

Contract Provisions

For Construction of:

SR 202

MP 0.12 TO MP 0.18

LITTLE BEAR CREEK FISH BARRIER REMOVAL

KING COUNTY

F.A. PROJECT NO. STPE-0202(055)



**Washington State
Department of Transportation**

Department of Transportation
Olympia, Washington 98504

March 10, 2016

ATTENTION: All Bidders and Planholders

SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL
STPF-0202(055)

Addendum No. 1

The Special Provisions and Plans for this project are amended as follows:

Special Provisions

1. On page 9, line 24 is revised to read as follows:

Basis of Design Report, [P]plans and construction photos of existing retaining walls. This is provided for

2. On page 51, line 32 is revised as follows:

Sunday [40:00] 9:30 a.m. to Sunday [44:00] 11:30 p.m.

3. On page 53, at line 42 the following is added:

(*****)

Interim Configuration Plan

Description

This work shall consist of developing an Interim Configuration Plan for approval by the Engineer, implementing the approved Interim Configuration Plan, and removing the interim configuration for conversion to the pre-project configuration.

Materials

All materials shall meet the requirements of Section 9-35 of the Standard Specifications.

Construction Requirements

If necessary, the Contractor will be allowed to put SR 202 in an interim configuration for up to 14 calendar days following the continuous weekend full closure allowed in Subsection **Continuous Weekend Full Closure with Associated Ramp Closure** of the Special Provision Lane, Ramp and Roadway Closures. The Contractor shall develop an Interim Configuration Plan for approval by the Engineer, and shall submit the Plan for approval a minimum of 10 working days prior to the continuous weekend full closure. The Interim Configuration Plan shall have, at a minimum, three (3) eleven-foot wide

1 WB lanes, two (2) eleven-foot wide EB lanes, and one (1) five-foot wide
2 pedestrian pathway located on the west side of SR 202. The minimum
3 compacted HMA depth in the traveled way shall be 0.65 feet. The Interim
4 Configuration Plan shall be a Type 3E Working Drawing in accordance with
5 Section 1-05.3.
6

7 The Contractor shall restore SR 202 to its pre-project configuration no more
8 than 14 calendar days after the end of the continuous weekend full closure
9 allowed in Subsection **Continuous Weekend Full Closure with Associated**
10 **Ramp Closure** of the Special Provision Lane, Ramp and Roadway Closures
11 and in accordance with the Special Provision Referencing Existing
12 Pavement Markings.
13

14 The Interim Configuration Plan shall conform to the standards established in
15 the MUTCD, the *Washington State Modifications to the Manual on Uniform*
16 *Traffic Control Devices*, and the *FHWA Final Rule on Work Zone Safety and*
17 *Mobility*. The quality of devices provided shall be based on the *ATSSA Quality*
18 *Guidelines for Work Zone Traffic Control Devices*.
19

20 The Interim Configuration Plan shall include, at a minimum:
21

- 22 • Roadway plan sheets showing all existing traffic control devices that
23 will be retained, relocated, or removed; and all temporary traffic control
24 devices that will be installed, retained, relocated or moved.
25
- 26 • The spacing, size, color (legend and background, if applicable), and
27 quantity of all traffic control devices.
28
- 29 • Work areas including ingress and egress for construction vehicles.
30
- 31 • Provisions for using temporary barriers and attenuators to satisfy clear
32 zone requirements, and to protect the traveling public and the
33 Contractor's personnel, including lateral displacement distance behind
34 barrier.
35
- 36 • Type and location of all pavement markings to be installed or removed;
37 and locations of the final pavement markings.
38
- 39 • Typical cross-sections covering each change in configuration including,
40 but not limited to, reduction in lane widths; reduction in number of
41 lanes; and changes of lateral barrier placement or type. Cross-sections
42 shall show lane configuration (including direction of travel) and widths,
43 lateral buffer distance behind barrier, Work areas, and pavement
44 marking type. Cross-sections shall include the station limits the section
45 applies to. Cross-sections shall be provided covering the entire length
46 of the segments included in the Interim Configuration Plan.
47
- 48 • Access and control of bicyclists and pedestrians, including persons with
49 disabilities in accordance with the current editions of the WSDOT
50 Design Manual(M22-01) and the Public Rights-of-way Accessibility
51 Guidelines(PROWAG). The PROWAG can be downloaded from the

United States Access Board website at www.access-board.gov/prowac under *Revised Draft Guidelines*(2005).

- A switching procedure for each stage change identified in the Interim Configuration Plan. The switching procedure shall consist of the methods, actions, and signing necessary to complete the switch and the numbers and duties of traffic personnel assigned to perform the switch.
- Any modifications necessary to keep the existing traffic signal at the intersection of SR 202 and the EB SR 522 on and off-ramps fully operational during the implementation of the Interim Configuration Plan.

The design vehicle for the project shall be a WB-67. The design speed shall not be less than the posted speed limit. All mainline shifting tapers and lane closure tapers shall use a minimum taper rate of 35:1.

All off and on-ramps shall be maintained in their existing configuration during the implementation of the Interim Configuration Plan.

The Contractor shall use temporary removable tape for temporary pavement marking configurations in areas that will not be ground or overlaid. If paint or temporary removable tape is used for temporary markings that will remain in place for 48 hours or longer, the markings shall be supplemented with Type 2 RPMs installed at 40-foot spacing and in accordance with Standard Plan M-20.30-02. In areas where Type 2 RPMs are used to supplement temporary removable tape, the adhesive for the Type 2 RPMs shall be butyl rubber. The Contractor shall follow all manufacturers' preparation and application procedures for this product.

The Contractor shall not use a grinder to remove painted markings. For removal of plastic markings, grinding will be allowed down to the pavement surface. Pavement markings to be removed shall be obliterated until they are unidentifiable as a pavement marking. The pavement marking removal shall be considered adequate when any remaining pavement marking material is not visible to a person with normal vision observing the removal area from a standing position looking 40 feet ahead. In no case shall the pavement marking removal remove more than 0.0625 inch of existing pavement. The Contractor shall ensure that water drains to the shoulders and that there will be no areas where ponding of water remains.

Sand or other material deposited on the pavement surface as a result of removing pavement markings shall be removed as the Work progresses to avoid hazardous conditions. Accumulation of sand or other material which might interfere with drainage will not be permitted.

The Contractor shall inspect all pavement markings daily. The Contractor shall provide a schedule for replacing damaged pavement markings and establish minimum replacement time frames based on the degree of degradation. If missing or damaged pavement markings present a hazardous condition, the Engineer may require the Contractor to close lanes or replace the pavement markings within 24 hours.

The Contractor shall clean or replace all pavement markings when they become damaged or lose reflectivity.

The Contractor shall have adequate spare sections of temporary barrier and the necessary equipment on-site to replace and repair temporary barrier within four hours of identification or notice given to the Contractor of damaged barrier. This requirement shall include replacement of impact attenuators. Temporary traffic control shall be set up immediately upon notice of damage to ensure vehicle safety.

4. On page 56, Lines 11 through 29 are deleted and replaced with the following:

(*****)

Continuous Weekend Full Closure Supplemental Schedule

The Contractor is advised that completing the weekend work will require a large amount of field staff, equipment, and materials, coordinated concurrently within a constrained work area, far beyond that typically expected on other projects. The Contractor should expect that multiple crews and equipment working multiple shifts will be necessary to accomplish the Work within the required timeframe.

The Contractor shall submit a supplemental progress schedule showing work to be performed during the continuous weekend full closure along with associated traffic control plans to the Engineer a minimum of 21 calendar days prior to the weekend closure. The Contractor shall also submit a hard copy and an electronic copy of the supplemental progress schedule. The supplemental schedule time increments shall be one hour. The supplemental schedule shall detail any planned use of multiple crews and equipment on the project. Throughout the continuous weekend full closure, the Contractor shall closely monitor the Work. If work is delayed for any reason, the Contractor shall immediately notify the Engineer and provide a brief narrative describing the cause of the delay, and the Contractor's proposal for recovering the schedule.

All costs associated with the development and submittal of the supplemental progress schedule shall be included in the costs of other Bid items of Work in the Contract.

5. On page 58, lines 5 through 52 are deleted.
6. On page 62, at line 20 the following is added:

(*****)

"Interim Configuration Plan", lump sum.

The Lump Sum price for "Interim Configuration Plan" shall be full payment for all costs associated with designing, developing, implementing, constructing, maintaining and removing the Interim Configuration Plan, including but not limited to all equipment, materials, temporary traffic control devices, labor, maintenance, professional services, and all other items of work necessary to perform the Work as specified.

1
2
3 7. On page 118, at line 35 the following is added:
4

5 (*****)

6 **Temporary Signal Pole Installation**

7 All work necessary to install the Class 5 Timber Strain Pole, including conduit
8 and Type 1 Junction Box, as shown in the Plans shall be completed during the
9 following hours to minimize impacts to adjacent businesses:

10 Sunday 11:30 p.m. to Monday 8:00 a.m.

11 Monday 11:30 p.m. to Tuesday 8:00 a.m.

12 Tuesday 11:30 p.m. to Wednesday 8:00 a.m.

13 Wednesday 11:30 p.m. to Thursday 8:00 a.m.

14 Thursday 11:30 p.m. to Friday 8:00 a.m.

15 Friday 11:30 p.m. to Saturday 8:00 a.m.

16 Saturday 11:30 p.m. to Sunday 8:00 a.m.

17
18
19 All existing utilities shall be located by potholing prior to installation of the strain
20 pole, conduit, and junction box.

21
22 **Plans**

- 23
24 1. Plan Sheets 19 and 68 are revised as clouded, shaded and noted.

25
26 Bidders shall furnish the Secretary of Transportation with evidence of the receipt of this
27 addendum. This addendum will be incorporated in the contract when awarded and when
28 formally executed.

29
30 **Jeff Carpenter, P.E.**
31 **State Design Engineer**

32
33 **Attachment:**
34 **Sheets 19 and 68 of the Plans (Rev. 3-9-2016)**

Washington State
Department of Transportation
Olympia, Washington 98504

**SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL
15A034
King County**

Notice to All Planholders

The Engineer assigned to answer questions regarding these bid documents, show this project to prospective bidders, and act as the Contracting Agency's representative who directly supervises the engineering and administration of this project is:

Dave Lindberg, P.E.
9025 El Capitan Way
Everett, WA 98208-3637
(425) 225-8700
NW412330Const@wsdot.wa.gov

**Jeff Carpenter, P.E.
State Design Engineer**

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



**SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL
15A034**

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1 **INTRODUCTION**

2 The following Amendments and Special Provisions shall be used in conjunction with the
3 2016 Standard Specifications for Road, Bridge, and Municipal Construction.

4
5 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

6
7 The following Amendments to the Standard Specifications are made a part of this contract
8 and supersede any conflicting provisions of the Standard Specifications. For informational
9 purposes, the date following each Amendment title indicates the implementation date of the
10 Amendment or the latest date of revision.

11
12 Each Amendment contains all current revisions to the applicable section of the Standard
13 Specifications and may include references which do not apply to this particular project.

14
15 **Section 1-06, Control of Material**
16 **January 4, 2016**

17 This section is supplemented with the following new section and subsections:

18
19 **1-06.6 Recycled Materials**

20 The Contractor shall make their best effort to utilize recycled materials in the
21 construction of the project; the use of recycled concrete aggregate as specified in
22 Section 1-06.6(1)A is a requirement of the Contract.

23
24 The Contractor shall submit a Recycled Material Utilization Plan as a Type 1 Working
25 Drawing within 30 calendar days after the Contract is executed. The plan shall provide
26 the Contractor's anticipated usage of recycled materials for meeting the requirements of
27 these Specifications. The quantity of recycled materials will be provided in tons and as
28 a percentage of the Plan quantity for each material listed in Section 9-03.21(1)E Table
29 on Maximum Allowable Percent (By Weight) of Recycled Material. When a Contract
30 does not include Work that requires the use of a material that is included in the
31 requirements for using materials the Contractor may state in their plan that no recycled
32 materials are proposed for use.

33
34 Prior to Physical Completion the Contractor shall report the quantity of recycled
35 materials that were utilized in the construction of the project for each of the items listed
36 in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete
37 aggregate, recycled glass, steel furnace slag and other recycled materials (e.g.
38 utilization of on-site material and aggregates from concrete returned to the supplier).
39 The Contractor's report shall be provided on DOT Form 350-075 Recycled Materials
40 Reporting.

41
42 **1-06.6(1) Recycling of Aggregate and Concrete Materials**

43
44 **1-06.6(1)A General**

45 The minimum quantity of recycled concrete aggregate shall be 25 percent of the total
46 quantity of aggregate that is incorporated into the Contract for those items listed in
47 Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled
48 Material that allow the use of recycled concrete aggregate. The percentage of recycled
49 material incorporated into the project for meeting the required percentage will be

1 calculated in tons based on the quantity of recycled concrete used on the entire
2 Contract and not as individual items.

3
4 If the Contractor's total cost for Work with recycled concrete aggregate is greater than
5 without the Contractor may choose to not use recycled concrete aggregate. When the
6 Contractor does not meet the minimum requirement of 25 percent recycled concrete
7 aggregate for the Contract due to costs or any other reason the following shall be
8 submitted:

- 9
10 1. A cost estimate for each material listed in Section 9-03.21(1)E that is utilized
11 on the Contract. The cost estimate shall include the following:
- 12
13 a. The estimated costs for the Work for each material with 25 percent
14 recycled concrete aggregate. The cost estimate shall include for each
15 material a copy of the price quote from the supplier with the lowest total
16 cost for the Work.
 - 17
18 b. The estimated costs for the Work for each material without recycled
19 concrete aggregate.
- 20

21 The Contractor's cost estimates shall be submitted as an attachment to the Recycled
22 Materials Reporting form.

23
24 **Section 1-07, Legal Relations and Responsibilities to the Public**
25 **January 4, 2016**

26 **1-07.1 Laws to be Observed**

27 In the second to last sentence of the third paragraph, "WSDOT" is revised to read
28 "Contracting Agency".

29
30 **Section 1-08, Prosecution and Progress**
31 **January 4, 2016**

32 **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage**
33 **Withheld**

34 In item number 5 of the first paragraph, "WSDOT" is revised to read "Contracting Agency".

35
36 **Section 5-02, Bituminous Surface Treatment**
37 **January 4, 2016**

38 **5-02.3(2) Preparation of Roadway Surface**

39 This section is supplemented with the following new subsection:

40
41 **5-02.3(2)E Crack Sealing**

42 Where shown in the Plans, seal cracks and joints in the pavement in accordance with
43 Section 5-04.3(5)C.

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

2 **January 4, 2016**

3 **5-04.2 Materials**

4 The first paragraph is supplemented with the following new items:

5
6 Hot Poured Sealant 9-04.2(1)A
7 Sand Slurry 9-04.2(1)B

8
9 This section is supplemented with the following new paragraph:

10
11 The requirements of Section 1-06.6 do not apply to the portland cement and fine
12 aggregate used in sand slurry.

13
14 **5-04.3(5)C Crack Sealing**

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

16
17 **5-04.3(5)C1 General**

18 When the Proposal includes a pay item for crack sealing, all cracks and joints ¼ inch in
19 width and greater shall be sealed. Cracks and joints shall be thoroughly clean, dry and
20 free of all loose and foreign material when filled with crack sealant material. Immediately
21 prior to filling a crack or joint with the sealant material a hot air lance shall be used to
22 dry and warm the pavement surfaces within the crack or joint. Pavement shall not be
23 overheated and direct flame dryers shall not be used. Routing cracks and joints is not
24 required.

25
26 Where cracks and joints are to be filled with sand slurry thoroughly mix the components
27 and pour the mixture into the cracks and joints until full. Additional CSS-1 emulsified
28 asphalt may be added to the sand slurry as needed for the mixture to be workable to
29 completely fill the crack or joint. Strike off the sand slurry flush with the existing
30 pavement surface and allow the mixture to cure. Cracks or joints that were not
31 completely filled shall be topped off with additional sand slurry. Do not place the HMA
32 overlay until the slurry has fully cured.

33
34 Where cracks and joints are to be filled with hot poured sealant the material shall be
35 applied in accordance with these requirements and the manufacturer's
36 recommendations. The manufacturer's recommendations shall be furnished to the
37 Engineer prior to the start of work and shall include recommended heating time and
38 temperatures, allowable storage time and temperatures after initial heating, allowable
39 reheating criteria, and application temperature range.

40
41 Crack sealing with hot poured sealants shall be controlled to confine the material within
42 the crack or joint. Any overflow of sealant shall be cleaned from the pavement surface.
43 If, in the opinion of the Engineer, the Contractor's method of sealing the cracks and
44 joints with hot poured sealant results in an excessive amount of material on the
45 pavement surface, the operation shall be stopped and corrected to eliminate the excess
46 material.

47
48 **5-04.3(5)C2 Crack Sealing Areas Prior to Paving**

49 In areas where HMA will be placed the cracks and joints shall be filled with sand slurry.

50

1 **5-04.3(5)C3 Crack Sealing Areas Not to be Paved**

2 In areas where HMA will not be placed the cracks and joints shall be filled as follows:

- 3
- 4 1. Cracks ¼ inch to 1 inch in width shall be filled with hot poured sealant.
- 5
- 6 2. Cracks and joints greater than 1 inch in width shall be filled with sand slurry.
- 7

8 **5-04.3(5)C4 Crack Sealing Areas Prior to a Bituminous Surface Treatment**

9 In areas where a BST will be placed the cracks and joints shall be filled per Section 5-
10 04.3(5)C3.

11

12 **5-04.4 Measurement**

13 The following new paragraph is inserted after the third paragraph:

14

15 Crack Sealing-LF will be measured by the linear foot along the line of the crack.

16

17 **5-04.5 Payment**

18 The Bid item "Crack Sealing" is revised to read "Crack Sealing-FA".

19

20 The following is inserted after the paragraph following the Bid item "Crack Sealing-FA", by
21 force account (after the preceding Amendment is applied):

22

23 "Crack Sealing-LF", per linear foot.

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

26

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

28 **January 4, 2016**

29 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

30 The following new sentence is inserted after the second sentence of the last paragraph:

31

32 Mix designs using shrinkage reducing admixture shall state the specific quantity
33 required.

34

35 The following new sentence is inserted before the last sentence of the last paragraph:

36

37 Testing samples of mixes using shrinkage reducing admixture shall use the admixture
38 amount specified in the mix design submittal.

39

40 **6-02.3(26)D2 Test Block Dimensions**

41 The first sentence is revised to read:

42

43 The dimensions of the test block perpendicular to the tendon in each direction shall be
44 the smaller of twice the minimum edge distance or the minimum spacing specified by
45 the special anchorage device manufacturer, with the stipulation that the concrete cover
46 over any confining reinforcing steel or supplementary skin reinforcement shall be
47 appropriate for the project-specific application and circumstances.

48

1 **Section 6-14, Geosynthetic Retaining Walls**

2 **January 4, 2016**

3 **6-14.5 Payment**

4 The bid item "Concrete Fascia Panel", per square foot, and the paragraph following this bid
5 item are revised to read:

6
7 "Concrete Fascia Panel For Geosynthetic Wall", per square foot.

8
9 All costs in connection with constructing the concrete fascia panels as specified shall be
10 included in the unit Contract price per square foot for "Concrete Fascia Panel For
11 Geosynthetic Wall", including all steel reinforcing bars, premolded joint filler,
12 polyethylene bond breaker strip, joint sealant, PVC pipe for weep holes, exterior surface
13 finish, and pigmented sealer (when specified), constructing and placing the concrete
14 footing, edge beam, anchor beam, anchor rod assembly, and backfill.

15
16 **Section 6-19, Shafts**

17 **January 4, 2016**

18 **6-19.4 Measurement**

19 The first paragraph is revised to read:

20
21 Soil excavation for shaft, including haul, will be measured by the cubic yards of shaft
22 excavated. The cubic yards will be computed using the shaft diameter, top of shaft
23 elevation and bottom of shaft elevation shown in the Plans, less all rock excavation
24 measured as specified for rock excavation. Excavation between the existing ground
25 line and the top of shaft elevation is considered incidental to soil excavation for shaft
26 and will not be measured.

27
28 The second paragraph is deleted.

29
30 **6-19.5 Payment**

31 The paragraph following the bid item "Soil Excavation For Shaft Including Haul", per cubic
32 yard is revised to read:

33
34 The unit Contract price per cubic yard for "Soil Excavation For Shaft Including Haul"
35 shall be full pay for performing the work as specified, including all costs in connection
36 with furnishing, mixing, placing, maintaining, containing, collecting, and disposing of all
37 mineral, synthetic, and water slurry, and disposing of groundwater collected by the shaft
38 excavation, and the incidental excavation of soils between the top of shaft elevation
39 shown in the Plans and the existing ground line.

40
41 **Section 8-01, Erosion Control and Water Pollution Control**

42 **January 4, 2016**

43 **8-01.2 Materials**

44 This section is supplemented with the following new paragraph:

45
46 Recycled concrete, in any form, shall not be used for any Work defined in Section 8-01.

47

Section 8-10, Guide Posts

January 4, 2016

8-10.3 Construction Requirements

The last sentence of the second paragraph is deleted.

Section 8-22, Pavement Marking

January 4, 2016

8-22.4 Measurement

The first two sentences of the fourth paragraph are revised to read:

The measurement for "Painted Wide Lane Line", "Plastic Wide Lane Line", "Profiled Plastic Wide Lane Line", "Painted Barrier Center Line", "Plastic Barrier Center Line", "Painted Stop Line", "Plastic Stop Line", "Painted Wide Dotted Entry Line", or "Plastic Wide Dotted Entry Line" will be based on the total length of each painted, plastic or profiled plastic line installed. No deduction will be made for the unmarked area when the marking includes a broken line such as, wide broken lane line, drop lane line, wide dotted lane line or wide dotted entry line.

8-22.5 Payment

The following two new Bid items are inserted after the Bid item "Plastic Crosshatch Marking", per linear foot:

"Painted Wide Dotted Entry Line", per linear foot.

"Plastic Wide Dotted Entry Line", per linear foot.

Section 9-03, Aggregates

January 4, 2016

9-03.21(1)B Concrete Rubble

This section, including title, is revised to read:

9-03.21(1)B Recycled Concrete Aggregate

Recycled concrete aggregates are coarse and fine aggregates manufactured from hardened concrete mixtures.

Recycled concrete, in any form, shall not be placed below the ordinary high water mark of any water of the State.

Section 9-04, Joint and Crack Sealing Materials

January 4, 2016

9-04.2(1) Hot Poured Joint Sealants

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

9-04.2(1)A Hot Poured Sealant

Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in accordance with ASTM D5329. Hot poured sealant shall have a minimum Cleveland Open Cup Flash Point of 205°C in accordance with AASHTO T 48.

1
2 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

3 Hot poured sealant for cement concrete pavement shall meet the requirements of
4 ASTM D6690 Type IV, except for the following:

- 5
6 1. The Cone Penetration at 25°C shall be 130 maximum.
7
8 2. The extension for the Bond, non-immersed, shall be 100 percent.
9

10 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

11 Hot poured sealant for bituminous pavement shall meet the requirements of ASTM
12 D6690 Type II.

13
14 **9-04.2(1)B Sand Slurry for Bituminous Pavement**

15 Sand slurry is mixture consisting of the following components measured by total weight:

- 16
17 1. Twenty percent CSS-1 emulsified asphalt,
18
19 2. Two percent portland cement, and
20
21 3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B
22 Class 2. Fine aggregate may be damp (no free water).
23

24 **Section 9-07, Reinforcing Steel**
25 **January 4, 2016**

26 **9-07.1(1)A Acceptance of Materials**

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

28
29 Reinforcing steel rebar manufacturers shall comply with the National Transportation
30 Product Evaluation Program (NTPEP) Work Plan for Reinforcing Steel (rebar)
31 Manufacturers.
32

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

34
35 Steel reinforcing bar manufacturers use either English or a Metric size designation while
36 stamping rebar.
37
38

SPECIAL PROVISIONS

The following Special Provisions are made a part of this contract and supersede any conflicting provisions of the 2016 Standard Specifications for Road, Bridge and Municipal Construction, and the foregoing Amendments to the Standard Specifications.

Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures, and Project Specific. Special Provisions types are differentiated as follows:

(date)	General Special Provision
(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
(Regions ¹ date)	Region Special Provision
(BSP date)	Bridges and Structures Special Provision

General Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a "fill-in".

Region Special Provisions are commonly applicable within the designated Region. Region designations are as follows:

<u>Regions¹</u>	
ER	Eastern Region
NCR	North Central Region
NWR	Northwest Region
OR	Olympic Region
SCR	South Central Region
SWR	Southwest Region
WSF	Washington State Ferries Division

Bridges and Structures Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a "fill-in".

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

Division 1 General Requirements

DESCRIPTION OF WORK

(March 13, 1995)

This Contract provides for the improvement of *** SR 202 in King County, MP 0.12 to MP 0.18, Little Bear Creek Fish Barrier Removal, by removing the existing box culvert, removing portions of existing retaining walls, installing secant pile walls, installing voided slabs, installing geosynthetic retaining walls, re-grading the streambed, installing a stream diversion, installing riprap, removing and installing type 2 catch basins, installing storm

1 sewer pipe, planing bituminous pavement, paving with HMA Class ½ IN. PG 64-22,
2 landscaping, erosion control, electrical installation, installing water main and water services,
3 installing cement conc. curb and gutter, pavement markings, installing utility conduit,
4 installing cement conc. sidewalk, installing pedestrian fence, installing chain link fence, traffic
5 control *** and other Work, all in accordance with the attached Contract Plans, these
6 Contract Provisions, and the Standard Specifications.

8 **Bid Procedures and Conditions**

10 **Examination of Plans, Specifications and Site of Work**

12 ***General***

14 Section 1-02.4(1) is supplemented with the following:

16 (*****)

17 The plans used for study and design of this project are available for review by the
18 Bidder at the following location:

20 <http://www.wsdot.wa.gov/contracts>

22 The information includes the following:

24 Plans and construction photos of existing retaining walls. This is provided for
25 information only and is not part of the Contract.

27 (*****)

28 **Media Access**

29 The Contractor shall provide access to accommodate visits from the local media.

31 The Contracting Agency anticipates that the local media will visit the site a
32 maximum of three times during the life of this project. It is anticipated that two of
33 the site visits will occur outside of the continuous weekend full closure, and one site
34 visit will occur during the closure. The duration of each of these visits will be limited
35 to one hour.

37 The Contractor will be given a minimum of four hours notice for each site visit. For
38 each visit, the Contractor shall provide a safe location that offers an unobstructed
39 view of the current work operation.

41 The Contractor is required to have personnel (equivalent to Contracting Agency's
42 Chief Inspector or higher) available to accompany Contracting Agency personnel to
43 guide these local media. The Contractor personnel shall go over the safety rules,
44 set limits or boundaries and answer questions relating to the project.

46 **Payment**

47 All costs associated with these site visits shall be included in the associated items
48 of work.

50 ***Subsurface Information***

1 Section 1-02.4(2) is supplemented with the following:

2
3 (January 2, 2012)

4 The soils information used for study and design of this project is available for
5 review by the bidder at the following location:

6
7 ***<http://www.wsdot.wa.gov/contracts>***
8

9 The soils information includes the following:

10
11 *** Geotechnical Report ***
12

13 **Preparation of Proposal**

14
15 The fourth paragraph of Section 1-02.6 is revised to read:

16
17 (May 7, 2012)

18 The Bidder shall submit with the Bid a completed Disadvantaged Business Enterprise
19 (DBE) Utilization Certification, when required by the Special Provisions. For each and
20 every DBE firm listed on the Bidder's completed Disadvantaged Business Enterprise
21 Utilization Certification, the Bidder shall submit written confirmation from that DBE firm
22 that the DBE is in agreement with the DBE participation commitment that the Bidder has
23 made in the Bidder's completed Disadvantaged Business Enterprise Utilization
24 Certification. WSDOT Form 422 031 EF (Disadvantaged Business Enterprise Written
25 Confirmation Document) is to be used for this purpose. Bidder must submit good faith
26 effort documentation only in the event the bidder's efforts to solicit sufficient DBE
27 participation have been unsuccessful. Directions for delivery of the Disadvantaged
28 Business Enterprise Written Confirmation Documents and Disadvantaged Business
29 Enterprise Good Faith Effort documentation are included in Sections 1-02.9.
30

31 Section 1-02.6 is supplemented with the following:

32
33 **(August 7, 2006)**

34 ***Progress Schedule Minimum Bid***

35 A minimum bid of *** \$10,000.00 *** lump sum has been established for the item "Type
36 *** C *** Progress Schedule." The Contractor's bid shall equal or exceed that amount.
37 If the Contractor's bid is less than the minimum specified amount, the Contracting
38 Agency will unilaterally revise the bid amount to the minimum specified amount and
39 recalculate the Contractor's total bid amount. The corrected total bid amount will be
40 used by the Contracting Agency for award purposes and to fix the amount of the
41 contract bond.
42

43 (December 1, 2008)

44 A minimum bid of *** \$1,000.00 *** per each has been established for the item
45 "Schedule Update." The Contractor's bid shall equal or exceed that amount. If the
46 Contractor's bid is less than the minimum specified amount, the Contracting Agency will
47 unilaterally revise the bid amount to the minimum specified amount and recalculate the
48 Contractor's total bid amount. The corrected total bid amount will be used by the
49 Contracting Agency for award purposes and to fix the amount of the contract bond.
50

51 **Delivery of Proposal**

1 Section 1-02.9 is supplemented with the following:

2
3 **(August 3, 2015)**

4 **DBE Document Submittal Requirements**

5 When a Proposal is submitted the following documents may be submitted as a
6 supplement to the Proposal:

- 7
8 1. DBE Utilization Certification;
9
10 2. DBE Written Confirmation Documents;
11
12 3. Good Faith Effort Documentation (GFE).
13

14 The Bidder shall submit these supplemental documents as follows:

- 15
16 1. Physically in a sealed envelope marked as "BID SUPPLEMENT" and bearing
17 the Bidder's company name, project title, Bid date, and description of all
18 contents (i.e., DBE Utilization Certification, DBE Written Confirmation
19 Documents, and/or DBE GFE Documentation); or
20
21 2. By facsimile to the following FAX number: 360-705-6966; or
22
23 3. By e-mail to the following e-mail address: ContractAd&Award@wsdot.wa.gov
24

25 The DBE Utilization Certification shall be received at the same location and no later
26 than the time required for delivery of the Proposal. The Contracting Agency will not open
27 or consider any Proposal when the DBE Utilization Certification is received after the
28 time specified for receipt of Proposals or received in a location other than that specified
29 for receipt of Proposals. The DBE Utilization Certification may be submitted in the same
30 envelope as the Bid deposit.
31

32 The DBE Written Confirmation Documents and/or GFE Documents are not required to
33 be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or
34 GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the
35 Bid. The documents shall be received no later than 48 hours (not including Saturdays,
36 Sundays and Holidays) after the time for delivery of the Proposal. To be considered
37 responsive, Bidders shall submit Written Confirmation Documentation from each DBE
38 firm listed on the Bidder's completed DBE Utilization Certification and/or the GFE as
39 required by Section 1-02.6.
40

41 The only documents that can be accepted after the 11:00:59 am time for delivery of
42 Proposal are the Written Confirmation Documentation and/or GFE. Incomplete or
43 inaccurate documents will be rejected. The Contracting Agency is not responsible for
44 delayed, partial, failed, illegible or partially legible FAX or e-mail document
45 transmissions, and such documents may be rejected as incomplete at the Bidder's risk.
46

47 **Public Opening of Proposals**

48
49 Section 1-02.12 is supplemented with the following:
50

1 **(August 3, 2015)**
2 **Date of Opening Bids**

3 The Bid opening date for this project is *** March 30, 2016 ***. Bids received will be
4 publicly opened and read after 11:00:59 a.m. Pacific Time on this date.

6 **Award and Execution of Contract**

8 **Award of Contract**

10 Section 1-03.2 is supplemented with the following:

12 (April 7, 2008)

13 The Contract will be awarded on the basis of the total of all bid items (Contract Total).
14 After the award, the Contracting Agency has the option of deleting work associated with
15 the construction of *** 8 inch water main replacement and PSE supplied conduit ***.
16 This work is represented by the bid items found in the column(s) headed GROUP(S) ***
17 WWD AGMT UT-1228 and PSE AGMT UT-1229 *** on the Summary of Quantities. The
18 deletion of this work will be documented by a change order. The change order will not
19 be subject to protest or negotiation. The amount of the change order price reduction
20 shall be the sum of the amounts bid for all items within the GROUP(s).

22 Should the Contracting Agency exercise the option to delete the work in one or more of
23 the GROUPS listed above and shown on the Summary of Quantities, then Section 1-
24 09.5 will not apply to the items that are deleted.

26 **Control of Work**

28 Section 1-05 is supplemented with the following:

30 **(NWR November 20, 2006)**

31 **Referencing Existing Pavement Markings**

32 The Contractor shall be responsible for referencing and documenting all existing
33 pavement markings. The Contractor's referencing plans shall indicate reference points
34 and offsets taken at consistent intervals sufficient to restore all pavement markings to
35 original configuration within two inches. The Contractor shall demonstrate to the
36 Engineer that referencing has been accomplished prior to performing any work which
37 will remove or cover the existing markings.

39 The Contractor shall also be responsible for laying out all temporary and permanent
40 pavement markings to the pre-existing locations or in modified locations as shown in the
41 Plans. Pavement markings shall be replaced using the materials called for in the Plans.

43 **Payment**

44 Payment will be made in accordance with Section 1-04.1 for the following bid item:

46 "Referencing Existing Pavement Markings", lump sum.

48 **Conformity With And Deviations From Plans And Stakes**

50 Section 1-05.4 is supplemented with the following:

1 **(April 4, 2011)**

2 **Contractor Surveying - Structure**

3 Copies of the Contracting Agency provided primary survey control data are available for
4 the bidder's inspection at the office of the Project Engineer.

5
6 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
7 stakes, slope stakes, and grades necessary for the construction of bridges, noise walls,
8 and retaining walls. Except for the survey control data to be furnished by the
9 Contracting Agency, calculations, surveying, and measuring required for setting and
10 maintaining the necessary lines and grades shall be the Contractor's responsibility.

11
12 The Contractor shall inform the Engineer when monuments are discovered that were
13 not identified in the Plans and construction activity may disturb or damage the
14 monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected
15 throughout the length of the project or be replaced at the Contractors expense.

16
17 Detailed survey records shall be maintained, including a description of the work
18 performed on each shift, the methods utilized, and the control points used. The record
19 shall be adequate to allow the survey to be reproduced. A copy of each day's record
20 shall be provided to the Engineer within three working days after the end of the shift.

21
22 The meaning of words and terms used in this provision shall be as listed in "Definitions
23 of Surveying and Associated Terms" current edition, published by the American
24 Congress on Surveying and Mapping and the American Society of Civil Engineers.

25
26 The survey work by the Contractor shall include but not be limited to the following:

- 27
28 1. Verify the primary horizontal and vertical control furnished by the Contracting
29 Agency, and expand into secondary control by adding stakes and hubs as well
30 as additional survey control needed for the project. Provide descriptions of
31 secondary control to the Contracting Agency. The description shall include
32 coordinates and elevations of all secondary control points.
33
34 2. Establish, by placing hubs and/or marked stakes, the location with offsets of
35 foundation shafts and piles.
36
37 3. Establish offsets to footing centerline of bearing for structure excavation.
38
39 4. Establish offsets to footing centerline of bearing for footing forms.
40
41 5. Establish wing wall, retaining wall, and noise wall horizontal alignment.
42
43 6. Establish retaining wall top of wall profile grade.
44
45 7. Establish elevation benchmarks for all substructure formwork.
46
47 8. Check elevations at top of footing concrete line inside footing formwork
48 immediately prior to concrete placement.
49
50 9. Check column location and pier centerline of bearing at top of footing
51 immediately prior to concrete placement.
52

- 1 10. Establish location and plumbness of column forms, and monitor column
- 2 plumbness during concrete placement.
- 3
- 4 11. Establish pier cap and crossbeam top and bottom elevations and centerline of
- 5 bearing.
- 6
- 7 12. Check pier cap and crossbeam top and bottom elevations and centerline of
- 8 bearing prior to and during concrete placement.
- 9
- 10 13. Establish grout pad locations and elevations.
- 11
- 12 14. Establish structure bearing locations and elevations, including locations of
- 13 anchor bolt assemblies.
- 14
- 15 15. Establish box girder bottom slab grades and locations.
- 16
- 17 16. Establish girder and/or web wall profiles and locations.
- 18
- 19 17. Establish diaphragm locations and centerline of bearing.
- 20
- 21 18. Establish roadway slab alignment, grades and provide dimensions from top of
- 22 girder to top of roadway slab. Set elevations for deck paving machine rails.
- 23
- 24 19. Establish traffic barrier and curb profile.
- 25
- 26 20. Profile all girders prior to the placement of any deadload or construction live
- 27 load that may affect the girder's profile.
- 28

29 The Contractor shall provide the Contracting Agency copies of any calculations and
30 staking data when requested by the Engineer.

31
32 To facilitate the establishment of these lines and elevations, the Contracting Agency will
33 provide the Contractor with the following primary survey and control information:

- 34
- 35 1. Descriptions of two primary control points used for the horizontal and vertical
- 36 control. Primary control points will be described by reference to the project
- 37 alignment and the coordinate system and elevation datum utilized by the
- 38 project. In addition, the Contracting Agency will supply horizontal coordinates
- 39 for the beginning and ending points and for each Point of Intersection (PI) on
- 40 each alignment included in the project.
- 41
- 42 2. Horizontal coordinates for the centerline of each bridge pier.
- 43
- 44 3. Computed elevations at top of bridge roadway decks at one-tenth points along
- 45 centerline of each girder web. All form grades and other working grades shall
- 46 be calculated by the Contractor.
- 47

48 The Contractor shall give the Contracting Agency three weeks notification to allow
49 adequate time to provide the data outlined in Items 2 and 3 above. The Contractor shall
50 ensure a surveying accuracy within the following tolerances:

51
52 Vertical

Horizontal

- | | | |
|---|------------------------------|----------------|
| 1 | 1. Stationing on structures | ±0.02 feet |
| 2 | 2. Alignment on structures | ±0.02 feet |
| 3 | 3. Superstructure elevations | ±0.01 feet |
| 4 | | variation from |
| 5 | | plan elevation |
| 6 | 4. Substructure | ±0.02 feet |
| 7 | | variation from |
| 8 | | Plan grades. |

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking the following items, the Contractor shall perform independent checks from different secondary control to ensure that the points staked for these items are within the specified survey accuracy tolerances:

- Piles
- Shafts
- Footings
- Columns

The Contractor shall calculate coordinates for the points associated with piles, shafts, footings and columns. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the survey work. The Contracting Agency will require up to seven calendar days from the date the data is received to issuing approval.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

Payment

Payment will be made in accordance with Section 1-04.1 for the following bid item when included in the proposal:

"Structure Surveying", lump sum.

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

(April 1, 2013)

Contractor Surveying - Roadway

Copies of the Contracting Agency provided primary survey control data are available for the bidder's inspection at the office of the Project Engineer.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, surfacing, paving, channelization and pavement marking, illumination and signals, guardrails and barriers, and signing. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required

1 for setting and maintaining the necessary lines and grades shall be the Contractor's
2 responsibility.

3
4 The Contractor shall inform the Engineer when monuments are discovered that were
5 not identified in the Plans and construction activity may disturb or damage the
6 monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected
7 throughout the length of the project or be replaced at the Contractors expense.

8
9 Detailed survey records shall be maintained, including a description of the work
10 performed on each shift, the methods utilized, and the control points used. The record
11 shall be adequate to allow the survey to be reproduced. A copy of each day's record
12 shall be provided to the Engineer within three working days after the end of the shift.

13
14 The meaning of words and terms used in this provision shall be as listed in "Definitions
15 of Surveying and Associated Terms" current edition, published by the American
16 Congress on Surveying and Mapping and the American Society of Civil Engineers.

17
18 The survey work shall include but not be limited to the following:

- 19
20 1. Verify the primary horizontal and vertical control furnished by the Contracting
21 Agency, and expand into secondary control by adding stakes and hubs as well
22 as additional survey control needed for the project. Provide descriptions of
23 secondary control to the Contracting Agency. The description shall include
24 coordinates and elevations of all secondary control points.
- 25
26 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks
27 on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs)
28 and at points on the alignments spaced no further than 50 feet.
- 29
30 3. Establish clearing limits, placing stakes at all angle points and at intermediate
31 points not more than 50 feet apart. The clearing and grubbing limits shall be 5
32 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless
33 otherwise shown in the Plans.
- 34
35 4. Establish grading limits, placing slope stakes at centerline increments not more
36 than 50 feet apart. Establish offset reference to all slope stakes. If Global
37 Positioning Satellite (GPS) Machine Controls are used to provide grade
38 control, then slope stakes may be omitted at the discretion of the Contractor
- 39
40 5. Establish the horizontal and vertical location of all drainage features, placing
41 offset stakes to all drainage structures and to pipes at a horizontal interval not
42 greater than 25 feet.
- 43
44 6. Establish roadbed and surfacing elevations by placing stakes at the top of
45 subgrade and at the top of each course of surfacing. Subgrade and surfacing
46 stakes shall be set at horizontal intervals not greater than 50 feet in tangent
47 sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-
48 foot intervals in intersection radii with a radius less than 10 feet. Transversely,
49 stakes shall be placed at all locations where the roadway slope changes and
50 at additional points such that the transverse spacing of stakes is not more than
51 12 feet. If GPS Machine Controls are used to provide grade control, then

roadbed and surfacing stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout the project.
8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.
9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.
10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Project Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

To facilitate the establishment of these lines and elevations, the Contracting Agency will provide the Contractor with primary survey control information consisting of descriptions of two primary control points used for the horizontal and vertical control, and descriptions of two additional primary control points for every additional three miles of project length. Primary control points will be described by reference to the project alignment and the coordinate system and elevation datum utilized by the project. In addition, the Contracting Agency will supply horizontal coordinates for the beginning and ending points and for each Point of Intersection (PI) on each alignment included in the project.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Stationing on roadway	N/A	±0.1 feet
Alignment on roadway	N/A	±0.04 feet
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)

1	Roadway paving pins for		
2	surfacing or paving	±0.01 feet	±0.2 feet
3			(parallel to alignment)
4			±0.1 feet
5			(normal to alignment)
6			

7 The Contracting Agency may spot-check the Contractor's surveying. These spot-
8 checks will not change the requirements for normal checking by the Contractor.

