies of records required to be kept by this permit [40 CFR 122.41(h)].

G12. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G13. ADDITIONAL MONITORING

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G14. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars (\$10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars (\$10,000) for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be deemed to be a separate and distinct violation.

G15. UPSET

Definition – "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that: 1) an upset occurred and that the Permittee can identify the cause(s) of the upset; 2) the permitted facility was being properly operated at the time of the upset; 3) the Permittee submitted notice of the upset as required in Special Condition S5.F, and; 4) the Permittee complied with any remedial measures required under this permit.

In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G16. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G17. DUTY TO COMPLY

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G18. TOXIC POLLUTANTS

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G19. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this condition, punishment shall be a fine of not more than \$20,000 per day of violation, or imprisonment of not more than four (4) years, or both.

G20. REPORTING PLANNED CHANGES

The Permittee must, as soon as possible, give notice to Ecology of planned physical alterations, modifications or additions to the permitted construction activity. The Permittee should be aware that, depending on the nature and size of the changes to the original permit, a new public notice and other permit process requirements may be required. Changes in activities that require reporting to Ecology include those that will result in:

- A. The permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b).
- B. A significant change in the nature or an increase in quantity of pollutants discharged, including but not limited to: for sites 5 acres or larger, a 20% or greater increase in acreage disturbed by construction activity.
- C. A change in or addition of surface water(s) receiving stormwater or non-stormwater from the construction activity.
- D. A change in the construction plans and/or activity that affects the Permittee's monitoring requirements in Special Condition S4.

Following such notice, permit coverage may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G21. REPORTING OTHER INFORMATION

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to Ecology, it must promptly submit such facts or information.

G22. REPORTING ANTICIPATED NON-COMPLIANCE

The Permittee must give advance notice to Ecology by submission of a new application or supplement thereto at least forty-five (45) days prior to commencement of such discharges, of any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility or activity which may result in noncompliance with permit limits or conditions. Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, must be scheduled during non-critical water quality periods and carried out in a manner approved by Ecology.

G23. REQUESTS TO BE EXCLUDED FROM COVERAGE UNDER THE PERMIT

Any discharger authorized by this permit may request to be excluded from coverage under the general permit by applying for an individual permit. The discharger must submit to the Director an application as described in WAC 173-220-040 or WAC 173-216-070, whichever is applicable, with reasons supporting the request. These reasons will fully document how an individual permit will apply to the applicant in a way that the general permit cannot. Ecology may make specific requests for information to support the request. The Director will either issue an individual permit or deny the request with a statement explaining the reason for the denial. When an individual permit is issued to a discharger otherwise subject to the construction stormwater general permit, the applicability of the construction stormwater general permit to that Permittee is automatically terminated on the effective date of the individual permit.

G24. APPEALS

- A. The terms and conditions of this general permit, as they apply to the appropriate class of dischargers, are subject to appeal by any person within 30 days of issuance of this general permit, in accordance with Chapter 43.21B RCW, and Chapter 173-226 WAC.
- B. The terms and conditions of this general permit, as they apply to an individual discharger, are appealable in accordance with Chapter 43.21B RCW within 30 days of the effective date of coverage of that discharger. Consideration of an appeal of general permit coverage of an individual discharger is limited to the general permit's applicability or nonapplicability to that individual discharger.
- C. The appeal of general permit coverage of an individual discharger does not affect any other dischargers covered under this general permit. If the terms and conditions of this general permit are found to be inapplicable to any individual discharger(s), the matter

shall be remanded to Ecology for consideration of issuance of an individual permit or permits.

G25. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

G26. BYPASS PROHIBITED

A. Bypass Procedures

Bypass, which is the intentional diversion of waste streams from any portion of a treatment facility, is prohibited for stormwater events below the design criteria for stormwater management. Ecology may take enforcement action against a Permittee for bypass unless one of the following circumstances (1, 2, 3 or 4) is applicable.