9
10 When staking roadway alignment and stationing, the Contractor shall perform
11 independent checks from different secondary control to ensure that the points staked
12 are within the specified survey accuracy tolerances.

13
14 The Contractor shall calculate coordinates for the alignment. The Contracting Agency
15 will verify these coordinates prior to issuing approval to the Contractor for commencing
16 with the work. The Contracting Agency will require up to seven calendar days from the
17 date the data is received.

18
19 Contract work to be performed using contractor-provided stakes shall not begin until the
20 stakes are approved by the Contracting Agency. Such approval shall not relieve the
21 Contractor of responsibility for the accuracy of the stakes.

22
23 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
24 needed that are not described in the Plans, then those stakes shall be marked, at no
25 additional cost to the Contracting Agency as ordered by the Engineer.

26
27 ***Payment***

28 Payment will be made in accordance with Section 1-04.1 for the following bid item when
29 included in the proposal:

30
31 "Roadway Surveying", lump sum.

32
33 The lump sum contract price for "Roadway Surveying" shall be full pay for all labor,
34 equipment, materials, and supervision utilized to perform the Work specified, including
35 any resurveying, checking, correction of errors, replacement of missing or damaged
36 stakes, and coordination efforts.

37
38 **Cooperation With Other Contractors**

39
40 Section 1-05.14 is supplemented with the following:

41
42 ***(March 13, 1995)***

43 ***Other Contracts Or Other Work***

44 It is anticipated that the following work adjacent to or within the limits of this project will
45 be performed by others during the course of this project and will require coordination of
46 the work:

47
48 ***

49 City of Woodinville NE 171st St, Wilmot Park to NE 140th Ave NE Paving
50 Contact: Tom Hansen, Public Works Director
51 Phone: 425-877-2291
52 Email: thomash@ci.woodinville.wa.us

Construction: Summer 2016

City of Woodinville NE 175th St, 131st Ave NE to 140th Ave NE Paving
Contact: Tom Hansen, Public Works Director
Phone: 425-877-2291
Email: thomash@ci.woodinville.wa.us
Construction: Summer 2017

City of Woodinville NE 175th St, Sammamish River Bridge Widening
Contact: Tom Hansen, Public Works Director
Phone: 425-877-2291
Email: thomash@ci.woodinville.wa.us
Construction: Summer 2017 to Summer 2018

Control of Material

Section 1-06 is supplemented with the following:

Buy America

(August 6, 2012)

In accordance with Buy America requirements contained in 23 CFR 635.410, the major quantities of steel and iron construction material that is permanently incorporated into the project shall consist of American-made materials only. Buy America does not apply to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and falsework.

Minor amounts of foreign steel and iron may be utilized in this project provided the cost of the foreign material used does not exceed one-tenth of one percent of the total contract cost or \$2,500.00, whichever is greater.

American-made material is defined as material having all manufacturing processes occurring domestically. To further define the coverage, a domestic product is a manufactured steel material that was produced in one of the 50 States, the District of Columbia, Puerto Rico, or in the territories and possessions of the United States.

If domestically produced steel billets or iron ingots are exported outside of the area of coverage, as defined above, for any manufacturing process then the resulting product does not conform to the Buy America requirements. Additionally, products manufactured domestically from foreign source steel billets or iron ingots do not conform to the Buy America requirements because the initial melting and mixing of alloys to create the material occurred in a foreign country.

Manufacturing begins with the initial melting and mixing, and continues through the coating stage. Any process which modifies the chemical content, the physical size or shape, or the final finish is considered a manufacturing process. The processes include rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action of applying a coating to steel or iron is deemed a manufacturing process. Coating includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that protects or enhances the value of steel or iron. Any process from the original reduction from ore to the finished product constitutes a manufacturing process for iron.

Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

The following are considered to be steel manufacturing processes:

1. Production of steel by any of the following processes:
 - a. Open hearth furnace.
 - b. Basic oxygen.
 - c. Electric furnace.
 - d. Direct reduction.
2. Rolling, heat treating, and any other similar processing.
3. Fabrication of the products.
 - a. Spinning wire into cable or strand.
 - b. Corrugating and rolling into culverts.
 - c. Shop fabrication.

A certification of materials origin will be required for any items comprised of, or containing, steel or iron construction materials prior to such items being incorporated into the permanent work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or such other form the Contractor chooses, provided it contains the same information as DOT Form 350-109EF.

Legal Relations and Responsibilities to the Public

Laws to be Observed

Section 1-07.1 is supplemented with the following:

(*****)

Nighttime Work Conditions

The Contractor will be allowed to exceed local noise ordinance levels. Except in the case of emergency, whenever the Contractor works during the nighttime hours defined in local noise ordinances, and exceeds local ordinance noise levels, the Contractor shall, in addition to other restrictions of this section or other ordinances, perform the following measures to minimize construction noise:

1. The Contractor shall use ambient sensitive backup warning devices on all vehicles. The Contractor may use back-up observers in lieu of back-up warning devices for all equipment except dump trucks in compliance with WAC Chapter 296-155-610 and 296-155-615. The Contractor shall use back-

up observers and back-up warning devices for dump trucks in compliance with WAC Chapter 296-155-610.

2. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.

3. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.

The Contractor shall not proceed with nighttime Work unless all conditions listed in this Contract are in place.

General

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

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

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

The Contractor shall provide contact names and phone numbers, including back-up names of the individuals responsible to enforce noise conditions and any additional noise mitigation measures if required such as but not limited to additional nighttime work mail notifications.

Payment

All costs to comply with the above noise nighttime work conditions requirements which include vehicle back-up observers shall be included in the associated items of Work.

(*****)

The Contractor shall indemnify, defend, and save harmless the Woodinville Water District (District) and its elected and appointed officers, agents, or employees from any claim, damage, action, liability of proceeding brought or filed against the District or its elected or appointed officers, agents or employees alleging damage or injury arising out of the contractor's acts or omissions in constructing the District's Work as part of the Project. The Contractor shall not be required to indemnify the District or its elected or appointed officers, agents or employees for their acts or omissions taken as part of the Work performed.

Environmental Regulations

Section 1-07.5 is supplemented with the following:

1 **(September 20, 2010)**

2 ***Environmental Commitments***

3 The following Provisions summarize the requirements, in addition to those required
4 elsewhere in the Contract, imposed upon the Contracting Agency by the various
5 documents referenced in the Special Provision **Permits and Licenses**. Throughout the
6 work, the Contractor shall comply with the following requirements:

7
8 (August 3, 2009)

9 A mixing zone is established within which the turbidity standard is waived during
10 actual in-water work. The mixing zone is established to only temporarily allow
11 exceeding the turbidity criteria (such as a few hours or days) and is not
12 authorization to exceed the turbidity standard for the entire duration of the
13 construction. The mixing zone shall not exceed *** 200 *** feet downstream from
14 the construction area.

15
16 (February 25, 2013)

17 The Contractor shall retain a copy of the most recent U.S. Army Corps of Engineers
18 Nationwide Permit Verification Letter, conditions, and permit drawings on the
19 worksite for the life of the Contract (See Special Provision titled Permits and
20 Licenses). The Contractor shall provide copies of the items above listed to all Sub-
21 Contractors involved with the authorized work prior to their commencement of any
22 work.

23
24 (February 25, 2013)

25 Any temporary fills placed must be removed in their entirety and the affected areas
26 returned to their pre-construction elevation.

27
28 (August 3, 2009)

29 The Contractor shall notify the Engineer a minimum of *** 15 *** calendar days prior
30 to commencing any work in environmentally sensitive areas, mitigation areas, and
31 wetland buffers. Installation of construction fencing is excluded from this notice
32 requirement. At the time of notification, the Contractor shall submit a work plan for
33 review and approval detailing how the work will be performed. Plan detail must be
34 sufficient to verify that work is in conformance with all contract provisions.

35
36 (August 3, 2009)

37 No Contractor staging areas will be allowed within *** 50 *** feet of any waters of
38 the State including wetlands.

39
40 (*****)

41 All in-water work shall occur between July 1st and September 15th of any year. All
42 equipment, temporary installations, and materials placed for in-water work shall be
43 removed completely after September 15th.

44
45 All gear and equipment for use below the Ordinary High Water Mark (OHWM) shall
46 be thoroughly cleaned before arriving and leaving the project area. Any water
47 and/or chemicals used to clean gear and equipment shall be properly disposed of
48 and shall not be allowed to re-enter the stream.

49
50 Vehicles and machinery operating below the OHWM (except if operating in the dry)
51 shall use biodegradable hydraulic fluid to reduce the potential impacts associated
52 with a spill or leak. All biodegradable hydraulic fluid shall achieve either a Pw1

Environmental Persistence Classification as defined in ASTM D6046 (≥60% biodegradation in 28 days), comply with the minimum biodegradability (60%) defined in ISO 15380, or shall meet biodegradability criteria (≥60% biodegradation in 28 days) as defined in EPA 560/6-82-003.

Temporary lights for night work shall be directed away from the stream to the greatest extent possible, with the intent to prevent light from shining on surface waters.

All native woody vegetation that is larger than four inches in diameter and longer than six feet in length (including rootwads) shall be retained on site to be used in site restoration as directed by the Engineer. Retained native woody vegetation may be positioned in associated riparian areas.

Large woody material (LWM) embedded in a bank or bed shall be left undisturbed except in the grading area for placement of the new structure. Any LWM encountered in the grading area may be reinstalled or repositioned to remain in the low flow channel as directed by the Engineer.

All existing LWM shall be reinstalled or repositioned to remain in the low flow channel as directed by the Engineer. Repositioned LWM shall be placed or anchored to provide stable, functional fish habitat.

(August 3, 2009)

Payment

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

Permits and Licenses

Section 1-07.6 is supplemented with the following:

(January 5, 2015)

The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits are required to be onsite at all times. Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of the Construction Stormwater General Permit where direct communication with the Ecology is allowed. The Contractor shall be responsible for obtaining Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable Bid items for the Work involved.

NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.
Department of the Army Section 404 Nationwide 27	Corps of Engineers Seattle District	NWS-214-205
Section 401 Letter of Verification	Department of Ecology	NWS-2014-205

Hydraulic Project Approval	Department of Fish & Wildlife	2015-4-123+01
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Load Limits

Section 1-07.7 is supplemented with the following:

(March 13, 1995)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

Wages

General

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

(January 8, 2016)

The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA160001.

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

Apprentices

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

(August 3, 2015)

Apprentice Utilization

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

Definitions

For the purposes of this specification the following definitions apply:

1. Apprentice is a person enrolled in a State-approved Apprenticeship Training Program.
2. Apprentice Utilization Requirement is the labor hours expressed as a percentage of the project Labor Hours required to be performed by Apprentices.
3. Good Faith Effort is a demonstration that the Contractor has strived to meet the Apprentice Utilization Requirement including but not necessarily limited to the specific steps as described elsewhere in this specification.

4. Labor Hours are the total hours performed by all workers receiving an hourly wage who are directly employed upon the project including hours performed by workers employed by the prime Contractor and all Subcontractors. Labor Hours do not include hours performed by foremen, superintendents, owners, and workers who are not subject to prevailing wage requirements.
5. State-approved Apprenticeship Training Program is an apprenticeship training program approved by the Washington State Apprenticeship Council.

Electronic Reporting

The Contractor shall use the application available at <https://RemoteApps.wsdot.wa.gov/Construction/Training/Apprenticeship/> to submit the "Apprentice Utilization Plan", "Statement of Apprentice/Journeyman Participation" and to submit "Good Faith Effort" documentation. After execution of the Contract, the Contractor shall send an e-mail to apprenticeship@wsdot.wa.gov containing the following information: the first and last name, e-mail address, title and phone number of the person that will be submitting the above documents for their company. The e-mail shall include the WSDOT contract number they will be reporting on. After receipt of this information by WSDOT, the Contractor will receive an e-mail containing their username and password for the application and a link to the application. Reporting instructions are available in the application.

Apprentice Utilization Plan

The Contractor shall submit an "Apprentice Utilization Plan" using the application described in "Electronic Reporting" within 30 calendar days of execution, demonstrating how and when they intend to achieve the Apprentice Utilization Requirement. The plan shall be in sufficient detail for the Engineer to track the Contractor's progress in meeting the utilization requirements and be updated and resubmitted as the Work progresses or when ordered by the Engineer. If the Contractor is unable to demonstrate how they intend to meet the Apprentice Utilization Requirement on the Apprentice Utilization Plan they must submit Good Faith Effort documentation to the Engineer with their Apprentice Utilization Plan.

Reporting

The Contractor shall submit a "Statement of Apprentice /Journeyman Participation" using the application described in "Electronic Reporting" on a monthly basis. The report shall be submitted to the Engineer by the last day of the subsequent month, until the Physical Completion Date. The data reported shall include the Contractor and all Subcontractors. At the Contractor's request, the Engineer may suspend this reporting requirement during periods of minimal or no applicable work activities on the project. Good Faith Effort documentation shall be submitted to the Engineer prior to the Physical Completion Date if the Contractor completes the project without meeting the Apprentice Utilization Plan.

Contacts

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

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

1
2 **Compliance**

3 In the event that the Contractor is unable to accomplish the Apprentice Utilization
4 Requirement, the Contractor shall demonstrate that a Good Faith Effort has been
5 made. Good Faith Effort documentation shall be uploaded using the application
6 described in "Electronic Reporting." Failure to comply with the requirements as
7 specified may result in reduction or revocation of prequalification as allowed by
8 WAC 468-16-190.
9

10 **Good Faith Efforts**

11 In fulfilling the Good Faith Effort, the Contractor shall perform and, when
12 appropriate, require its Subcontractors to perform the following steps:
13

- 14 1. Solicit Apprentice(s) from State-approved Apprenticeship Training
15 Program(s)
16
- 17 2. Document the solicitation and, in the event Apprentice(s) are not available,
18 obtain supporting documentation from the solicited program(s).
19
- 20 3. Demonstrate that the plan was updated as required elsewhere in this
21 specification.
22
- 23 4. Provide documentation demonstrating what efforts the Contractor has
24 taken to require Subcontractors to solicit and employ Apprentice(s).
25

26 In the event that the preceding steps have been followed, the Contractor may also
27 supplement the Good Faith Efforts documentation with the following
28 documentation:
29

- 30 5. Submit documentation demonstrating successful Apprentice utilization on
31 previous contracts.
32
- 33 6. Submit documentation indicating companywide Apprentice utilization
34 efforts and percentages of attainment.
35

36 **Payment**

37 All costs incurred by the Contractor for complying with this specification shall be
38 included in the Contract prices for the Bid items of Work involved.
39

40 **Requirements for Nondiscrimination**

41
42 Section 1-07.11 is supplemented with the following:
43

44 (August 5, 2013)

45 Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive
46 Order 11246)
47

- 48 1. The Contractor's attention is called to the Equal Opportunity Clause and the
49 Standard Federal Equal Employment Opportunity Construction Contract
50 Specifications set forth herein.
51

2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

Timetable

Goal

Until further notice

6.9%

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Spokane, WA:

SMSA Counties:

Spokane, WA

2.8

WA Spokane.

Non-SMSA Counties

3.0

WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.

Richland, WA

SMSA Counties:

Richland Kennewick, WA

5.4

WA Benton; WA Franklin.

Non-SMSA Counties

3.6

WA Walla Walla.

Yakima, WA:

SMSA Counties:

Yakima, WA

9.7

WA Yakima.

Non-SMSA Counties

7.2

WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.

Seattle, WA:

SMSA Counties:

Seattle Everett, WA

7.2

WA King; WA Snohomish.

Tacoma, WA

6.2

WA Pierce.

Non-SMSA Counties

6.1

WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.

Portland, OR:

SMSA Counties:

Portland, OR-WA

4.5

WA Clark.

Non-SMSA Counties

3.8

WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

1 These goals are applicable to each nonexempt Contractor's total on-site
2 construction workforce, regardless of whether or not part of that workforce is
3 performing work on a Federal, or federally assisted project, contract, or subcontract
4 until further notice. Compliance with these goals and time tables is enforced by the
5 Office of Federal Contract compliance Programs.
6

7 The Contractor's compliance with the Executive Order and the regulations in 41
8 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity
9 Clause, specific affirmative action obligations required by the specifications set
10 forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority
11 and female employment and training must be substantially uniform throughout the
12 length of the contract, in each construction craft and in each trade, and the
13 Contractor shall make a good faith effort to employ minorities and women evenly on
14 each of its projects. The transfer of minority or female employees or trainees from
15 Contractor to Contractor or from project to project for the sole purpose of meeting
16 the Contractor's goal shall be a violation of the contract, the Executive Order and
17 the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured
18 against the total work hours performed.
19

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

29
30 U.S. Department of Labor
31 Office of Federal Contract Compliance Programs Pacific Region
32 Attn: Regional Director
33 San Francisco Federal Building
34 90 – 7th Street, Suite 18-300
35 San Francisco, CA 94103(415) 625-7800 Phone
36 (415) 625-7799 Fax
37

38 Additional information may be found at the U.S. Department of Labor website:
39 <http://www.dol.gov/ofccp/TAguides/ctaguide.htm>
40

- 41 4. As used in this Notice, and in the contract resulting from this solicitation, the
42 Covered Area is as designated herein.
43

44 Standard Federal Equal Employment Opportunity Construction Contract Specifications
45 (Executive Order 11246)
46

- 47 1. As used in these specifications:

- 48
49 a. Covered Area means the geographical area described in the solicitation
50 from which this contract resulted;
51

- 1 b. Director means Director, Office of Federal Contract Compliance
2 Programs, United States Department of Labor, or any person to whom the
3 Director delegates authority;
4
5 c. Employer Identification Number means the Federal Social Security
6 number used on the Employer's Quarterly Federal Tax Return, U. S.
7 Treasury Department Form 941;
8
9 d. Minority includes:
10
11 (1) Black, a person having origins in any of the Black Racial Groups
12 of Africa.
13
14 (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person
15 of Mexican, Puerto Rican, Cuban, Central American, South
16 American, or other Spanish origin.
17
18 (3) Asian or Pacific Islander, a person having origins in any of the
19 original peoples of the Pacific rim or the Pacific Islands, the
20 Hawaiian Islands and Samoa.
21
22 (4) American Indian or Alaskan Native, a person having origins in
23 any of the original peoples of North America, and who maintain
24 cultural identification through tribal affiliation or community
25 recognition.
26
27 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion
28 of the work involving any construction trade, it shall physically include in each
29 subcontract in excess of \$10,000 the provisions of these specifications and the
30 Notice which contains the applicable goals for minority and female participation and
31 which is set forth in the solicitations from which this contract resulted.
32
33 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan
34 approved by the U.S. Department of Labor in the covered area either individually
35 or through an association, its affirmative action obligations on all work in the Plan
36 area (including goals and timetables) shall be in accordance with that Plan for
37 those trades which have unions participating in the Plan. Contractors must be able
38 to demonstrate their participation in and compliance with the provisions of any such
39 Hometown Plan. Each Contractor or Subcontractor participating in an approved
40 Plan is individually required to comply with its obligations under the EEO clause,
41 and to make a good faith effort to achieve each goal under the Plan in each trade in
42 which it has employees. The overall good faith performance by other Contractors
43 or Subcontractors toward a goal in an approved Plan does not excuse any covered
44 Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan
45 goals and timetables.
46
47 4. The Contractor shall implement the specific affirmative action standards provided in
48 paragraphs 7a through 7p of this Special Provision. The goals set forth in the
49 solicitation from which this contract resulted are expressed as percentages of the
50 total hours of employment and training of minority and female utilization the
51 Contractor should reasonably be able to achieve in each construction trade in
52 which it has employees in the covered area. Covered construction contractors

1 performing construction work in geographical areas where they do not have a
2 Federal or federally assisted construction contract shall apply the minority and
3 female goals established for the geographical area where the work is being
4 performed. The Contractor is expected to make substantially uniform progress in
5 meeting its goals in each craft during the period specified.
6

7 5. Neither the provisions of any collective bargaining agreement, nor the failure by a
8 union with whom the Contractor has a collective bargaining agreement, to refer
9 either minorities or women shall excuse the Contractor's obligations under these
10 specifications, Executive Order 11246, or the regulations promulgated pursuant
11 thereto.
12

13 6. In order for the nonworking training hours of apprentices and trainees to be counted
14 in meeting the goals, such apprentices and trainees must be employed by the
15 Contractor during the training period, and the Contractor must have made a
16 commitment to employ the apprentices and trainees at the completion of their
17 training, subject to the availability of employment opportunities. Trainees must be
18 trained pursuant to training programs approved by the U.S. Department of Labor.
19

20 7. The Contractor shall take specific affirmative actions to ensure equal employment
21 opportunity. The evaluation of the Contractor's compliance with these
22 specifications shall be based upon its effort to achieve maximum results from its
23 action. The Contractor shall document these efforts fully, and shall implement
24 affirmative action steps at least as extensive as the following:
25

26 a. Ensure and maintain a working environment free of harassment,
27 intimidation, and coercion at all sites, and in all facilities at which the
28 Contractor's employees are assigned to work. The Contractor, where
29 possible, will assign two or more women to each construction project. The
30 Contractor shall specifically ensure that all foremen, superintendents, and
31 other on-site supervisory personnel are aware of and carry out the
32 Contractor's obligation to maintain such a working environment, with
33 specific attention to minority or female individuals working at such sites or
34 in such facilities.
35

36 b. Establish and maintain a current list of minority and female recruitment
37 sources, provide written notification to minority and female recruitment
38 sources and to community organizations when the Contractor or its unions
39 have employment opportunities available, and maintain a record of the
40 organizations' responses.
41

42 c. Maintain a current file of the names, addresses and telephone numbers of
43 each minority and female off-the-street applicant and minority or female
44 referral from a union, a recruitment source or community organization and
45 of what action was taken with respect to each such individual. If such
46 individual was sent to the union hiring hall for referral and was not referred
47 back to the Contractor by the union or, if referred, not employed by the
48 Contractor, this shall be documented in the file with the reason therefor,
49 along with whatever additional actions the Contractor may have taken.
50

51 d. Provide immediate written notification to the Director when the union or
52 unions with which the Contractor has a collective bargaining agreement

1 has not referred to the Contractor a minority person or woman sent by the
2 Contractor, or when the Contractor has other information that the union
3 referral process has impeded the Contractor's efforts to meet its
4 obligations.

- 5
- 6 e. Develop on-the-job training opportunity and/or participate in training
7 programs for the area which expressly include minorities and women,
8 including upgrading programs and apprenticeship and trainee programs
9 relevant to the Contractor's employment needs, especially those programs
10 funded or approved by the U.S. Department of Labor. The Contractor
11 shall provide notice of these programs to the sources compiled under 7b
12 above.
- 13
- 14 f. Disseminate the Contractor's EEO policy by providing notice of the policy
15 to unions and training programs and requesting their cooperation in
16 assisting the Contractor in meeting its EEO obligations; by including it in
17 any policy manual and collective bargaining agreement; by publicizing it in
18 the company newspaper, annual report, etc.; by specific review of the
19 policy with all management personnel and with all minority and female
20 employees at least once a year; and by posting the company EEO policy
21 on bulletin boards accessible to all employees at each location where
22 construction work is performed.
- 23
- 24 g. Review, at least annually, the company's EEO policy and affirmative action
25 obligations under these specifications with all employees having any
26 responsibility for hiring, assignment, layoff, termination or other
27 employment decisions including specific review of these items with on-site
28 supervisory personnel such as Superintendents, General Foremen, etc.,
29 prior to the initiation of construction work at any job site. A written record
30 shall be made and maintained identifying the time and place of these
31 meetings, persons attending, subject matter discussed, and disposition of
32 the subject matter.
- 33
- 34 h. Disseminate the Contractor's EEO policy externally by including it in any
35 advertising in the news media, specifically including minority and female
36 news media, and providing written notification to and discussing the
37 Contractor's EEO policy with other Contractors and Subcontractors with
38 whom the Contractor does or anticipates doing business.
- 39
- 40 i. Direct its recruitment efforts, both oral and written to minority, female and
41 community organizations, to schools with minority and female students
42 and to minority and female recruitment and training organizations serving
43 the Contractor's recruitment area and employment needs. Not later than
44 one month prior to the date for the acceptance of applications for
45 apprenticeship or other training by any recruitment source, the Contractor
46 shall send written notification to organizations such as the above,
47 describing the openings, screening procedures, and tests to be used in
48 the selection process.
- 49
- 50 j. Encourage present minority and female employees to recruit other
51 minority persons and women and where reasonable, provide after school,

- 1 summer and vacation employment to minority and female youth both on
2 the site and in other areas of a Contractor's work force.
3
- 4 k. Validate all tests and other selection requirements where there is an
5 obligation 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.,
10 such opportunities.
11
- 12 m. Ensure that seniority practices, job classifications, work assignments and
13 other personnel practices, do not have a discriminatory effect by
14 continually monitoring all personnel and employment related activities to
15 ensure that the EEO policy and the Contractor's obligations under these
16 specifications are being carried out.
17
- 18 n. Ensure that all facilities and company activities are nonsegregated except
19 that separate or single-user toilet and necessary changing facilities shall
20 be provided to assure privacy between the sexes.
21
- 22 o. Document and maintain a record of all solicitations of offers for
23 subcontracts from minority and female construction contractors and
24 suppliers, including circulation of solicitations to minority and female
25 contractor associations and 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,
37 makes every effort to assure that the group has a positive impact on the
38 employment of minorities and women in the industry, ensure that the concrete
39 benefits of the program are reflected in the Contractor's minority and female work-
40 force participation, makes a good faith effort to meet its individual goals and
41 timetables, and can provide access to documentation which demonstrate the
42 effectiveness of actions taken on behalf of the Contractor. The obligation to
43 comply, however, is the Contractor's and failure of such a group to fulfill an
44 obligation shall not be a defense for the Contractor's noncompliance.
45
- 46 9. A single goal for minorities and a separate single goal for women have been
47 established. The Contractor, however, is required to provide equal employment
48 opportunity and to take affirmative action for all minority groups, both male and
49 female, and all women, both minority and non-minority. Consequently, the
50 Contractor may be in violation of the Executive Order if a particular group is
51 employed in substantially disparate manner (for example, even though the
52 Contractor has achieved its goals for women generally, the Contractor may be in

violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

Washington State Dept. of Transportation
Office of Equal Opportunity
PO Box 47314

310 Maple Park Ave. SE
Olympia WA
98504-7314
Ph: 360-705-7090
Fax: 360-705-6801
<http://www.wsdot.wa.gov/equalopportunity/default.htm>

(August 3, 2015)

Disadvantaged Business Enterprise Condition of Award Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

DBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

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

Commercially Useful Function (CUF)

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

DBE Commitment – The dollar amount the Contractor indicates they will be subcontracting to be applied towards the DBE Condition of Award Goal as shown on the DBE Utilization Certification Form, and in the Bid Item break down for each DBE Subcontractor. This DBE Commitment amount will be incorporated into the Contract and shall be considered a Contract requirement. Any changes to the DBE Commitment shall require Engineer's approval.

DBE Condition of Award (COA) Goal – An assigned numerical percentage of the Bid amount of the Contract. This is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by

Good Faith Effort (GFE). The DBE COA Goal will also be applied to change orders associated with this Contract.

DBE Directory of Certified Firms – A publication listing all Minority, Women, and Disadvantaged Business Enterprises currently certified by the Washington State Office of Minority and Women's Business Enterprises (OMWBE). The on-line Directory is available to contractors for their use in identifying and soliciting interest from DBE firms whose participation on a contract may be counted toward achievement of the assigned DBE COA Goal.

Description of Work – Specific descriptions of work that the DBE is certified to perform, as identified in the OMWBE Directory of Certified Firms, under the DBE's profile page.

Good Faith Efforts – Efforts to achieve the DBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

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

Regular Dealer (DBE) – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm shall engage in, as its principal business and in its own name, the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock if it owns or operates distribution equipment. Brokers and packagers shall not be regarded as Regular Dealers within the meaning of this definition.

DBE COA Goal

The Contracting Agency has established a COA Contract Goal in the amount of: *** sixteen percent (16%) of the contract total for COA DBE goals ***

DBE Eligibility/Selection of DBEs

A Directory of Certified Firms is available at the OMWBE web site. A description of specific items of work that a DBE is certified to perform is shown in the directory on the DBE's profile page.

Crediting DBE Participation

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE Subcontractors shall be certified before the subcontract on which it is participating is executed.

DBE participation cannot be counted toward the Contractor's contract goal until the amount being counted has actually been paid to the DBE.

The following are some examples of what may be counted as DBE participation. In all cases the DBE must be certified for the work being considered and must be capable of performing a CUF during the execution of the Work.

DBE Prime Contractor

A DBE Contractor may only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces.

DBE Subcontractor

Only that portion of the total dollar value of the subcontract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. Include the cost of supplies and materials obtained by the DBE for its work on the contract, and equipment leased by the DBE.

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

If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the DBE's Lower-Tier Subcontractor is also a DBE. Work subcontracted to a non-DBE does not count towards the DBE COA Goal.

Count expenditures toward DBE COA Goal only if the DBE is performing a commercially useful function (CUF) on that contract.

DBE Subcontract and Lower Tier Subcontract Documents

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

DBE Broker/Packager

The value of fees or commissions charged by a DBE Broker or a DBE behaving in a manner of a Broker for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance will only be credited towards meeting the DBE COA Goal if the firm is determined to be performing a CUF.

Force Account Work

When the Contractor elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization Certification Form, for the purposes of meeting DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Contractors Commitment to meet the DBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards DBE COA Goal.

1 **Trucking**

2 The DBE trucking firm receives credit for the value of the transportation
3 services it provides on the Contract using trucks it owns or leases, licenses,
4 insures, and operates with drivers it employs.

5
6 The Work that a DBE trucking firm performs with trucks it leases from other
7 certified DBE trucking firms qualify for 100% DBE credit.

8
9 Only the fees/commissions the DBE receives for arranging the transportation
10 services provided is credited when trucks are leased from non-DBE trucking
11 firm. The trucking Work subcontracted to any non-DBE trucking firm will not
12 receive credit for Work done on the project.

13
14 Truck registration and lease agreements shall be readily available at the
15 project site for the Engineer review.

16
17 **DBE Manufacturer and DBE Regular Dealer**

18 If materials or supplies are obtained from a DBE Manufacturer, 100 percent of
19 the cost of materials or supplies can count toward the DBE COA Goal. The
20 DBE Manufacturer shall be certified as such by OMWBE.

21
22 Sixty percent (60%) of the cost of materials or supplies purchased from a DBE
23 Regular Dealer may be credited toward meeting the DBE COA Goal. If the
24 role of the DBE Regular Dealer is determined to be that of a Broker, then the
25 DBE credit shall be limited to the fee or commission it receives for its services.
26 Regular Dealer status is granted on a Contract-by-Contract basis.

27
28 A firm wishing to be approved as a Regular Dealer must submit a request in
29 writing to WSDOT for approval, no later than ten working days prior to Bid
30 opening. The Approved Regular Dealers List is published on WSDOT's Office
31 of Equal Opportunity (OEO) web site.

32
33 Purchase of materials or supplies from a DBE which is neither a manufacturer
34 nor a regular dealer, (i.e. Broker) only the fees or commissions charged for
35 assistance in the procurement of the materials and supplies, or fees or
36 transportation changes for the delivery of materials or supplies required on a
37 job site, can count toward DBE COA Goal, provided the fees are not excessive
38 as compared with fees customarily allowed for similar services. The cost of
39 the materials and supplies themselves cannot be counted toward DBE COA
40 Goal.

41
42 Note: Requests to be listed as a Regular Dealer will only be processed if the
43 requesting firm is certified by the Office of Minority and Women's
44 Business Enterprises in a NAICS code that fall within the 42XXXX
45 NAICS Wholesale code section.

46
47
48 **Disadvantaged Business Enterprise Utilization Certification FORM # 272-056**
49 **EF**

50 To be eligible for award of the Contract, the Bidder shall properly complete and
51 submit a Disadvantaged Business Enterprise Utilization Certification with the
52 Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal.

1 The Bidder's Disadvantaged Business Enterprise Utilization Certification must
2 clearly demonstrate how the Bidder intends to meet the DBE COA Goal. A
3 Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-056
4 EF) is included in your Proposal package for this purpose as well as instructions on
5 how to properly fill out the form.
6

7 The Bidder is advised that the items listed below when listed in the Utilization
8 Certification must have their amounts reduced to the percentages shown and those
9 reduced amounts will be the amount applied towards meeting the DBE COA Goal.
10

- 11 • Force account at 50%
- 12 • Regular dealer at 60%
- 13

14 In the event of arithmetic errors in completing the Disadvantaged Business
15 Enterprise Utilization Certification the amount listed to be applied towards the DBE
16 COA Goal for each DBE shall govern and the DBE total amount shall be adjusted
17 accordingly.
18

19 Note: The Contracting Agency shall consider as non-responsive and shall
20 reject any Bid Proposal submitted that does not contain a
21 Disadvantaged Business Enterprise Utilization Certification Form that
22 accurately demonstrates how the Bidder intends to meet the DBE
23 COA Goal.
24

25 **Disadvantaged Business Enterprise Written Confirmation Document(s) FORM**
26 **# 422-031 EF**

27 The Bidder shall submit a Disadvantaged Business Enterprise Written Confirmation
28 Document (completed and signed by the DBE) for each DBE firm listed in the
29 Bidder's completed Disadvantaged Business Enterprise Utilization Certification
30 submitted with the Bid. Failure to do so will result in the associated participation
31 being disallowed, which may cause the Bid to be determined to be nonresponsive
32 resulting in Bid rejection.
33

34 The Confirmation Documents provide confirmation from the DBEs that they are
35 participating in the Contract as provided in the Contractor's Commitment. The
36 Confirmation Documents must be consistent with the Utilization Certification.
37

38 A Disadvantaged Business Enterprise Written Confirmation Document (form No.
39 422-031 EF) is included in your Proposal package for this purpose.
40

41 The form(s) shall be received as specified in the special provisions for Section 1-
42 02.9 Delivery of Proposal.
43

44 It is prohibited for the Bidder to require a DBE to submit a Written Confirmation
45 Document with any part of the form left blank. Should the Contracting Agency
46 determine that a Written Confirmation Document was signed by a DBE that was not
47 complete; the validity of the document comes into question and the associated DBE
48 participation may not receive credit.
49

50 **Selection of Successful Bidder/Good Faith Efforts (GFE)**

51 The successful Bidder shall be selected on the basis of having submitted the lowest
52 responsive Bid, which demonstrates a good faith effort to achieve the DBE COA

Goal. Achieving the DBE COA Goal may be accomplished in one of two ways, as follows:

1. By meeting the DBE COA Goal

The best indication of GFE is to document, through submission of the Disadvantaged Business Enterprise Utilization Certification and supporting Disadvantaged Business Enterprise Written Confirmation Document(s) that the Bidder has obtained enough DBE participation to meet or exceed the assigned DBE COA Goal. That being the case, no additional GFE documentation is required. Or;

2. By documentation that the Bidder made adequate GFE to meet the DBE COA Goal

The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. In this case, the Bidder must supply GFE documentation in addition to the Disadvantaged Business Enterprise Utilization Certification, and supporting Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s).

Note: In the case where the Bidder was awarded the contract based on demonstrating adequate GFE the advertised DBE COA Goal will not be reduced to the Bidder's partial commitment. Further, the Bidder shall demonstrate a GFE during the life of the Contract to attain the DBE COA Goal as assigned to the project.

GFE documentation shall be received, as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

Based upon all the relevant documentation submitted in Bid or as a supplement to Bid, the Contracting Agency shall determine whether the Bidder has demonstrated sufficient GFE to achieve DBE participation. The Contracting Agency will make a fair and reasonable judgment of whether a Bidder that did not meet the DBE COA Goal through participation, made adequate good faith efforts as demonstrated by the GFE documentation.

Good Faith Effort (GFE) Documentation

The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
2. Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This

1 includes, where appropriate, breaking out contract Work items into
2 economically feasible units to facilitate DBE participation, even when the
3 Contractor might otherwise prefer to perform these Work items with its
4 own forces.

- 5
6 3. Providing interested DBEs with adequate information about the Plans,
7 Specifications, and requirements of the Contract in a timely manner to
8 assist them in responding to a solicitation.

9
10 a. Negotiating in good faith with interested DBEs. It is the Bidder's
11 responsibility to make a portion of the Work available to DBE
12 subcontractors and suppliers and to select those portions of the Work
13 or material needs consistent with the available DBE subcontractors
14 and suppliers, so as to facilitate DBE participation. Evidence of such
15 negotiation includes the names, addresses, and telephone numbers
16 of DBEs that were considered; a description of the information
17 provided regarding the Plans and Specifications for the Work selected
18 for subcontracting; and evidence as to why additional agreements
19 could not be reached for DBEs to perform the Work.

20
21 b. A Bidder using good business judgment would consider a number of
22 factors in negotiating with subcontractors, including DBE
23 subcontractors, and would take a firm's price and capabilities as well
24 as the DBE COA Goal into consideration. However, the fact that there
25 may be some additional costs involved in finding and using DBEs is
26 not in itself sufficient reason for a Bidder's failure to meet the DBE
27 COA Goal, as long as such costs are reasonable. Also, the ability or
28 desire of a Contractor to perform the Work of a Contract with its own
29 organization does not relieve the Bidder of the responsibility to make
30 Good Faith Efforts. Contractors are not, however, required to accept
31 higher quotes from DBEs if the price difference is excessive or
32 unreasonable.

- 33
34 4. Not rejecting DBEs as being unqualified without sound reasons based on
35 a thorough investigation of their capabilities. The Contractor's standing
36 within its industry, membership in specific groups, organizations, or
37 associations and political or social affiliations (for example union vs. non-
38 union employee status) are not legitimate causes for the rejection or non-
39 solicitation of bids in the Contractor's efforts to meet the DBE COA Goal.

- 40
41 5. Making efforts to assist interested DBEs in obtaining bonding, lines of
42 credit, or insurance as required by the recipient or Contractor.

- 43
44 6. Making efforts to assist interested DBEs in obtaining necessary
45 equipment, supplies, materials, or related assistance or services.

- 46
47 7. Effectively using the services of available minority/women community
48 organizations; minority/women contractors' groups; local, State, and
49 Federal minority/women business assistance offices; and other
50 organizations as allowed on a case-by-case basis to provide assistance in
51 the recruitment and placement of DBEs.
52

- 1 8. Documentation of GFE must include copies of each DBE and non-DBE
2 subcontractor quotes submitted to the Bidder when a non-DBE
3 subcontractor is selected over a DBE for Work on the Contract. (ref.
4 updated DBE regulations – 26.53(b)(2)(vi) & App. A)
5

6 **Administrative Reconsideration of GFE Documentation**

7 Any Bidder has the right to reconsideration but only for the purpose of reassessing
8 the GFE documentation that was originally submitted with their Bid, and determined
9 to be inadequate.

- 10
- 11 • The Bidder must request within 48 hours of GFE determination and
12 schedule a reconsideration hearing within seven calendar days of
13 notification of being nonresponsive or forfeit the right to reconsideration.
14
 - 15 • The reconsideration decision on the adequacy of the Bidder's GFE
16 documentation shall be made by an official who did not take part in the
17 original determination.
18
 - 19 • Only the GFE documentation submitted and evaluated to meeting the
20 required DBE COA Goal shall be considered. Bidder shall not introduce
21 new documentation at the reconsideration hearing.
22
 - 23 • The Bidder shall have the opportunity to meet in person with the official for
24 the purpose of setting forth the Bidder's position as to why the GFE
25 documentation demonstrates a sufficient effort.
26
 - 27 • The reconsideration official shall provide the Bidder with a written decision
28 on reconsideration within five working days of the hearing explaining the
29 basis for their finding.
30

31 **Procedures between Award and Execution**

32 After Award and prior to Execution, the Contractor shall provide the additional
33 information described below. Failure to comply shall result in the forfeiture of the
34 Bidder's Proposal bond or deposit.
35

- 36 1. Additional information for all successful DBEs as shown on the
37 Disadvantaged Business Enterprise Utilization Certification:
38
- 39 a. Correct business name, federal employee identification number (if
40 available), and mailing address.
41
 - 42 b. List of all Bid items (with a clear description of the Work to be
43 performed) assigned to each successful DBE, including the dollar
44 value.
45
 - 46 c. Description of partial items (if any) to be sublet to each successful
47 DBE specifying the Work committed under each item to be performed
48 and including the dollar value of the DBE portion.
49
 - 50 d. Total amounts shown for each DBE shall match the amount shown on
51 the Disadvantaged Business Enterprise Utilization Certification. A
52 breakdown that does not conform to the Disadvantaged Business

Enterprise Utilization Certification or that demonstrates a different amount of DBE participation than that included in the Disadvantaged Business Enterprise Utilization Certification will be returned for correction.

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

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

Procedures after Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material and installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The Engineer will use the following factors in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation. The owner demonstrates business related knowledge, shows up on site and is active in running the business.
- The DBE finances are independently controlled by the DBE.

- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. Employees are shown exclusively on the DBE payroll.
- The DBE may lease trucks without drivers from a non-DBE truck leasing company. If the DBE leases trucks from a non-DBE truck leasing company and uses its own employees as drivers, it is entitled to credit for the total value of these hauling services.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.
- Leased trucks shall be driven by DBE employees included in the DBE's payroll.

The DBE may lease trucks from another DBE including a DBE owner-operator. The DBE who leases trucks from another DBE shall claim participation for the total value of the transportation services the lessee DBE provides on the Contract.

Joint Checking

A joint check is issued by a Contractor to a Subcontractor and to a material supplier for items or services to be incorporated into a project.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material and installing (where applicable) and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

Prompt Payment

Refer to Section 1-08.1 for Prompt Payment requirements associated with this contract.

Reporting

All certified DBE Work whether COA or race neutral participation is reported. The Contractor shall submit a Monthly Report of Amounts Credited as DBE Participation to the Project Engineer each month, regardless of whether payments were made or Work occurred, between Execution of the Contract and the final amounts paid to DBE contractor or Completion of the Contract using the application available at: <https://remoteapps.wsdot.wa.gov/mapsdata/tools/dbeparticipation/>. The monthly report is due 20 calendar days following the end of the month. After Execution of the Contract, the Contractor shall send an e-mail to DBEPAdmin@wsdot.wa.gov containing the following information: the first and last name, e-mail address, title and phone number of the person that will be submitting the above documents for the Contractor. The e-mail shall include the WSDOT contract number they will be reporting on. After receipt of this information by WSDOT, the Contractor will receive an e-mail containing their username and password for the application and a link to the application. Reporting instructions are available in the application.

In the event that the payments to a DBE contractor have been made by an entity other than the Contractor, as in the case of a lower-tier Subcontractor or supplier, then the Contractor shall obtain evidence of payments from the paying entity and report these payments to the Engineer.

Changes in COA Work Committed to DBE

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless approved by the Engineer. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs.

Owner Initiated Changes

The Engineer will consider the impact on DBE participation in instances where the Engineer changes Work that was committed to a DBE at the time of Contract Award. In such instances, the Contractor shall not be required to substitute for the Work but is encouraged to do so. The Engineer may direct DBE participation or solicitation of DBEs as part of a change order.

Contractor-Initiated Changes

The Contractor cannot reduce the amount of work of a COA DBE without good cause, even if the Contractor continues to meet the DBE COA Commitment through other means. Reducing a COA DBE's Commitment is viewed as a partial DBE termination, subject to the procedures below.

Original Quantity Under runs

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor is encouraged to substitute the remaining applicable Work to another DBE but is not required to do so.

Contractor Proposed DBE Substitutions

Requests to substitute a COA DBE must be for good cause (see DBE termination process below), and requires the written approval of the Engineer.

After receiving a termination with good cause approval, the Contractor may only replace a DBE with another certified DBE. When any changes encountered between Contract Award and Execution that result in a substitution of COA DBE, the substitute DBE shall be certified prior to the due date for bids on the Contract.

DBE Termination

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part with prior written approval of the Engineer. The Contractor must have good cause to terminate a COA DBE.

Good cause typically includes situations where the DBE Subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The DBE fails or refuses to execute a written contract.
- The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The DBE voluntarily withdraws from the project, and provides written notice of its withdrawal.
- The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the contract.
- The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.
- The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA DBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely

1 payments or the unnecessary placing of obstacles in the path of the
2 DBE's Work).

3
4 Prior to requesting termination, the Contractor shall give notice in writing to the
5 DBE with a copy to the Engineer of its intent to request to terminate DBE Work
6 and the reasons for doing so. The DBE shall have five (5) working days to
7 respond to the Contractor's notice. The DBE's response shall either support
8 the termination or advise the Engineer and the Contractor of the reasons it
9 objects to the termination of its subcontract.

10
11 When a COA DBE is terminated, or fails to complete its work on the contract
12 for any reason, the Contractor shall substitute with another DBE, substitute
13 other DBE participation or provide documentation of GFE. A plan to achieve
14 the COA DBE Commitment shall be submitted to the Engineer within 2 working
15 days of the approval of termination or the Contract shall be suspended until
16 such time the substitution plan is submitted.

17 **Decertification/Graduation**

18 When a DBE is "decertified" or "graduates" from the DBE program during the
19 course of the Contract, the participation of that DBE shall continue to count
20 towards the DBE COA Goal as long as the subcontract with the DBE was
21 executed prior to the decertification notice. The Contractor is obligated to
22 substitute when a DBE does not have an executed subcontract agreement at
23 the time of decertification/graduation.

24 **Consequences of Non-Compliance**

25 **Breach of Contract**

26 Each contract with a Contractor (and each subcontract the Contractor signs
27 with a Subcontractor) must include the following assurance clause:

28 The Contractor, subrecipient, or Subcontractor shall not discriminate on the
29 basis of race, color, national origin, or sex in the performance of this contract.
30 The Contractor shall carry out applicable requirements of 49 CFR Part 26 in
31 the award and administration of DOT-assisted contracts. Failure by the
32 Contractor to carry out these requirements is a material breach of this contract,
33 which may result in the termination of this contract or such other remedy as the
34 recipient deems appropriate, which may include, but is not limited to:

- 35 (1) Withholding monthly progress payments;
- 36 (2) Assessing sanctions;
- 37 (3) Liquidated damages; and/or
- 38 (4) Disqualifying the Contractor from future bidding as non-responsible.

39 **Notice**

40 If the Contractor or any Subcontractor, Consultant, Regular Dealer, or service
41 provider is deemed to be in non-compliance, the Contractor will be informed in
42 writing, by certified mail by the Engineer that sanctions will be imposed for
43 failure to meet the DBE COA Commitment and/or submit documentation of
44 good faith efforts. The notice will state the specific sanctions to be imposed
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which may include impacting a Contractor or other entity's ability to participate in future contracts.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the DBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

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

Federal Agency Inspection

Section 1-07.12 is supplemented with the following:

(January 25, 2016)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised May 1, 2012 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each Subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each Subcontract requiring the Subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier Subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

Protection and Restoration of Property

Private/Public Property

Section 1-07.16(1) is supplemented with the following:

(**)***

Staging Area

The site labeled **Temporary Construction Easement #3** on the Alignment/Right of Way Plan has been obtained for use by the Contractor as a staging area. In accordance with Section 1-05.3, the Contractor shall provide Type 2 Working

Drawings to the Engineer for acceptance a minimum of 20 working days prior to using the area for staging. The Working Drawings shall indicate, as a minimum, the following:

1. Secondary containment, if needed
2. Fencing required, including delineation of sensitive areas
3. Parking areas for Contractor's employees and agents
4. Structures, if any
5. Temporary water pollution/erosion control measures
6. Restoration of the site to original conditions

The area to be used shall be staked by the Contractor for acceptance by the Engineer. Grading of the site shall not be allowed.

The use of this site is a privilege granted to the Contractor. Control of the site shall remain with the Contracting Agency and the Contractor shall vacate the site within *** 30 *** working days following written notice by the Engineer to vacate.

Vegetation Protection and Restoration

Section 1-07.16(2) is supplemented with the following:

(August 2, 2010)

Vegetation and soil protection zones for trees shall extend out from the trunk to a distance of 1 foot radius for each inch of trunk diameter at breast height.

Vegetation and soil protection zones for shrubs shall extend out from the stems at ground level to twice the radius of the shrub.

Vegetation and soil protection zones for herbaceous vegetation shall extend to encompass the diameter of the plant as measured from the outer edge of the plant.

Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:

(April 2, 2007)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

*** Woodinville Water District
ATTN: Christian Hoffman
17238 NE Woodinville-Duvall Road
Woodinville, WA 98072-1390
christian@woodinvillewater.com
425-487-4142

Puget Sound Energy – Power

ATTN: Mike Schroyer
1660 Park Lane
Burlington, WA 98233
michael.schroyer@pse.com
360-766-5464

Puget Sound Energy – Gas
ATTN: Jeanne Coleman
13230 SE 32nd Street
Bellevue, WA 98005
jeanne.coleman@pse.com
425-449-7410

Public Liability and Property Damage Insurance

(*****)

Section 1-07.18 Item 4 is supplemented with the following:

All insurance policies, with the exception of Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):
Woodinville Water District, CHS Engineers, LLC, and all their elected or appointed officers, employees, agents and volunteers.

Public Convenience and Safety

Construction Under Traffic

Section 1-07.23(1) is supplemented with the following:

(January 2, 2012)

Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10 *
40 mph	15
45 to 55 mph	20
60 mph or greater	30

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

(*****)

Lane, Ramp, and Sidewalk Closure Restrictions

Lane, ramp, and sidewalk closures are prohibited at all times except as provided in these Special Provisions.

Nightly Lane Closures

Unless specified elsewhere in these Special Provisions, nightly lane closures will be permitted as follows:

1. Eastbound SR 202 (one thru lane open)

Sunday 9:00 p.m. to Monday 5:00 a.m.
Monday 9:00 p.m. to Tuesday 5:00 a.m.
Tuesday 9:00 p.m. to Wednesday 5:00 a.m.
Wednesday 9:00 p.m. to Thursday 5:00 a.m.
Thursday 9:00 p.m. to Friday 5:00 a.m.
Saturday 9:00 p.m. to Sunday 6:00 a.m.

2. Westbound SR 202 (one thru lane open)

Sunday 9:00 p.m. to Monday 5:00 a.m.
Monday 9:00 p.m. to Tuesday 5:00 a.m.
Tuesday 9:00 p.m. to Wednesday 5:00 a.m.
Wednesday 9:00 p.m. to Thursday 5:00 a.m.
Thursday 9:00 p.m. to Friday 5:00 a.m.
Saturday 9:00 p.m. to Sunday 6:00 a.m.

Nightly Ramp Lane Closures

Except as specified elsewhere in these Special Provisions, ramp lane closures will be permitted as follows:

1
2 **1. The Eastbound SR 522 off-ramp to Eastbound SR 202 right turn lane**
3 **may be closed a maximum of 60 times, in addition to the closures**
4 **specified as part of the Continuous Weekend Full Closure with**
5 **Associated Ramp Lane Closure, as follows:**
6

7 Sunday 9:00 p.m. to Monday 5:00 a.m.
8 Monday 9:00 p.m. to Tuesday 5:00 a.m.
9 Tuesday 9:00 p.m. to Wednesday 5:00 a.m.
10 Wednesday 9:00 p.m. to Thursday 5:00 a.m.
11 Thursday 9:00 p.m. to Friday 5:00 a.m.
12 Saturday 9:00 p.m. to Sunday 6:00 a.m.
13

14 **Continuous Weekend Full Closure with Associated Ramp Lane Closure**
15

16 The Contractor will be allowed to close all lanes of SR 202 from 10:00 p.m.
17 Friday through 5:00 a.m. Monday unless restricted elsewhere in the Special
18 Provisions.
19

20 The Eastbound SR 522 off-ramp to Eastbound SR 202 right turn lane shall be
21 closed from Friday 10:00 p.m. to Monday 5:00 a.m.
22

23 A maximum of one (1) continuous weekend full closure will be permitted
24 between January 2nd and March 31st of the same year.
25

26 The Contractor shall allow vehicular and pedestrian access to the local
27 businesses between Little Bear Creek and SR 522 as follows during the
28 continuous weekend full closure:
29

30 Friday 9:30 a.m. to Friday 11:30 p.m.
31 Saturday 9:30 a.m. to Saturday 11:30 p.m.
32 Sunday 10:00 a.m. to Sunday 11:00 p.m.
33

34 **General**

35 At no time will the Contractor be allowed to reduce lane widths to less than 11
36 feet.
37

38 At no time will the Contractor be allowed to close sidewalks unless expressly
39 allowed in the Contract.
40

41 Construction vehicles using a closed traffic lane shall travel only in the normal
42 direction of traffic flow unless expressly allowed in an approved traffic control
43 plan. Construction vehicles shall be equipped with flashing or rotating amber
44 lights.
45

46 **Closure Restrictions**

47 If the Engineer determines the permitted closure hours adversely affect traffic,
48 the Engineer may adjust the hours accordingly. The Engineer will notify the
49 Contractor in writing of any changes in the closure hours.
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Holiday and Event Restrictions

Unless specified in these Special Provisions, no lane, ramp, or shoulder closures will be allowed on a holiday or holiday weekend, or after 12:00 p.m. (noon) on a day prior to a holiday or holiday weekend. Holidays that occur on Friday, Saturday, Sunday, or Monday are considered a holiday weekend. No lane, ramp, or shoulder closures will be allowed from midnight through noon the day following a holiday or holiday weekend except as specified in these Special Provisions.

No lane, ramp, or shoulder closures will be allowed during the following time periods:

Annual Seafair Hydroplane Race Weekend:

Friday 11:59 a.m. to Sunday 8:00 p.m.

Miscellaneous Special Events – The two-hour period prior to and the two-hour period after the following miscellaneous special events:

- | | |
|------------------|---|
| May | McLendon Hardware Anniversary Sale |
| | McLendon Hardware Annual Plant Sale |
| June/July/August | Celebrate Woodinville Summer Concerts in the Park |
| | Chateau Ste. Michelle Summer Concert Series |
| July | Cystic Fibrosis: Cycle for Life |
| August | Celebrate Woodinville Summer Festival |
| | RAW: Ride Around Washington |
| | RSVP 1 & 2: Ride Seattle to Vancouver (BC) |
| | Columbia Winery Charity Run/Walk |
| | Gigantic Century |
| | Ride to Conquer Cancer |
| September | Labor Day Half & 4K |
| | Susan G Komen 3-Day for the Cure |
| | MayaRides |
| | Cycle the Wave |

(*****)

1 **Advance Notification**

2 The Contractor shall notify the Engineer in writing a minimum of 14 calendar days
3 in advance of any ramp or continuous weekend closure.

4
5 The Contractor shall notify the Engineer in writing a minimum of 10 calendar days
6 in advance of any lane closure.

7
8 These notifications do not imply that the closure will be approved.

9
10 The Contractor shall submit a detailed schedule which includes all dates and times
11 for traffic control needs for each lane, or ramp closure associated with the approved
12 Traffic Control Plans to the Engineer for review and approval by 12:00 p.m. (noon)
13 of the Monday 21 calendar days prior to implementing the Traffic Control Plan. The
14 schedule shall include dates, times, and identification of critical path work activities
15 that require traffic control. Due to other work in the area, submittal of the detailed
16 traffic control schedule does not ensure approval of the dates and times included in
17 the proposed schedule. Within 14 calendar days of submittal, the Engineer will
18 notify the Contractor of approval of all or portions of the traffic control schedule.
19 Any change to the approved schedule shall be resubmitted to the Engineer and
20 shall restart the review and approval process.

21
22 **(NWR March 6, 2000)**

23 **Public Notification**

24 The Contractor shall furnish and install information signs that provide advance
25 notification of a ramp closure, road closure, or both, a minimum of five working
26 days prior to the closure. The signs shall have a black legend on a white reflective
27 background. Sign locations, messages, letter sizes, and sign sizes are shown in
28 the Plans.

29
30 The Contractor shall notify the Washington State Patrol; local fire, police,
31 emergency service, and city engineering departments; Medic 1 and Metro Transit
32 (206-684-2732) when applicable; other transit companies; and the affected school
33 district(s) in writing a minimum of five working days prior to each closure. The
34 Contractor shall furnish copies of these notifications to the Engineer.

35
36 ***Construction and Maintenance of Detours***

37
38 Section 1-07.23(2) is supplemented with the following:

39
40 (NWR March 6, 2000)

41 Detour routes shall be provided as shown in the Plans.

42
43 **Rights of Way**

44
45 Section 1-07.24 is supplemented with the following:

46
47 (*****)

48 The Contractor shall make eleven (11) marked, unobstructed parking spaces available
49 at all times within the limits of the site labeled **Temporary Construction Easement #5**
50 on the Alignment/Right of Way Plan between October 16th and April 30th. The marked
51 parking spaces shall be on either pavement or another firm surface suitable for parking.

1 The Contractor shall not place vehicles and/or equipment within the limits of **Temporary**
2 **Construction Easement #5** during non-working hours.

3 4 **Prosecution and Progress**

5 6 **Subcontracting**

7
8 Section 1-08.1 is supplemented with the following:

9
10 (October 12, 1998)

11 Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor
12 shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written
13 agreement between the Contractor and the subcontractor or between the subcontractor
14 and any lower tier subcontractor has been executed. This certification shall also
15 guarantee that these subcontract agreements include all the documents required by the
16 Special Provision **Federal Agency Inspection**.

17
18 A Subcontractor or lower tier Subcontractor will not be permitted to perform any work
19 under the contract until the following documents have been completed and submitted to
20 the Engineer:

- 21
22 1. Request to Sublet Work (Form 421-012 EF), and
23 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for
24 Federal-aid Projects (Form 420-004 EF).

25
26 The Contractor's records pertaining to the requirements of this Special Provision shall
27 be open to inspection or audit by representatives of the Contracting Agency during the
28 life of the contract and for a period of not less than three years after the date of
29 acceptance of the contract. The Contractor shall retain these records for that period.
30 The Contractor shall also guarantee that these records of all Subcontractors and lower
31 tier Subcontractors shall be available and open to similar inspection or audit for the
32 same time period.

33 34 **Progress Schedule**

35 36 **General Requirements**

37
38 The first sentence of Section 1-08.3(1) is revised to read:

39
40 (August 6, 2006)

41 The Contractor shall submit Type C Progress Schedules and Schedule Updates to
42 the Engineer for approval.

43 44 **Progress Schedule Types**

45
46 Section 1-08.3(2) is revised to read:

47
48 (August 1, 2011)

49 Type A Progress Schedules are required on all projects that do not contain the bid
50 item for Type B or Type C Progress Schedules. Type B or Type C Progress
51 Schedules are required on all projects that contain the bid item for Type B or Type

C Progress Schedule. Weekly Look-Ahead Schedules and Schedule Updates are required on all projects.

(January 5, 2015)

Type C Progress Schedule

Type C Progress Schedules shall conform to all of the requirements of Section 1-08.3(2)B and this Section.

The Contractor shall submit a printed copy of a preliminary Type C Progress Schedule no later than the first working day as defined in Section 1-08.5. The preliminary schedule shall comply with all of these requirements and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60 working days of the project.

The Contractor shall submit a printed copy of a Type C Progress Schedule no later than 60 calendar days after the date the contract is executed.

Each time that a preliminary schedule, Progress Schedule, or Schedule Update is submitted, the Contractor shall provide the Engineer with an electronic copy (.xer file type extension) of that schedule. Each submitted progress and update schedule shall have a unique file name and date identifier. Regardless of the type of software used, the schedule data provided to the Engineer shall be saved on a CD-ROM in Primavera Project Manager Enterprise Version, P6 7.0 or later version.

Type C Progress Schedules shall display at least the following additional information:

1. A time scaled logic diagram.
2. Activities for traffic detours and closures.
3. Milestones for required delivery of State furnished materials, if any.
4. Activities for State furnished traffic control resources, if any.
5. Activities for fabrication of materials longer than 90 calendar days lead time.
6. Fixed constraints shall be identified on the activity listing, supplemented with a written narrative describing why the constraint exists.
7. Milestones for interim or stage completion dates.
8. Activities for scheduled outages on illumination systems, ITS systems, traffic signal systems and other electrical service outages.
9. Nighttime activities shall be so coded.
10. Activities for all submittals requiring State review, including the allowable review duration.

All calendars used shall be created as project calendars, not global or resource calendars. If multiple calendars are applied to the Progress Schedule, the Contractor shall submit a written narrative describing each one's purpose.

Schedule files shall not contain User Defined Fields (UDF's), all activity codes shall be project level, no resources shall be assigned to activities and no project codes shall be assigned.

1
2 If requested by the Engineer, the Contractor shall supplement the Progress
3 Schedule with written explanations for each lead and lag time used, and a
4 written explanation describing the assumed production rates and planned
5 resource allocations to support the activity durations provided in the schedule.
6 The written explanations shall be documented as a notebook topic under
7 "Assumptions and Basis".
8

9 Section 1-08.3(2) is supplemented with the following:

10
11 (*****)

12 **Continuous Weekend Full Closure Supplemental Schedule**

13 The Contractor shall submit a supplemental progress schedule showing work
14 to be performed during the continuous weekend full closure along with
15 associated traffic control Plans to the Engineer a minimum of 21 calendar days
16 prior to the weekend closure. The Contractor shall also submit a hard copy
17 and an electronic copy of the supplemental progress schedule. The
18 supplemental schedule time increments shall be one hour. The supplemental
19 schedule shall detail any planned use of multiple crews and equipment on the
20 project. At a minimum, the work activities listed in the Special Provision **Order**
21 **of Work** shall be shown on the supplemental schedule. Throughout the
22 continuous weekend full closure, the Contractor shall closely monitor the Work.
23 If work is delayed for any reason, the Contractor shall immediately notify the
24 Engineer and provide a brief narrative describing the cause of the delay, and
25 the Contractor's proposal for recovering the schedule.
26

27 All costs associated with the development and submittal of the supplemental
28 progress schedule shall be included in the costs of other Bid items of Work in
29 the Contract.
30

31 **Weekly Look-Ahead Schedule**

32
33 The first sentence of Section 1-08.3(2)D is revised to read as follows:

34
35 (NWR November 10, 2014)

36 Each week that Work will be performed, the Contractor shall submit a Weekly
37 Look-Ahead Schedule showing the Contractor's and all Subcontractors'
38 proposed Work activities for the next three weeks.
39

40 ***Schedule Updates***

41
42 Section 1-08.3(3) is revised to read:

43
44 (January 2, 2012)

45 The Contractor shall submit a printed copy of a Type C Schedule Update to the
46 Engineer by the first business day of each month, starting the month after the
47 Progress Schedule is accepted, or some other mutually agreed upon submittal
48 time.
49

50 In addition to the other requirements of this Section, Schedule Updates shall reflect
51 at least the following information:
52

1. The actual duration and sequence of as-constructed work activities, including changed work.
2. Approved time extensions.
3. Any construction delays or other conditions that affect the progress of the work.
4. Any modifications to the as-planned sequence or duration of remaining activities, supplemented with a written narrative describing each change and the reason for the change.
5. The physical completion of all remaining work in the remaining contract time.
6. Progress on partially completed activities shall be indicated using percent complete.

Activity numbers on Schedule Updates shall be the same as the Progress Schedule, with the exception of deleted or added activities.

Unresolved requests for time extensions shall be reflected in the Schedule Update by assuming no time extension will be granted, and by showing the effects to follow-on activities necessary to physically complete the project within the currently authorized time for completion.

Measurement

Section 1-08.3(4) is revised to read:

(August 5, 2013)

Schedule Updates will be measured per each for each update submitted and approved per the requirements of Section 1-08.3(3). Schedule updates that are returned for correction will not be measured.

Payment

Section 1-08.3(5) is revised to read:

(December 1, 2008)

Payment will be made in accordance with Section 1-04.1, for the following bid item when it is included in the proposal:

"Type C Progress Schedule", lump sum.

The Lump Sum price for "Type C Progress Schedule" shall be full payment for all costs for furnishing the Type C Progress Schedule and preliminary Type C Progress Schedule.

"Schedule Update", per each.

The unit Contract price per each "Schedule Update" shall be full payment for all costs required to complete the work specified in Section 1-08.3(3).

All costs for providing Weekly Look-Ahead Schedules are considered incidental to the contract and are to be included with other bid items.

Prosecution of Work

Section 1-08.4 is supplemented with the following:

(*****)

Interim Configuration Plan

The Contractor shall develop an Interim Configuration Plan for approval by the Engineer identifying the interim roadway configuration to be in place following the continuous weekend full closure allowed in Subsection **Continuous Weekend Full Closure with Associated Ramp Closure** of the Special Provision **Lane, Ramp and Roadway Closures**. Depending upon how much work is completed; the Interim Configuration Plan may require traffic control devices such as temporary concrete barrier, pylons, fencing and other work necessary to protect the travelling public. The Contractor is advised that completing the weekend work will require a large amount of field staff, equipment, and materials, coordinated concurrently within a constrained work area, far beyond that typically expected on other projects. The Contractor should expect that multiple crews and equipment working multiple shifts will be necessary to accomplish the Work within the required timeframe. The Interim Configuration Plan shall be approved prior to commencing any continuous weekend full closure work. At the end of the allowed continuous weekend full closure, the Contractor shall re-open SR 202 with three (3) eleven-foot wide WB lanes, two (2) eleven-foot wide EB lanes, and one (1) ADA-compliant five-foot wide pedestrian pathway. The minimum compacted HMA depth shall be 0.65 feet.

The Contractor shall have 6 eleven-foot wide lanes with a minimum compacted HMA depth of 0.65 feet and one ADA-compliant five-foot wide pedestrian pathway open on SR 202 in accordance with all applicable standards and requirements no more than 14 calendar days after the end of the continuous weekend full closure allowed in Subsection **Continuous Weekend Full Closure with Associated Ramp Closure** of the Special Provision **Lane, Ramp and Roadway Closures** and in accordance with the Special Provision **Referencing Existing Pavement Markings**.

The Contractor shall restore SR 202 to its ultimate configuration no more than 30 calendar days after the end of the continuous weekend full closure allowed in Subsection **Continuous Weekend Full Closure with Associated Ramp Closure** of the Special Provision **Lane, Ramp and Roadway Closures** and in accordance with the Special Provision **Referencing Existing Pavement Markings**.

Payment

Payment will be made in accordance with Section 1-04.1 for the following bid item when included in the proposal:

“Interim Configuration Plan”, lump sum

The lump sum contract price for “Interim Configuration Plan” shall be full pay for all costs associated with developing and implementing the Interim Configuration Plan, including but not limited to all equipment, materials, temporary traffic control devices, and labor necessary to perform the Work as specified.

Time for Completion

Section 1-08.5 is supplemented with the following:

(March 13, 1995)

This project shall be physically completed within *** 180 *** working days.

Liquidated Damages

Section 1-08.9 is supplemented with the following:

(*****)

The closure of SR 202 mainline lanes will result in substantial traffic impacts. These closures will cause delays to the travelling public, increase fuel consumption, vehicle operating cost, pollution, and other inconveniences and harm.

Accordingly, the Contractor agrees:

1. To pay \$1,500.00 liquidated damages for each 15 minute period prorated to the nearest 5 minutes that mainline SR 202 is closed following a continuous weekend full closure beyond the scheduled opening time specified in the Subsection **Public Convenience And Safety** of the Special Provision **LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**.
2. To pay \$500.00 liquidated damages for each 15 minute period prorated to the nearest 5 minutes that a lane on SR 202 including associated ramp lanes are closed beyond the scheduled opening time specified in the Subsection **Public Convenience And Safety** of the Special Provision **LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**.
3. To authorize the Engineer to deduct these liquidated damages from any money due or coming due the Contractor.

Measurement and Payment

Payment For Material On Hand

The last paragraph of Section 1-09.8 is revised to read:

(August 3, 2009)

The Contracting Agency will not pay for material on hand when the invoice cost is less than \$2,000. As materials are used in the work, credits equaling the partial payments for them will be taken on future estimates. Each month, no later than the estimate due date, the Contractor shall submit a letter to the Project Engineer that clearly states: 1) the amount originally paid on the invoice (or other record of production cost) for the items on hand, 2) the dollar amount of the material incorporated into each of the various work items for the month, and 3) the amount that should be retained in material on hand items. If work is performed on the items and the Contractor does not submit a letter, all of the previous material on hand payment will be deducted on the estimate. Partial payment for materials on hand shall not constitute acceptance. Any material will be rejected if found to be faulty even if partial payment for it has been made.

1
2 **Payments**

3
4 ***Retainage***

5
6 Section 1-09.9(1) content and title is deleted and replaced with the following:

7
8 (June 27, 2011)
9 Vacant

10
11 **Temporary Traffic Control**

12
13 **General**

14
15 ***Description***

16
17 Section 1-10.1(2) is supplemented with the following:

18
19 (*****)

20 The Contractor shall provide, monitor, and provide direction to Uniformed Police
21 Officers having jurisdiction in the area to participate in the Contractor's traffic
22 control activities as shown in the Plans. As stated in the last paragraph of Section
23 1-10.1(2), the responsibility for all traffic control shall remain with the Contractor.
24 Uniformed Police Officer personnel may be utilized to perform the following traffic
25 control tasks:

26
27 Provide detour traffic control during the continuous weekend full closure

28
29 The following contact information for potential service providers is supplied for the
30 Contractor's convenience:

31
32 ***King County Police Officers Guild
33 206-957-0934
34 info@kcpog.com ***

35
36 **Traffic Control Management**

37
38 ***General***

39
40 Section 1-10.2(1) is supplemented with the following:

41
42 (January 8, 2016)

43 Only training with WSDOT TCS card and WSDOT training curriculum is recognized
44 in the State of Washington. The Traffic Control Supervisor shall be certified by one
45 of the following:

46
47 The Northwest Laborers-Employers Training Trust
48 27055 Ohio Ave.
49 Kingston, WA 98346
50 (360) 297-3035

51
52 Evergreen Safety Council

1 12545 135th Ave. NE
2 Kirkland, WA 98034-8709
3 1-800-521-0778 or
4 (425) 814-3930
5

6 The American Traffic Safety Services Association
7 15 Riverside Parkway, Suite 100
8 Fredericksburg, Virginia 22406-1022
9 Training Dept. Toll Free (877) 642-4637
10 Phone: (540) 368-1701
11

12 **Traffic Control Labor, Procedures and Devices**

13 ***Traffic Control Labor***

14
15
16 Section 1-10.3(1) is supplemented with the following:

17
18 (*****)

19 The Contractor shall develop a Pedestrian Detour Plan for approval by the
20 Engineer identifying how bicyclists, wheelchair users, and pedestrians will have
21 access through or around the work zone during the Continuous Weekend Full
22 Closure work. The Pedestrian Detour Plan shall be approved prior to commencing
23 any Continuous Weekend Full Closure work. The Pedestrian Detour Plans shall
24 have a maximum wait time of 5 minutes prior to the public being escorted through
25 or around the work zone.
26

27 ***Traffic Control Devices***

28
29 Section 1-10.3(3) is supplemented with the following:

30
31 (*****)

32 **Temporary Street Plate**

33 Temporary street plates may be used to protect excavated areas that will be
34 exposed to traffic loading. The Contractor shall design and install temporary, non-
35 skid street plates capable of supporting HL-93 loading and shall maintain the plates
36 until backfill material and pavement are placed to fill voids. The temporary street
37 plates shall be installed flush with the surrounding pavement and shall be anchored
38 to prevent movement by traffic.
39

40 **Measurement**

41 ***Item Bids With Lump Sum for Incidentals***

42
43
44 Section 1-10.4(2) is supplemented with the following:

45
46 (August 2, 2004)

47 The bid proposal does not contain the item "Project Temporary Traffic Control,"
48 lump sum. The provisions of Section 1-10.4(2) shall apply.
49

50 **Payment**

1 **Item Bids with Lump Sum for Incidentals**

2
3 Section 1-10.5(2) is supplemented with the following:

4
5 (*****)

6 "Contractor Provided Uniformed Police Officer" per hour.

7
8 The unit Contract price per hour for "Contractor Provided Uniformed Police Officer"
9 shall be full pay for performing the work as specified, including all costs for
10 planning, scheduling, arrangement for and supervision of a uniformed law
11 enforcement personnel and vehicles to participate in the Contractor's traffic control
12 activities.

13
14 (*****)

15 "Temporary Street Plate", lump sum.

16
17 The Lump Sum price for "Temporary Street Plate" shall be full payment for all costs
18 associated with designing, furnishing, installing, maintaining, resetting and
19 removing temporary street plates.

20
21 The second bid item under section 1-10.5(2) is supplemented with the following:

22
23 (*****)

24 All costs associated with developing and implementing the Pedestrian Detour Plan,
25 including but not limited to all vehicles, traffic control labor, and flaggers/spotters
26 necessary to provide pedestrian and bicyclist assistance during the Continuous
27 Weekend Closure, shall be included in the lump sum Contract price for "Pedestrian
28 Traffic Control".

29
30 **Division 2**
31 **Earthwork**

32
33 **Clearing, Grubbing, and Roadside Cleanup**

34
35 **Description**

36
37 Section 2-01.1 is supplemented with the following:

38
39 (*****)

40 This work includes the application of herbicide to the clearing areas prior to clearing to
41 accommodate the work and preserve vegetation. Refer to the Plans for limits of
42 herbicide application.

43
44 **Construction Requirements**

45
46 **Clearing**

47 Section 2-01.3(1) is supplemented with the following:

48
49 (*****)

50 **Herbicide Applications Prior to Clearing**

51 The living unwanted vegetation as defined below shall be treated with an approved
52 herbicide two times prior to vegetation and soil disturbance within the specified site.

Unwanted Vegetation

In addition to noxious weeds, unwanted vegetation within roadside and mitigation areas throughout the project limits includes:

- Butterfly bush (*Buddleia* spp.)
- Canadian thistle (*Cirsium arvense*)
- Common reed (*Phragmites australis*)
- Evergreen blackberry (*Rubus laciniatus*)
- Giant hogweed (*Heracleum Mantegazzianum*)
- Hedge bindweed (*Calystegia sepium*)
- Himalayan blackberry (*Rubus discolor* or *R. procerus*)
- Knotweed (*Polygonum cuspidatum*, *P. bohemicum*, *P. sachalinense*, *P. polystachyum*)
- Purple loosestrife (*Lythrum salicaria*)
- Reed Canarygrass (*Phalaris arundinacea*)
- Scotch broom (*Cytisus scoparius*)
- ***Black Locust (*Robinia pseudoacacia*)***

The Contractor shall include the proposed timing of this work in the progress schedule in accordance with Section 1-08.3. The Weed and Pest Control Plan as specified in Section 8-02.3(2) shall be submitted and approved prior to beginning this work.

Herbicide applications shall be made between March 1 and September 30. Two weeks or more after the first herbicide application and prior to clearing and grubbing, the Contractor shall cut and clear dead vegetation to ground level and dispose of it outside of the project limits.

The second application shall be made after eight weeks or when the vegetation has regrown to a minimum of six inches in height, whichever comes first. The second application shall be performed after vegetation is showing new herbaceous growth and a minimum of two weeks prior to clearing and grubbing at the specified site.

Herbicide applications shall be performed in accordance with the requirements of Section 8-02.3(2) and the approved Weed and Pest Control Plan.

Care shall be taken to prevent herbicide damage to existing vegetation identified to be saved and protected as shown in the Plans.

Measurement

Section 2-01.4 is supplemented with the following:

(*****)

Clearing will be measured per acre.

Payment

Section 2-01.5 is supplemented with the following:

1 (*****)
2 "Clearing", per acre.
3
4 The unit contract price per acre for "Clearing" shall be full pay for labor, materials, and
5 equipment necessary for clearing the areas designated in the Contract and for removal
6 of material from the project site.
7
8 (*****)
9 "Herbicide Applications Prior to Clearing", lump sum.

10
11 **Removal of Structures and Obstructions**

12
13 **Description**

14
15 Section 2-02.1 is supplemented with the following:
16

17 (*****)
18 This work shall consist of removing a box culvert and portions of existing retaining walls,
19 fence, catch basins, and drill weep holes in remaining retaining walls.
20

21 **Construction Requirements**

22
23 ***Removal of Bridges, Box Culverts, and other Drainage Structures***

24
25 Section 2-02.3(2) is supplemented with the following:
26

27 (*****)
28 The Contractor shall remove the following item as part of the lump sum item
29 "Removal of Structure and Obstruction":
30

31 Box culvert Approx. 140 feet
32 (Sta. LBC 0+80 to LBC 2+25)
33

34 The Contractor shall remove the following portions of existing structure over Little
35 Bear Creek as part of the lump sum item "Removing Portion of Existing Structure":
36

37 Cast-in-place retaining wall Approx. 913 square feet
38 (Sta. H 15+42 to H 15+88)
39

40 Structural earth block wall Approx. 670 square feet
41 (Sta. H 15+54.74 to H 16+03.15)
42

43 Gabion wall Approx. 60 square feet
44 (Sta. H 15+51 to H 15+75)
45

46 Core drill 3 in. diam. weep holes Approx. 5 each
47 (Sta. H 14+77 to H 15+86)
48

49 SE wall chain link fence Approx. 55 linear feet
50 (Sta. H 15+50 to H 16+15)
51

52 (*****)

Requirements for Closing Roadway to Traffic Prior to Beginning Removal

The Contractor shall not close the existing roadway to traffic, and shall not begin bridge removal operations, until the following conditions are met:

1. The Contractor has received the Engineer's approval of the retaining wall demolition plan.
2. The Contractor has received the Engineer's approval of all shop drawings and materials submittals for materials required for the work to be executed during the closure.
3. The Contractor has submitted a report on the status of material delivery to the Engineer. The report shall specify the materials already available at the site, the materials yet to arrive at the site, and the scheduled delivery dates of the materials yet to arrive at the site, with written verification from the supplier or copies of confirmed purchase orders indicating the delivery dates of the materials yet to arrive at the site.
4. The Contractor shall provide an updated progress schedule in accordance with Section 1-08.3 confirming that the scheduled delivery of materials will meet the schedule to complete the work within the allowed time. The Contractor shall supplement the progress schedule with a written narrative describing the assumed production rates and planned resource allocations that support the bridge construction activity durations provided in the progress schedule.
5. The Contractor has received the Engineer's approval to proceed.

(*****)

Removing Box Culvert

The Contractor shall remove the existing box culvert, wing walls and foundations entirely. The removed culvert, wing walls and foundations shall remain the property of the Contractor and shall be disposed of off-site at no expense to the Contracting Agency in accordance with Section 2-03.3(7)C.

(*****)

Removing Catch Basin

Where shown in the Plans, or at other locations as determined by the Engineer, the Contractor shall remove catch basins regardless of the size or type. Each catch basin shall be removed in its entirety. The removed catch basins shall remain the property of the Contractor and shall be disposed of off-site at no expense to the Contracting Agency in accordance with Section 2-03.3(7)C. Existing pipe(s) connected to catch basins to remain shall be protected from damage. Any damage to pipes to remain resulting from the Contractor's actions shall be repaired to the satisfaction of the Engineer at the Contractor's expense.

2-02.3(2)A Bridge Removal

2-02.3(2)A1 Bridge Demolition Plan Submittal

(*****)

Section 2-02.3(2)A is supplemented with the following:

1
2 The Contractor shall submit a Type 2E Working Drawing consisting of a
3 demolition plan, showing the method of removing the existing retaining walls
4 and coring through existing wall footings for secant piles as specified.
5

6 The demolition plan shall show all equipment, sequence of operations, and
7 details required to complete the work, including containment, collection, and
8 disposal of all debris. The plan shall include a crane foundation stability
9 analysis and crane load calculations for the work. The plan shall detail the
10 containment, collection, and disposal of all debris. The plan shall show all
11 stages of demolition.
12

13 The methods and tools used to achieve the smooth surface and profile
14 specified in Section 2-02.3(2)A2 shall be included in the Contractor's bridge
15 demolition plan submittal.
16

17 **Measurement**

18
19 Section 2-02.4 is supplemented with the following:
20

21 (*****)
22 Removing catch basin shall be measured per each for each catch basin removed.
23

24 **Payment**

25
26 Section 2-02.5 is supplemented with the following:
27

28 (*****)
29 "Removing Catch Basin", per each.
30 The unit contract price per each for "Removing Catch Basin" shall be full pay to perform
31 the work as specified.
32

33 **Roadway Excavation and Embankment**

34 **Measurement**

35
36
37 Section 2-03.4 is supplemented with the following:
38

39 (March 13, 1995)
40 Only one determination of the original ground elevation will be made on this project.
41 Measurement for roadway excavation and embankment will be based on the original
42 ground elevations recorded previous to the award of this contract.
43

44 If discrepancies are discovered in the ground elevations which will materially affect the
45 quantities of earthwork, the original computations of earthwork quantities will be
46 adjusted accordingly.
47

48 Earthwork quantities will be computed, either manually or by means of electronic data
49 processing equipment, by use of the average end area method or by the finite element
50 analysis method utilizing digital terrain modeling techniques.
51

Copies of the ground cross-section notes will be available for the bidder's inspection, before the opening of bids, at the Project Engineer's office and at the Region office.

Upon award of the contract, copies of the original ground cross-sections will be furnished to the successful bidder on request to the Project Engineer.

Structure Excavation

Construction Requirements

Construction Requirements, Structure Excavation, Class A

Excavation Using Open Pits – Extra Excavation

Section 2-09.3(3)B is supplemented with the following:

(BSP October 13, 2003)

Extra excavation and open pit excavation, as defined in this section, will not be allowed at the following location(s):

*** Pier # 1 and 2 shaft and precast shaft caps ***

The Contractor shall shore excavations at the locations specified above in accordance with Section 2-09.3(3)D. The Contractor shall submit shoring plans to the Engineer for approval in accordance with Section 2-09.3(3)D.

Division 5

Surface Treatments and Pavements

Hot Mix Asphalt

Materials

Section 5-04.2 is supplemented with the following:

(January 3, 2011)

ESAL's

The number of ESAL's for the design and acceptance of the HMA shall be *** 5.4 *** million.