1. Bypass of stormwater is consistent with the design criteria and part of an approved management practice in the applicable stormwater management manual.
2. Bypass for essential maintenance without the potential to cause violation of permit limits or conditions.

Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of this permit, or adversely impact public health.

3. Bypass of stormwater is unavoidable, unanticipated, and results in noncompliance of this permit.

This bypass is permitted only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, maintenance during normal periods of equipment downtime (but not if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance), or transport of untreated wastes to another treatment facility.

- c. Ecology is properly notified of the bypass as required in Special Condition S5.F of this permit.
4. A planned action that would cause bypass of stormwater and has the potential to result in noncompliance of this permit during a storm event.

The Permittee must notify Ecology at least thirty (30) days before the planned date of bypass. The notice must contain:

- a. a description of the bypass and its cause
 - b. an analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing.
 - c. a cost-effectiveness analysis of alternatives including comparative resource damage assessment.
 - d. the minimum and maximum duration of bypass under each alternative.
 - e. a recommendation as to the preferred alternative for conducting the bypass.
 - f. the projected date of bypass initiation.
 - g. a statement of compliance with SEPA.
 - h. a request for modification of water quality standards as provided for in WAC 173-201A-110, if an exceedance of any water quality standard is anticipated.
 - i. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.
5. For probable construction bypasses, the need to bypass is to be identified as early in the planning process as possible. The analysis required above must be considered during preparation of the Stormwater Pollution Prevention Plan (SWPPP) and must be included to the extent practical. In cases where the probable need to bypass is determined early, continued analysis is necessary up to and including the construction period in an effort to minimize or eliminate the bypass.

Ecology will consider the following before issuing an administrative order for this type bypass:

- a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.
- b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
- c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve, conditionally approve, or deny the request. The public must be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by Ecology under RCW 90.48.120.

B. Duty to Mitigate

The Permittee is required to take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

APPENDIX A – DEFINITIONS

AKART is an acronym for “all known, available, and reasonable methods of prevention, control, and treatment.” AKART represents the most current methodology that can be reasonably required for preventing, controlling, or abating the pollutants and controlling pollution associated with a discharge.

Applicable TMDL means a TMDL for turbidity, fine sediment, high pH, or phosphorus, which was completed and approved by EPA before January 1, 2011, or before the date the operator’s complete permit application is received by Ecology, whichever is later.

Applicant means an operator seeking coverage under this permit.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural and/or managerial practices to prevent or reduce the pollution of waters of the State. BMPs include treatment systems, operating procedures, and practices to control: stormwater associated with construction activity, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Buffer means an area designated by a local jurisdiction that is contiguous to and intended to protect a sensitive area.

Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

Calendar Day A period of 24 consecutive hours starting at 12:00 midnight and ending the following 12:00 midnight.

Calendar Week (same as Week) means a period of seven consecutive days starting at 12:01 a.m. (0:01 hours) on Sunday.

Certified Erosion and Sediment Control Lead (CESCL) means a person who has current certification through an approved erosion and sediment control training program that meets the minimum training standards established by Ecology (see BMP C160 in the SWMM).

Clean Water Act (CWA) means the Federal Water Pollution Control Act enacted by Public Law 92-500, as amended by Public Laws 95-217, 95-576, 96-483, and 97-117; USC 1251 et seq.

Combined Sewer means a sewer which has been designed to serve as a sanitary sewer and a storm sewer, and into which inflow is allowed by local ordinance.

Common Plan of Development or Sale means a site where multiple separate and distinct construction activities may be taking place at different times on different schedules and/or by different contractors, but still under a single plan. Examples include: 1) phased projects and projects with multiple filings or lots, even if the separate phases or filings/lots will be constructed under separate contract or by separate owners (e.g., a development where lots are sold to separate builders); 2) a development plan that may be phased over multiple years, but is still under a

consistent plan for long-term development; 3) projects in a contiguous area that may be unrelated but still under the same contract, such as construction of a building extension and a new parking lot at the same facility; and 4) linear projects such as roads, pipelines, or utilities. If the project is part of a common plan of development or sale, the disturbed area of the entire plan must be used in determining permit requirements.