Construction Requirements

Hot Mix Asphalt Pavers

Material Transfer Device/Vehicle

(August 3, 2009)

Section 5-04.3(3)A is deleted in its entirety.

Mixing

1 **Test Section – HMA Mixtures**

2
3 The first sentence of Section 5-04.3(8)A7 is revised to read:

4
5 (March 3, 2014)

6 For each class of HMA accepted by statistical evaluation, the Contractor
7 may request a test section to determine whether the mixture meets the
8 requirements of Section 9-03.8(2) excluding Hamburg Wheel-Track
9 Testing and Indirect Tensile Strength of Bituminous Materials and Section
10 9-03.8(6).

11
12 **Compaction**

13
14 **Control**

15
16 **General**

17
18 The first sentence in Section 5-04.3(10)B1 is revised to read:

19
20 (August 3, 2009)

21 HMA mixture accepted by statistical or nonstatistical evaluation that is
22 used in traffic lanes including lanes for ramps, truck climbing, weaving,
23 speed change and shoulders having a specified compacted course
24 thickness greater than 0.10-foot, shall be compacted to a specified level of
25 relative density.

26
27 **Surface Smoothness**

28
29 The second sentence of Section 5-04.3(13) is revised to read:

30
31 (January 5, 2004)

32 The completed surface of the wearing course shall not vary more than 1/4 inch
33 from the lower edge of a 10-foot straightedge placed on the surface parallel to
34 centerline.

35
36 **Planing Bituminous Pavement**

37
38 Section 5-04.3(14) is supplemented with the following:

39
40 (January 5, 2004)

41 The Contractor shall perform the planing operations no more than *** one (1) ***
42 calendar days ahead of the time the planed area is to be paved with HMA, unless
43 otherwise allowed by the Engineer in writing.

44
45 **Payment**

46
47 Section 5-04.5 is supplemented with the following:

48
49 **(August 5, 2013)**

50 **Asphalt Cost Price Adjustment**

51 The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a
52 payment, for qualifying changes in the reference cost of asphalt binder. The adjustment

will be applied to partial payments made according to Section 1-09.9 for the following bid items when they are included in the proposal:

“HMA Cl. ____ PG ____”

“HMA for Approach Cl. ____ PG ____”

“HMA for Preleveling Cl. ____ PG ____”

“HMA for Pavement Repair Cl. ____ PG ____”

“Commercial HMA”

The adjustment is not a guarantee of full compensation for changes in the cost of asphalt binder. The Contracting Agency does not guarantee that asphalt binder will be available at the reference cost.

The Contracting Agency will establish the asphalt binder reference cost twice each month and post the information on the Agency website at:

<http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm>

The reference cost will be determined using posted prices furnished by Poten & Partners, Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.

The base cost established for this contract is the reference cost posted on the Agency website for the period immediately preceding the bid opening date.

Adjustments will be based on the most current reference cost for Western Washington or Eastern Washington as posted on the Agency website, depending on where the work is performed. For work completed after all authorized working days are used, the adjustment will be based on the posted reference cost during which contract time was exhausted. The adjustment will be calculated as follows:

No adjustment will be made if the reference cost is within 5% of the base cost.

If the reference cost is greater than or equal to 105% of the base cost, then
Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).

If the reference cost is less than or equal to 95% of the base cost, then
Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).

Where Q = total tons of all classes of HMA paid in the current month’s progress payment.

“Asphalt Cost Price Adjustment”, by calculation.

“Asphalt Cost Price Adjustment” will be calculated and paid for as described in this section. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the total bid by the Contractor.

Division 6 Structures

Concrete Structures

Materials

Section 6-02.2 is supplemented with the following:

(April 1, 2013)

Resin Bonded Anchors

The resin bonded anchor system shall include the nut, washer, and threaded anchor rod which is installed into hardened concrete with a resin bonding material.

Resin bonding material used in overhead and horizontal application shall be specifically recommended by the resin manufacturer for those applications.

Resin bonding material used in submerged liquid environment shall be specifically recommended by the resin manufacturer for this application.

The resin bonded anchor system shall conform to the following requirements:

1. Threaded Anchor Rod and Nuts

Threaded anchor rods shall conform to ASTM A 193 Grade B7 or ASTM A 449, except as otherwise noted, and be fully threaded. Threaded anchor rods for stainless steel resin bonded anchor systems shall conform to ASTM F 593 and shall be Type 304 unless otherwise specified.

Nuts shall conform to ASTM A 563, Grade DH, except as otherwise noted. Nuts for stainless steel resin bonded anchor systems shall conform to ASTM F 594 and shall be Type 304 unless otherwise specified.

Washers shall conform to ASTM F 436, and shall meet the same requirements as the supplied anchor rod, except as otherwise noted. Washers for stainless steel resin bonded anchor systems shall conform to ASTM A 240 and the geometric requirements of ASME B18.21.1 and shall be Type 304 Stainless Steel unless otherwise specified.

Nuts and threaded anchor rods, except those manufactured of stainless steel, shall be galvanized in accordance with AASHTO M 232. Galvanized threaded anchor rods shall be tested for embrittlement after galvanizing, in accordance with Section 9-29.6(5).

Threaded anchor rods used with resin capsules shall have the tip of the rod chiseled in accordance with the resin capsule manufacturer's recommendations. Galvanized threaded rods shall have the tip chiseled prior to galvanizing.

2. Resin Bonding Material

Resin bonding material shall be a two component epoxy resin conforming to Type IV ASTM C 881 or be one of the following:

- a. Vinyl ester resin.
- b. Polyester resin.

c. Methacrylate resin.

3. Ultimate Anchor Tensile Capacity

Resin bonded anchors shall be tested in accordance with ASTM E 488 to have the following minimum ultimate tensile load capacity when installed in concrete having a maximum compressive strength of 6000 pounds per square inch (psi) at the embedment specified below:

Anchor Diameter (inch)	Tensile Capacity (lbs.)	Embedment (inch)
3/8	7,800	3-3/8
1/2	12,400	4-1/2
5/8	19,000	5-5/8
3/4	27,200	6-3/4
7/8	32,000	7-7/8
1	41,000	9
1-1/4	70,000	11-1/4

The Contractor shall submit items 1 and 2 below to the Engineer for all resin bonded anchor systems. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

For resin bonded anchor systems that are installed in a submerged liquid environment the Contractor shall submit items 1, 2, and 4 below. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

- 1 The resin manufacturer's written installation procedure for the anchors.
2. The manufacturer's certificate of compliance for the threaded anchor rod certifying that the anchor rod meets these requirements.
3. Test results by an independent laboratory certifying that the threaded anchor rod system meets the ultimate anchor tensile load capacity specified in the above table. The tests shall be performed in accordance with ASTM E 488.
4. For threaded anchors intended to be installed in submerged liquid environments the Contractor shall submit tests performed by an independent laboratory within the past 24 months which certifies that anchors installed in a submerged environment meet the strength requirements specified in the above table.

(December 2, 2002)

Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels

Epoxy bonding agent for surfaces shall be Type II, as specified in Section 9-26.1. Epoxy bonding agent for steel reinforcing bar dowels shall be either Type I or Type IV,

1 as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as
2 recommended by the resin manufacturer and approved by the Engineer.
3

4 **Construction Requirements**

5 ***Finishing Concrete Surfaces***

6 **Pigmented Sealer for Concrete Surfaces**

7
8
9
10 Section 6-02.3(14)C is supplemented with the following:

11
12 (April 6, 2009)

13 The color of the pigmented sealer shall be Washington Gray.
14

15 ***Placing Anchor Bolts***

16
17 Section 6-02.3(18) is supplemented with the following:

18
19 **(January 3, 2011)**

20 **Resin Bonded Anchors**

21 The embedment depth of the anchors shall be as specified in the Plans. If the
22 embedment depth of the anchor is not specified in the Plans then the embedment
23 depth shall be as specified in the table of minimum and maximum torque below.
24

25 The anchors shall be installed in accordance with the resin manufacturer's written
26 procedure.
27

28 Holes shall be drilled as specified in the Plans. Holes may be drilled with a rotary
29 hammer drill when core drilling is not specified in the Plans. If holes are core
30 drilled, the sides of the holes shall be roughened with a rotary hammer drill after
31 core drilling.
32

33 Holes shall be prepared in accordance with the resin manufacturer's
34 recommendations and shall meet the minimum requirements as specified herein.
35 Holes drilled into concrete shall be thoroughly cleaned of debris, dust, and laitance
36 prior to installing the threaded rod and resin bonding material. Holes shall not have
37 any standing liquid at the time of installation of the threaded anchor rod.
38

39 The anchor nuts shall be tightened to the following torques when the embedment
40 equals or exceeds the minimum embedment specified.
41
42

Anchor Diameter (inch)	Minimum Torque (ft-lbs)	Maximum Torque (ft-lbs)	Minimum Embedment (Inch)
3/8	12	18	3-3/8
1/2	22	35	4-1/2
5/8	55	80	5-5/8
3/4	106	140	6-3/4
7/8	165	190	7-7/8
1	195	225	9
1-1/4	370	525	11-1/4

When the anchor embedment depth is less than the minimum values specified, the anchor nuts shall be tightened to the torque values specified in the Plans, or as recommended by the resin bonded anchor system manufacturer and approved by the Engineer.

Precast Concrete Panels

Section 6-02.3(28) is supplemented with the following:

(*****)

The precast shaft caps for the SR 202 over Little Bear Creek shall be constructed in accordance with this Section

Erection

Section 6-02.3(28) is supplemented with the following:

(*****)

Shims for aligning precast shaft cap to shaft connection shall be one of the following or an approved equal:

Korolath Shim Strips
Korolath of New England, Inc.
498 River Road
Hudson, MA 01749
(978)562-7366

Vers-A-Shim High Impact Plastic Shims
Deslauriers, Inc
1245 Barnsdale Road
LaGrange Park, IL 60526
(800)743-4106
<http://www.deslinc.com/index-home.cfm>

Tilt Up Shims
Greenstreak
3400 Tree court Industrial Blvd.
St. Louis, Mo 63133-6614
(800)325-9504
<http://www.greenstreak.com/index.asp>

Shimmers
JVI
7131 North Ridgeway
Lincolnwood, IL 60712
(800)742-8127
<http://www.jvi-inc.com/contact.shtml>

Measurement

Section 6-02.4 is supplemented with the following:

(August 2, 2010)

*** Precast Shaft Cap *** contains the following approximate quantities of materials and work:

Precast Shaft Cap

St. Reinf. Bar

12,425 LB.

Conc. Class 4000

141 C.Y.

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for approved changes will be made in the lump sum contract price for *** Precast Shaft Cap *** even though the actual quantities required may deviate from those listed.

(*****)

Elastomeric girder end pad and elastomeric bearing pad will be measured per each for each bearing assembly furnished and installed.

Payment

Section 6-02.5 is supplemented with the following:

(*****)

"Elastomeric Bearing Pad", per each.

"Elastomeric Girder End Pad", per each.

Piling

Payment

Section 6-05.5 is supplemented with the following:

(*****)

"Precast Shaft Cap", lump sum.

The lump sum contract price for "Precast Shaft Cap" shall be full pay for furnishing and installing the precast shaft cap as shown in the Contract Plans.

1 **Bridge Railings**

2
3 **Materials**

4
5 Section 6-06.2 is supplemented with the following:

6
7 (January 5, 2004)

8 Chain link fence fabric shall conform to the Section 9-16.1(1)B requirements for Type 1
9 fence.

10
11 Fittings, fabric bands, stretcher bars, tie wire, and other fence hardware, shall conform
12 to Section 9-16.1.

13
14 Pipe for posts and longitudinal members shall conform to ASTM A 53, Grade B, Type E
15 or S, galvanized, and shall be Schedule 40 unless otherwise shown in the Plans.

16
17 Steel bars, plates, and shapes shall conform to ASTM A 36, and shall be galvanized in
18 accordance with AASHTO M 111, except that structural shapes may conform to ASTM A
19 992.

20
21 Bolts, nuts, and washers shall conform to Section 9-06.5(3), and shall be galvanized
22 after fabrication in accordance with AASHTO M 232.

23
24 Resin bonded anchors shall conform to Section 6-02.2 as supplemented in these
25 Special Provisions.

26
27 **Construction Requirements**

28
29 ***Metal Railings***

30
31 Section 6-06.3(2) is supplemented with the following:

32
33 (March 6, 2000)

34 **Bridge Railing Type Chain Link Fence**

35 The Contractor shall install anchor bolts for each post anchorage as shown in the
36 Plans. Alternatively, the Contractor may install resin bonded anchors at each post
37 anchorage, in accordance with Section 6-02 as supplemented in these Special
38 Provisions.

39
40 Longitudinal members shall be connected to the steel posts as shown in the Plans.

41
42 The Contractor shall install the chain link fence fabric in accordance with Section 8-
43 12.3(1)D, except as otherwise noted. The chain link fence fabric shall be fastened
44 to the posts and longitudinal members at a maximum spacing of 14 inches.

45
46 **Waterproofing**

47
48 **Description**

49
50 Section 6-08.1 is supplemented with the following:

51
52 (*****)

The precast prestressed voided slabs and the top of the precast shaft cap shall be considered to be a bridge deck for the SR 202 Over Little Bear Creek Structure.

(January 3, 2011)

This work consists of furnishing and placing an approved waterproofing membrane system over a properly prepared concrete bridge deck prior to placing the HMA overlay.

The waterproofing membrane system shall consist of an impermeable sheet membrane that prevents passage of water from the overlay surfacing to the bridge deck substrate. The system shall also include a primer to bond the membrane to the bridge deck substrate, regardless of bridge deck temperature, except for circumstances when the waterproofing membrane system manufacturer specifically prohibits the use of a primer.

(January 3, 2011)

This work consists of furnishing and placing an approved waterproofing membrane system over a properly prepared concrete bridge deck prior to placing the HMA overlay.

The waterproofing membrane system shall consist of an impermeable sheet membrane that prevents passage of water from the overlay surfacing to the bridge deck substrate. The system shall also include a primer to bond the membrane to the bridge deck substrate, regardless of bridge deck temperature, except for circumstances when the waterproofing membrane system manufacturer specifically prohibits the use of a primer.

Materials

Section 6-08.2 is supplemented with the following:

(January 3, 2011)

Primer for Membrane Waterproofing (Deck Seal)

The membrane waterproofing (deck seal) primer shall be compatible for use with the membrane manufacturer's sheet membrane, and shall be appropriate for bonding the sheet membrane to the bridge deck surface.

Waterproofing Fabric

Section 9-11.2 is supplemented with the following:

(*****)

Membrane waterproofing (deck seal) sheet membrane shall conform to ASTM D 6153 Type III, and the following additional material properties:

Property	Specification	Minimum Value
Minimum Tensile Stress (At tear or breaking load for Thin Polymer Sheets)	ASTM D 882	75 pounds per inch
Minimum Grab Tensile Strength (At breaking load for Geotextiles and Fabric)	ASTM D 4632	300 pounds
Minimum Puncture Capacity (For Thin Polymer Sheets, Geotextiles and Fabric)	ASTM E 154	200 pounds

Membrane waterproofing (deck seal) sheet membrane will be accepted based on manufacturers certificate of compliance that the material furnished conforms to

these specifications. The Contractor shall submit the manufacturer's certificate of compliance to the Engineer in accordance with Section 1-06.3.

Construction Requirements

Preparation of Surface

Section 6-08.3(2) is supplemented with the following:

(January 4, 2016)

Preparation of Bridge Deck

The entire bridge deck and the sides of the curb and expansion joint headers to the height of the HMA overlay shall be essentially free of all foreign material such as dirt, grease, etc. Prior to applying the primer or sheet membrane, all dust and loose material shall be removed from the bridge deck with compressed air. All surface defects such as spalled areas, cracks, protrusions, holes, sharp edges, ridges, etc., and other imperfections greater than 3/8 inch that will decrease the effectiveness of the membrane by puncturing, stretching, etc., shall be corrected prior to application of the membrane.

Weather and Moisture Limitations

Work shall not be done during wet weather conditions, or when the bridge deck and ambient air temperatures are below 50F. The bridge deck shall be surface-dry at the time of the application of the primer or sheet membrane.

The Engineer may order work to be suspended in accordance with Section 1-08.6 because of the above weather and moisture limitations.

New Concrete Areas

All areas of the bridge deck that have less than 28 day old concrete (not including bridge deck repair concrete placed in accordance with the ***Bridge Deck Repair*** Special Provisions supplementing Sections 6-02.2 and 6-02.3(10)D) shall be allowed to cure for a period of time recommended by the membrane manufacturer or as specified by the Engineer before application of the membrane.

Concrete Protection

The Contractor shall use care to protect all concrete surfaces from damage. Any damage to exposed surfaces shall be repaired in accordance with Section 1-07.13.

Application of Waterproofing

Section 6-08.3(3) is supplemented with the following:

(January 4, 2016)

Membrane Waterproofing (Deck Seal)

The primer and membrane waterproofing shall extend from the bridge deck up onto the curb face and expansion joint header face the thickness of the HMA overlay. Special care shall be used at the curb face and expansion joint header face to see that the membrane adheres to the vertical surface.

The Contractor shall not begin application of membrane waterproofing deck seal to the bridge deck until demonstrating, to the satisfaction of the Engineer, that all

labor, equipment, and materials necessary to apply the membrane and HMA overlay are either on hand or readily available to complete the work in a timely manner.

The primer shall be applied to the cleaned concrete surfaces at the rate and according to the procedure recommended by the membrane manufacturer. All surfaces to be covered by the membrane shall be thoroughly and uniformly coated with primer. Bridge deck areas left with existing well bonded waterproof membrane after surfacing removal shall receive an application of primer in accordance with the membrane manufacturer's recommendations. Precautionary measures shall be taken to ensure that pools and thick layers of primer are not left on the deck surface to scum over. Drying time prior to applying the membrane shall normally be as recommended by the manufacturer, however, the membrane shall not be applied until substantially all volatile material has dissipated from the primer.

The prefabricated membrane shall be applied to the primed curb and bridge deck surfaces by either hand methods or mechanical applicators. Membrane application shall begin at the bridge deck low point and continue in a shingled pattern so that any water which accumulates will drain toward the curb and the bridge deck drains (if present) without accumulation against the membrane seams. Each strip shall be overlapped a minimum of six inches or as recommended by the manufacturer. An adhesive or a wide tipped torch to cause tackiness shall be used, if necessary, to assure a good seal of the joints. Hand rollers or other satisfactory pressure apparatus shall be used on the applied membrane to assure firm and uniform contact with the primed concrete surfaces.

Any torn or cut areas, or narrow overlaps, shall be patched using a satisfactory adhesive and by placing sections of the membrane over the defective area in such a manner that the patch extends at least six inches beyond the defect. The patch shall be rolled or firmly pressed onto the surface.

The fabric shall be neatly cut and contoured at all joints as specified by the Engineer.

After the membrane waterproofing application has been completed, the membrane shall be cut with two right angle cuts at all bridge deck drains (if present). The cuts shall be made to the inside diameter of the bridge deck drain outlet, after which the corners of the membrane waterproofing shall be turned down into the drains and laid in a coating of asphalt binder.

The waterproofing membrane will be visually inspected by the Engineer for uniformity of application, tears, punctures, bonding, bubbles, wrinkles and other defects as described in the membrane manufacturer's literature. All such deficiencies shall be repaired as recommended by the membrane manufacturer and approved by the Engineer prior to placement of the HMA overlay.

Protection Course

Section 6-08.3(4) is supplemented with the following:

(January 3, 2011)

General Membrane Protection

The membrane material shall be protected from damage due to the paving operations. The method of membrane protection shall be as recommended by the manufacturer of the membrane system and approved by the Engineer.

No traffic or equipment except that required for the actual waterproofing and paving operations will be permitted to travel or rest on the membrane waterproofing until it is covered by the HMA overlay.

HMA Overlay

The membrane manufacturer's recommendations shall be thoroughly considered in the application of the HMA overlay particularly as to the type of paving machine, laydown temperature of the HMA, protection of membrane while paving, rolling temperature and technique, and other items unique to each membrane. Differences in application procedure shall be resolved by the Engineer and the Engineer's decision shall be final. Vibratory rollers shall not be used on bridge decks.

Measurement

Section 6-08.4 is supplemented with the following:

(March 6, 2000)

Membrane waterproofing will be measured by the square yard of the bridge deck and curb which is satisfactorily sealed and accepted.

Payment

Section 6-08.5 is supplemented with the following:

(January 4, 2016)

"Membrane Waterproofing (Deck Seal) ____", per square yard.

The unit contract price per square yard for "Membrane Waterproofing (Deck Seal) ____" shall be full pay for performing the work as specified, including repairing any damaged or defective waterproofing membrane and damaged HMA overlay.

Shotcrete Facing

Materials

Section 6-18.2 is supplemented with the following:

(*****)

Shotcrete Facing

Portland cement shall be Type I or II in accordance with Section 9-01.2(1).

Water for mixing and curing shall be clean and free from substances which may be injurious to concrete or steel, and shall be free of elements which would cause staining.

Aggregate for shotcrete shall meet the following gradation requirements:

1		
2	<u>Sieve Size</u>	<u>Percent Passing by Weight</u>
3		
4	1/2 inch	100
5	3/8 inch	90 to 100
6	U.S. No. 4	70 to 85
7	U.S. No. 8	50 to 70
8	U.S. No. 16	35 to 55
9	U.S. No. 30	20 to 35
10	U.S. No. 50	8 to 20
11	U.S. No. 100	2 to 10
12	U.S. No. 200	0 to 2.5

13

14 **Construction Requirements**

15

16 Sections 6-18.3(1) through 6-18.3(4) are revised as follows:

17

18 **(*****)**

19 **Submittals**

20 The Contractor shall submit the following information to the Engineer as a Type 2
21 Working Drawing prior to beginning construction of the preproduction test panels:

22

- 23 1. The shotcrete mix design and test results.
- 24
- 25 2. The methods, equipment and materials proposed for placement, finishing
26 and curing of each shotcrete fascia specified.
- 27
- 28 3. Documentation of the experience of each nozzle operator applying
29 shotcrete.

30

31 **Mix Design**

32 The Contractor shall submit the shotcrete mix design and test results for each mix
33 design as evidence that the proposed design, placement, and curing method will
34 produce the desired performance requirements. The shotcrete mix design shall be
35 proportioned to produce a 4,000 psi compressive strength at 28 days.

36 The Contractor shall prepare mix design test panels in accordance with ASTM
37 C1140 and the following requirements:

38

- 39 1. Mix design test panels shall be of adequate size and thickness to complete
40 all mix design testing described below.
- 41
- 42 2. The operating personnel (nozzlemen and gun operator) producing the test
43 panels do not need to be the same personnel who will be performing the
44 Contract Work.

45

46 The Contractor shall record and report the air content of the freshly mixed concrete
47 used for the mix design test panels in accordance with WAQTC FOP for AASHTO T
48 152.

49

50 The Contractor shall obtain cores from the mix design test panels in accordance
51 with ASTM C1604. The Contractor shall have the cores tested by an independent

testing laboratory. The mix design test panel cores shall be tested as follows and shall meet the following criteria:

1. Report apparent density of the shotcrete mix design test panel cores as determined by AASHTO T 24.
2. Report the chloride ion content in accordance with AASHTO T 260. Chloride ion content shall not exceed the limits of Section 6-02.3(2).
3. Rapid Chloride Permeability of less than 2000 coulombs at 56 days per AASHTO T 277.
4. Maximum spacing factor of 0.010 inches and a minimum air content of 4% in accordance with ASTM C457.

Preproduction Testing

Following mix design review and prior to constructing the permanent shotcrete walls, the Contractor shall schedule and perform preproduction testing. All nozzle operators constructing preproduction test panels shall have a current ACI shotcrete Nozzleman Certification. Each nozzle operator shall construct preproduction test panels as follows:

Preproduction test panels for verification of shotcrete properties

One test panel shall be constructed for each mix design and each anticipated shooting orientation. Test panels shall be constructed per ASTM C1140. No reinforcing steel shall be included in these test panels.

Preproduction test panels for verification of placement methods

One test panel shall be constructed for each mix design, each anticipated shooting orientation, each wall reinforcing layout, and each proposed final surface finish. The test panels shall be constructed per ASTM C1140. The minimum test panel size shall be 48" by 48". Test panels shall be constructed to the same thickness shown in the plans and shall include the same reinforcing type, size and layout as detailed for the final wall.

Preproduction test panels shall be prepared at the project site with the same method of shotcrete installation, finishing and curing proposed to construct the final shotcrete fascia. Prior to placement of the shotcrete preproduction test panels, the concrete shall be tested for air content in accordance with WAQTC FOP for AASHTO T 152. Following the cure period the Engineer shall be notified in writing that the panel is ready for evaluation. Production shotcrete Work shall not begin until the preproduction panel has been accepted by the Engineer.

At the completion of the curing period, the Contractor shall take four cores from each preproduction test panel for verification of shotcrete properties in accordance with ASTM C1604. Testing and minimum requirements of these cores shall be as follows:

1. Three cores shall be measured for density in accordance with AASHTO T 22. Density shall be a minimum of 95% of the mix design density reported on WSDOT Form 350-040.

2. Three cores shall be measured for compressive strength in accordance with ASTM C1604, except that the cores shall be cured per Standard Curing in a moist condition per AASHTO T 23. Minimum compressive strength shall be 4000 psi.
3. The fourth core shall have the air void system assessed in accordance with ASTM C457. Shotcrete shall have a maximum spacing factor of 0.010 inches and a minimum air content of 4%.

At the completion of the curing period, the Contractor shall take three cores from each preproduction test panel for verification of placement method in accordance with ASTM C1604. Cores shall be taken at locations where reinforcing steel is present. These cores shall be visually graded as follows:

Grade 1 -- Shotcrete specimens are solid; there are no laminations, sandy areas or voids. Small air voids with maximum diameter of 1/8 inch and maximum length of 1/4 inch are normal and acceptable. Sand pockets or voids behind continuous reinforcing steel are unacceptable. The surface against the form or bond plane shall be sound, without sandy texture or voids.

Grade 2 -- Shotcrete specimens shall have no more than two laminations or sandy areas with dimensions not to exceed 1/8 inch thick by 1 inch long. The height, width, and depth of voids shall not exceed 3/8 inch. Porous areas behind reinforcing steel shall not exceed 1/2 inch in any direction except along length of reinforcing steel. The surface against the form or bond plane shall be sound, without sandy texture or voids.

Grade 3 -- Shotcrete specimens shall have no more than two laminations or sandy areas with dimensions exceeding 3/16 inch thick by 1-1/4 inches long, or one major void, sand pocket, or lamination containing loosely bonded sand not to exceed 5/8 inch thick and 1-1/4 inches in width. The surface against the form or bond plane may be sandy, with voids containing overspray to a depth of 1/16 inch.

Grade 4 -- Core shall meet, in general, requirements of Grade 3 cores, but may have two major flaws such as described for Grade 3, or may have one flaw with maximum dimension of 1 inch perpendicular to the face of the core, with maximum width of 1-1/2 inches. The end of the core that was shot against the form may be sandy, with voids containing overspray to a depth of 1/8 inch.

Grade 5 -- Core that does not meet criteria of core grades 1 through 4, by being of poorer quality, shall be classified as Grade 5.

If any of the cores have a Grade 4 or higher, the test panel for verification of placement will be rejected. A mean grade of 2.5 or less, the test panel for verification of placement is acceptable. If the mean grade exceeds 2.5, the Contractor may elect to take three additional cores and calculate a mean based on all six cores. If the mean grade of the six cores is equal to or less than 2.5, the test panel for verification of placement is acceptable. The cores

1 and the grading shall be submitted to the Engineer as a Type 2 Working
2 Drawing.

3
4 Only nozzle operators who have constructed preproduction test panels for
5 verification of placement methods that meet the above requirements shall be
6 allowed to place job shotcrete. When the preproduction test panels are
7 rejected for strength, density, air entrainment or grade, a second panel may be
8 prepared. When the second panel is rejected for strength, density air
9 entrainment or grade, the nozzle operator shall not be permitted to perform
10 Contract Work on the project.

11 **Preconstruction Meeting**

12
13 Prior to placing production shotcrete, the Contractor shall participate in a
14 preconstruction meeting with the Engineer. At a minimum, attendance at this
15 meeting shall include representatives from the Contractor, shotcrete subcontractor,
16 and concrete supplier. Discussion will include concrete testing and acceptance,
17 shotcrete production testing, placement and curing.

18 **Production Testing**

19
20 The Contractor shall construct one unreinforced production test panel in
21 accordance with ASTM C1140 for each day's production of fascia shot. Prior to
22 constructing the production panels, the concrete shall be tested in accordance with
23 Section 6-02.3(5)G for temperature, consistency and air content and shall be
24 sampled in accordance with Section 6-02.3(5)H for compressive strength testing.
25 The minimum air content of the shotcrete coming out of the truck shall be as
26 specified by the Contractor, based on the results of the mix design test panel and
27 the pre-production test panels, to insure a minimum air content of 4% in the
28 production shotcrete.

29
30 The production panels shall be constructed and cured on site using the same
31 methods and initial curing that will be used to construct the final shotcrete fascia
32 wall. Following a 7 day curing period of the production test panel, three cores shall
33 be taken by the Contractor in accordance with ASTM C1604. The Production cores
34 shall be delivered to the Engineer for testing, and shall meet the following
35 requirements:

- 36
37 1. Report density of the shotcrete mix design test panel cores as determined
38 by ASTM C1604. Density shall be a minimum of 95% of the mix design
39 density.
40
41 2. Report seven-day compressive strength in accordance with ASTM C1604.
42 Minimum compressive strength shall be 2500 psi.

43
44 The remainder of the panels shall remain the property of the Contractor.

45 **Finish and Curing Requirements**

46
47 The shotcrete shall be wet cured in accordance with Section 6-02.3(11). The
48 Contractor shall keep the surface of the freshly placed shotcrete wet by fogging
49 until the wet cure is applied. Wet cure shall be continuous moisture for at least 72
50 hours.
51

Shafts

Construction Requirements

Shaft Construction Tolerances

Section 6-19.3(1)A is supplemented with the following:

(*****)

Lean concrete shafts shall be within 0.5 percent of plumb based on the total length of the shaft.

Submittals

Shaft Installation Narrative Submittal

Section 6-19.3(2)B is supplemented with the following:

(*****)

As part of the shaft installation narrative the Contractor shall include:

- a. A description of the methods to be used to drill through the existing retaining wall footing without damaging the portion of retaining wall that is to remain.
- b. A description of the methods used to drill through the existing structural earth wall reinforcement without damaging the portion of structural earth wall that is to remain.

Shaft Excavation

Section 6-19.3(3) is supplemented with the following:

(*****)

Excavation of structural shafts and lean concrete shafts shall not commence until a minimum of 12 hours after placement of the adjacent lean concrete shafts.

Temporary and Permanent Shaft Casing

Section 6-19.3(3)B is supplemented with the following:

(January 2, 2012)

The Contractor shall furnish and install casings as follows:

Bridge No. and Pier Number or Wall Name and Station Limits	Casing Type	Elev. of Bottom of Required Casing (feet)	Upper And Lower Elevation Limits for Concurrent Casing Placement with Excavation
Little Bear Creek			

Pier 1 (Structural)	Temporary	9.0	48.3 to 9.0
Pier 1 (Lean)	Temporary	30.0	48.3 to 30.0
Pier 2 (Structural)	Temporary	6.0	50.8 to 6.0
Pier 2 (Lean)	Temporary	30.0	50.8 to 30.0

When installing required temporary or required permanent casings between the upper and lower elevation limits specified above, the casing shall be advanced prior to or concurrently with the excavation. Excavation in advance of the casing tip shall not exceed *** 1 *** feet, except that in no case shall shaft excavation and casing placement extend below the bottom of shaft excavation as shown in the Plans.

Measurement

Section 6-19.4 is supplemented with the following:

(*****)

Lean concrete will be measured by the cubic yard of concrete in place.

Payment

Section 6-19.5 is supplemented with the following:

(*****)

"Lean Concrete", cubic yard.

Division 7

Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits

Vacant

(August 3, 2015)

7-06 Temporary Stream Diversion

7-06.1 Description

This work shall include designing, installing, operating, maintaining, removing, and disposing of the temporary stream diversion, environmental compliance and other Work as detailed in these Specifications.

7-06.2 Materials

All materials shall be as detailed in the Contractor's Temporary Stream Diversion (TSD) Plan.

7-06.3 Construction Requirements

7-06.3(1) General

The Work shall include compliance with Washington State Water Quality Standards in WAC 173-201A, project permits, environmental commitments and these Provisions.

1 The temporary stream diversion including water that is retained by the temporary
2 stream diversion and any dewatering system shall be located within the permitted
3 impact areas as shown in the Plans. The upstream diversion dam shall be constructed
4 to a height sufficient to prevent stream flow from entering the work area. Scour
5 protection shall be provided at the outfall of the temporary stream diversion systems
6 and dewatering system to prevent flow re-entering the stream channel from mobilizing
7 streambed and embankment sediments. When a temporary stream diversion is located
8 in or near an intertidal zone the temporary stream diversion design shall include tidal
9 influence.

10
11 The Contractor shall have a contingency plan for each temporary stream diversion to be
12 used in the event of a storm producing streamflow in excess of the design requirement,
13 equipment failure, vandalism, or other incident. The equipment and materials for the
14 contingency plan shall be exclusive to a specific temporary stream diversion. The
15 contingency plan shall convey at a minimum fifty percent of the volume of water
16 required for the temporary stream diversion and be operational within 2-hours. The
17 Contractor shall immediately implement the contingency plan when required or specified
18 by the Engineer.

19
20 For each temporary stream diversion the Contractor shall arrange a meeting with the
21 Engineer prior to implementation of the TSD Plan. At this meeting the Contractor shall
22 explain to the Engineer the Work to be completed for the temporary stream diversion.
23 The meeting shall be a minimum of 7 calendar days prior to start of the temporary
24 stream diversion work.

25 26 **7-06.3(2) Temporary Stream Diversion Plan**

27 **7-06.3(2)A General Plan Requirements**

28 The Contractor shall submit a Temporary Stream Diversion Plan in accordance with
29 the requirements of a Type 2E Working Drawing and these Specifications. A
30 separate TSD Plan shall be prepared and submitted for each temporary stream
31 diversion that is required. The TSD Plan shall consist of a narrative and drawings
32 detailing all temporary stream diversion requirements and shall encompass and
33 protect all the areas affected by the Contractor's temporary stream diversion Work.

34
35 The Contractor shall fully implement the TSD Plan at all times. The Contractor
36 shall update the TSD Plan throughout project construction to reflect actual site
37 conditions and the Contractor's Work. Changes to plan shall comply with WAC
38 196-23-020. At the request of the Engineer an updated TSD Plan shall be
39 submitted as a Type 2E Working Drawing. A copy of the TSD Plan shall be on the
40 project site at all times.

41
42 The TSD Plan shall describe measures that will be taken to comply with
43 Washington State Water Quality Standards in WAC 173-201A, applicable permits,
44 environmental commitments and these Provisions.

45 The Contractor shall incorporate the Diversion Schedule and Sequence into their
46 Progress Schedule.

47 48 **7-06.3(2)B Minimum Stream Volumes**

49 At all times of operation the Contractor's temporary stream diversion shall be
50 designed to convey at a minimum the flow rate of water in cubic feet per second
51 during the following time periods:
52

1

10% Exceedance Flow For Select Time Periods	
Time Period	Flow (cfs)
7/15 - 7/30	114
8/1 - 8/15	89
8/16 - 8/31	153
9/1 - 9/15	141
9/15 - 9/30	177
7/15 - 9/30	198

2

3

4

7-06.3(2)C Design Requirements:

The Contractor's temporary stream diversion shall comply with the following requirements:

6

7

8

*** Any device used for diverting water from a fish-bearing stream shall be equipped with a guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened by one of the following:

9

10

11

12

a) Perforated plate: 0.094 inch (maximum opening diameter).

13

b) Profile bar: 0.069 inch (maximum width opening).

14

c) Woven wire: 0.087 inch (maximum opening in the narrow direction).

15

The minimum open area for all types of fish guards is 27%. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment of juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.***

16

17

18

19

20

21

7-06.3(2)D Plan Requirements

The TSD Plan shall provide the following information in the following order:

22

23

24

1. Description and Location of the temporary stream diversion

25

26

- a. Identify the name of the water body where the temporary stream diversion will be placed. Provide a description of the temporary stream diversion.

27

28

29

30

- b. Provide drawings showing the location of the temporary stream diversion, including proposed access routes and equipment to be used to construct the diversion.

31

32

33

34

2. Schedule and Sequence

35

36

- a. Provide a sequence of Work, dates, and durations for when the following will occur, in accordance with the in-water work window in the Special Provisions:

37

38

39

40

- i. Fish exclusion (performed by the Contracting Agency).

41

- ii. TSD Plan Implementation Meeting
 - iii. TSD installation.
 - iv. Dewatering of the isolated Work area.
 - v. Restoration and stabilization of the temporary stream diversion work area to prevent erosion.
 - vi. Any relocations of the temporary stream diversion to accommodate the work sequence (if needed).
 - vii. Channel rewatering.
 - viii. Removal of the TSD.
 - ix. Fish block removal (performed by Contracting Agency).
 - b. Include other Work that needs to be coordinated with the TSD (e.g., temporary erosion control).
3. Calculations and Materials
- a. Detail all elements of the temporary stream diversion; including but not limited to pipes, pumps, and other equipment.
 - b. Calculations shall demonstrate the diversion system conveys the minimum peak flow specified by the Contracting Agency and include tidal influence where applicable.
 - c. Temporary stream diversion shall include a water conveyance system to be used for dewatering and rewatering that is capable of conveying the flow required for the temporary stream diversion.
 - d. Methods for anchoring temporary stream diversion pipe and associated hardware; include calculations to demonstrate the devices ability to anchor the pipe and associated hardware.
 - e. Specifications for all materials and equipment to be used as part of the diversion including pump or diversion capacities and hose sizes. For example, provide the type, profile, and size of pipe.
 - f. Provide the size of fish screens (mesh size and surface area) to be used, in accordance with the Special Provisions.
4. Stream Flow Blocking and Dewatering
- a. Provide the method(s), including locations and details (narrative and drawings) for blocking both the upstream and downstream ends of the diversion. Describe how minor leakage from upstream and downstream will be addressed.

- b. Include provisions for scour protection at the temporary stream diversion outfalls.
- c. Identify the means and methods for dewatering water and disposal of the water.

5. Contingency Plan

- a. Provide details for the contingency plan.
- b. Describe the Work that will be implemented to prevent the work area from becoming inundated.
- c. Provide the type and size of materials that will be used in the event of the work area becoming inundated.
- d. Describe how the contingency equipment and materials will be inspected and maintained so they are ready for use if required.
- e. The contingency plan shall be designed to be fully operational within 2 hours.

6. Inspection and Maintenance

- a. Provide the schedule and frequency for inspection of the temporary stream diversion; include weekends and holidays.
- b. Describe how maintenance will be conducted when inspections identify deficiencies in the temporary stream diversion. These include, but are not limited to removal and disposal of trapped sediment or debris and repairing leaks.
- c. The Contractor shall keep a record of all inspections and maintenance of the temporary stream diversion.

7. Rewatering the Stream Channel

- a. Detail how the stream channel will be rewatered to comply with water quality requirements.
- b. Identify measures that will prevent the stranding of fish during rewatering (i.e. describe methods, rates, and durations of the rewatering process knowing that flows downstream of the fish block must be maintained to protect fish).

8. Removal of the Temporary Stream Diversion

- a. Describe the sequence that will be used for removing the temporary stream diversion and methods to prevent water quality impacts.
- b. Describe how disturbed soil will be permanently stabilized.

- c. Describe any temporary pipes to remain (requires approval of the Engineer): their type, pipe class, size, location, and plugging procedure.

9. Other Work required for the Contractor's temporary stream diversion

7-06.3(3) Fish and Aquatic Species Exclusion and Notifications

Prior to installing a temporary stream diversion, the Contractor shall allow 7 calendar days in their schedule for the Contracting Agency: (1) to install fish block nets upstream and downstream of the in-water Work area; and (2) safely capture and relocate any fish and other aquatic organisms that become trapped between the block nets.

As specified by the Engineer the Contractor shall assist with fish and aquatic species exclusion. The Contracting Agency will pay for this Work by the force account item "Fish Exclusion".

7-06.3(4) Inspection and Maintenance

At a minimum, the Contractor shall perform the following daily (including weekends and holidays):

1. Check for and correct leaks;
2. Inspect the upstream and downstream fish block nets and remove debris;
3. Ensure the fish block nets remain sealed to the channel substrate;
4. Inspect the upstream fish block net and all screens and similar facilities for impinged fish;
 - a. The Contractor shall immediately notify the Contracting Agency when impinged fish are discovered.
 - b. Removal of impinged fish will be by the Contracting Agency.
5. Maintain a written record of inspection and maintenance activities; record to be available at the request of the Engineer.

7-06.3(5) Dewatering Work Area

Dewatering the isolated in-water Work area shall occur at a rate slow enough to allow the Contracting Agency to safely capture and relocate all fish species and other aquatic organisms to avoid stranding, as determined by the Engineer.

7-06.3(6) Rewatering the Stream Channel

The Contractor shall notify the Engineer a minimum of 7 calendar days in advance of rewatering the stream channel.

The Contractor shall introduce water to the new stream channel section and trap sediments until the stream section meets the requirements of these Provisions. Rewatering shall occur at a rate to avoid loss of surface water downstream while the new channel section water is restored.