Composite Sample means a mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing discrete samples. May be "time-composite" (collected at constant time intervals) or "flow-proportional" (collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots).

Concrete wastewater means any water used in the production, pouring and/or clean-up of concrete or concrete products, and any water used to cut, grind, wash, or otherwise modify concrete or concrete products. Examples include water used for or resulting from concrete truck/mixer/pumper/tool/chute rinsing or washing, concrete saw cutting and surfacing (sawing, coring, grinding, roughening, hydro-demolition, bridge and road surfacing). When stormwater comingles with concrete wastewater, the resulting water is considered concrete wastewater and must be managed to prevent discharge to waters of the state, including ground water.

Construction Activity means land disturbing operations including clearing, grading or excavation which disturbs the surface of the land. Such activities may include road construction, construction of residential houses, office buildings, or industrial buildings, and demolition activity.

Contaminant means any hazardous substance that does not occur naturally or occurs at greater than natural background levels. See definition of "hazardous substance" and WAC 173-340-200.

Demonstrably Equivalent means that the technical basis for the selection of all stormwater BMPs is documented within a SWPPP, including:

1. The method and reasons for choosing the stormwater BMPs selected.
2. The pollutant removal performance expected from the BMPs selected.
3. The technical basis supporting the performance claims for the BMPs selected, including any available data concerning field performance of the BMPs selected.
4. An assessment of how the selected BMPs will comply with state water quality standards.
5. An assessment of how the selected BMPs will satisfy both applicable federal technology-based treatment requirements and state requirements to use all known, available, and reasonable methods of prevention, control, and treatment (AKART).

Department means the Washington State Department of Ecology.

Detention means the temporary storage of stormwater to improve quality and/or to reduce the mass flow rate of discharge.

Dewatering means the act of pumping ground water or stormwater away from an active construction site.

Director means the Director of the Washington Department of Ecology or his/her authorized representative.

Discharger means an owner or operator of any facility or activity subject to regulation under Chapter 90.48 RCW or the Federal Clean Water Act.

Domestic Wastewater means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments, or other places, together with such ground water infiltration or surface waters as may be present.

Ecology means the Washington State Department of Ecology.

Engineered Soils means the use of soil amendments including, but not limited, to Portland cement treated base (CTB), cement kiln dust (CKD), or fly ash to achieve certain desirable soil characteristics.

Equivalent BMPs means operational, source control, treatment, or innovative BMPs which result in equal or better quality of stormwater discharge to surface water or to ground water than BMPs selected from the SWMM.

Erosion means the wearing away of the land surface by running water, wind, ice, or other geological agents, including such processes as gravitational creep.

Erosion and Sediment Control BMPs means BMPs intended to prevent erosion and sedimentation, such as preserving natural vegetation, seeding, mulching and matting, plastic covering, filter fences, sediment traps, and ponds. Erosion and sediment control BMPs are synonymous with stabilization and structural BMPs.

Final Stabilization (same as fully stabilized or full stabilization) means the establishment of a permanent vegetative cover, or equivalent permanent stabilization measures (such as riprap, gabions or geotextiles) which prevents erosion.

Ground Water means water in a saturated zone or stratum beneath the land surface or a surface water body.

Hazardous Substance means any dangerous or extremely hazardous waste as defined in RCW 70.105.010 (5) and (6), or any dangerous or extremely dangerous waste as designated by rule under chapter 70.105 RCW; any hazardous substance as defined in RCW 70.105.010(14) or any hazardous substance as defined by rule under chapter 70.105 RCW; any substance that, on the effective date of this section, is a hazardous substance under section 101(14) of the federal cleanup law, 42 U.S.C., Sec. 9601(14); petroleum or petroleum products; and any substance or category of substances, including solid waste decomposition products, determined by the director

by rule to present a threat to human health or the environment if released into the environment. The term hazardous substance does not include any of the following when contained in an underground storage tank from which there is not a release: crude oil or any fraction thereof or petroleum, if the tank is in compliance with all applicable federal, state, and local law.