1 **7-06.3(7) Removal of the Temporary Stream Diversion**

2 The Contractor shall notify the Engineer two calendar days in advance of beginning the
3 temporary stream diversion removal sequence.

4
5 Once the water in the new stream channel will meet the applicable turbidity standards
6 the Contractor may begin removal of the temporary stream diversion and the stream
7 channel opened to flows.

8
9 The Contractor shall immediately take all corrective actions necessary to prevent the
10 water from exceeding the turbidity standards should the stream turbidity increase. All
11 Work within the channel, except for removal of the temporary erosion control items,
12 shall be completed before the temporary stream diversion is removed.

13
14 All materials used for the diversion shall become the property of the Contractor and
15 removed from the project limits, with the exception of any materials supplied by the
16 Contracting Agency, unless otherwise specified by the Engineer.

17
18 **7-06.4 Vacant**

19
20 **7-06.5 Payment**

21 Payment will be made in accordance with Section 1-04.1 for the following Bid items when
22 included in the proposal:

23
24 "Temporary Stream Diversion", lump sum.

25 The lump sum Contract price for "Temporary Stream Diversion" shall be full payment to
26 perform the Work as specified. Progress payments for the lump sum item "Temporary
27 Stream Diversion" will be made as follows:

- 28
29 1. Twenty-five percent of the bid amount will be paid following completion of the
30 TSD Plan including resolution of all Contracting Agency review comments.
31
32 2. The remaining seventy-five percent of the bid amount shall be paid in
33 accordance with Section 1-09.9.

34
35 "Fish Exclusion", force account.

36
37 **Water Mains**

38
39 **Materials**

40
41 Section 7-09.2 is supplemented with the following:

42
43 (*****)

44 All products that come in contact with drinking water must comply with the full
45 requirements of NSF/ANSI Standard 61 – Drinking Water System Components.

46
47 Ductile iron pipe shall conform to AWWA C150/C151, standard thickness, Class 52
48 (Pressure Class 350). The pipe shall be lined with cement mortar conforming to AWWA
49 C104/ANSI A21.4 and coated with an asphaltic coating. Each length shall be plainly
50 marked with the manufacturer's identification, year cast, class of pipe, and weight. Type
51 of joint shall be rubber gasket, push-on type or mechanical joint conforming to AWWA

1 C111/ANSI A21.11. Pacific States pipe may not be used because this is a dead end
2 line.
3
4 All fittings shall be short-bodied, compact ductile iron with a minimum rating of 250 psi
5 working pressure conforming to AWWA C153/ANSI A21.53 except flanged fittings shall
6 conform to AWWA C110/ANSI A21.10. All fittings shall have a cement mortar lining
7 conforming to AWWA C104/ANSI A21.4. The fittings shall be furnished with flanged
8 ends or mechanical joints as shown. All mechanical joint fittings shall be restrained with
9 megalugs or Field Lok gaskets or approved equal.
10
11 Gaskets for flat faced or raised faced flanges shall be 1/8-inch thick neoprene having a
12 durometer of 60 plus or minus 5. Gaskets for flanges having a recess machined to
13 receive an "O" ring shall be neoprene and shall have the dimensions and durometer as
14 recommended for the particular service application by the flange manufacturer. Provide
15 type, material and identification mark for bolts and nuts. All pipe or pipe spools with at
16 least one end flanged shall be Class 53 and shall conform to AWWA C115/ANSI A21.15.
17
18 When push-on joints require restraint, gaskets shall be US Pipe Field Lok gasket or
19 equal. The restraint provided shall be a boltless, integral restraining system and shall
20 be rated for 350 psi in accordance with AWWA C111.
21
22 Solid sleeve pipe couplings shall be long pattern sleeves constructed of ductile iron with
23 a minimum pressure rating of 350 psi working pressure. Sleeve couplings shall be
24 restrained with megalugs.
25
26 Flexible couplings shall be used for connection between plain end pipe of same or
27 different material. Sleeve material shall be gray iron ASTM A126 Class B or ductile iron
28 ASTM A536. Ends have a smooth inside taper for uniform gasket seating. Followers
29 shall be ductile iron ASTM A536. Gaskets shall be Grade 30 specially compounded
30 rubber of all new materials. Bolts and nuts shall be high strength low alloy steel with
31 heavy, semi-finished hexagon nuts to AWWA C111 (ANSI-A21.11). Flexible couplings
32 shall be Romac XR501 long bodied couplings or Woodinville Water District approved
33 equal.
34

35 **Construction Requirements**

36 ***Existing Utilities***

37
38
39 Section 7-09.3(6) is supplemented with the following:
40

41 (*****)

42 The Woodinville Water District (District) will install temporary water services to the
43 affected businesses (Dairy Queen and the Red Barn). The Contractor shall protect
44 the temporary service lines to the existing meter locations at all times.
45

46 ***Backfilling Trenches***

47
48 Section 7-09.3(10) is supplemented with the following:
49

50 (*****)

51 Water main trench backfill shall be crushed surfacing base course in accordance
52 with Section 9-03.9(3).

Laying of Pipe on Curves

Ductile Iron Pipe

Section 7-09.3(15)A is supplemented with the following:

(*****)

In the first paragraph, in the last sentence, delete “shall not exceed the manufacturer’s” and replace with “shall not exceed ½ of the pipe manufacturer’s”.

Connections to Existing Mains

Section 7-09.3(19)A is supplemented with the following:

(*****)

Water service and fire protection to customers must remain in service at all times. The Woodinville Water District (District) will set up temporary water services to the two affected businesses (Dairy Queen and the Red Barn) as well as a temporary fire hydrant. The Contractor shall protect the temporary water system until transfer to the new main, and shall keep all or parts of both the existing and new water mains in service during transfer to the new system. The type of connections shall be as shown in the Plans. All joints required for connections between the existing system and the newly installed main shall be restrained using mega-lugs or equal so that the shutdowns and connections can be accomplished in the shortest possible time. In addition to the restrained joint connections, the Contractor shall also place deadman blocks, thrust blocks and other such restraints as necessary to insure the piping systems adjacent to the points of connection are securely held in place. Existing valves may leak; provide blind flange, cap or plug as necessary. The Contractor shall have materials on hand to repair leaks and prevent soil saturation. No extra compensation will be allowed for delays to drain the existing or new water mains, regardless of how long it takes to drain.

Existing pipe, fittings and valves shown in the Plans are as shown on the record drawing in Appendix F. The Contractor shall verify existing conditions prior to making connection to the existing water main, and shall also verify if the main needs to be installed deeper at utility crossings without using vertical bends, unless shown in the Plans.

In general, connections involve deflecting new pipe to match the existing pipe alignment and utilization of necessary fittings, couplings and pipe spools. Pipe joints and fittings shall be visually inspected under full static pressure by the District Inspector prior to backfill.

Water drained from the new or existing water mains into the excavation shall be clarified and dechlorinated prior to discharge into existing drainage ditches and only then with the approval of the City of Woodinville. Water can be disposed in the sanitary sewer with approval of the District. Water shall not be directly discharged into Little Bear Creek.

At connections of new piping to existing piping, all of the new piping, appurtenances and blocking shall have been installed, disinfected and have satisfactorily completed pressure and purity testing. The Contractor shall use a State-approved backflow prevention device (double check valve assembly or better) for filling, testing, and flushing of the new water system prior to connecting to the existing line.

The Engineer shall be notified fourteen (14) working days in advance of all scheduled connections and water shut-offs. Shut-offs are allowed 9 a.m. to 3 p.m. Tuesday through Thursday and require seven (7) working days advance notice to the affected customer. In some cases, the water shut-offs may be required late night and/or early mornings due to local businesses and traffic concerns.

All equipment and material necessary to make the connections shall be delivered to the site prior to the start of work. The Contractor shall pothole the connection point in advance and plan to have the appropriate fittings required on hand. Bolts, flanges, gaskets, couplings and all accessories shall be checked and assembled where possible by the Contractor and confirmed by the District prior to shut down of the water system. The Contractor is responsible for having all the correct parts on hand to perform the connection. Before connection or cut-in, all the fittings, pipes, valves, and couplings shall be sterile swabbed with a 1% chlorine solution by pulling a clean pig through the pipe and fittings. Pig diameter shall be same size as pipe (i.e. use 12-inch pig for 12-inch pipe, 8-inch pig for 8-inch pipe). The cleaning and sterilization shall be done immediately prior to installation and in the presence of the District inspector. Once the water has been shut off, the Contractor shall proceed rapidly and without interruption to complete the connection.

The operating of valves shall be done by the District's authorized representative. The Contractor shall not operate any valves on the existing system or on new mains that have been placed into service.

Upon completion of the work and before its final acceptance, the entire water system shall be put in operation under normal pressure and operated at that pressure for a period of not less than ten (10) calendar days by the Contractor. Any leaks or defects in the construction of the system that may develop shall be repaired and the test continued until the system is watertight.

The District reserves the right to use and occupy any portion of the improvements which have been completed sufficiently to permit use and occupancy, and such use and occupancy shall not be construed as an acceptance of the work as a whole or any part thereof. Any claims which the District may have against the Contractor shall not be deemed to have been waived by such use and occupancy.

Concrete Thrust Blocking

Section 7-09.3(21) is supplemented with the following:

(*****)

Concrete thrust blocking shall have a minimum of ¼ square-foot bearing against the fitting and 2 square feet of bearing against undisturbed soil and shall be clear of joints so as to permit taking up or dismantling the joint. A 4-mil thick plastic sheet shall be placed between the fitting and the concrete. All cast in place blocking shall have a minimum measurement of 12 inches between the pipe and the undisturbed bank. All blocking configurations and sizes shall be per the Woodinville Water District Standard Plan No. 3 and the vertical blocking restraint details on the plans. All blocking as shown are considered as minimums, and consideration should be given to unusual circumstances and topography.

Hydrostatic Pressure Test

Section 7-09.3(23) is deleted in its entirety and replaced with the following:

(*****)

All pipelines shall be tested and disinfected prior to the acceptance of work. All pumps, gauges, plugs, saddles, corporation stops, miscellaneous hose and piping, and measuring equipment necessary for performing the test shall be furnished, installed, and operated by the Contractor. Feed for the pump shall be from a barrel or other container so that the actual amount of "makeup" water can be measured periodically during the test period.

The pipeline shall be backfilled sufficiently to prevent movement of the pipe under pressure. All thrust blocks shall be in place and time allowed for the concrete to cure before testing. Where permanent blocking is not required, the Contractor shall furnish and install temporary blocking.

As soon as pipe is adequately secured against movement under pressure, it may be filled with water. Water supply for filling, testing and flushing of the new mains will be available from the existing distribution system at no cost for one testing and flushing cycle. However, if water is needed for additional tests, the contractor shall be billed for water used at the current rate of the Woodinville Water District (District). High volume flushing of the system will occur after the permanent full diameter connection is made. The Contractor shall not operate any gate valves on the existing system. District representatives will be available to operate existing valves. Flush water will be allowed in the sanitary sewer with permission from the District. See below for more information on flush water disposal.

After the pipe is filled and all air expelled, it shall be pumped to a test pressure equal to 150 psi in excess of the operating pressure, and this pressure shall be maintained for a period of ½ hour and then pump the main up to the test pressure again. In accordance with manufacturer's recommendation, all valves may be limited to a pressure differential equal to the rated pressure of the valve (200 psi minimum), but shall not restrict the test pressure of the main. Mainline testing shall be made with the hydrant auxiliary gate valves open and pressure against the hydrant valve. Hydrant ports shall also be tested to hold static pressure without any visible leaks. Hydrostatic tests shall be performed on every complete section of water main between two valves.

In addition to the hydrostatic pressure test, a leakage test shall be conducted on the pipeline. The leakage test shall be conducted at the same pressure as the hydrostatic pressure test for a period of not less than ½ hour. The quantity of water

lost from the main shall not exceed the number of gallons per hour determined by the formula:

$$L = \frac{SD(P)^{0.5}}{148,000}$$

in which L = Allowable leakage, gallons/hour
 S = Length of pipeline tested, feet
 D = Nominal diameter of the pipe, inches
 P = Average test pressure during leakage test, psi

There shall not be an appreciable or abrupt loss in pressure during the 30 minute test period. If water is lost in the main, the Contractor shall test in-between "in-line" valves to verify amount lost does not exceed the allowable water loss defined above. Gauges used in the test shall be accompanied with a satisfactory certification of accuracy from a laboratory approved by the District. Gauges shall be 0-400 psi and positioned so they are easily read.

Defective materials or workmanship, discovered as a result of the tests, shall be replaced by the Contractor at the Contractor's expense. Whenever it is necessary to replace defective material or correct the workmanship, the tests shall be rerun at the Contractor's expense until a satisfactory test is obtained.

Disinfection of Water Mains

Section 7-09.3(24) is revised to read as follows:

(*****)

As sections of pipe are constructed and before pipelines are placed in service they shall be sterilized in conformance with the requirements of the State of Washington, Department of Health.

Chlorine shall be applied in one of the following manners, listed in order of preference, to secure a concentration in the pipe of at least 50 ppm:

Injection of chlorine-water mixture from chlorinating apparatus through corporation cock at beginning of section after pipe has been filled and with water exhausting at end of section at a rate controlled to produce the desired chlorine concentration.

Injection similarly of a hypochlorite solution.

Placement of dry chlorinated lime throughout pipeline as constructed in proper quantities to produce the desired dosage. Filling of pipeline with this method should be at a very slow rate. Pipeline should be filled within 2 days of placing sterilizing agent.

After the desired chlorine concentration has been obtained throughout the section of line, the water in the line shall be left standing for at least 12 hours and a maximum of 24 hours. Following this, the line shall be thoroughly flushed and a water sample collected. The line must not be placed in service until a satisfactory bacteriological report has been received.

The Contractor shall be solely responsible for disposal of chlorine flush water. At no time shall chlorinated water from a new main be flushed into a body of fresh water or storm system. This includes lakes, rivers, streams, and any and all other waters where fish or other natural water life can be expected. The Contractor shall be responsible for disposing of disinfecting solution to the satisfaction of the City of Woodinville (City). At a minimum, water shall be dechlorinated to a concentration of 0.1 parts per million (ppm) or less, and pH adjusted to within 6.5 – 8.5 standard units before discharging. Discharge of flush water may be allowed in the sanitary sewer with permission from the Woodinville Water District (District). The chlorinated water shall be neutralized prior to discharge to the existing storm drain system or the sanitary sewer with permission from the District. Flush volume shall be 3 to 5 times volume turnover. Estimated volume of flush water requiring storage shall be 800 to 1,300 gallons per 100 linear feet of 8-inch diameter ductile iron water main. Neutralized water that has been tested and passed City requirements can be discharged to the storm system at a rate as specified by the City, depending on discharge location.

Disinfection of connection pieces and fittings shall be made by pulling a clean pig (same diameter as the water main) with 1% chlorine solution through the pipe and fittings immediately before placing in the ground.

District representatives only shall be allowed to operate existing and new tie-in valves. Contractor's personnel are expressly forbidden to operate any valve on any section of line which has been accepted by the District.

Payment

The third paragraph of Section 7-09.5 is revised to read as follows:

(*****)

The unit Contract price per linear foot for each size and kind of "_____ Pipe for Water Main _____ In. Diam." shall be full pay for all Work to complete the installation of the water main, including but not limited to, trench excavation, bedding, laying and jointing pipe and fittings, backfilling, compaction, dewatering, ethafoam cushioning when required, protection of existing utilities and services, locking gaskets where restrained pipe is required, concrete thrust blocking, testing, disinfecting the pipeline, flushing, dechlorination of water used for flushing, and cleanup.

Section 7-09.5 is supplemented with the following:

(*****)

"Connection to Existing DI including Fittings", lump sum.

The lump sum price for "Connection to Existing DI including Fittings" shall be full compensation for all costs involved in making the connection from the new disinfected and tested system to the existing system required to establish service of the 8" DI main. Also included are all labor, materials and equipment required to connect the two systems including pipe spools, ductile iron fittings (couplings, bends, sleeves and mega-lugs), blocking, disinfection of the materials and installation, temporary plugs and blow-offs, caps, fittings or material required to facilitate the work, removing the existing water main including providing temporary plugs or blind flanges and temporary blow-off and blocking as required to temporarily seal the ends of the pipe that needs to remain during

1 structure installation, as well as furnishing, installing and removing temporary blowoffs
2 for air release and flushing of new and existing main as needed, and providing a
3 temporary Baker Tank and water truck as needed for flushing and dechlorination of the
4 new main.

5 6 **Service Connections**

7 8 **Materials**

9
10 Section 7-15.2 is supplemented with the following:

11
12 (*****)

13 Materials for 1-inch Water Service reconnection shall be as shown on Woodinville Water
14 District (District) Standard Plan Nos. 16 and 13M. All Brass components shall conform
15 to the latest version of NSF 61 and ANSI/AWWA C800 for no lead. All fittings shall be
16 stamped or embossed indicating the product is manufactured from a no lead alloy.

17
18 In addition:

- 19 • The Contractor shall provide a new meter box for all services. Meter boxes
20 located in driveways or other driving surface shall be traffic rated.
- 21 • The services shall be installed as shown on the Standard Plans. Services shall
22 be installed in one piece with no splices. Service lines installed under rockeries,
23 walls, or sidewalk shall be placed in a 2-inch Schedule 80 PVC sleeve.
- 24 • Water services shall have 12 gauge copper wire wrapped around the service
25 pipe and tied to the service saddle as shown in the Standard Detail.

26 27 **Construction Requirements**

28
29 Section 7-15.3 is supplemented with the following:

30
31 (*****)

32 In the first paragraph, the first sentence, delete "except to ductile iron Class 52 or
33 stronger". Delete the second sentence. Add "Direct taps are prohibited."

34
35 This section is supplemented with the following:

36
37 The water service pipe between the main and the meter shall be replaced on all water
38 services in accordance with Woodinville Water District (District) Standard Plans.
39 Services shall be installed in one piece with no splices and in accordance with the
40 Standard Plans. Services installed under sidewalks shall be placed in a 2-inch diameter
41 Schedule 80 PVC sleeve. Services shall be wet tapped by the Contractor after the
42 water main is pressure tested and flushed and passed purity samples.

43
44 Work requiring a water outage to reconnect the customers to the new main shall be
45 done when the businesses (Dairy Queen and the Red Barn) are closed. This may
46 require night work. The Engineer shall be notified fourteen (14) working days prior to
47 any work requiring a water outage. The Contractor shall coordinate re-connection of an
48 existing service with the affected customer. The Contractor shall notify the affected
49 customer a minimum of 24 hours before a water shut down or transfer of service to the
50 new water main. In addition, the Contractor shall notify the customer 30 minutes prior to
51 transferring the service to the new main.

Contractor coordination with the affected customer shall include flushing and removal of air from the service line immediately following the connection. The Contractor shall reconnect, or relocate and reconnect as appropriate, existing customer backflow device or PRV, if present. Once the customer service is disconnected, continuous work shall occur to reconnect the service, keeping the outage to a minimum. If an individual PRV is moved or leaks upon reconnection, it shall be replaced at no additional cost to the District or customer. Actual pressure at the business shall be recorded before moving PRV and matched after installation.

The Contractor shall be responsible for any leaks that develop from the work performed making the reconnection. The Contractor shall also be responsible for the cost of any water lost should the backside connection develop a leak. Connections at the meter box shall be left open for inspection by the District Inspector.

At some locations, the District may furnish new water meters for installation by the Contractor.

Temporary Water Service

The Contractor shall install and maintain a Temporary Water Service as shown in the Plans until the Woodinville Water District (District) installs a temporary water main to the businesses north of the culvert, or July 1, 2016 whichever comes first. The Temporary Water Service shall include tapping the existing 8-inch asbestos cement (AC) water main with a 2-inch stainless steel double strap service saddle (Romac 202S or approved equal), asbestos abatement, installing a 2-inch ball corporation stop, and connecting a 2-inch diameter HDPE (SDR7, Class 200 psi) service line from the tap to the existing meters north of the existing culvert. The service line shall be disinfected in accordance with Section 7-15.3(1) prior to connection to the 8-inch AC water main and the two existing meters. The service line shall be buried adjacent to the roadway a minimum of 12-inches deep where possible from the tap to the existing meters. A splitter and two 1-inch diameter HDPE service pipes shall be used to connect the service line to the existing meters. Once the District's temporary water main is in operation, the Temporary Water Service shall be removed within 7 working days. At the tap, the service line shall be cut, the corporation stop shut, and the connection capped with a brass plug. The service line shall remain the property of the Woodinville Water District and shall be delivered to the District's maintenance yard at the following address: 17238 NE Woodinville-Duvall Road, Woodinville, Washington.

Payment

Section 7-15.5 is revised to read as follows:

(*****)

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

“Service Connection” is deleted from this section and replaced with the following:

“Replace and Reconnect Ex. Service to New Water Main”, per each.

The unit Contract price per each for “Replace and Reconnect Ex. Service to New Water Main” shall be full pay for all work to replace and reconnect the existing water service per Woodinville Water District Standard Plans 16 and 13M. The item includes excavation, backfill, corporation stop, service pipe and fittings, trace wire,

2-inch Schedule 80 PVC sleeve under sidewalk, meter setter, front and back ball angle stops and reconnect at the location to re-establish service including all required clamps, fittings and adapters with 1" Type K soft copper pipe and brass fittings and connectors or poly per Note 3 on Standard Plan No. 13M on the customer side of the meter. The item also includes relocation and/or reconnection of all backflow devices or PRV if present. Included in this bid item is all restoration of customer's property to match existing conditions or better, including but not limited to, hydroseeding and restoring any plants disturbed. Also included are all required notification and coordination with the customer during service transfer to the new main, including any after hours or night work required to limit service disruptions to customers to when the businesses are closed. Abandoning existing service tap is also included in this bid item, including shutting existing corporation stop at the main, cutting the existing service line and capping corporation stop with a brass plug.

"Temporary Water Service", lump sum.

The lump sum price for "Temporary Water Service" shall be full compensation for all costs involved in providing the Temporary Water Service to the two businesses north of the culvert. Included are all materials, including service saddle with dual stainless steel straps, corporation stop, HDPE service line, splitter, fittings as necessary for all connections to service saddle, corporation stop, and existing meters, asbestos abatement, excavation, backfill, disinfection and flushing. Also included is removal of the Temporary Water Service after the District's temporary water main is in service, including excavation, backfill, removal of the service line, cutting the service line at the corporation stop, shutting the corporation stop and capping the water main with a brass plug.

Division 8 Miscellaneous Construction

Erosion Control and Water Pollution Control

Materials

Compost

Section 9-14.4(8) is supplemented with the following:

(*****)

Acceptance will be based upon a visual examination of the compost and US Composting Council Seal of Testing Assurance (STA) certified laboratory test results dated within 90 calendar days of the application.

(*****)

Arborist Chips

Arborist chips shall be coarse ground wood chips (approximately 1/2" to 6" along the longest dimension) derived from the mechanical grinding or shredding of the above-ground portions of trees. Arborist chips may contain wood, wood fiber, bark, branches, and leaves; but may not contain visible amounts of soil. Arborist chips shall be free of weeds and weed seeds, and plant portions capable of resprouting, including but not limited to plants on the King County Noxious Weed list. Arborist

chips may not contain more than 0.5% by weight of physical contaminants, defined in WAC 173-350 (plastic, concrete, ceramics, metal, etc.).

Construction Requirements

Seeding, Fertilizing and Mulching

(NWR November 10, 2014)

Preparation For Application

Section 8-01.3(2)A is supplemented with the following:

Weeds in any area to be seeded shall be controlled in accordance with Section 8-02.3(3) prior to seeding.

Disturbed areas requiring seeding, including but not limited to staging areas and access roads, shall be loosened and cultivated to a minimum depth of 10 inches prior to seeding operations.

No cultivation shall occur in areas within the drip line of existing vegetation scheduled to remain.

The Contractor shall seed the prepared areas within two calendar weeks of completion of preparation. Temporary erosion control measures may be required to allow seeding and preparation activities to be performed in accordance with the requirements of Section 8-01.3(2)F.

Seeding and Fertilizing

Section 8-01.3(2)B is supplemented with the following:

(NWR July 13, 2015)

Erosion Control Seed

Seed of the following composition, proportion, and quality shall be applied at a rate of 25 pounds per acre on areas requiring seeding, fertilizing and mulching:

Kind and Variety of <u>Seed in Mixture</u>	Pounds of Pure Live Seed <u>Per Acre</u>
Rough Bentgrass (Agrostis scabra)	1.3
Creeping Red Fescue (Festuca rubra ssp. rubra)	16.0
Crimson Clover (Trifolium incarnatum)	1.5
California Poppy (Eschscholtzia californica)	2.5
Common Yarrow	0.1

1	(Achillea millefolium)	
2		
3	Red Columbine	1.8
4	(Aquilegia formosa)	
5		
6	Pacific Lupine	<u>1.8</u>
7	(Lupinus lepidus)	
8		
9	TOTAL	25.00

(*****)

Placing Compost Blanket

Section 8-01.3(4) is supplemented with the following:

After the initial planting area weed control and grading are completed, and prior to the seeding and planting, all designated areas shall be covered with compost blanket for temporary erosion control. Immediately prior to planting or seeding, compost blanket shall be incorporated into the soil according to the requirements of Section 8-02.3(5), **COMPOST BLANKET INCORPORATION**.

Prior to placement and incorporation of compost, the application and incorporation methods shall be approved by the Engineer.

Compost shall not be placed when a condition exists, such as frozen soil or water saturated soil that may be detrimental to successful application, incorporation, or soil structure.

The Contractor shall notify the Engineer a minimum of five working days prior to the start of compost work.

(*****)

Fertilizer

Fertilizer shall be organic and in a pelleted or granular form. Fertilizer for seeding or planting shall be one of the following products:

Fertilizer

Products	Guaranteed Chemical Analysis (N-P-K)(%)	Company
Biosol Forte™	7-2-1	Rocky Mountain Bioproducts Edwards, CO
Fertil-Fibers™	6-4-1	Quattro Environmental Coronado, CA
Phyta-Grow Leafy Green Special™	7-1-2	California Organic Fertilizers Inc. Fresno, CA
Approved Equal*	N: 6 to 7 P: 1 to 4 K: 1 to 2	_____

*Approved equal shall be within the ranges shown for N-P-K. The cumulative N release rate shall be no more than 70 percent the first 70 days after incubation (86° F) with 100 percent at 350 days

or more.

All fertilizers shall be furnished in standard unopened containers with weight, name of plant nutrients, and manufacturer's guaranteed statement of analysis clearly marked, all in accordance with State and Federal laws.

Mulching

Section 8-01.3(2)D is supplemented with the following:

(January 5, 2015)

*** Moderate Term Mulch *** shall be applied at a rate of *** 2700*** pounds per acre with no more than *** 1400*** pounds per acre applied in a single lift.

(*****)

Table 3 Moderate Term Mulch Test Requirements is replaced by the following:

Properties	Test Method	Requirements
Performance in Protecting Slopes from Rainfall-Induced Erosion	ASTM D 6459.	C Factor = 0.010 maximum using Revised Universal Soil Loss Equation (RUSLE)

Stabilized Construction Entrance

Section 8-01.3(7) is supplemented with the following:

(*****)

Within the construction entrance areas, the Contractor shall protect the root systems of the existing vegetation designated in the Plans to be saved during the construction, operation, maintenance and removal of the stabilized construction entrances.

The Contractor shall place geotextile for separation prior to placement of other materials for construction access. Arborist chips shall be placed over the geotextile in the stabilized construction entrances to the depth shown in the Plans. Construction geotextile and arborist chips shall be placed over the entire width of the temporary construction access roads prior to placing quarry spall material. The quarry spalls shall be spread over the area of stabilized construction entrances to a depth shown in the Plans.

When the Engineer determines that the temporary construction access roads are no longer needed, the Contractor shall completely remove and dispose of to an off-site location all materials used for the stabilized construction entrances.

Fencing

High Visibility Fencing

Section 8-01.3(9)A1 is supplemented with the following:

1 (*****)
2 At locations determined by the Engineer, openings in the high visibility
3 fence may be allowed for the sole purpose or allowing access to planting
4 areas. No equipment will be allowed behind the HVF fence without
5 approval from the Engineer.
6

7 **Measurement**

8
9 Section 8-01.4 is supplemented with the following:

10
11 (*****)
12 Arborist chips will be measured along the ground slope and computed in square yards.
13

14 **Payment**

15
16 Section 8-01.5 is supplemented with the following:

17
18 (*****)
19 "Arborist Chips", per square yard.
20

21 **Roadside Restoration**

22 **Description**

23
24
25 Section 8-02.1 is supplemented with the following:

26
27 (August 4, 2014)
28 This work shall consist of removing and disposing of buried man-made debris that may
29 be encountered during soil amendment incorporation or excavation for irrigation
30 systems.
31

32 **Materials**

33
34 Section 8-02.2 is supplemented with the following:

35 **Soil**

36 **Topsoil**

37
38 Section 9-14.1(1) is supplemented with the following:

39 **Topsoil Type A**

40
41 (*****)
42 Topsoil Type A shall be 60% to 70% Sandy Loam and 40% to 30% Fine
43 Compost by volume. Sandy Loam shall be as defined by the US Department of
44 Agriculture Soil Classification System.
45
46

47 The Contractor shall submit a Particle Size Analysis as a Type 1 Working
48 Drawing from an independent accredited soils testing laboratory indicating the
49 Material source and compliance with all Topsoil Type A specifications. The
50 laboratory analysis shall be with a sample size of no less than 2 pounds.
51

The Fine Compost shall conform to the requirements of 9-14.4(8) and Section 9-14.3 of the Special Provisions.

Topsoil Type A shall be thoroughly blended off site before placement and shall meet the following requirement:

Organic content greater than 8% but less than 15% as measured on a dry weight basis using AASHTO T 267 Determination of Organic Content in Soils by Loss on Ignition.

(*****)

Water Bag

Slow-release water bags specified for trees shall meet the following criteria:

1. Approximately 20 gallon capacity when filled with water;
2. UV stabilized polyethylene plastic with nylon webbing;
3. Two water release points for even watering.

Product labels shall clearly show the manufacturer or supplier name, product name and number and shall include a compliance statement certifying that all ingredients and inspection standards for this product have been met.

Each slow-release water bag shall be protected from damage due to shipment, water, sunlight and contaminants. Protection shall be maintained during periods of shipment and storage.

Water bags shall be installed after all danger of frost and on or before June 1st. Water bags shall be maintained in a functioning condition for the 1st year of plant establishment.

Filling of Water Bag

During the 1st year of plant establishment, the Contractor shall refill each water bag weekly from June 1 to September 30.

Construction Requirements

Responsibility During Construction

Section 8-02.3(1) is supplemented with the following:

(NWR November 10, 2014)

For all planting areas, the Contractor shall perform work in a manner that minimizes displacement and destruction of the pre-existing soil structure. Work will be stopped if, in the opinion of the Engineer, construction method, soil moisture content or other condition will result in displacement of the existing soil horizon (such as ruts over 3 inches deep), or soil structure degradation. The Contractor will not be allowed to resume work until conditions improve or an alternate method of construction is approved by the Engineer.

Weed and Pest Control

Section 8-02.3(3) is supplemented with the following:

(NWR November 10, 2014)

1 The Contractor shall save and protect existing erosion control grass in areas where
2 spot-treatment of weeds is required.

3
4 In areas where the Contractor's activities have compromised the erosion control
5 functions of the existing grasses, the Contractor shall overseed at no additional
6 cost to the Contracting Agency.

7
8 (NWR November 10, 2014)

9 The Contractor shall control weeds outside of planting areas and within the project
10 limits that are not otherwise covered by the requirements of Section 8-02.3(3),
11 **Planting Area Weed Control** as directed by the Engineer.

12
13 The Contractor shall remove weed debris from within the project limits.

14
15 This work shall commence from the beginning of the project and continue through
16 the first year of plant establishment, as ordered by the Engineer. All work to
17 accomplish the requirements of this Section shall comply with the Weed and Pest
18 Control Plan in accordance with Section 8-02.3(2).

19
20 (NWR January 3, 2011)

21 All work to control weeds or pests shall be performed according to the Weed and
22 Pest Control Plan as required in Section 8-02.3(2) throughout the life of the project.
23 If the need arises for methods of weed or pest control that are not covered by the
24 approved Weed and Pest Control Plan, the Contractor shall submit an amended
25 plan for approval by the Engineer prior to performing the work.

26
27 **Planting Area Weed Control**

28 Section 8-02.3(3)A is supplemented with the following:

29
30 (*****)

31 Weeds within mulched areas and within mulch rings shall be controlled
32 according to Section 8-02.3(3)A, PLANTING AREA WEED CONTROL. Weeds
33 between mulch rings shall be controlled as directed by the Engineer under the
34 bid item, WEED AND PEST CONTROL.

35
36 ***Topsoil***

37
38 **Topsoil Type A**

39 Section 8-02.3(4)A is supplemented with the following:

40
41 (*****)

42 At least 14 calendar days prior to placement, the Contractor shall submit to the
43 Engineer a Request for Approval of Material Source containing independent
44 test results from a Washington State Department of Ecology Accredited
45 Laboratory showing the Topsoil Type A meets all requirements.

46
47 ***Planting Area Preparation***

48
49 Section 8-02.3(5) is supplemented with the following:

50
51 (*****)

1 **Soil Decompaction**

2 In the locations designated in the Plans, and prior to the placement of soil
3 amendment, the Contractor shall loosen the existing soil by ripping to a depth of 18
4 inches. The Contracting Agency has estimated these areas to be approximately 0.1
5 acre.

6
7 (*****)

8 **Compost Blanket Incorporation**

9 Prior to seeding or planting, the Contractor shall notify the Engineer a minimum of
10 five working days prior to incorporating the compost blanket. The incorporation
11 methods shall be approved by the Engineer.

12
13 Where shown in the Plans, compost blanket shall not be incorporated more than 7
14 calendar days prior to final seeding.

15
16 Compost blanket shall not be incorporated when a condition exists, such as frozen
17 or water saturated soil that may be detrimental to successful incorporation, or soil
18 structure.

19
20 The Contractor shall prevent damage to the root systems of existing vegetation
21 scheduled to remain when incorporating the compost blanket.

22
23 The Contractor shall prepare areas covered with compost blanket by incorporating
24 the compost blanket into the existing soil. The compost blanket material shall be
25 incorporated to a depth of 10 inches as detailed in the Plans.

26
27 The Contractor shall restore design grades to roadway and biofiltration swale
28 slopes to prevent ponding.

29
30 ***Layout of Planting***

31 Section 8-02.3(7) is supplemented with the following:

32
33 (NWR January 17, 2006)

34 Soil moisture conditions may require adjustment of location or timing of planting for
35 individual plants or plant mixes. The Contractor may make recommendations for
36 adjustments to plant locations or timing of planting within planting zones to ensure
37 the success of all plants. Layout and timing of planting shall be approved by the
38 Engineer prior to planting.

39
40 The Contractor shall locate plants to ensure that only low-growing species are
41 placed in front of signs. If tall growing species are placed within sight lines in front
42 of signs, the Contractor shall, upon request by the Engineer and at no cost to the
43 Contracting Agency, move the tall species to non-blocking locations. The
44 Contractor shall replant the voids with low-growing species if included in the plant
45 mix for the area, or re-seed the area if no low-growing species are called for in the
46 vicinity of the planting area.

47
48 ***Planting***

49
50 Section 8-02.3(8) is supplemented with the following:

51 (*****)
52

The Contractor shall minimize disturbance of the stream bank and prevent sediment or other pollutant discharges from entering the stream when installing plant material in creek or stream bank edges.

The Contractor shall prevent damage to the root systems of the existing vegetation when installing plant material next to existing vegetation scheduled to remain.

Bark or Wood Chip Mulch

Section 8-02.3(11) is supplemented with the following:

(NWR November 10, 2014)

Bark mulch or wood chip mulch shall be uniformly placed to a non-compacted depth over the specified planting areas as shown in the Plans. Bark or wood chip mulch shall not be placed in areas of standing water.

Plant Establishment

The third paragraph of Section 8-02.3(13) is supplemented with the following:

(NWR November 10, 2014)

Unsatisfactory plant material will be determined by the Engineer.

Plant Replacement

(NWR June 5, 2000)

Live Fascine

Plant replacement for "PSIPE Live Fascine" will be required for each section void of live shoots for a continuous distance of *** 5 ft *** or more. Replacement shall consist of installing live stakes, spaced *** 1.5 ft *** apart along a single row, on the uphill side of the section to be replaced. Live stakes shall be of the same species as the fascine, shall have a minimum length of *** 4 ft *** and a minimum caliper of *** 1/2 inch ***.

Measurement

Section 8-02.4 is supplemented with the following:

(*****)

"Water Bag," per each.

(*****)

Soil decompaction will be measured per acre.

(*****)

Compost blanket incorporation will be measured along the ground slope and computed in square yards.

(January 5, 2015)

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

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

Payment

Section 8-02.5 is supplemented with the following:

(*****)

The unit contract price per each for "Water Bags" shall include all costs for water bag, water for bags and installation.

(January 5, 2015)

"Fine Compost ", per square yard.

"Medium Compost", per square yard.

"Coarse Compost", per square yard.

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

"Soil Amendment", per square yard.

The unit Contract price per square yard for "Soil Amendment" shall be full pay for furnishing and incorporating the soil amendment into the existing soil.

"Bark or Wood Chip Mulch", per square yard.

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

"Topsoil Type ____", per square yard.

The unit Contract price per square yard for "Topsoil Type ____" shall be full pay for all costs for the specified Work.

(*****)

"Compost Blanket Incorporation", per square yard.

The unit contract price per square yard for "Compost Blanket Incorporation" shall include all costs for ripping, tilling the existing soil, and restoring the disturbed areas to finished design grades.

(*****)

"Soil Decompaction", per acre.

The unit contract price for "Soil Decompaction", per acre shall be full pay for performing the work as specified.

The twelfth paragraph in Section 8-02.5 is replaced with the following:

1 (*****)
2 Plant establishment milestones are achieved when planting areas meet conditions
3 described in Section 8-02.3(13).
4

5 (*****)
6 **AGGREGATES FOR STREAMS, RIVERS AND WATERBODIES**

7 **Description**

8
9 This Work consists of furnishing, mixing, and placing aggregates for streams, rivers and
10 waterbodies of the type specified at the locations and in conformity with the lines and
11 dimensions shown in the Plans or established by the Engineer. Aggregates for streams,
12 rivers and waterbodies will be classified as follows:
13

14 Streambed Sediment
15 Streambed Cobbles 6 In.
16

17 **Materials**

18
19 Materials shall meet the requirements of the following sections:

20 Streambed Sediment 9-03.11 (1)
21 Streambed Cobbles 9-03.11 (2)
22

23 Streambed Material shall be a mix of the following aggregates with the associated ratios, as
24 called out in the Plans:

25
26 Streambed Sediment: 30%
27 Streambed Cobbles 6 In.: 70%
28

29 Acceptance of the Streambed Sediment and Streambed Cobbles and the final mixture will
30 be based upon visual inspection by the Engineer. After acceptance by the Engineer of
31 Streambed Sediment and Streambed Cobbles, Streambed Material shall be thoroughly
32 blended before placement.
33

34 Streambed Sediment and Streambed Cobbles may be available from the existing streambed
35 excavation limits as shown in the Contract Plans. Components of the excavated streambed
36 which meet the criteria for the specific material can be used to supplement the Streambed
37 Sediment and Streambed Cobbles and will be based upon visual acceptance by the
38 Engineer.
39

40 **Construction Requirements**

41
42 **Streambed Information**

43 A Final Basis of Design Document which contains photos of the creek and the intent
44 and goals that were used for the development of the Plans is available for review by the
45 Bidder at the following location:
46

47 Dave Lindberg
48 9025 El Capitan Way
49 Everett, WA 98208
50 (425) 225-8725
51

And online at:

<http://www.wsdot.wa.gov/contracts>

Preconstruction Conference

A streambed preconstruction conference shall be held at least 5 working days prior to the Contractor beginning streambed construction to discuss the goals and methods of streambed construction which shall include the construction procedures, personnel, and equipment to be used.

Those attending shall include:

The superintendent, on site supervisor, foreman, the Environmental Compliance Lead and any other personnel that will have on-site responsibility for streambed material placement.

Notice of the meeting date shall be given to the Engineer 14 calendar days prior to this meeting taking place.

Excavation for Aggregates for Streams, Rivers and Waterbodies

The foundation for streambed aggregate shall be excavated to the elevations and grades shown in the Plans. Excavation for streambed aggregate shall be classified, measured, and paid for as Channel Excavation in accordance with Section 2-03.

Placement of Aggregates for Streams, Rivers and Waterbodies

Stockpiling Aggregate

Streambed Material consists of Streambed Sediment and Streambed Cobbles 6 In. and shall be blended into a single well graded stockpile separate from other aggregates.

Placing Aggregate in Streambed

Streambed Material shall be placed in the prepared channel excavation to the lines and grades shown on the Plans. Final installation shall provide a well graded mix of Streambed Sediment and Streambed Cobbles.

Placement of Streambed Material shall be constructed to ensure that low stream flows are conveyed above the finished channel. During and after placement, the Contractor shall apply water to facilitate filling the interstitial voids of the Streambed Cobbles with Streambed Sediment. An indicator that the voids are satisfactorily filled with Streambed Sediment is when water equivalent to the flow rate in the stream on the day of project construction flows on the surface of the Streambed Material.

Placing Additional Aggregate in Streambed

If directed by the Engineer, the Contractor shall place additional Streambed Sediment in the streambed.

Measurement

Streambed Sediment will be measured by the ton.

Streambed Cobbles will be measured by the ton.

1
2 **Payment**
3

4 Payment will be made in accordance with Section 1-04.1, for each of the following Bid items
5 that are included in the Proposal:
6

7 "Streambed Sediment", per ton
8 "Streambed Cobbles 6 In.", per ton
9

10 The unit Contract price per ton for "Streambed Sediment" and "Streambed Cobbles 6
11 In." shall be full payment for all costs to perform the Work.
12

13 Payment will be made in accordance with Section 1-09.6, for the following item included in
14 the proposal:
15

16 "Force Account – Additional Streambed Sediment"
17

18 All costs in connection with adjusting streambed material after the initial placement in
19 the streambed will be paid for by force account in accordance with Section 1-09.6.
20

21 For the purpose of providing a common Proposal for all Bidders, the Contract Agency
22 has entered an amount for the item "Force Account Placing Additional Streambed
23 Sediment" in the Bid Proposal to become a part of the total bid by the Contractor.
24

25 **IRRIGATION SYSTEM**
26

27 **Description**
28

29 Section 8-03.1 is supplemented with the following:
30

31 (*****)

32 This work also consists of Existing Irrigation System Modification where the existing
33 irrigation system is affected by construction activities including repairs, modifications,
34 salvaging, and replacement where shown in the Plans and as directed by the Engineer.
35

36 **Construction Requirements**
37

38 Section 8-03.3 is supplemented with the following:
39

40 (*****)

41 **Existing Irrigation System Modification**

42 Where indicated on Plans, the Contractor shall locate the existing irrigation system
43 and protect it from damage during construction. If necessary, remaining portions of
44 the system shall be temporarily capped, and the damaged portions removed and
45 re-installed or replaced after construction.
46

47 All work shall be done in accordance with Section 8-03 and Section 9-15.
48

49 The Contractor shall notify the Project Engineer 3 working days in advance of
50 irrigation work that will interrupt existing irrigation so the Contracting Agency can
51 turn off the appropriate irrigation circuit.
52

The Contractor shall locate all existing irrigation lines and components in the vicinity of the work. If a portion of the system must be removed, the Contractor shall cleanly cut unneeded portions of irrigation lines and cap the lines.

Upon completion of construction in each location, the irrigation system shall be repaired or replaced within the same working day. The Contractor shall restore the irrigation system to provide the pre-construction coverage by re-installing the existing pipes and heads, or by installing new equipment. Irrigation casing shall be installed under pavement or pavers; irrigation lines shall be placed in casing under paving. Any additional equipment required for restoration of the irrigation system to full operation and coverage is included in this Work.

Unneeded irrigation heads shall be removed and will become the property of the Contracting Agency. Removed irrigation pipes shall become the property of the Contractor and shall be disposed off-site. The remaining irrigation heads shall be adjusted as necessary to achieve head to head irrigation coverage to the remaining planting beds. Any irrigation system interrupted during modification shall be blown clear of debris prior to operation.

Payment

Section 8-03.5 is supplemented with the following:

(*****)

"Existing Irrigation System Modification", Lump Sum.

Payment will be made in accordance with Section 1-04.1 for Existing Irrigation System Modification to perform the Work as specified.

Chain Link Fence and Wire Fence

Materials

Section 8-12.2 is supplemented with the following:

(August 3, 2009)

Coated Chain Link Fence

Chain link fence fabric shall be hot-dip galvanized with a minimum of 0.8 ounce per square foot of surface area.

Fencing materials shall be coated with an ultraviolet-insensitive plastic or other inert material at least 2 mils in thickness. Any pretreatment or coating shall be applied in accordance with the manufacturer's written instructions. The Contractor shall provide the Engineer with the manufacturer's written specifications detailing the product and method of fabrication. The color shall match Federal Standard 595 color number *** 14062 ***, or be as approved by the Engineer.

Samples of the coated fencing materials shall be approved by the Engineer prior to installation on the project.

The Contractor shall supply the Engineer with 10 aerosol spray cans containing a minimum of 14 ounces each of paint of the color specified above. The touch-up paint shall be compatible with the coating system used.

1
2 **(April 6, 2015)**

3 **Cable Fence**

4 Steel pipe shall conform to ASTM A 53, Grade B, Type E or S.

5
6 Steel bars, plates, and shapes shall conform to ASTM A 36.

7
8 Steel components shall be galvanized after fabrication in accordance with AASHTO M
9 111.

10
11 Resin bonded anchors shall conform to Section 6-02.2 as supplemented in these
12 Special Provisions.

13
14 Spelter sockets and turnbuckles shall conform to the size and breaking strength
15 requirements specific in the Plans, shall be compatible with the wire rope selected by
16 the Contractor, and shall be galvanized after fabrication in accordance with AASHTO M
17 232.

18
19 Wire rope shall conform to ASTM A 603 with Class A weight zinc-coated wires
20 throughout.

21
22 **Construction Requirements**

23
24 Section 8-12.3 is supplemented with the following:

25
26 **Cable Fence**

27
28 **(April 6, 2015)**

29 The Contractor shall field measure the slope of the top of the existing retaining wall at
30 each location of cable fence end post and intermediate brace. The Contractor shall
31 submit Type 1 Working Drawings consisting of the tabulated field measured slope data.

32
33 **(April 6, 2015)**

34 The Contractor shall submit shop drawings of the cable fence in accordance with
35 Section 6-03.3(7). The shop drawings shall include, at a minimum, the following:

- 36
37 1. Plan, elevation, and section views of the cable fence and all components, with
38 dimensions and tolerances.
39
40 2. Material designations for all components.
41
42 3. Socketing procedure for the spelter sockets.
43
44 4. Erection plan for installing the posts, installing and connecting the cable to the
45 posts, and tensioning the cable.

46
47 The Contractor shall install resin bonded anchors in accordance with Section 6-02.3(18)
48 as supplemented in these Special Provisions.

49
50 The cable shall be tensioned to 400 pounds with six inches minimum of take up still
51 available in the turnbuckle.
52

(*****)

After erecting the cable fence posts, but prior to installing the cable, the Contractor shall clean, prepare, and paint all exposed galvanized surfaces in accordance with Section 6-07.3(11)A. The color of the finish coat, when dry, shall match Federal Standard 595 Color No. 14062.

Measurement

Section 8-12.4 is supplemented with the following:

(April 6, 2015)

Cable fence will be measured by the linear foot along the line and slope at the base of the completed fence.

Payment

Section 8-12.5 is supplemented with the following:

(April 6, 2015)

“Cable Fence”, per linear foot.

Riprap

Materials

Section 8-15.2 is supplemented with the following:

(*****)

Heavy loose riprap shall not contain broken concrete rubble.

Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical

Description

Section 8-20.1 is supplemented with the following:

(*****)

This Work shall also consist of installing conduits provided by Puget Sound Energy (PSE) at the locations shown in the Plans. Six-inch diameter conduits for power and four-inch diameter conduit for gas casing labeled as PSE conduits will be provided by PSE at no cost to the Contractor. PSE will deliver the conduit to the project site for storage. The Contractor shall notify the Engineer 30 working days prior to needing to receive the PSE conduits and shall provide a secure storage area for the PSE provided materials. The area must be large enough to safely receive and store all PSE materials delivered to the site. The Contractor, at all times, shall make the storage area available for use by PSE inspectors and staff. Conduit delivery may occur on more than one occasion. Conduit damaged after it has been delivered shall be replaced at the Contractor's expense. The Contractor shall notify the Engineer immediately upon discovering damaged conduit. Replacement conduit will be provided by PSE only. The Engineer shall coordinate conduit replacement with PSE. Storage, security, and all

1 traffic control requirements for the delivery of the conduit shall be the responsibility of
2 the Contractor.

3 4 **Materials**

5
6 **(NWR ITS February 11, 2002)**

7 **Fiber Optic Cable Lubricant**

8 Fiber optic cable lubricant shall be as follows:

9
10 Compatible with the cable jacket

11 Non-combustible

12 Water-based leaving little or no residue

13 14 **Rigid Metal Conduit Fittings and Appurtenances**

15
16 Section 9-29.1(2) is supplemented with the following:

17
18 **(August 10, 2009)**

19 **Conduit Coatings**

20 Electroplated couplings are not allowed.

21
22 **(NWR March 4, 2009)**

23 **Surface Mounting Conduit Attachment Components**

24 Channel supports and all fastening hardware components shall be Type 304
25 stainless steel. Conduit clamps shall be one piece, two bolt units with lock
26 washers.

27 28 ***Fiber Optic Cable, Electrical Conductors, and Cable***

29 Section 9-29.3 is supplemented with the following:

30 31 **Fiber Optic Cable**

32 Section 9-29.3(1) is supplemented with the following:

33
34 **(NWR ITS April 10, 2006)**

35 **Communication Cables And Interfaces**

36 **Quality Assurance**

37 All materials described in this section shall meet or exceed the applicable
38 provisions of the following documents:

- 39
40 1. CFR Title 7, Section 1755.900, RUS Specification for Filled Fiber
41 Optic Cables
- 42
43 2. ANSI, C8.47-1983, American National Standard for Polyolefin-
44 insulated Thermoplastic Jacketed Communication Cables
- 45
46 3. TIA/EIA-455-28-C, Method for Measuring Tensile Failure Point of
47 Optical Waveguide Fibers
- 48
49 4. TIA/EIA-455-34-A, Interconnection Device Insertion Loss Test
- 50
51 5. TIA/EIA-455-95-A, Absolute Optical Power Test for Optical Fibers and
52 Cables

6. EIA-598-B, Color Standard for Optical Fibers

(NWR October 31, 2005)

Communication Cables And Interfaces

The Contractor shall provide manufacturer's certification that the submitted cable shall comply with the Rural Utilities Service (RUS) Specification 1755.900 as currently amended and with the requirements set forth in this Special Provision. Any deviations from these specifications shall be conspicuously noted in the Contractor's submittal.

Each cable shall contain the total number of optical fibers as specified in the Plans. For all cables with a strand count greater than 36, the fibers shall be placed in loose buffer tubes in groups of 12. For all other cables, the fibers shall be placed in loose buffer tubes in groups of 6.

The fiber optic cable outer jacket shall be marked with the manufacturer's name, the year of manufacture, the words OPTICAL CABLE and sequential meter marks. The markings shall be repeated every one meter. The actual length of the cable shall be within +/- 0.1% of the length marking. The marking shall be in contrasting color to the jacket. The marking shall be 2.5mm in height and shall be permanent and weatherproof.

Cable shall be of loose tube design. The tubes shall be surrounded by dry moisture blocking filling compound or tape. The tubes may be filled with dry moisture blocking powder surrounding the fibers.

The cable shall be constructed with the following components:

1. A dielectric central strength member
2. Buffer tubes containing optical fibers
3. Aramid (Kevlar) yarn
4. Outer MDPE jacket

The Contractor shall provide all materials required for the installation and splicing of the specified communications cables, power cables and associated interface devices.

The Contractor shall provide an unconditional warranty on all installed cable for a period of one (1) year.

At the request of the Engineer, the Contractor shall submit a 3-foot sample cable section to the Engineer for approval for each type of cable to be provided.

Singlemode Fiber Optic Cable

Section 9-29.3(1)A is supplemented with the following:

(NWR ITS October 31, 2005)

Communication Cables And Interfaces

Optical fiber shall meet the requirements of ITU G652 and specifically meet ITU G652.D Attributes. The fibers shall support the transmission of

wavelengths for Coarse Wavelength Division Multiplexing (CWDM) as defined in ITU G694.2.

Equipment List And Drawings

Section 8-20.2(1) is supplemented with the following:

(NWR ITS September 26, 2005)

Approval of Material

When submitting material lists for approval, the Contractor shall identify all revisions or changes to manufacturer names, component names, and model numbers listed in these Special Provisions. The Contractor shall also include a brief justification for the revision or change.

Construction Requirements

Section 8-20.3 is supplemented with the following:

(***)**

PSE Conduit Installation

The PSE conduit locations shown in the Plans are approximate and shall be adjusted as necessary to avoid conflicts with the geosynthetic retaining walls and existing irrigation system. The Contractor shall install the conduit located within the limits of the geosynthetic retaining wall at the time of wall construction. No excavating or trenching shall be allowed for conduit installation once the geosynthetic layers and backfill material have been placed. At no time during the conduit installation shall the geosynthetic layers be cut, torn, damaged or modified from their permanent location.

Coordination and notifications

PSE inspectors will to be on-site during conduit installation. The Contracting Agency will initiate coordination efforts with PSE. The Contractor shall notify the Engineer 10 working days prior to the start of the conduit installation. No work shall be backfilled, covered, or concealed until it has been inspected and approved by the Engineer and PSE staff.

Communication Cables And Interfaces

(NWR ITS February 11, 2002)

Submittals

Within a minimum of 30 calendar days prior to anticipated construction, the Contractor shall provide all documentation pertaining to the materials and method of execution proposed to satisfy the requirements of this section. The Engineer's approval is required prior to the committing of any materials or the commencement of any work.

The Engineer will either approve or disapprove each submitted item within 30 calendar days of submittal subject to the completeness of the Contractor's submittal. Actual elapsed time for the Engineer's review is dependent upon the completeness and appropriateness of the documentation being submitted. Any deficiencies in the Contractor's submittals shall require additional time for approval. Any delays caused by such deficiencies shall not be grounds for extension of project consideration dates. The Contractor shall anticipate review intervals and

1 schedule submittals accordingly to ensure project progress in accordance with
2 Section 1-08.3.

3
4 The Engineer's approval of any submitted documentation shall in no way relieve
5 the Contractor from compliance with the safety and performance requirements as
6 specified herein.

7
8 Submittals required by this item shall include, but not be limited to, the following:
9

- 10 1. A material staging plan, should the Contractor propose State owned
11 property as a staging area.
- 12
13 2. Manufacturer's complete specifications for all communication system
14 cables and, associated electronics and hardware components.
- 15
16 3. Manufacturer's complete specifications for twisted-pair cable splice
17 enclosures.
- 18
19 4. A detailed fiber optic and twisted-pair cable installation procedure
20 including the following:
21
 - 22 a. Fiber optic cable cutting lengths reflecting the cable order and reel
23 allocations.
 - 24
25 b. Cable pulling plan which shall state the exact operational procedures
26 to be utilized and which identifies the physical locations for equipment
27 placement, proposed equipment setup at each location, pulling
28 tension on all cables for each pull, staffing, and the pulling
29 methodology for each type of cable.
 - 30
31 c. Exact splice points as provided for herein.
 - 32
33 d. Workforce proposed for all equipment, safety, and manual assist
34 operations
- 35
36 5. Factory test data sheets for each reel of cable delivered.

37
38 **(NWR ITS February 11, 2002)**

39 **Cable Installation - General**

40 The Contractor shall determine a suitable cable installation method to ensure that
41 all cable installation requirements shall be met in all conduit sections. All work shall
42 be carried out in accordance and consistent with the highest standards of quality
43 and craftsmanship in the communication industry with regard to the electrical and
44 mechanical integrity of the connections; the finished appearance of the installation;
45 as well as the accuracy and completeness of the documentation.

46
47 The Contractor shall make a physical survey of the project site for the purpose of
48 establishing the exact cable routing and cutting lengths prior to the commencement
49 of any fiber optic work or committing any fiber optic materials. Splicing is only
50 allowed for the programmed connection of reels and as shown in the Plans to
51 connect a lateral fiber optic cable to the mainline distribution fiber optic cable. The
52 Contractor shall submit a cable routing plan that shows the locations of all splices.

1 All splice locations other than those shown in the Plans must be approved by the
2 Engineer.

3
4 All work areas shall be clean and orderly at the completion of work and at times
5 required by the Engineer during the progress of work.

6
7 **(NWR ITS October 21, 2003)**

8 **Fiber Optic Cable Installation**

9 Fiber optic cables shall be installed in continuous lengths without intermediate
10 splices throughout the project, except at the location(s) specified in the Plans, or as
11 approved in writing by the Engineer.

12
13 The Contractor shall comply with the cable manufacturer's specifications and
14 recommended procedures including, but not limited to the following:

- 15
16 1. Installation.
17 2. Proper attachment to the cable strength elements for pulling during
18 installation.
19 3. Bi-directional pulling.
20 4. Cable tensile limitations and the tension monitoring procedure.
21 5. Cable bending radius limitations.

22
23 The Contractor shall protect the loops from tangling or kinking. At no time during
24 the length of the project shall the cable's minimum bending radius specification be
25 violated.

26
27 To accommodate long, continuous installation lengths, bi-directional pulling of the
28 fiber optic cable shall be permitted.

29
30 In all cable vaults, pull boxes, and at all splice locations cable slack of 50 feet shall
31 be left by the Contractor, unless otherwise specified in the Plans. The 50 feet
32 length of fiber optic cable shall be coiled and secured with tie wraps to racking
33 hardware or as specified in the Plans.

34
35 Installation shall involve the placement of fiber optic cables in a specified inner duct
36 as defined in the Plans. The Contractor shall ensure that inner ducts are secured
37 to prevent movement during the cable installation process.

38
39 The pulling eye/sheath termination hardware on the fiber optic cables shall not be
40 pulled over any sheave blocks.

41
42 When power equipment is used to install fiber optic cabling, the pulling speed shall
43 not exceed 100 feet per minute. The pulling tension limitation for fiber optic cables
44 shall not be exceeded under any circumstances.

45
46 Large diameter wheels, pulling sheaves, and cable guides shall be used to
47 maintain the appropriate bending radius. Tension monitoring shall be accomplished
48 using commercial dynamometers or load-cell instruments.

49
50 Patch cords placed between pad mounted cabinets shall be protected by plastic
51 spiral wrapping or flexible plastic duct. Spiral wrap or flexible plastic duct shall
52 cover the entire length of the patch cord(s) to within 12 inches of end. The spiral

wrap shall be installed before the patch cords are pulled into the conduit(s) and be rated for use in electrical installations.

Fiber optic cable lubricant shall be used to reduce pulling tensions for the installation of each fiber optic cable.

(NWR ITS October 16, 2006)

Fiber Optic Cable Splicing

Field splices shall be located as shown in the plans. No additional splices will be allowed without the approval of the Engineer.

All fusion splicing equipment shall be in good working order, properly calibrated, and meeting all industry standards and safety regulations. Cable preparation, closure installation and splicing shall be accomplished in accordance with accepted and approved industry standards.

Upon completion of the splicing operation, all waste material shall be deposited in suitable containers for fiber optic disposal, removed from the job site, and disposed of in an environmentally acceptable manner.

The Contractor shall use the fusion method for fiber optic splicing. Acceptable fusion splicing techniques are:

- Local Injections and Detection
- Profile Alignment System

The Contractor shall seal all cables where the cable jacket is removed. The cable shall be sealed per the cable manufacturer's recommendation with an approved blocking material.

The Contractor shall seal all buffer tubes with an approved blocking material to prevent migration of gel into splice trays.

All splices shall be contained in splice trays utilizing strain relief, such as heat shrink wraps, as recommended by the splice tray manufacturer.

(NWR ITS February 11, 2002)

Fiber Optic Cable Labeling

Permanent cable labels shall be used to identify fibers and patch cords at each termination point. The cable labels shall consist of white colored heat shrink wraps with identification based on the schematic shown on the ITS detail sheets.

(NWR ITS May 5, 2014)

Fiber Optic Cable Testing

The installed optical fiber cable shall be tested for compliance with the transmission requirements of this specification, the cable and hardware manufacturer's specifications, and prescribed industry standards and practices.

Prior to commencing acceptance testing, the Contractor shall complete the installation of the fiber optic system. This includes sealing the splice closures, completing the splicing and racking the cables in the pull boxes and cable vaults.

All testing values shall be in metric.

Types of Testing

The two required acceptance tests for optical fiber cable system certification are:

Power Meter testing

Optical Time Domain Reflectometer (OTDR) testing

Power Meter Testing

Power meter testing shall be used to measure the end-to-end attenuation of each new fiber installed between a field device and a communications hub as well as between communications hubs. Power meter testing shall be performed at the 1310 and 1550 nanometer wavelength in both directions.

Prior to commencing testing, the Contractor shall submit the manufacturer and model number of the test equipment along with certification that the power meter has been calibrated within 12 months of the proposed test dates.

The following information shall be documented for each fiber test measurement:

1. Fiber/Strand #
2. Fiber type (Singlemode or Multimode)
3. Cable, tube, and fiber IDs
4. Near end and far end test locations
Use device names in Contract plans
5. End-to-end attenuation
In each direction and the bidirectional average
6. Length of span being tested
7. Date, time, and operator
8. Wavelength

Optical Time Domain Reflectometer (OTDR) Testing

An optical time domain reflectometer (OTDR) with recording capability shall be utilized to test the end-to-end transmission quality of each optical fiber. Quality tests shall consider attenuation, reflectance, and discontinuities. The OTDR shall be equipped with 1310 nanometer and 1550 nanometer light sources for singlemode optical fibers. The OTDR shall be capable of providing electronic and hard copy records of each test measurement.

The Contractor shall utilize a dead-zone box (a.k.a. launch reel) containing 1 km of optical fiber, when performing OTDR tests. The dead-zone box shall be located between the OTDR and the fiber optic connector of each strand tested.

Each new fiber shall be tested in both directions at the 1310 and 1550 nanometer wavelengths. Existing fibers that are spliced to or re-spliced as part of this contract shall also be tested in both directions and at both wavelengths.

The following information shall be documented for each fiber test measurement:

1. Fiber/Strand #
2. Fiber type (Singlemode or Multimode)
3. Cable and fiber IDs
4. X-Y plot scaled for fiber length
 - The X-axis (Distance) shall be scaled such that the beginning of the trace starts with the OTDR/dead-zone interface. The end of the trace shall extend no more than 1 km beyond the end of the test span.
 - The Y-axis (dB) shall be set to maximize the trace. The bottom of the Y scale shall begin above the noise floor and the top of the scale shall be no more than 5 dB higher than the largest event. No events or reflections shall be cut off.
5. Near end and far end test locations
 - Use device names in Contract plans
6. Date, time, and operator
7. Wavelength
8. OTDR Settings
 - Index of Refraction
 - Averaging time (Minimum of 30 seconds)
 - Pulse Width (to provide a smooth trace, excluding events)
9. Table of Events that includes: Event ID, Type, Location, Loss, and Reflection.
 - Events are defined as:
 1. Any reflectance event in excess of -60 dB
 2. Any loss occurrence in excess of 0.05 dB
 3. Any splice location regardless of loss
 4. Beginning and end of span
 - The beginning of the span shall be denoted by the "A-Marker". This marker shall be placed just to the left of the spike of the dead-zone box / fiber interface.
 - The end of the span shall be denoted by the "B-marker". This marker shall be placed just to the left of the end-of span reflection spike.

Fiber Optic Performance Requirements

1. Splice Loss:
 - Shall not exceed 0.20 dB in one direction
 - Bidirectional Average shall not exceed 0.15 dB
2. Reflectance:
 - Shall not exceed -55 dB

Fiber Cable Testing Documentation

The Contractor shall submit one hard copy and one electronic copy of the fiber test results to the Engineer for approval. Only one OTDR test result shall be on each page. The Contractor shall take corrective actions on portions of the fiber installation determined to be out of compliance with these specifications.

Upon acceptance of the cable installation and test results, the Contractor shall submit three hard copies and three electronic copies of the fiber test results to the Engineer.

Hard copy submittals shall be bound in 3-ring binders. Each 3-ring binder shall have the following information on the front and side:

1. The title "Fiber Optic Test Results"
2. The name of the roadway(s) where fiber was installed
3. Contract name and number
4. Date

The front cover shall also include the following:

1. The size of each cable installed and the beginning and ending mileposts of each cable replaced.
2. The company name address and phone number that did the fiber optic work

Each 3-ring binder shall also include a table of contents and index dividers for each cable segment and each direction tested. The electronic submittals shall be on compact discs and include one licensed copy of the applicable OTDR reader program.

The following information shall be included in each test result submittal:

1. Contract number, contract name, contractor name and address
2. Dates of cable manufacture, installation, and testing
3. Cable specifications
 - Manufacturer data sheet
 - Helix Factor
 - Date of manufacture
4. Fiber (Glass) specifications
 - Manufacturer and Part #
 - Index of Refraction
 - Optical performance (loss/km)
 - Mode Field Diameter
5. As-Built Records (In accordance with the Special Provisions)
6. OTDR test results – No more than one test per page
7. Power Meter test results

Within 30 days of submitting the test results, the Contractor, in the presence of the Engineer, shall re-test a minimum of 5% of the previously tested locations to validate the test results. A 5% sample will be selected randomly from the terminal device locations.

General

Section 8-20.3(1) is supplemented with the following:

(NWR ITS October 10, 2005)

Existing System Disruption and Restoration

The Contractor shall use every precaution to ensure that no contract work causes disruptions to the existing systems, except those disruptions that are planned and approved in advance, as defined herein.

Existing systems include, but are not limited to, the following:

- A. All ITS field devices, such as ramp meter, data collection, and CCTV systems, within the project construction limits.
- B. Fiber optic and TWP data and video communication systems on *** SR 202 ***.

Planned Disruptions

Contract work may require disruptions to existing systems, circuits, and equipment. The Contractor shall schedule the work and predetermine the affected system(s), extent, start time, and duration of planned disruptions. Planned disruptions shall be scheduled between the hours of 8 P.M. and 4 A.M. If traffic control is required for this work, the Contractor shall also adhere to the allowable closure hours listed in the Special Provisions. Failure of the Contractor to restore disrupted systems and equipment prior to 4 A.M. will constitute an unplanned disruption, and the "Restoration Procedure" below will apply.

Requirements

Twenty-one calendar days prior to planned disruptions of any existing system, circuit, or equipment, the Contractor shall submit to the Engineer for approval a written Disruption Request. Each Disruption Request shall include the system(s) to be affected, the disruption start date and time, and the estimated duration required. The Contractor shall submit a separate, numbered Disruption Request for each planned disruption. Disruption Request approval or rejection will be returned to the Contractor in writing by the Engineer at least seven calendar days prior to the proposed start of the disruption. The Engineer may reject a requested time or duration and verbally recommend an alternate time or duration agreeable to both the Contractor and the Contracting Agency.

Restoration Procedure

Any unplanned disruptions determined by the Engineer to be caused by the actions of the Contractor or the Contractor's representative(s) shall be corrected by the Contractor at no additional cost to the Contracting Agency.

Upon the occurrence of an unplanned disruption and subsequent notification by the Engineer, the Contractor shall immediately stop all other ITS work in progress, in accordance with Section 1-08.6, and shall expend all efforts to restore the disrupted system(s) or correct the problem causing the disruption. The Contractor will not be granted an extension of time for delays caused by the repair of disrupted systems. Unplanned disruptions shall result in the assessment of liquidated damages in accordance with the subsection **Liquidated Damages** of the Special Provision **PROSECUTION AND PROGRESS**.

(NWR ITS October 4, 2004)

ITS System Order of Work

The Contractor shall submit for review and approval a proposal for accomplishing the ITS work to the Engineer along with a copy to:

Freeway Systems Engineer
15700 Dayton Avenue North
P.O. Box 330310 MS-120
Seattle, WA 98133-9710
(206) 440-4462

The proposal shall be approved before any ITS fieldwork begins. The proposal shall include a critical path for ITS construction which shows dates of disconnection, reconnection, and installation of the following ITS components as applicable to this contract:

1. Traffic Data Accumulation And Ramp Metering System
2. Closed Circuit Television System
3. Highway Advisory Radio System
4. Communication Conduit System
5. Communication Cable and Interfaces
6. Variable Message Sign
7. Video, Voice & Data Distribution and Transmission System
8. Environmental Sensor Station
9. Permanent Traffic Recorder Station

The critical path shall also indicate all roadway lane shifts or closures that will be in effect during ITS construction.

(NWR February 11, 2013)

Fiber Optic Cable Installation

When installing new fiber optic cable or reinstalling existing fiber optic cable into new or existing cable vaults or pull boxes, the installation method shall ensure that the cable is free of dirt and debris as it enters the conduit and that no dirt or debris enters the conduit receiving the cable prior to the conduit being plugged or sealed.

When installing fiber optic cable, the installation method shall prevent the fiber cable from direct contact with the ground or pavement between pulls or prior to the installation of the fiber cable into the conduit.

(NWR May 15, 2000)

Energized Equipment

Work shall be coordinated so that electrical equipment, with the exception of the service cabinet, is energized within 72 hours of installation.

(NWR May 5, 2014)

Electrical Equipment Removals

Removals associated with the electrical or ITS systems shall not be stockpiled within the job site without the Engineer's approval.

(NWR May 5, 2014)

Contractor Owned Removals

All removals associated with electrical or ITS systems, which are not designated to remain the property of the Contracting Agency, shall become the property of the Contractor and shall be removed from the project.

The Contractor shall:

1
2 Remove all wires for discontinued circuits from the conduit system.

3
4 Remove elbow sections of abandoned conduit entering junction boxes.

5
6 Abandoned conduit encountered during excavation shall be removed to the
7 nearest outlets or as directed by the Engineer.

8
9 Remove foundations entirely, unless the Plans state otherwise.

10
11 Backfill voids created by removal of foundations and junction boxes.
12 Backfilling and compaction shall be performed in accordance with Section 2-
13 09.3(1)E.

14
15 (*****)

16 Unless otherwise noted, the location of all conduit shown in the Plans is
17 approximate. The Contractor shall establish the exact locations in the field and
18 shall have them verified by the Engineer.

19
20 ***Excavating and Backfilling***

21
22 Section 8-20.3(2) is supplemented with the following:

23
24 (*****)

25 **Trenching in Landscaped Areas**

26 The Contractor shall provide trenching, regardless of the material encountered, as
27 necessary for complete and proper installation of conduit in landscaped areas.
28 Trenches in landscaped areas shall be placed to have minimum impact on existing
29 landscaping and irrigation systems. Compaction below topsoil shall be 90 percent
30 of the standard compaction requirements in accordance with the Plans.

31
32 ***Conduit***

33
34 Section 8-20.3(5) is supplemented with the following:

35
36 (*****)

37 Conduit runs shown on the Plans are schematic, however, they shall be followed as
38 closely as site conditions will allow and may be revised, as specified by the
39 Engineer, to allow for unforeseen obstructions.

40
41 The Contractor shall provide and install all conduit and necessary fittings at the
42 locations noted on the Plans. Conduit size shall be as indicated in the Plans.
43 Conduit designated for electrical use shall be connected to the existing conduit per
44 manufacturer's requirements. The connection shall be watertight and free of all
45 debris.

46
47 Existing conduits to remain shall be capped during construction using
48 manufactured seals to prevent entrance of water and debris. All conduits (including
49 spare conduits for locating purposes) shall be cleaned and proofed with a mandrel
50 before pulling wire is installed and shall include bonded ground wire. Spare
51 conduits shall be capped and labeled "PSE".
52

1 All conduit including spare conduits shall be installed with bushings. Rigid
2 Galvanized Steel conduit shall be installed with insulated grounding bushings. PVC
3 conduit shall be installed with molded one-piece end bell bushings.
4

5 **Damaged or Blocked Conduits**

6 Damaged or blocked conduits shall be repaired by the Contractor. The Contractor
7 shall attempt to remove debris in the conduit by blowing in air and shall be careful
8 not to blow air towards the handhold or vault. If the blockage doesn't break free,
9 the Contractor shall identify the potential blocked/damaged location using a fish
10 tape. Once the blockage location is identified the contractor shall attempt to remove
11 the existing cabling (if any) from the conduit. If the cabling is removed, the
12 Contractor shall attempt to pass a fish tape through the conduit again. If the fish
13 tape passes through the conduit past the identified blockage point easily, the
14 Contractor shall complete installation of the conduit.
15

16 If the existing cabling cannot be removed, or reinstalled after removal, the
17 Contractor shall excavate down to the conduit blockage point and repair the conduit
18 break. The Contractor shall obtain approval from the Engineer prior to removing
19 existing cabling or beginning excavation. All cabling shall be removed from the
20 conduit prior to repairing the broken conduit. Once the conduit is repaired, the
21 Contractor shall restore the disturbed area. The cost for other work needed to
22 identify and remedy blocked conduits as described in this section shall be
23 incidental.
24

25 ***Junction Boxes, Cable Vaults, and Pull boxes***

26
27 Section 8-20.3(6) is supplemented with the following:
28

29 (NWR May 5, 2014)

30 Unless otherwise noted in the Plans or approved by the Engineer, junction boxes,
31 cable vaults and pull boxes shall not be placed within the traveled way or paved
32 shoulders.
33

34 All junction boxes, cable vaults, and pull boxes placed within the traveled way or
35 paved shoulders shall be heavy-duty.
36

37 Wiring shall not be pulled into any conduit until all associated junction boxes have
38 been adjusted to, or installed in, their final grade and location, unless installation is
39 necessary to maintain system operation. If wire is installed for this reason, sufficient
40 slack shall be left to allow for future adjustment.
41

42 Prior to installing new cables or reinstalling existing cables into new or existing
43 cable vaults, pull boxes or junction boxes, the cable vault, pull box or junction box
44 shall be cleaned of all dirt and debris.
45

46 When junction boxes, cable vaults and pull boxes are installed or adjusted prior to
47 construction of finished grade, pre-molded joint filler for expansion joints may be
48 placed around the junction boxes, cable vaults and pull boxes. The joint filler shall
49 be removed prior to adjustment to finished grade.
50

51 When junction boxes, cable vaults or pull boxes are adjusted to finished grade, the
52 six-inch gravel pad requirements shall be maintained. When existing junction boxes

pull boxes or cable vaults do not have this gravel pad, or the gravel pad does not meet these specifications, a gravel pad, meeting these specifications shall be installed as part of the adjustment to finished grade.

Heavy-duty Type 4, 5 and 6 junction boxes, cable vaults and pull boxes shall be installed in accordance with the following:

1. Excavation shall be sufficient to leave one foot in the clear between their outer surface and the earth bank.
2. Junction boxes, cable vaults and pull boxes shall be installed on a level 6-inch layer of crushed surfacing top course, in accordance with 9-03.9(3), placed on a compacted or undisturbed foundation. The crushed surfacing shall be compacted in accordance with Section 2-09.3(1)E.
3. After installation, the lid/cover shall be kept bolted down during periods when work is not actively in progress at the junction box, cable vault or pull box.
4. Before closing the lid/cover, the lid/cover and the frame/ring shall be thoroughly brushed and cleaned of all debris. There shall be absolutely no visible dirt, sand or other foreign matter between the bearing surfaces.
5. When the lid/cover is closed for the final time, a liberal coating of anti-seize compound shall be applied to the bolts and nuts and the lid shall be securely tightened.
6. Hinges on the Type 4, 5 and 6 junction boxes shall be located on the side of the box, which is nearest to the adjacent shoulder. Hinges shall allow the lid to open 180 degrees.

Wiring

Section 8-20.3(8) is supplemented with the following:

(NWR April 14, 2003)

Wire Labels

At each junction box, all illumination wires, power supply wires, and communication cable shall be labeled with a PVC marking sleeve. For illumination and power supply circuits the sleeve shall bear the circuit number. For communication cable the sleeve shall be marked "Comm.".

(NWR March 13, 1995)

Wire Splices

All splices shall be made in the presence of the Engineer.

(NWR May 1, 2006)

Illumination Circuit Splices

Temporary splices shall be the heat shrink type.

Payment

The first two paragraphs of Section 8-20.5 is supplemented with the following:

(*****)

"Temp Traffic Signal, Illum, and Communication System", lump sum.

"Traffic Signal, Illumination, and Communication System", lump sum.

Section 8-20.5 is supplemented with the following:

(*****)

"Special Conduit Pipe ____ In. Diam. Installation", linear foot

The unit Contract price per linear foot for "Special Conduit Pipe ____ In. Diam. Installation" shall be full pay to perform the Work as specified, including placing the Puget Sound Energy provided conduit, all storage, security, and traffic control for the delivery of the conduits; excavation, jacking, or drilling required; backfilling of any voids around casing, conduits, pits, or trenches, bedding of the pipe; and all other Work necessary for the installation of the conduit.

Division 9 Materials

Appendices (January 2, 2012)

The following appendices are attached and made a part of this contract:

*** APPENDIX A:

Summary of Geotechnical Conditions, Page 1 through Page 3.

APPENDIX B:

Log of Test Borings, Page 1 through Page 36.

APPENDIX C:

Hydraulic Project Approval, Page 1 through Page 7.

APPENDIX D:

Department of the Army Section 404 Nationwide 27, Page 1 through Page 3.

APPENDIX E:

Department of Ecology Section 401 Letter of Verification, Page 1 of 1.

APPENDIX F:

Woodinville Water District Standard Plans and Record Drawing, Page 1 through Page 6. ***

(January 4, 2016) Standard Plans

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 15-048, effective August 3, 2015 is made a part of this contract.

1 The Standard Plans are revised as follows:

2
3 A-30.15
4 DELETED

5
6 A-50.10
7 Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

8
9 A-50.20
10 Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

11
12 A-50.30
13 Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.10

14
15 B-10.20 and B-10.40
16 Substitute "step" in lieu of "handhold" on plan

17
18 B-15.60
19 Table, Maximum Knockout Size column, 120" Diam., 42" is revised to read; 96"

20
21 B-25.20
22 Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

23
24 B-55.20
25 Metal Pipe elevation, title is revised to read; "Metal Pipe and Steel Rib Reinforced
26 Polyethylene Pipe"

27
28 B-90.40
29 Offset & Bend details, add the subtitle, "Plan View" above titles

30
31 C-8b
32 Section A, callout, was – "Grout" is revised to read; "Grout ~ 2" (IN) MAX., callout, was –
33 "Anchor Bolt (TYP.) ~ See Detail" is revised to read; "Anchor Bolt or Rod (TYP.) ~ See
34 Detail", Sheet 2, Detail "A", callout, was – "Anchor Bolt (TYP.) ~ See Detail", is revised
35 to read; "Anchor Bolt or Rod (TYP.) ~ See Detail". Anchor Bolt Detail, DELETED –
36 Headed Bolt DETAIL portion of the ANCHOR BOLT DETAIL. Dimension, "5 1/2" MIN.
37 Threads" is deleted. Add dimension, "1" MAX." from top of barrier to bottom of the nut,
38 Callout, was – "1" Diam. Threaded Rod ~ ASTM A 419" is revised to read; "1" (IN) Diam.
39 Threaded Full Length Rod or Bolt ~ ASTM F 1554, Grade 105". Note (Below Title), was
40 – "Galvanize Exposed Anchor Rod End 1' – 9" Min." is revised to read; "Galvanized
41 Anchor Bolt Full Length according to ASTM F 2329". Subtitle – was "Threaded Rod" is
42 revised to read; "Threaded Rod or Bolt", Sheet 2, Anchor Plate detail, callout, was – 1"
43 DIAM. HOLE (TYP.)" IS REVISED TO READ; "1 1/8" (IN) DIAM. HOLE (TYP.)", callout,
44 was – "1/2" Plate" is revised to read;"1/2" (IN) Plate ~ ASTM A36

45
46 C-1
47 Assembly Detail, Steel Post, (post) callout – was - "W6 x 9 or W6 x 15" is revised to
48 read; "W6 x 8.5 or W6 x 9 or W6 x 15"

49
50 C-10
51 General Note 1, first sentence, was – "Length of W8 x 35 and W6 x 9 shall be
52 determined by measurement from top of ground to top of grout pad." Is revised to read;

1 “Length of W8 x 35 and W6 x 8.5 or W6 x 9 shall be determined by measurement from
2 top of ground to top of grout pad.”
3 Sheet 1, Post Base Plate Detail, callout, was – “W6 x 9” is revised to read; “W6 x 8.5 or
4 W6 x 9”
5 Sheet 1, Box Culvert Guardrail Steel Post Type 2 detail, callout, was – “W6 x 9 Steel
6 Post” is revised to read; “W6 x 8.5 or W6 x 9 Steel Post”
7 Sheet 1, Post Anchor Attachment Detail, callout, was – “W6 x 9 ~ See Note 1” is revised
8 to read; “W6 x 8.5 or W6 x 9 ~ See Note 1”
9 Sheet 1, Detail A, callout, was – “W6 x 9 Steel Post ~ See Note 1” is revised to read;
10 “W6 x 8.5 or W6 x 9 Steel Post ~ See Note 1”
11 Sheet 2, Box Culvert Guardrail Steel Post Type 1, callout, was – “W6 x 9 x 27.5” Steel
12 Post” is revised to read; “W6 x 8.5 x 27.5” (IN) or W6 x 9 x 27.5” (IN) Steel Post”
13 Sheet 2, Detail B, callout, was – “W6 x 9 x 27.5” Steel Post” is revised to read; “W6 x
14 8.5 x 27.5” (IN) or W6 x 9 x 27.5” (IN) Steel Post”
15
16 C-16a
17 Note 1, reference C-28.40 is revised to C-20.10
18
19 C-16b
20 Note 3, reference C-28.40 is revised to C-20.10
21
22 C-22.14
23 Plan, callout, was – “Location of Post (Without Block) ~ W6 x 9 Steel Post Only” is
24 revised to read; “Location of Post (Without Block) ~ W6 x 8.5 or W6 x 9 Steel Post Only”
25 Elevation, callout, was – “Location of Post (Without Block) ~ W6 x 9 Steel Post Only” is
26 revised to read; “Location of Post (Without Block) ~ W6 x 8.5 or W6 x 9 Steel Post Only”
27
28 C-22.45
29 Note 1, was – “This Terminal is FHWA accepted at Test Level Two (TL-2) and may be
30 used in applications with speeds of 40 MPH or less.” Is revised to read: “This Terminal is
31 FHWA accepted at Test Level Two (TL-2) and may be used in applications with speeds
32 of 45 MPH or less.” Plan Title, was – “Beam Guardrail Type 31 Non – Flared Terminal
33 Steel Posts (Posted Speed ~ 40 MPH and Below)” is revised to read: “Beam Guardrail
34 Type 31 Non – Flared Terminal Steel Posts (Posted Speed ~ 45 MPH and Below
35
36 D-10.10
37 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with
38 traffic barriers attached on top of the wall are considered non-standard and shall be
39 designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the
40 revisions stated in the 11/3/15 Bridge Design memorandum.
41
42 D-10.15
43 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with
44 traffic barriers attached on top of the wall are considered non-standard and shall be
45 designed in accordance with the current WSDOT BDM and the revisions stated in the
46 11/3/15 Bridge Design memorandum.
47
48 D-10.20
49 Wall Type 3 may be used in all cases. The last sentence of Note 6 on Wall Type 3 shall
50 be revised to read: The seismic design of these walls has been completed using a site
51 adjusted (effective) peak ground acceleration of 0.32g.
52

1 D-10.25

2 Wall Type 4 may be used in all cases. The last sentence of Note 6 on Wall Type 4 shall
3 be revised to read: The seismic design of these walls has been completed using a site
4 adjusted (effective) peak ground acceleration of 0.32g.