Injection Well means a well that is used for the subsurface emplacement of fluids. (See Well.)

Jurisdiction means a political unit such as a city, town or county; incorporated for local self-government.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of the Federal Clean Water Act, for the discharge of pollutants to surface waters of the State from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington Department of Ecology.

Notice of Intent (NOI) means the application for, or a request for coverage under this general permit pursuant to WAC 173-226-200.

Notice of Termination (NOT) means a request for termination of coverage under this general permit as specified by Special Condition S10 of this permit.

Operator means any party associated with a construction project that meets either of the following two criteria:

- The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
- The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a SWPPP for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions).

Permittee means individual or entity that receives notice of coverage under this general permit.

pH means a liquid's measure of acidity or alkalinity. A pH of 7 is defined as neutral. Large variations above or below this value are considered harmful to most aquatic life.

pH monitoring period means the time period in which the pH of stormwater runoff from a site must be tested a minimum of once every seven days to determine if stormwater pH is between 6.5 and 8.5.

Point source means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, and container from which pollutants are or may be discharged to surface waters of the State. This term does not include return flows from irrigated agriculture. (See Fact Sheet for further explanation.)

Pollutant means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, domestic sewage sludge (biosolids), munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste. This term does not include sewage from vessels within the meaning of section 312 of the CWA, nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the CWA.

Pollution means contamination or other alteration of the physical, chemical, or biological properties of waters of the State; including change in temperature, taste, color, turbidity, or odor of the waters; or such discharge of any liquid, gaseous, solid, radioactive or other substance into any waters of the State as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety or welfare; or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses; or to livestock, wild animals, birds, fish or other aquatic life.

Process wastewater means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product (40 CFR 122.1).

Receiving water means the water body at the point of discharge. If the discharge is to a storm sewer system, either surface or subsurface, the receiving water is the water body to which the storm system discharges. Systems designed primarily for other purposes such as for ground water drainage, redirecting stream natural flows, or for conveyance of irrigation water/return flows that coincidentally convey stormwater are considered the receiving water.

Representative means a stormwater or wastewater sample which represents the flow and characteristics of the discharge. Representative samples may be a grab sample, a time-proportionate composite sample, or a flow proportionate sample. Ecology's Construction Stormwater Monitoring Manual provides guidance on representative sampling.

Sanitary sewer means a sewer which is designed to convey domestic wastewater.

Sediment means the fragmented material that originates from the weathering and erosion of rocks or unconsolidated deposits, and is transported by, suspended in, or deposited by water.

Sedimentation means the depositing or formation of sediment.

Sensitive area means a water body, wetland, stream, aquifer recharge area, or channel migration zone.

SEPA (State Environmental Policy Act) means the Washington State Law, RCW 43.21C.020, intended to prevent or eliminate damage to the environment.

Significant Amount means an amount of a pollutant in a discharge that is amenable to available and reasonable methods of prevention or treatment; or an amount of a pollutant that has a

reasonable potential to cause a violation of surface or ground water quality or sediment management standards.

Significant concrete work means greater than 1000 cubic yards poured concrete or recycled concrete over the life of a project.

Significant Contributor of Pollutants means a facility determined by Ecology to be a contributor of a significant amount(s) of a pollutant(s) to waters of the State of Washington.

Site means the land or water area where any "facility or activity" is physically located or conducted.

Source control BMPs means physical, structural or mechanical devices or facilities that are intended to prevent pollutants from entering stormwater. A few examples of source control BMPs are erosion control practices, maintenance of stormwater facilities, constructing roofs over storage and working areas, and directing wash water and similar discharges to the sanitary sewer or a dead end sump.

Stabilization means the application of appropriate BMPs to prevent the erosion of soils, such as, temporary and permanent seeding, vegetative covers, mulching and matting, plastic covering and sodding. See also the definition of Erosion and Sediment Control BMPs.

Storm drain means any drain which drains directly into a storm sewer system, usually found along roadways or in parking lots.

Storm sewer system means a means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains designed or used for collecting or conveying stormwater. This does not include systems which are part of a combined sewer or Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Stormwater means that portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a stormwater drainage system into a defined surface water body, or a constructed infiltration facility.

Stormwater Management Manual (SWMM) or Manual means the technical Manual published by Ecology for use by local governments that contain descriptions of and design criteria for BMPs to prevent, control, or treat pollutants in stormwater.

Stormwater Pollution Prevention Plan (SWPPP) means a documented plan to implement measures to identify, prevent, and control the contamination of point source discharges of stormwater.

Surface Waters of the State includes lakes, rivers, ponds, streams, inland waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

Temporary Stabilization means the exposed ground surface has been covered with appropriate materials to provide temporary stabilization of the surface from water or wind erosion. Materials include, but are not limited to, mulch, riprap, erosion control mats or blankets and temporary cover crops. Seeding alone is not considered stabilization. Temporary stabilization is not a substitute for the more permanent “final stabilization.”

Total Maximum Daily Load (TMDL) means a calculation of the maximum amount of a pollutant that a water body can receive and still meet state water quality standards. Percentages of the total maximum daily load are allocated to the various pollutant sources. A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. The TMDL calculations must include a "margin of safety" to ensure that the water body can be protected in case there are unforeseen events or unknown sources of the pollutant. The calculation must also account for seasonable variation in water quality.

Treatment BMPs means BMPs that are intended to remove pollutants from stormwater. A few examples of treatment BMPs are detention ponds, oil/water separators, biofiltration, and constructed wetlands.

Transparency means a measurement of water clarity in centimeters (cm), using a 60 cm transparency tube. The transparency tube is used to estimate the relative clarity or transparency of water by noting the depth at which a black and white Secchi disc becomes visible when water is released from a value in the bottom of the tube. A transparency tube is sometimes referred to as a “turbidity tube.”

Turbidity means the clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.

Uncontaminated means free from any contaminant, as defined in MTCA cleanup regulations. See definition of “contaminant” and WAC 173-340-200.

Waste Load Allocation (WLA) means the portion of a receiving water’s loading capacity that is allocated to one of its existing or future point sources of pollution. WLAs constitute a type of water quality based effluent limitation (40 CFR 130.2[h]).

Water quality means the chemical, physical, and biological characteristics of water, usually with respect to its suitability for a particular purpose.

Waters of the State includes those waters as defined as "waters of the United States" in 40 CFR Subpart 122.2 within the geographic boundaries of Washington State and "waters of the State" as defined in Chapter 90.48 RCW, which include lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

Well means a bored, drilled or driven shaft, or dug hole whose depth is greater than the largest surface dimension. (See Injection well.)

Wheel wash wastewater means any water used in, or resulting from the operation of, a tire bath or wheel wash (BMP C106: Wheel Wash), or other structure or practice that uses water to physically remove mud and debris from vehicles leaving a construction site and prevent track-out onto roads. When stormwater combines with wheel wash wastewater, the resulting water is considered wheel wash wastewater and must be managed according to Special Condition S9.D.9.

APPENDIX B – ACRONYMS

AKART	All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment
BMP	Best Management Practice
CESCL	Certified Erosion and Sediment Control Lead
CFR	Code of Federal Regulations
CKD	Cement Kiln Dust
cm	Centimeters
CTB	Cement-Treated Base
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
ESC	Erosion and Sediment Control
FR	Federal Register
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Unit
RCW	Revised Code of Washington
SEPA	State Environmental Policy Act
SWMM	Stormwater Management Manual
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
USC	United States Code
USEPA	United States Environmental Protection Agency
WAC	Washington Administrative Code
WQ	Water Quality
WWHM	Western Washington Hydrology Model