5
6 D-10.30

7 Wall Type 5 may be used in all cases.

8
9 D-10.35

10 Wall Type 6 may be used in all cases.

11
12 D-10.40

13 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with
14 traffic barriers attached on top of the wall are considered non-standard and shall be
15 designed in accordance with the current WSDOT BDM and the revisions stated in the
16 11/3/15 Bridge Design memorandum.

17
18 D-10.45

19 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with
20 traffic barriers attached on top of the wall are considered non-standard and shall be
21 designed in accordance with the current WSDOT BDM and the revisions stated in the
22 revisions stated in the 11/3/15 Bridge Design memorandum.

23
24 D-15.10

25 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
26 are withdrawn. Special designs in accordance with the current WSDOT BDM are
27 required in place of these STD Plans.

28
29 D-15.20

30 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
31 are withdrawn. Special designs in accordance with the current WSDOT BDM are
32 required in place of these STD Plans.

33
34 D-15.30

35 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
36 are withdrawn. Special designs in accordance with the current WSDOT BDM are
37 required in place of these STD Plans.

38
39 F-10.12

40 Section Title, was – "Depressed Curb Section" is revised to read: "Depressed Curb and
41 Gutter Section"

42
43 F-10.40

44 "EXTRUDED CURB AT CUT SLOPE", Section detail - Deleted

45
46 F-10.42

47 DELETE – "Extruded Curb at Cut Slope" View

48
49 G-24.40

50 Sheet 1, Elevation (upper left corner), callout, was – "Sign Brace~ 36" (IN) or larger in
51 width required (See Standard Plan G-50.10)" is revised to read; "Sign Brace (See
52 Standard Plan G-50.10)" Sheet 3, Elevation (upper left corner), callout, was – "Sign

1 Brace~ 36" (IN) or larger in width required (See Standard Plan G-50.10)" is revised to
2 read; "Sign Brace (See Standard Plan G-50.10)"
3
4 H-70.20
5 Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is
6 revised to H-70.10
7
8 I-80.10
9 Stabilized Construction Entrance, Isometric View, add Note to read; "Note: At the
10 discretion of the contractor, smaller rock may be used to fill in voids between the quarry
11 spalls to create a walking pathway for crossing the construction entrance."
12
13 J-3
14 DELETED
15
16 J-3b
17 DELETED
18
19 J-3C
20 DELETED
21
22 J-10.21
23 Note 18, was – "When service cabinet is installed within right of way fence, see
24 Standard Plan J-10.22 for details." Is revised to read; "When service cabinet is installed
25 within right of way fence, or the meter base is mounted on the exterior of the cabinet,
26 see Standard Plan J-10.22 for details."
27
28 J-10.22
29 Key Note 1, was – "Meter base per serving utility requirements~ as a minimum, the
30 meter base shall be safety socket box with factory-installed test bypass facility that
31 meets the requirements of EUSERC drawing 305." Is revised to read; "Meter base per
32 serving utility requirements~ as a minimum, the meter base shall be safety socket box
33 with factory-installed test bypass facility that meets the requirements of EUSERC
34 drawing 305. When the utility requires meter base to be mounted on the side or back of
35 the service cabinet, the meter base enclosure shall be fabricated from type 304
36 stainless steel."
37 Key Note 4, "Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt "T"
38 rated). Is revised to read: "Test Switch (SPDT snap action, positive close 15 amp –
39 120/277 volt "T" rated)."
40 Key Note 14, was – "Hinged dead front with ¼ turn fasteners or slide latch." Is revised to
41 read; "Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts
42 shall not extend into the vertical limits of the breaker array(s)."
43 Key Note 15, was – "Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper.
44 See Cabinet Main bonding Jumper detail, Standard Plan J-3b." is revised to read;
45 "Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See
46 Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details."
47
48 J-20.10
49 Add Note 5, "5. One accessible pedestrian signal assembly per pedestrian pushbutton
50 post."
51
52 J-20.11

Sheet 2, Foundation Detail, Elevation, callout – “Type 1 Signal Pole” is revised to read:
“Type PS or Type 1 Signal Pole”

Sheet 2, Foundation Detail, Elevation, add note below Title, “(Type 1 Signal Pole Shown)”

Add Note 6, “6. One accessible pedestrian signal assembly per pedestrian pushbutton post.”

J-20.26

Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton post.”

J-20.16

View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR.. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 ½” DIAM., is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-21.16

Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15

Ramp Meter Signal Standard, elevation, dimension 4’ - 6” is revised to read; 6’-0”

(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½” DIAM. is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-28.45

Steel Light Standard Elbow Detail, dimension, was – “1-1/2” MAX.” is revised to read; 2” MAX.. callout, was – “1.00 – 8 UNC x 8” (IN) long bolt threaded full length (ASTM A325 or F1554 GR. 105) with two heavy hex nuts, two plate washers, and a round washer (Typ.) (Galvanized AASHTO M232)” is revised to read; “1.00 – 8 UNC x 8 1/2” (IN) long bolt threaded full length (ASTM A325 or F1554 GR. 105) with two heavy hex nuts, two plate washers, and a round washer (Typ.) (Galvanized per AASHTO F2329)”. callout, was – “3/16” (IN) thick preformed “Fabreeka” fabric pad with 5” (IN) diam. hole ~ cement

to flange plate and trim outside edge flush” is revised to read; “3/16” (IN) or 1/4” (IN) thick preformed “Fabreeka” fabric pad with 5” (IN) diam. hole ~ cement to flange plate and trim outside edge flush”. Exploded Isometric View, callout, was – “1” (IN) Diam. Heavy Hex Bolt (Typ.)” is revised to read; 1” Diam. Bolt (Typ.). Section B, callout, was – “3 1/2” (IN) x 3/16” (IN)(17” (IN)...” is revised to read; “4” (IN) x 3/16” (IN)(17” (IN)...”. Typical Sections, two traffic barrier views, add dimension [from the top of the pole base plate to the bottom of the Hand Hole] 6” MIN.”. all three views, callout, was – “1” (IN) Diam. H. S. bolt w/ hardened lock washer and nut (Typ.) (ASTM A325 or F1554 GR. 105)” is revised to read; “1” (IN) Diam. H. S. bolt w/ hardened lock washer and nut (Typ.) (ASTM A449 or F1554 GR. 105)”.

J-28.50

Section D, callout, was – Backup Strip (ref. to key note 3) is revised to read; “Continuous Backup Strip (ref. to key note 3)”

Key Note 3, was – 1/4” Thick, or No thinner than pole wall thickness. Tack weld or seal weld to Base plate. Is revised to read; “1/4” Thick, or No thinner than Pole wall thickness. Tack weld in root or continuous seal weld to Base plate or Pole wall.”

J-28.60

Section B, callout, was – “Continuous Back-up ring – 1/4” or no thinner than pole wall thickness ~ tack weld to plate” is revised to read; “Continuous Back-up ring ~ 1/4” or no thinner than pole wall thickness ~ tack weld in root or continuous seal weld to base plate or pole wall”

J-28.70

Detail C, dimension, 2” MAX. is revised to read: 1” MAX.

Detail D, dimension, 2” MAX. is revised to read: 1” MAX.

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 1/4” (IN) Diam. x 1” (IN) Cap Screw with washer ~ space approx.. 9” o.c. ~ Liberally coat threads with Anti-seize compound (TYP.)”

Add Boxed note: * Bolts, Nuts, and washers ~ ASTM F593 or A193 Type 304 or Type 316 Stainless Steel (S.S.)

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-40.10

Sheet 2 of 2, Detail F, callout, “12 – 13 x 1 1/2” S.S. PENTA HEAD BOLT AND 12” S. S. FLAT WASHER” is revised to read; “12 – 13 x 1 1/2” S.S. PENTA HEAD BOLT AND 1/2” (IN) S. S. FLAT WASHER”

J-60.14

All references to J-16b (6x) are revised to read; J-60.11

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-80.10

Sign Installation (Fill Section), dimension, 6' TO 12' MIN. is revised to read: 12' MIN.

Sign Installation (Sidewalk and Curb Section), dimension, 6' TO 12' MIN. is revised to read: 12' MIN.

Sign Installation (Behind Traffic Barrier Section), Delete dimensions - 6' TO 12' MIN. and 6' MIN.

Sign with Supplemental Plaque Installation (Fill Section), dimension, 6' TO 12' MIN. is revised to read: 12' MIN.

Sign Installation (Ditch Section), dimension, 6' TO 12' MIN. is revised to read: 12' MIN. Delete dimension – 6' MIN.

K-80.30

In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

M-11.10

Layout, dimension (from stop bar to "X"), was – 23' is revised to read; 24'

M-20.30

Sheet 2, Plan View, One-Way Roadway Recessed Pavement Marker Details, ONE-WAY TRAFFIC arrow symbol, is revised to point in the opposite direction (towards the rpm)

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-40.10-03.....12/23/14	A-50.40-00.....11/17/08
A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.10-03.....12/23/14
A-30.10-00.....11/8/07	A-40.20-03.....12/23/14	A-60.20-03.....12/23/14
	A-40.50-02.....12/23/14	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
1		
C-1.....6/16/11	C-6.....5/30/97	C-23.60-03.....6/11/14
C-1a.....7/14/15	C-6a.....10/14/09	C-24.10-01.....6/11/14
C-1b.....7/14/15	C-6c.....1/6/00	C-25.18-05.....7/14/15
C-1c.....5/30/97	C-6d.....5/30/97	C-25.20-06.....7/14/15
C-1d.....10/31/03	C-6f.....7/25/97	C-25.22-05.....7/14/15
C-2.....1/6/00	C-7.....6/16/11	C-25.26-03.....7/14/15
C-2a.....6/21/06	C-7a.....6/16/11	C-25.80-03.....6/11/14
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-70.10-01.....6/17/14
C-2f.....3/14/97	C-8f.....6/30/04	C-75.10-01.....6/11/14
C-2g.....7/27/01	C-10.....6/3/10	C-75.20-01.....6/11/14
C-2h.....3/28/97	C-16a.....6/3/10	C-75.30-01.....6/11/14
C-2i.....3/28/97	C-16b.....6/3/10	C-80.10-01.....6/11/14
C-2j.....6/12/98	C-20.10-03.....7/14/15	C-80.20-01.....6/11/14
C-2k.....7/27/01	C-20.14-03.....6/11/14	C-80.30-01.....6/11/14
C-2n.....7/27/01	C-20.15-02.....6/11/14	C-80.40-01.....6/11/14
C-2o.....7/13/01	C-20.18-02.....6/11/14	C-80.50-00.....4/8/12
C-2p.....10/31/03	C-20.19-02.....6/11/14	C-85.10-00.....4/8/12
C-3.....7/2/12	C-20.40-05.....7/14/15	C-85.11-00.....4/8/12
	C-20.41-01.....7/14/15	
C-3a.....10/4/05	C-20.42-05.....7/14/15	C-85.14-01.....6/11/14
C-3b.....6/27/11	C-20.45.01.....7/2/12	C-85.15-01.....6/30/14
C-3c.....6/27/11	C-22.14-03.....6/11/14	C-85.16-01.....6/17/14
C-4b.....6/8/06	C-22.16-05.....7/14/15	C-85.18-01.....6/11/14
C-4e.....10/23/14	C-22.40-04.....10/23/14	C-85.20-01.....6/11/14
	C-22.41-01.....10/23/14	
C-4f.....7/2/12	C-22.45-01.....10/23/14	C-90.10-00.....7/3/08
2		
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-2.36-03.....6/11/14	D-2.92-00.....11/10/05	D-10.40-01.....12/2/08

1	D-2.42-00.....11/10/05	D-3.09-00.....5/17/12	D-10.45-01.....12/2/08
	D-2.44-00.....11/10/05	D-3.10-01.....5/29/13	D-15.10-01.....12/2/08
	D-2.60-00.....11/10/05	D-3.11-03.....6/11/14	D-15.20-02.....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-2.46-01.....6/11/14	D-3.16-02.....5/29/13	
2	E-1.....2/21/07	E-4.....8/27/03	
	E-2.....5/29/98	E-4a.....8/27/03	
3	F-10.12-03.....6/11/14	F-10.62-02.....4/22/14	F-40.15-02.....6/20/13
	F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-02.....6/20/13
	F-10.18-00.....6/27/11	F-30.10-03.....6/11/14	F-45.10-01.....6/21/12
	F-10.40-02.....6/21/12	F-40.12-02.....6/20/13	F-80.10-03.....6/11/14
	F-10.42-00.....1/23/07	F-40.14-02.....6/20/13	
4	G-10.10-00.....9/20/07	G-24.60-04.....6/23/15	G-70.20-02.....6/10/13
	G-20.10-02.....6/23/15	G-25.10-04.....6/10/13	G-70.30-02.....6/10/13
	G-22.10-03.....7/10/15	G-30.10-04.....6/23/15	G-90.10-01.....5/11/11
	G-24.10-00.....11/8/07	G-50.10-02.....6/23/15	G-90.20-03.....7/10/15
	G-24.20-01.....2/7/12	G-60.10-03.....6/18/15	G-90.30-02.....3/22/13
	G-24.30-01.....2/7/12	G-60.20-02.....6/18/15	G-90.40-01.....10/14/09
	G-24.40-05.....6/23/15	G-60.30-02.....6/18/15	G-95.10-01.....6/2/11
	G-24.50-03.....6/17/14	G-70.10-03.....6/18/15	G-95.20-02.....6/2/11
			G-95.30-02.....6/2/11
5	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-01.....2/7/12
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-01.....2/16/12
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	H-70.30-02.....2/7/12
6	I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
	I-30.10-02.....3/22/13	I-30.30-01.....6/10/13	I-50.20-01.....6/10/13
	I-30.15-02.....3/22/13	I-30.40-01.....6/10/13	I-60.10-01.....6/10/13
	I-30.16-00.....3/22/13	I-30.60-00.....5/29/13	I-60.20-01.....6/10/13
	I-30.17-00.....3/22/13	I-40.10-00.....9/20/07	I-80.10-01.....8/11/09
7		J-26.15-01.....5/17/12	J-40.40-00.....5/20/13
		J-26.20-00.....6/11/14	
		J-27.10-00.....3/15/12	J-50.10-00.....6/3/11
		J-27.15-00.....3/15/12	J-50.11-00.....6/3/11
	J-10.....7/18/97	J-28.10-01.....5/11/11	J-50.12-00.....6/3/11
	J-10.10-03.....6/3/15	J-28.22-00.....8/07/07	J-50.15-00.....6/3/11
	J-10.15-01.....6/11/14	J-28.24-01.....6/3/15	J-50.16-01.....3/22/13
	J-10.16-00.....6/3/15		
	J-10.17-00.....6/3/15		
	J-10.18-00.....6/3/15		
	J-10.20-00.....6/3/15		
	J-10.21-00.....6/3/15		
	J-10.22-00.....5/29/13	J-28.26-01.....12/02/08	J-50.20-00.....6/3/11
	J-15.10-01.....6/11/14	J-28.30-03.....6/11/14	J-50.25-00.....6/3/11
	J-15.15-02.....7/10/15	J-28.40-02.....6/11/14	J-50.30-00.....6/3/11
		J-28.42-01.....6/11/14	J-60.05-00.....6/16/11
		J-28.43-00.....6/11/14	

J-20.10-03.....6/30/14	J-28.45-02.....6/11/14	J-60.11-00.....5/20/13
J-20.11-02.....6/30/14	J-28.50-02.....6/2/11	J-60.12-00.....5/20/13
J-20.15-03.....6/30/14	J-28.60-01.....6/2/11	J-60.13-00.....6/16/10
J-20.16-02.....6/30/14	J-28.70-01.....5/11/11	J-60.14-00.....6/16/10
J-20.20-02.....5/20/13	J-29.10-00.....6/27/11	J-75.10-02.....7/10/15
J-20.26-01.....7/12/12	J-29.15-00.....6/27/11	J-75.20-01.....7/10/15
	J-29.16-01.....6/20/13	J-75.30-02.....7/10/15
	J-30.10-00.....6/18/15	
J-21.10-04.....6/30/14	J-40.10-03.....5/20/13	J-75.40-01.....6/11/14
		J-75.41-00.....6/11/14
J-21.15-01.....6/10/13	J-40.20-02.....6/11/14	J-75.45-01.....6/11/14
J-21.16-01.....6/10/13	J-40.30-03.....5/20/13	J-90.10-01.....6/27/11
J-21.17-01.....6/10/13	J-40.35-01.....5/29/13	J-90.20-01.....6/27/11
J-21.20-01.....6/10/13	J-40.36-01.....5/20/13	J-90.21-00.....6/30/14
J-22.15-02.....7/10/15	J-40.37-01.....5/20/13	
J-22.16-03.....7/10/15	J-40.38-01.....5/20/13	
J-26.10-02.....3/15/12	J-40.39-00.....5/20/13	

1

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

2

L-10.10-02.....6/21/12	L-40.10-02.....6/21/12	L-70.10-01.....5/21/08
L-20.10-03.....7/14/15	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
L-30.10-02.....6/11/14	L-40.20-02.....6/21/12	

3

M-1.20-03.....6/24/14	M-9.60-00.....2/10/09	M-40.10-03.....6/24/14
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-2.20-03.....7/10/15	M-20.10-02.....6/3/11	M-40.50-00.....9/20/07
M-2.21-00.....7/10/15		
M-3.10-03.....6/3/11	M-20.20-02.....4/20/15	M-40.60-00.....9/20/07
M-3.20-02.....6/3/11	M-20.30-03.....4/20/15	M-60.10-01.....6/3/11
M-3.30-03.....6/3/11	M-20.40-03.....6/24/14	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-24.20-02.....4/20/15	M-80.10-01.....6/3/11
M-5.10-02.....6/3/11	M-24.40-02.....4/20/15	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-9.50-02.....6/24/14	M-24.60-04.....6/24/14	

4

5

APPENDIX A

Summary of Geotechnical Conditions

Summary of Geotechnical Conditions

SR-202 Little Bear Creek – Fish Barrier Removal

1 The following is a summary of the geotechnical conditions and their potential impacts on
2 construction of the SR-202 Little Bear Creek fish passage structure.

3 **SUBSURFACE CONDITIONS**

4 Based on the field explorations, the subsurface materials encountered have been
5 grouped into three engineering stratigraphic units (ESU) for geotechnical distinction: fill,
6 recessional outwash and advance outwash. The units are grouped primarily on the
7 basis of engineering properties and classification. The units are individually described
8 below.

9 Fill material (ESU 1) placed during the original roadway construction was observed, and
10 generally consisted of very loose to medium dense, moist sands and gravels with
11 varying amounts of silt and occasional organics near the transition between this ESU
12 and ESU 2.

13 The recessional outwash (ESU 2) was observed in all of the borings, and is generally 10
14 feet to 15 feet thick. It generally consisted of medium dense to dense, moist to wet
15 gravels and sands with varying amounts of silt and silt lenses and with varying amounts
16 of sand and gravel.

17 The advance outwash (ESU 3) was observed in all of the test holes, and generally
18 consists of very dense, moist to wet gravels and sands with varying amounts of silt and
19 silt lenses and with varying amounts of sand and gravel.

20 The boring logs and the geotechnical memorandum contain further detail concerning
21 the subsurface conditions.

22 **SURFACE AND GROUNDWATER CONDITIONS**

23 Surface water is evident across the proposed project site, necessitating the structure.
24 The primary surface water is Little Bear Creek running across the project site from east
25 to west. Normal high water for the creek is assumed to be at an elevation of 37.8 ft.

26 To obtain more accurate groundwater elevations and seasonal variations, two
27 piezometers were monitored across the site. The table below presents the boring and
28 the highest/lowest groundwater elevations recorded for each piezometer.

29 It should be noted that groundwater elevations may fluctuate seasonally across the
30 project site. These seasonal fluctuations may not be captured in the piezometer data
31 due to the screen depths of the piezometers. Piezometers are typically screened to
32 monitor the groundwater at elevations of interest, but there is a risk that perched
33 groundwater tables above or below the screened interval could be missed.

Summary of Geotechnical Conditions

SR-202 Little Bear Creek – Fish Barrier Removal

SUMMARY OF RECORDED HIGH AND LOW GROUNDWATER ELEVATIONS

Boring	High		Low		Additional Notes
	Date	Elev. (ft)	Date	Elev. (ft)	
H-2P-13	1/30/13	42.0	5/29/13	36.7	
H-4P-12	1/12/13	30.7	5/29/13	27.8	

CONSTRUCTION CONSIDERATIONS AND GEOTECHNICAL DESIGN ASSUMPTIONS

Wet Weather Considerations

It should be noted that the fine grained soils (Alluvial and Estuarine deposits) will be prone to erosion when exposed, and precipitation will be slow to infiltrate these soils. These soils will also generally be above optimum moisture content when excavated.

Site Access

Site access during the wet season could be difficult due to the soft nature of the surface soil (Alluvial and Estuarine deposits). When exposed silts become wet, they will become very slippery, soft, and prone to rutting and pumping. Quarry spalls, geogrids and/or geosynthetic for soil stabilization may be needed to maintain site access for haul roads and staging areas.

Temporary Slopes and Shoring

To allow secant pile construction, the stem portion of an existing concrete wall will need to be cut and removed in the vicinity of the fish passage abutment walls. It is likely shoring in this vicinity will be necessary to support the roadway.

There are existing approach walls on either side of the existing culvert. The east side (upstream) wall consists of a structural earth (SE) wall with a row of gabions immediately at the toe of the wall, and the west side (downstream) wall is a cast-in-place concrete wall. Portions of these walls will need to be removed during construction of the proposed fish passage.

The SE wall adjacent to the proposed culvert wall will need to be stabilized prior to removal. Considerations will need to be made concerning the joint between the stabilized SE wall fascia and fish passage walls to help prevent migration of retained soils.

To allow secant pile construction, the stem portion of the concrete wall will need to be saw cut and removed in the vicinity of the fish passage abutment walls. Migration of soils from behind this wall through the wall joint is likely depending on how the joint is designed and installed.

Drilled Shafts

Shafts will require a combination of temporary casing in the looser fills and slurry construction methods below the ground water table to maintain hole stability. Due to the low fines and high gravel content in some zones of ESU 2 and ESU 3, it may be difficult to maintain the hole stability with slurry alone, and temporary casing will be needed.

The upper portion of the shafts will be excavated through fill (ESU 1). Construction debris may be encountered in this material.

Summary of Geotechnical Conditions

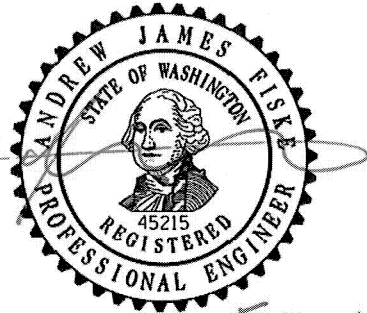
SR-202 Little Bear Creek – Fish Barrier Removal

- 1 Drilled shafts will need to be excavated through the footing of the existing concrete wall. The
2 contractor should plan accordingly.

3 AVAILABLE GEOTECHNICAL REPORTS AND INFORMATION

- 4 The following memorandums contain design and construction information relevant to
5 the project and are available at the Project Engineer's Office:

- 6 Tony Allen and Andrew Fiske, *Geotechnical Report*, SR-202 Little Bear Creek – Fish
7 Barrier Removal, King County, Washington, November, 2014.



FEB. 12, 2015

Prepared By: Andrew J. Fiske, P.E.
Foundation Engineer


Reviewed By: Tony M. Allen, P.E.
State Geotechnical Engineer

APPENDIX B

Log of Test Borings



Boring and Test Pit Legend

Sampler Symbols	
	Standard Penetration Test
	Non-Standard Sized Penetration Test
	Shelby Tube
	Piston Sample
	Washington Undisturbed
	Vane Shear Test
	Core
	Becker Hammer
	Bag Sample

Well Symbols	
	Cement Surface Seal
	Piezometer Pipe in Granular Bentonite Seal
	Piezometer Pipe in Sand
	Well Screen in Sand
	Granular Bentonite Seal
	Inclinometer Casing or PVC Pipe in Cement Bentonite Grout
	Sand
	Vibe Wire in Grout
	Miscellaneous, noted on boring log

Laboratory Testing Codes	
AL	Atterberg Limits
CD	Consolidated Drained Triaxial
CN	Consolidation Test
CSS	Cyclic Simple Shear
CU	Consolidated Undrained Triaxial
DG	Degradation
DN	Density
DS	Direct Shear Test
DSS	Direct Simple Shear
GS	Grain Size Distribution
HT	Hydrometer Test
JS	Jar Slake
LA	LA Abrasion
LOI	Loss on Ignition
MC	Moisture Content
pH	pH of Soil
PT	Point Load Compressive Test
RES	Resistivity
RM	Resilient Modulus
RS	Torsional Ring Shear Test
SG	Specific Gravity
SL	Slake Test
UC	Unconfined Compression Test
UU	Unconsolidated Undrained Triaxial

Soil Density Modifiers			
Gravel, Sand & Non-plastic Silt		Elastic Silts and Clay	
SPT Blows/ft	Density	SPT Blows/ft	Consistency
0 - 4	Very Loose	0 - 1	Very Soft
5 - 10	Loose	2 - 4	Soft
11 - 24	Medium Dense	5 - 8	Medium Stiff
25 - 50	Dense	9 - 15	Stiff
> 50	Very Dense	16 - 30	Very Stiff
(REF)	Refusal	31 - 60	Hard
		> 60	Very Hard

Angularity of Gravel & Cobbles	
Angular	Coarse particles have sharp edges and relatively plane sides with unpolished surfaces.
Subangular	Coarse grained particles are similar to angular but have rounded edges.
Subrounded	Coarse grained particles have nearly plane sides but have well rounded corners and edges.
Rounded	Coarse grained particles have smoothly curved sides and no edges.

Soil Moisture Modifiers	
Dry	Absence of moisture; dusty, dry to touch
Moist	Damp but no visible water
Wet	Visible free water

Soil Structure	
Stratified	Alternating layers of varying material or color at least 6 mm thick; note thickness and inclination.
Laminated	Alternating layers of varying material or color less than 6 mm thick; note thickness and inclination.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear polished or glossy, sometimes striated.
Blocky	Cohesive soil that can be broken down into smaller angular lumps which resist further breakdown.
Disrupted	Soil structure is broken and mixed. Infers that material has moved substantially - landslide debris.
Homogeneous	Same color and appearance throughout.

HCl Reaction	
No HCl Reaction	No visible reaction.
Weak HCl Reaction	Some reaction with bubbles forming slowly.
Strong HCl Reaction	Violent reaction with bubbles forming immediately.

Degree of Vesicularity of Pyroclastic Rocks	
Slightly Vesicular	5 to 10 percent of total
Moderately Vesicular	10 to 25 percent of total
Highly Vesicular	25 to 50 percent of total
Scoriaceous	Greater than 50 percent of total



Boring and Test Pit Legend

Grain Size		
Fine Grained	< 0.04 in	Few crystal boundaries/grains are distinguishable in the field or with hand lens.
Medium Grained	0.04 to 0.2 in	Most crystal boundaries/grains are distinguishable with the aid of a hand lens.
Coarse Grained	> 0.2 in	Most crystal boundaries/grains are distinguishable with the naked eye.

Weathered State		
Term	Description	Grade
Fresh	No visible sign of rock material weathering; perhaps slight discoloration in major discontinuity surfaces.	I
Slightly Weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than its fresh condition.	II
Moderately Weathered	Less than half of the rock material is decomposed and/or disintegrated to soil. Fresh or discolored rock is present either as a continuous framework or as core stones.	III
Highly Weathered	More than half of the rock material is decomposed and/or disintegrated to soil. Fresh or discolored rock is present either as discontinuous framework or as core stone.	IV
Completely Weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.	V
Residual Soil	All rock material is converted to soil. The mass structure and material fabric is destroyed. There is a large change in volume, but the soil has not been significantly transported.	VI

Relative Rock Strength			
Grade	Description	Field Identification	Uniaxial Compressive Strength approx
R1	Very Weak	Specimen crumbles under sharp blow from point of geological hammer, and can be cut with a pocket knife.	0.15 to 3.6 ksi
R2	Moderately Weak	Shallow cuts or scrapes can be made in a specimen with a pocket knife. Geological hammer point indents deeply with firm blow.	3.6 to 7.3 ksi
R3	Moderately Strong	Specimen cannot be scraped or cut with a pocket knife, shallow indentation can be made under firm blows from a hammer.	7.3 to 15 ksi
R4	Strong	Specimen breaks with one firm blow from the hammer end of a geological hammer.	15 to 29 ksi
R5	Very Strong	Specimen requires many blows of a geological hammer to break intact sample.	Greater than 29 ksi

Discontinuities			
Spacing		Condition	
Very Widely	Greater than 10 ft	Excellent	Very rough surfaces, no separation, hard discontinuity wall
Widely	3 ft to 10 ft	Good	Slightly rough surfaces, separation less than 0.05 in, hard discontinuity wall.
Moderately	1 ft to 3 ft	Fair	Slightly rough surfaces, separation greater than 0.05 in, soft discontinuity wall.
Closely	2 inches to 12 inches	Poor	Slickensided surfaces, or soft gouge less than 0.2 in thick, or open discontinuities 0.05 to 0.2 in.
Very Closely	Less than 2 inches	Very Poor	Soft gouge greater than 0.2 in thick, or open discontinuities greater than 0.2 in.
RQD (%) $\frac{100(\text{length of core in pieces} > 100\text{mm})}{\text{Length of core run}}$			

Fracture Frequency (FF) is the average number of fractures per 1 ft of core. This does not include mechanical breaks caused by drilling or handling.

Datum:
 NAD 83/91 HARN = North American Datum of 1983/1991
 High Accuracy Reference Network
 NAVD88 = North American Vertical Datum of 1988
 SPN (ft) = State Plane North (ft)
 SPS (ft) = State Plane South (ft)



LOG OF TEST BORING

Start Card SE46982/AE20075

Job No. XL-4200-A SR 202 Elevation 63.9 ft

HOLE No. H-1-12

Sheet 1 of 6

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny Lic# 2742

Component Culvert

Inspector Harvey, Thomas #2599

Start December 17, 2012 Completion December 18, 2012 Well ID# _____ Equipment CME 850 (9C2-2)

Station H 15+70.39 Offset 46.8 feet left Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 83.8%

Northing 278926.827 Easting 1312823.51 Collected by Region Survey Crew Method Mud Rotary

Lat 47.7568954 Long -122.1652307 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Bentonite

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
60.0				3 2 5 (7)	D-1	MC GS	SM, MC=11% Silty SAND with gravel, sub-rounded, loose, light brown, moist, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
5				10 5 5 (10)	D-2		Well graded GRAVEL with sand, sub-rounded, loose, brown, wet, homogeneous. HCl not tested. Recovered: 0.2 ft Retained: 0.2 ft		
				3 5 7 (12)	D-3		No Recovery, brown, moist, homogeneous. HCl not tested.		
55.0				4 4 5 (9)	D-4	MC GS AL	GM, MC=10%, LL=NA, PL=NP Silty GRAVEL with sand, sub-rounded, loose, light brown, moist, homogeneous. HCl not tested. Recovered: 1.5 ft Retained: 1.5 ft		
10				4 6 6 (12)	D-5	MC GS AL	GC, MC=21%, PI=8 Clayey GRAVEL with sand, sub-rounded, medium dense, grayish brown, moist, stratified. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
50.0				7 10 9 (19)	D-6	MC GS AL	SC-SM, MC=7%, PI=4 Silty, clayey SAND, sub-rounded, medium dense, brown, wet, stratified. HCl not tested. Recovered: 0.4 ft Retained: 0.4 ft		
15				8 8 7 (15)	D-7	MC GS	SP-SM, MC=11% Poorly graded SAND with silt and gravel, medium dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
45.0				7 6	D-8		Poorly graded SAND with silt and gravel, medium dense, brown, moist, homogeneous. HCl not tested.		
20									

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14

Job No. XL-4200-A

SR 202

Elevation 63.9 ft

HOLE No. H-1-12

Sheet 2 of 6

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency				Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			Field SPT (N)	Moisture Content	RQD								
			20	40	60	80							
							6 (12)				Recovered: 0.4 ft Retained: 0.4 ft		
40													
25							7 5 5 (10)	D-9	MC GS	SM, MC=13% Silty SAND with gravel, loose, brown, moist, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft			
35							11 22 22 (44)	D-10	MC GS	GW, MC=8% Well graded GRAVEL with sand, sub-angular, dense, brown, moist, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft			
30													
35							8 10 9 (19)	D-11	MC GS	SP-SM, MC=19% Poorly graded SAND with silt and trace of gravel, medium dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft			
25													
40							19 23 20 (43)	D-12	MC GS	GW-GM, MC=10% Well graded GRAVEL with silt and sand, sub-angular, dense, brown, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft			
20							10 11	D-13	MC GS	SP-SM, MC=19% Poorly graded SAND with silt and trace of gravel, medium			
45													



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 63.9 ft

HOLE No. H-1-12

Sheet 3 of 6

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency	Field SPT (N)	Moisture Content	RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
							11 (22)	▲			dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
15				◆			15 16 16 (32)	▼	D-14		Poorly graded SAND with silt, sub-angular, dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
50				◆			12 12 14 (26)	▼	D-15		Poorly graded SAND with silt and trace of gravel, dense, brown, moist, stratified. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
10				◆			16 15 18 (33)	▼	D-16		Poorly graded SAND with silt and trace of gravel, dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
55				◆			13 15 18 (33)	▼	D-17	MC GS	SP-SM, MC=17% Poorly graded SAND with silt and trace of gravel, dense, brown, moist, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
5				◆			17 22	▼	D-18		Poorly graded SAND with silt, sub-rounded, dense, brown, moist, homogeneous. HCl not tested.		
60				◆									
65				◆									
0				◆									
65				◆									
-5				◆									
70				◆									



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 63.9 ft

HOLE No. H-1-12

Sheet 4 of 6

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) ■ Moisture Content ▨ RQD				Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
							23 (45)	▲			Recovered: 0.8 ft Retained: 0.8 ft		
75	-10		■				>> 36 50/6" (REF)	▲	D-19	MC GS	SM, MC=10% Silty SAND with gravel, sub-angular, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
80	-15		■				>> 46 50/6" (REF)	▲	D-20	MC GS AL	ML, MC=20%, LL=NA, PL=NP SILT with sand and trace of gravel, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
85	-20		■				>> 38 50/6" (REF)	▲	D-21	MC GS	SP-SM, MC=17% Poorly graded SAND with silt and trace of gravel, very dense, gray, moist, stratified. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
90	-25		■				>> 48 50/6" (REF)	▲	D-22	MC GS AL	ML, MC=22%, LL=NA, PL=NP SILT with sand and trace of gravel, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
95	-30						>> 42 50/2"	▲	D-23		Poorly graded SAND with gravel, sub-angular, very dense, gray, moist, homogeneous. HCl not tested.		



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 63.9 ft

HOLE No. H-1-12

Sheet 5 of 6

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80							
				(REF)				Recovered: 0.5 ft Retained: 0.5 ft		
-35				>> 50/2" (REF)	D-24			Poorly graded SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
100										
-40				>> 50/6" (REF)	D-25			Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
105										
-45				>> 50/2" (REF)	D-26			No Recovery, gray, moist, homogeneous. HCl not tested.		
110										
-50				>> 50/4" (REF)	D-27			Poorly graded SAND, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.4 ft Retained: 0.4 ft		
115										
-55				>> 50/2" (REF)	D-28			Poorly graded SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested.		
120										

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14

Job No. XL-4200-A SR 202 Elevation 63.9 ft HOLE No. H-1-12
Sheet 6 of 6
Project SR202 Little Bear Creek - Fish Barrier Passage Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	<div> <div>●</div> SPT Efficiency <div>◆</div> Field SPT (N) <div>■</div> Moisture Content <div>▨</div> RQD </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80							
								Recovered: 0.3 ft Retained: 0.3 ft		
								<p>The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.</p>		
								<p>End of test hole boring at 119.2 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal</p>		
								<p>Bail/Recharge test: Hole Diameter: 4 inches Depth of boring during bail test: 119.2' Depth of casing during bail test: 114' Bailed bore hole water level to 52.1' Recharge after 24 minutes :32.3'</p>		



LOG OF TEST BORING

Start Card RE08001

Job No. XL-4200-A SR 202 Elevation 45.3 ft

HOLE No. H-2p-13

Sheet 1 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

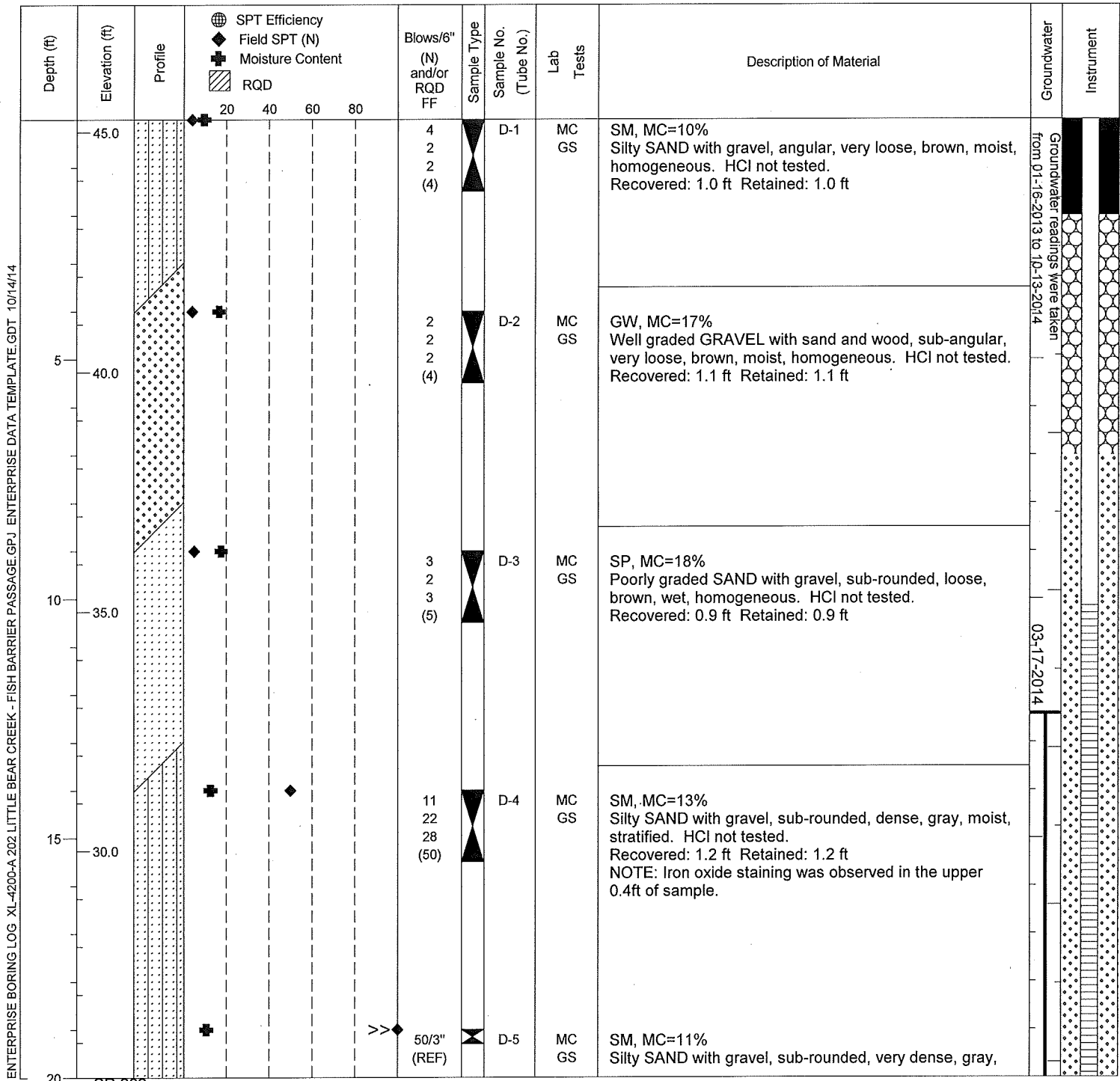
Inspector Hilts, Brian #2249

Start January 15, 2013 Completion January 16, 2013 Well ID# BHR-461 Equipment CME 55 (9C7-1)

Station H 15+72.18 Offset 76.1 feet right Hole Dia 6 (inches) Historical SPT Efficiency Past Rig Efficiency 87.9%

Northing 278852.289 Easting 1312921.279 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7566958 Long -122.1648281 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Mineral





LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 45.3 ft

HOLE No. H-2p-13

Sheet 2 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency				Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
25											moist, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
25	20						>> 42 50/3" (REF)		D-6	MC GS AL	ML, MC=19%, LL=NA, PL=NP SILT with sand, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft NOTE: At approximate 26ft we encountered gravel, demonstrated by drilling behavior.		
30	15						>> 50/4" (REF)		D-7		Well graded GRAVEL with sand, sub-rounded, very dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
35	10						28 39 44 (83)		D-8	MC GS	SM, MC=16% Silty SAND with gravel, very dense, brown, wet, stratified. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft NOTE: The top 0.5ft was sand and gravel, the bottom 0.7ft was sandy silt.		
40	5						>> 28 41 50/4" (REF)		D-9		Silty SAND with gravel, very dense, brown, wet, stratified. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft NOTE: With a trace of gravel, the top 0.4ft was coarser sand.		
45							20 29		D-10		Poorly graded SAND with silt, very dense, grayish brown, wet, homogeneous. HCl not tested.		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 45.3 ft

HOLE No. H-2p-13

Sheet 3 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content ▨ RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80						
0				32 (61)	◆		Recovered: 1.5 ft Retained: 1.5 ft		
50	-5		+	20 24 31 (55)	◆ D-11	MC GS	SP-SM, MC=21% Poorly graded SAND with silt, very dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 1.3 ft Retained: 1.3 ft		
55	-10		+	36 50/5" (REF)	◆ D-12	MC GS AL	ML, MC=24%, LL=NA, PL=NP SILT with a trace of gravel, very dense, light gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
60	-15			40 50/4" (REF)	◆ D-13		SILT, very dense, light gray, wet, stratified. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
65	-20		+	35 50/5" (REF)	◆ D-14	MC GS	SP-SM, MC=18% Poorly graded SAND with silt, very dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
70				41 50/4"	◆ D-15		Poorly graded SAND with silt, very dense, brown, wet, stratified. HCl not tested.		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 45.3 ft

HOLE No. H-2p-13

Sheet 4 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content ▨ RQD				Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80						
-25							(REF)			Recovered: 0.8 ft Retained: 0.8 ft NOTE: The bottom 0.3ft was gray.		
75	-30						>>◆ 50/3" (REF)	D-16		Poorly graded SAND with silt, sub-rounded, very dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
80	-35						>>◆ 50/2" (REF)	D-17		Well graded GRAVEL with sand, sub-rounded, very dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.2 ft Retained: 0.2 ft A standpipe monument was installed on this boring.		
85	-40									The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
90	-45									End of test hole boring at 79.2 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
95										Bail/Recharge test: Hole Diameter: 6 inches Depth of boring during bail test: 79' Depth of casing during bail test: 78.5' Bailed bore hole water level to 39.5' Recharge after 1 minutes :37' Recharge after 5 minutes :35.7' Recharge after 10 minutes :35.2' Recharge after 15 minutes :33.6' Recharge after 25 minutes :32.4' Recharge after 32 minutes :31.2' we hole plugged the hole back to 22, bailed the hole again, (developed the well) installed the piezometer, after the install the water table was at 14.6'.		

Job No. XL-4200-A SR 202 Elevation 44.4 ft

HOLE No. H-3-13

Sheet 1 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component	Culvert
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Inspector Hilts, Brian #2249

Start January 9, 2013 Completion January 10, 2013 Well ID# N/A Equipment CME 55 (9C7-1)

Station	H 15+19.39	Offset	70.4 feet right	Hole Dia (inches)	4	Historical SPT Efficiency	Past Rig Efficiency 87.9%
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Northing 278818.805 Easting 1312890.623 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7566025 Long -122.1649503 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Mineral

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
30.0	40.0		20	5 7 5 (12)	D-1		MC GS	SP-SM, MC=10% Poorly graded SAND with silt and gravel, sub-angular, medium dense, brown, moist, stratified. HCl not tested. Recovered: 1.5 ft Retained: 1.5 ft		
35.0			40	4 5 6 (11)	D-2			Poorly graded SAND with silt and gravel, sub-rounded, medium dense, dark brown, moist, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
40.0			80	7 8 12 (20)	D-3		MC GS	SP-SM, MC=8% Poorly graded SAND with silt and gravel, sub-angular, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
45.0			60	6 11 15 (26)	D-4		MC GS	SW-SM, MC=11% Well graded SAND with silt and gravel, sub-angular, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft	01-10-2018	
50.0			40	11 14	D-5			Well graded SAND with silt and gravel, sub-angular, dense, grayish brown, wet, homogeneous. HCl not		



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 44.4 ft

HOLE No. H-3-13

Sheet 2 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content ▨ RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80						
				16 (30)	◆		tested. Recovered: 1.2 ft Retained: 1.2 ft		
20			+	15 18 18 (36)	◆ D-6	MC GS	SP-SM, MC=10% Poorly graded SAND with silt and gravel, sub-angular, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
25			◆	11 13 21 (34)	◆ D-7		Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
30				11 13 12 (25)	◆ D-8		Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
35			◆	22 32 40 (72)	◆ D-9	MC GS AL	SM, MC=12%, LL=NA, PL=NP Silty SAND with gravel, sub-angular, very dense, brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
40			+	22 28	◆ D-10	MC GS	SM, MC=13% Silty SAND with gravel, sub-rounded, very dense, grayish		
45			◆						

SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL

APPENDIX B
15A034

Page 14 of 36



LOG OF TEST BORING

Job No. XL-4200-A

SR

202

Elevation 44.4 ft

HOLE No. H-3-13

Sheet 3 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency	Field SPT (N)	Moisture Content	RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
							32 (60)	▲			brown, moist, stratified. HCl not tested. Recovered: 1.5 ft Retained: 1.5 ft		
50	-5			◆			20 27 33 (60)	▲	D-11	MC GS	SP-SM, MC=18% Poorly graded SAND with silt, very dense, brown, wet, homogeneous. HCl not tested. with a trace of gravel. Recovered: 1.2 ft Retained: 1.2 ft		
55	-10				◆		18 36 36 (72)	▲	D-12		Poorly graded SAND with silt, sub-rounded, very dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
60	-15					◆	47 50/4" (REF)	▲	D-13		Poorly graded SAND with silt, sub-rounded, very dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
65	-20			◆			21 26 29 (55)	▲	D-14	MC GS	SM, MC=17% Silty SAND, very dense, brown, wet, stratified. HCl not tested. the bottom .4' was fine sandy silt. Recovered: 1.4 ft Retained: 1.4 ft		
70	-25					◆	47 50/4"	▲	D-15	MC GS	ML, MC=22%, LL=NA, PL=NP Sandy SILT, very dense, brown, moist, stratified. HCl not		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 44.4 ft

HOLE No. H-3-13

Sheet 4 of 4

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	<div><div><div></div><div>SPT Efficiency</div></div><div><div></div><div>Field SPT (N)</div></div><div><div></div><div>Moisture Content</div></div><div><div></div><div>RQD</div></div></div> <div>20406080</div> <th>Blows/6" (N) and/or RQD FF</th> <th>Sample Type</th> <th>Sample No. (Tube No.)</th> <th>Lab Tests</th> <th>Description of Material</th> <th>Groundwater</th> <th>Instrument</th>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument	
				(REF)				AL	tested. Recovered: 0.9 ft Retained: 0.9 ft		
75	-30			>> 37 50/5" (REF)	D-16	MC GS	SM, MC=18% Silty SAND, very dense, grayish brown, wet, stratified. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft				
80	-35			>> 47 50/3" (REF)	D-17		Silty SAND, very dense, gray, wet, stratified. HCl not tested. the top .4" was sand, and the bottom .3" was silt with fine sand. Recovered: 0.7 ft Retained: 0.7 ft				
85	-40						The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.				
90	-45						End of test hole boring at 79.8 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal				
95	-50										



LOG OF TEST BORING

Start Card RE07919

Job No. XL-4200-A SR 202 Elevation 50.5 ft

HOLE No. H-4p-12

Sheet 1 of 5

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

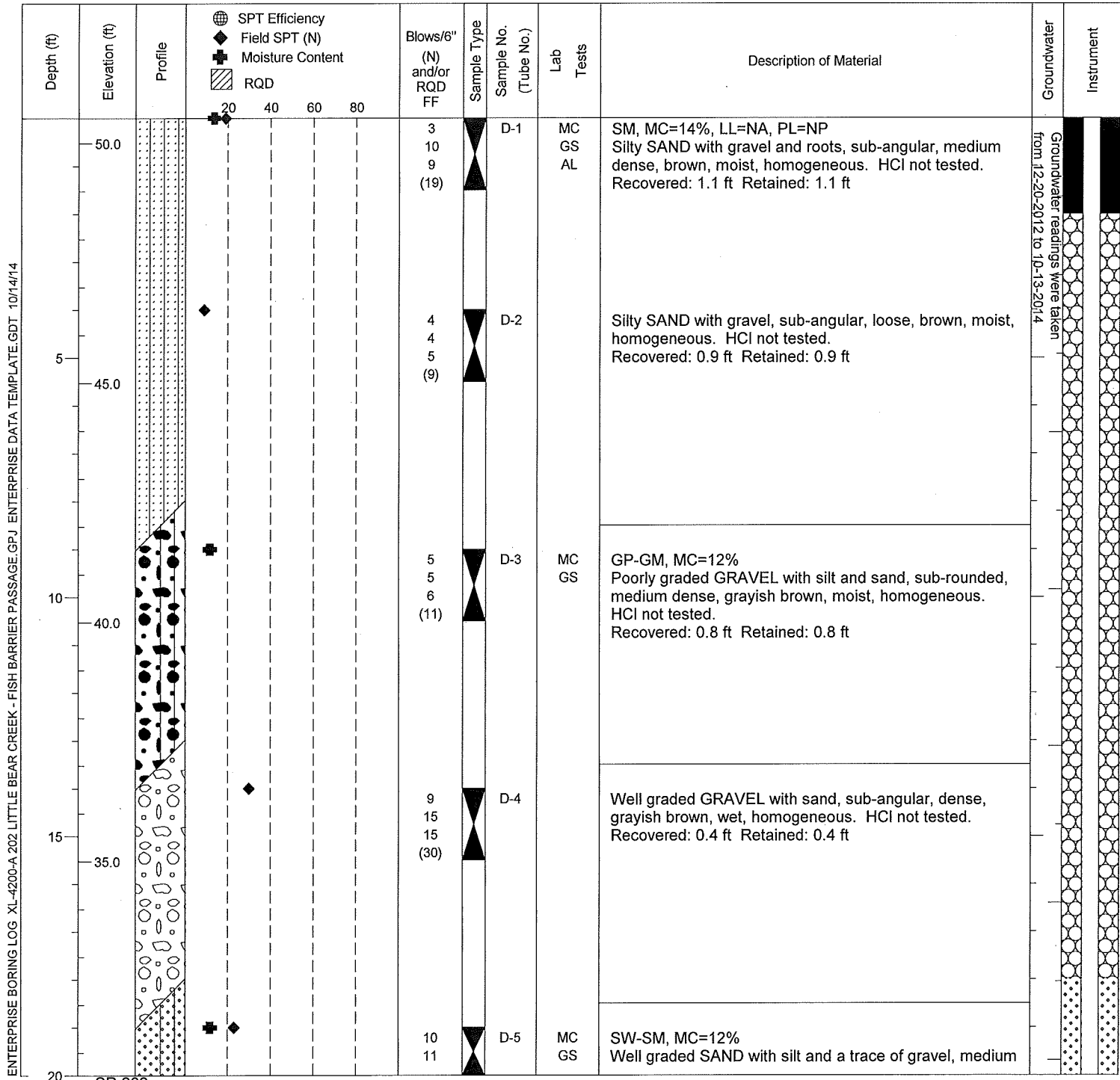
Inspector Hilts, Brian #2249

Start December 19, 2012 Completion December 20, 2012 Well ID# BHR- 460 Equipment CME 55 truck (9C1-3)

Station H 14+27.65 Offset 45.1 feet left Hole Dia 6 Historical SPT Efficiency Past Rig Efficiency 89.4%
(inches)

Northing 278835.689 Easting 1312767.658 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7566430 Long -122.1654514 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Bentonite





LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 50.5 ft

HOLE No. H-4p-12

Sheet 2 of 5

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	<div><div><div><div></div></div>SPT Efficiency</div><div><div></div></div>Field SPT (N)</div> <div><div></div></div> Moisture Content <div><div></div></div> RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
30				12 (23)				dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft	12-20-2012	
25				8 11 10 (21)	D-6		MC GS	SP-SM, MC=15% Poorly graded SAND with silt and gravel, sub-angular, medium dense, brown, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
30				11 11 14 (25)	D-7			Poorly graded SAND with silt and gravel, sub-angular, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft	10-13-2014	
35				13 13 15 (28)	D-8			Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, stratified. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft NOTE: The top 0.4ft was grayish brown and the bottom 0.7ft was gray.		
40				12 18 18 (36)	D-9		MC GS	SP-SM, MC=11% Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
45				9 11	D-10			Poorly graded SAND with silt and gravel, medium dense, gray, wet, homogeneous. HCl not tested.		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 50.5 ft

HOLE No. H-4p-12

Sheet 3 of 5

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency	Field SPT (N)	Moisture Content	RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
5							13 (24)	▲			Recovered: 1.0 ft Retained: 1.0 ft		
50	0			◆			13 14 18 (32)	▼ ▲	D-11		Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
55	-5			◆	+		11 12 11 (23)	▼ ▲	D-12	MC GS	SP-SM, MC=14% Poorly graded SAND with silt and gravel, sub-rounded, medium dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
60	-10			◆			13 16 14 (30)	▼ ▲	D-13		Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
65	-15			◆			10 14 16 (30)	▼ ▲	D-14		Poorly graded SAND with silt, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
70				◆	+		13 19	▼ ▲	D-15	MC GS	SP-SM, MC=14% Poorly graded SAND with silt, sub-angular, dense,		



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 50.5 ft

HOLE No. H-4p-12

Sheet 4 of 5

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content ▨ RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80						
-20				20 (39)	◆		grayish brown, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
75	-25		◆	18 21 26 (47)	◆	D-16	Poorly graded SAND with silt with a trace of gravel, dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
80	-30		◆	20 29 37 (66)	◆	D-17	Poorly graded SAND with silt, sub-angular, very dense, brown, wet, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
85	-35	+	>>◆	50/4" (REF)	◆	D-18 MC GS	SP-SM, MC=18% Poorly graded SAND with silt, very dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft NOTE: Used the over-sized splitspoon for sample recovery.		
90	-40		◆	14 16 17 (33)	◆	D-19	Poorly graded SAND with silt, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
95		+	◆	16 21	◆	D-20 MC GS	SP-SM, MC=12% Poorly graded SAND with silt and gravel, sub-angular,		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 50.5 ft

HOLE No. H-4p-12

Sheet 5 of 5

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency				Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			Field SPT (N)	Moisture Content	RQD								
			20	40	60	80							
	-45						19 (40)				dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.7 ft Retained: 0.7 ft		
							>> 50/6" (REF)		D-21		Well graded GRAVEL with sand, sub-rounded, very dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
100	-50										A standpipe monument was installed on this boring.		
											The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
105	-55										End of test hole boring at 99.5 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
											Bail/Recharge test: Hole Diameter: 6 inches Depth of boring during bail test: 99.5' Depth of casing during bail test: 98.5' Bailed bore hole water level to 21.6' Recharge after 960 minutes :21.9'		
											We bailed the hole and let it set over night		
110	-60												
115	-65												
120													

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Start Card SE46982/AE20075

Job No. XL-4200-A SR 202 Elevation 62.1 ft

HOLE No. H-5-12

Sheet 1 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny Lic# 2742

Component Culvert

Inspector Harvey, Thomas #2599

Start December 19, 2012 Completion December 19, 2012 Well ID# _____ Equipment CME 850 (9C2-2)

Station H 15+52.84 Offset 0.1 feet right Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 83.8%

Northing 278883.933 Easting 1312849.875 Collected by Region Survey Crew Method Mud Rotary

Lat 47.7567791 Long -122.1651206 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Bentonite

Depth (ft)	Elevation (ft)	Profile	<div> <div>SPT Efficiency</div> <div>Field SPT (N)</div> <div>Moisture Content</div> <div>RQD</div> </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
60.0				14 21 34 (55)		D-1	MC GS	SM, MC=9% Silty SAND with gravel, sub-rounded, very dense, brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
5				10 14 20 (34)		D-2		Silty SAND with gravel, sub-rounded, dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
55.0				17 31 26 (57)		D-3	MC GS AL	SM, MC=18%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.5 ft Retained: 1.5 ft		
10				22 24 28 (52)		D-4		Silty SAND with gravel, sub-angular, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
50.0				16 26 38 (64)		D-5		Silty SAND with gravel, sub-rounded, very dense, gray, moist, stratified. HCl not tested. Recovered: 0.4 ft Retained: 0.4 ft		
15				20 25 31 (56)		D-6		Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
45.0				12 10 11 (21)		D-7		Silty SAND with gravel, sub-rounded, medium dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
20				11 11		D-8		Silty SAND with gravel, sub-rounded, medium dense, gray, moist, homogeneous. HCl not tested.		

12-19-2012

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR

202

Elevation 62.1 ft

HOLE No. H-5-12

Sheet 2 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency	Field SPT (N)	Moisture Content	RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20	40	60	80							
							10 (21)	▲			Recovered: 0.4 ft Retained: 0.4 ft		
40													
				◆			11 7 6 (13)	▲	D-9		Silty SAND with gravel, sub-rounded, medium dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.7 ft Retained: 0.7 ft		
25													
35													
30							50/6" (REF)	▲	D-10		Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft		
30													
35				◆			8 12 14 (26)	▲	D-11	MC GS	SM, MC=20% Silty SAND, sub-rounded, dense, brown, moist, stratified. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
25													
40				◆			10 12 12 (24)	▲	D-12	MC GS	SP-SM, MC=18% Poorly graded SAND with silt, sub-angular, medium dense, gray, moist, stratified. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
20													
45							14 14	▲	D-13		Poorly graded SAND with silt, sub-rounded, dense, brown, moist, homogeneous. HCl not tested.		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 62.1 ft

HOLE No. H-5-12

Sheet 3 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Henderson, Danny

Depth (ft)	Elevation (ft)	Profile	<div> <div>SPT Efficiency</div> <div>Field SPT (N)</div> <div>Moisture Content</div> <div>RQD</div> </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80							
				18 (32)	⬇			Recovered: 1.0 ft Retained: 1.0 ft		
15										
				11 14 18 (32)	⬇	D-14		Poorly graded SAND with silt with a trace of gravel, dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
50										
				13 19 20 (39)	⬇	D-15		Poorly graded SAND with silt, sub-rounded, dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
10										
				15 17 18 (35)	⬇	D-16		Poorly graded SAND with silt with a trace of gravel, dense, brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
55										
5										
60										
0								The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
65								End of test hole boring at 60.5 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
-5								Bail/Recharge test: Hole Diameter: 4 inches Depth of boring during bail test: 60.5' Depth of casing during bail test: 54' Bailed bore hole water level to 46.3' Recharge after 30 minutes :34.3'		
70										



LOG OF TEST BORING

Start Card SE-48908 / AE-22954

Job No. XL-4200-A SR 202 Elevation 60.6 ft

HOLE No. H-6-13

Sheet 1 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

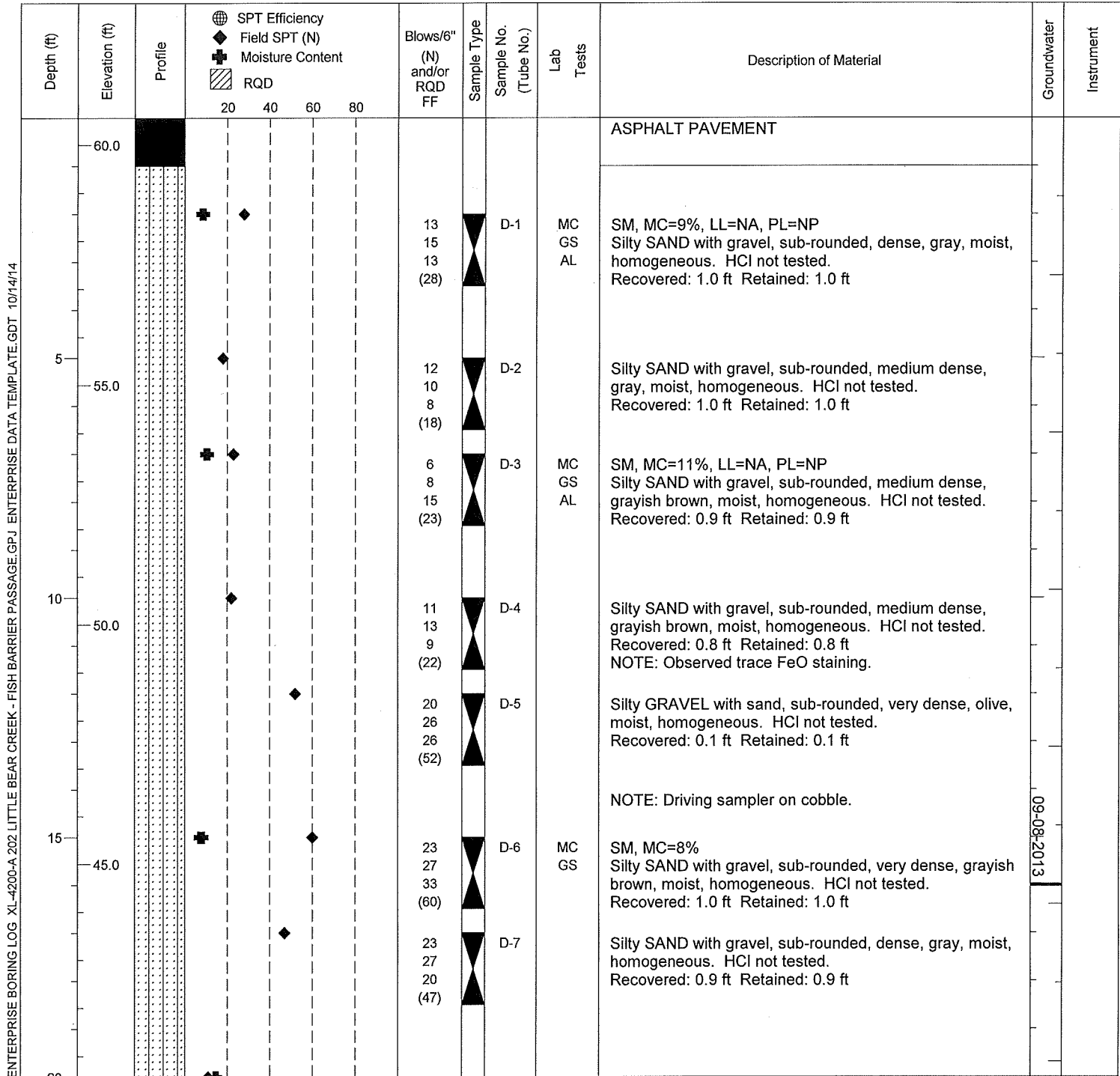
Inspector Fetterly, Jamie #2507

Start September 7, 2013 Completion September 8, 2013 Well ID# _____ Equipment CME 55 truck (9C1-3)

Station H 15+61.88 Offset 8.9 feet left Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 89.4%

Northing 278863.818 Easting 1312825.331 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7567228 Long -122.1652189 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Water





LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 60.6 ft

HOLE No. H-6-13

Sheet 2 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
40			20 40 60 80	5 6 5 (11)	D-8	MC GS AL	SM, MC=15%, LL=NA, PL=NP Silty SAND with gravel, stiff, very dark brown, wet, stratified. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				10 8 10 (18)	D-9		Poorly graded SAND with silt and gravel, sub-rounded, medium dense, olive brown, wet, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
25	35			7 7 17 (24)	D-10	MC GS	SP-SM, MC=9% Poorly graded SAND with silt and gravel, sub-rounded, medium dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
				11 11 12 (23)	D-11	MC GS	SW-SM, MC=17% Well graded SAND with silt, medium dense, olive brown, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
30	30			16 24 23 (47)	D-12		Well graded SAND with silt, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
				19 17 17 (34)	D-13	MC GS	SW-SM, MC=10% Well graded SAND with silt and gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
35	25			16 22 25 (47)	D-14		Well graded SAND with silt and gravel, sub-rounded, dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
				36 34 18 (52)	D-15		Poorly graded SAND with silt, sub-rounded, very dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
40	20			9 10 12 (22)	D-16	MC GS	SP-SM, MC=20% Poorly graded SAND with silt, medium dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.1 ft Retained: 1.1 ft		
45									

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14

Job No. XL-4200-A

SR





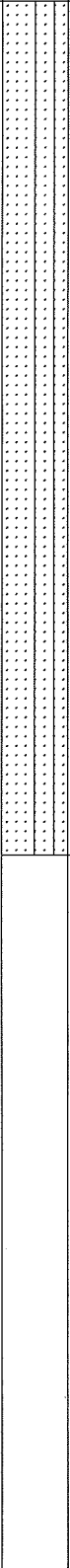






202

Elevation 60.6 ft

HOLE No. H-6-13

Sheet 3 of 3

Project SR202 Little Bear Creek - Fish Barrier PassageDriller Shepherd, Robert

	Depth (ft)	Elevation (ft)	Profile	<div><div> SPT Efficiency</div><div> Field SPT (N)</div><div> Moisture Content</div><div> RQD</div></div> <div>20406080</div> <th>Blows/6" (N) and/or RQD FF</th> <th>Sample Type</th> <th>Sample No. (Tube No.)</th> <th>Lab Tests</th> <th>Description of Material</th> <th>Groundwater</th> <th>Instrument</th>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
	15										
					14 17 19 (36)	 	D-17		Poorly graded SAND with silt, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
	50										
	10				16 16 17 (33)	 	D-18		Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
	55										
	5				14 16 17 (33)	 	D-19	MC GS	SP-SM, MC=12% Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
	60	-0							After casing was removed water was observed at a depth of 16ft.		
									The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
	65	-5							End of test hole boring at 58.5 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
70								Bail/Recharge test: Hole Diameter: 4 in. Depth of boring during bail test :58.5ft. Depth of casing during bail test :57ft. Bailed bore hole water level to 36.5ft. Recharge after 1 minutes :36.3ft. Recharge after 2 minutes :36.3ft. Recharge after 3 minutes :36.3ft. Recharge after 4 minutes :36.3ft. Recharge after 5 minutes :36.3ft.			



LOG OF TEST BORING

Start Card SE-48908 / AE-22954

Job No. XL-4200-A SR 202 Elevation 58.7 ft

HOLE No. H-7-13

Sheet 1 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

Inspector Fetterly, Jamie #2507

Start September 6, 2013 Completion September 7, 2013 Well ID# _____ Equipment CME 55 truck (9C1-3)

Station H 15+52.72 Offset 32.9 feet right Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 89.4%

Northing 278834.069 Easting 1312856.026 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7566427 Long -122.1650920 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Water

Depth (ft)	Elevation (ft)	Profile	<div> <div>SPT Efficiency</div> <div>Field SPT (N)</div> <div>Moisture Content</div> <div>RQD</div> </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80							
								ASPHALT PAVEMENT		
55.0				8 6 6 (12)		D-1	MC GS	SM, MC=10% Silty SAND with gravel, sub-rounded, medium dense, olive, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
5				15 16 16 (32)		D-2		Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
50.0				14 14 16 (30)		D-3	MC GS	SM, MC=10% Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
10				14 19 16 (35)		D-4		Silty SAND with gravel, sub-rounded, dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
45.0				12 20 29 (49)		D-5	MC GS AL	SM, MC=11%, LL=NA, PL=NP Silty SAND with gravel (laminated with organic soil), sub-rounded, dense, gray, moist, laminated. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
15				22 24 23 (47)		D-6	MC GS	SP-SM, MC=8% Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
40.0				12 10 12 (22)		D-7	MC GS AL	SM, MC=10%, LL=NA, PL=NP Silty SAND (stratified with brown organic soil), sub-rounded, medium dense, gray, moist, stratified. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
20										

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 58.7 ft

HOLE No. H-7-13

Sheet 2 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80						
				3 3 4 (7)	D-8	MC GS	SM, MC=18% Silty SAND (with roots, stratified with brown organic soil), loose, gray, moist, stratified. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
				1 2 4 (6)	D-9		ORGANIC Soil with sand and gravel, medium stiff, dark brown, moist, homogeneous. HCl not tested. Recovered: 0.2 ft Retained: 0.2 ft		
				20 16 16 (32)	D-10	MC GS	SM, MC=12% Silty SAND with gravel, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				12 10 12 (22)	D-11		Silty SAND with gravel (laminated with one 2mm layer of black organic soil), medium dense, gray, wet, laminated. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				12 22 23 (45)	D-12		Well graded SAND with silt, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				14 19 21 (40)	D-13	MC GS	SW-SM, MC=13% Well graded SAND with silt, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				20 30 29 (59)	D-14	MC GS	SW, MC=11% Well graded SAND with gravel, sub-rounded, very dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
				23 25 21 (46)	D-15	MC GS	SP-SM, MC=9% Poorly graded SAND with silt and gravel, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				15 16 16 (32)	D-16		Poorly graded SAND with silt and gravel, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
				15 15 19 (34)	D-17	MC GS	SW-SM, MC=14% Well graded SAND with silt, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 58.7 ft

HOLE No. H-7-13

Sheet 3 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content ▨ RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80						
				19 23 21 (44)	D-18		Well graded SAND with silt, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
				15 14 14 (28)	D-19		Poorly graded SAND with silt and gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.7 ft Retained: 0.7 ft		
10				11 11 12 (23)	D-20	MC GS	SP-SM, MC=15% Poorly graded SAND with silt and gravel, medium dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
50				13 14 16 (30)	D-21		Poorly graded SAND with silt and gravel, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
5				23 21 15 (36)	D-22		Poorly graded SAND with silt, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft		
55				15 14 18 (32)	D-23	MC GS	SP-SM, MC=13% Poorly graded SAND with silt, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
0									
60							The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
							End of test hole boring at 59 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
							Bail/Recharge test: Hole Diameter: 4 in. Depth of boring during bail test: 59ft. Depth of casing during bail test: 57.5ft. Bailed bore hole water level to 28ft. Recharge after 1 minutes :27.2ft. Recharge after 2 minutes :27.2ft. Recharge after 3 minutes :27.2ft. Recharge after 4 minutes :27.2ft. Recharge after 5 minutes :27.2ft.		
-5									
65									
-10									
70									



LOG OF TEST BORING

Start Card SE-48908 / AE-22954

Job No. XL-4200-A SR 202 Elevation 62.2 ft

HOLE No. H-8-13

Sheet 1 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

Inspector Fetterly, Jamie #2507

Start September 8, 2013 Completion September 8, 2013 Well ID# _____ Equipment CME 55 truck (9C1-3)

Station H 15+88.16 Offset 8.0 feet left Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 89.4%

Northing 278885.439 Easting 1312841.054 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7567828 Long -122.1651565 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Water

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80				ASPHALT PAVEMENT		
60.0				5 5 6 (11)	D-1	MC GS AL	SM, MC=9%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
5				9 12 15 (27)	D-2		Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
55.0				11 15 20 (35)	D-3		Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
10				12 13 10 (23)	D-4	MC GS AL	SM, MC=13%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
50.0				10 15 19 (34)	D-5		Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
15				28 30 30 (60)	D-6	MC GS	SM, MC=9% Silty SAND with gravel, sub-rounded, very dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 1.2 ft Retained: 1.2 ft		
45.0				23 22 17 (39)	D-7		Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
20									

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14

Job No. XL-4200-A

SR 202

Elevation 62.2 ft

HOLE No. H-8-13

Sheet 2 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency ◆ Field SPT (N) + Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
40				4 3 6 (9)	D-8			Silty SAND with gravel, sub-rounded, loose, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.4 ft Retained: 0.4 ft		
40				8 16 15 (31)	D-9			Silty SAND with gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
25				20 6 5 (11)	D-10		MC GS AL	SM, MC=27%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, medium dense, gray, wet, stratified with dark brown organic soil. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
35			>> ◆	18 50/4" (REF)	D-11			Silty SAND with gravel, sub-rounded, very dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.3 ft Retained: 0.3 ft NOTE: Drilling indicates cobbles present.		
30				14 13 15 (28)	D-12			Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
30				12 15 19 (34)	D-13		MC GS	NOTE: Sampler driven on cobble. SM, MC=12% Silty SAND with gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
35										
25				12 14 16 (30)	D-14			Silty SAND with gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
40										
20				14 14 14 (28)	D-15			Poorly graded SAND with silt, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft NOTE: FeO staining present.		
45		SR 202								

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR

202











Elevation 62.2 ft

HOLE No. H-8-13

Sheet 3 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	 SPT Efficiency  Field SPT (N)  Moisture Content  RQD	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
15				10 13 17 (30)		D-16	MC GS	SP-SM, MC=18% Poorly graded SAND with silt, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
50										
10				13 17 20 (37)		D-17		Silty SAND with gravel, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
55										
5				17 19 21 (40)		D-18		Silty GRAVEL with sand, sub-rounded, dense, gray, wet, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
60								After casing was removed water was observed at a depth of 18ft. The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
0								End of test hole boring at 59 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
65								Bail/Recharge test: Hole Diameter: 4in. Depth of boring during bail test: 59ft. Depth of casing during bail test: 57.5ft. Bailed bore hole water level to 35.3ft. Recharge after 1 minutes :35.2ft. Recharge after 2 minutes :35.2ft. Recharge after 3 minutes :35.2ft. Recharge after 4 minutes :35.2ft. Recharge after 5 minutes :35.2ft.		
-5										
70										



LOG OF TEST BORING

Start Card SE-48908 / AE-22954

Job No. XL-4200-A SR 202 Elevation 62.4 ft

HOLE No. H-9-13

Sheet 1 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert Lic# 2710

Component Culvert

Inspector Fetterly, Jamie #2507

Start September 7, 2013 Completion September 7, 2013 Well ID# _____ Equipment CME 55 truck (9C1-3)

Station H 16+06.16 Offset 33.0 feet right Hole Dia 4 (inches) Historical SPT Efficiency Past Rig Efficiency 89.4%

Northing 278875.106 Easting 1312884.31 Collected by Region Survey Crew Method Wet Rotary

Lat 47.7567565 Long -122.1649800 Datum NAD 83/91 HARN, NAVD88, SPN (ft) Drill Fluid Water

Depth (ft)	Elevation (ft)	Profile	SPT Efficiency Field SPT (N) Moisture Content RQD	Blows/6" (N) and/or RQD FF	Sample Type Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			20 40 60 80				ASPHALT PAVEMENT		
60.0				11 10 6 (16)	D-1		Silty SAND with gravel, sub-rounded, medium dense, olive, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
5				19 23 25 (48)	D-2	MC GS	SM, MC=8% Silty SAND with gravel, sub-rounded, dense, olive, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
55.0				15 23 23 (46)	D-3		Silty SAND with gravel, sub-rounded, dense, olive, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
10				10 17 18 (35)	D-4		Silty SAND with gravel, sub-rounded, dense, olive, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
50.0				13 25 30 (55)	D-5	MC GS AL	SM, MC=9%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
15				22 29 27 (56)	D-6		Silty SAND with gravel, sub-rounded, very dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
45.0				13 11 12 (23)	D-7	MC GS AL	SM, MC=12%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, medium dense, gray, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft		
20									

SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL



LOG OF TEST BORING

Job No. XL-4200-A

SR

202

Elevation 62.4 ft

HOLE No. H-9-13

Sheet 2 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	<div> <div></div> SPT Efficiency <div></div> Field SPT (N) <div></div> Moisture Content <div></div> RQD </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			<div> <div></div> <div></div> <div></div> <div></div> </div>							
				4		D-8	MC GS AL	SM, MC=14%, LL=NA, PL=NP Silty SAND with gravel, sub-rounded, loose, gray, moist, stratified with brown organic soil. HCl not tested. Recovered: 0.7 ft Retained: 0.7 ft		
				4 4 5 (9)		D-9		ORGANIC Soil with sand with gravel, stiff, dark brown, wet, homogeneous. HCl not tested. Recovered: 0.2 ft Retained: 0.2 ft		
				12 14 9 (23)		D-10		Well graded SAND with silt, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.5 ft Retained: 0.5 ft		
				7 8 8 (16)		D-11		Well graded SAND with silt, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.6 ft Retained: 0.6 ft NOTE: FeO staining present.		
				9 9 11 (20)		D-12	MC GS	SW-SM, MC=14% Well graded SAND with silt, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 1.0 ft Retained: 1.0 ft NOTE: FeO staining present.		
				10 10 12 (22)		D-13		Well graded SAND with silt and gravel, sub-rounded, medium dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				18 23 16 (39)		D-14		Well graded SAND with silt and gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.7 ft Retained: 0.7 ft		
				11 15 17 (32)		D-15	MC GS	SW-SM, MC=12% Well graded SAND with silt and gravel, sub-rounded, dense, grayish brown, moist, homogeneous. HCl not tested. Recovered: 0.8 ft Retained: 0.8 ft		
				13 18 16 (34)		D-16		Well graded SAND with silt and gravel, sub-rounded, dense, olive, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		
				14 15 18 (33)		D-17		Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested. Recovered: 0.9 ft Retained: 0.9 ft		

ENTERPRISE BORING LOG XL-4200-A 202 LITTLE BEAR CREEK - FISH BARRIER PASSAGE.GPJ ENTERPRISE DATA TEMPLATE.GDT 10/14/14



LOG OF TEST BORING

Job No. XL-4200-A

SR 202

Elevation 62.4 ft

HOLE No. H-9-13

Sheet 3 of 3

Project SR202 Little Bear Creek - Fish Barrier Passage

Driller Shepherd, Robert

Depth (ft)	Elevation (ft)	Profile	<div> <div>SPT Efficiency</div> <div>Field SPT (N)</div> <div>Moisture Content</div> <div>RQD</div> </div>	Blows/6" (N) and/or RQD FF	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			<div> <div>20</div> <div>40</div> <div>60</div> <div>80</div> </div>							
				13		D-18	MC	SP-SM, MC=14%		
				13			GS	Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested.		
				13				Recovered: 0.8 ft Retained: 0.8 ft		
				14		D-19		Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested.		
				15				Recovered: 0.8 ft Retained: 0.8 ft		
				18						
				(33)						
				17		D-20		Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested.		
				17				Recovered: 0.7 ft Retained: 0.7 ft		
				23						
				(40)						
				14		D-21	MC	SP-SM, MC=13%		
				22			GS	Poorly graded SAND with silt and gravel, sub-rounded, dense, grayish brown, wet, homogeneous. HCl not tested.		
				23				Recovered: 0.9 ft Retained: 0.9 ft		
				(45)						
				27		D-22	MC	SM, MC=20%		
				33			GS	Silty SAND, very dense, grayish brown, wet, homogeneous. HCl not tested.		
				40				Recovered: 1.1 ft Retained: 1.1 ft		
				(73)						
				35		D-23	MC	SM, MC=19%, LL=NA, PL=NP		
				32			GS	Silty SAND, very dense, gray, moist, homogeneous. HCl not tested.		
				35			AL	Recovered: 1.5 ft Retained: 1.5 ft		
				(67)						
								The implied accuracy of the borehole location information displayed on this boring log is typically sub-meter in (X,Y) when collected by the HQ Geotech Office and sub-centimeter in (X,Y,Z) when collected by the Region Survey Crew.		
								End of test hole boring at 58.5 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal		
								Bail/Recharge test: Hole Diameter: 4in. Depth of boring during bail test: 58.5ft. Depth of casing during bail test: 57ft. Bailed bore hole water level to 42ft. Recharge after 1 minutes :41.9ft. Recharge after 2 minutes :41.9ft. Recharge after 3 minutes :41.9ft. Recharge after 4 minutes :41.9ft. Recharge after 5 minutes :41.9ft.		

APPENDIX C

Hydraulic Project Approval



HYDRAULIC PROJECT APPROVAL

Washington Department of
Fish & Wildlife
PO Box 43234
Olympia, WA 98504-3234
(360) 902-2200

Issued Date: March 03, 2015
Project End Date: March 02, 2020

Permit Number: 2015-4-123+01
FPA/Public Notice Number: N/A
Application ID: 2699

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Washington State Department of Transportation ATTENTION: John Maas PO Box 330310, 15700 Dayton Avenue North Seattle, WA 98133-9710	Washington State Department of Transportation ATTENTION: Maria Mayrhofer PO Box 330310 Seattle, WA 98133-9710

Project Name: State Route (SR) 202 at Little Bear Creek – Fish Barrier Removal

Project Description: This Fish Habitat Enhancement Project will correct a fish passage barrier at the SR 202 crossing of Little Bear Creek. The project will remove the existing 146' long x 6' high x 10' wide culvert and replace it with a larger 104' long x 23.5' high x 30' wide structure to provide fish passage.

PROVISIONS

1. This HPA is for a Fish Habitat Enhancement Project that will replace a documented fish passage barrier along SR 202 at Little Bear Creek (consisting of 146 LF of culvert measuring 10-feet wide and 6-feet tall) with a new fish passable structure. The new concrete structure will include three wing walls and measure 104 LF in length, 30-feet wide, and have a minimum height of 23.5-feet. As part of the project, a small portion (33 LF or 1195 SQ FT) of the stream will be day lighted and restored. Approximately 76 CY of streambed material will be removed and 85 CYs of material will be installed in order to grade and restore the channel up and downstream of the new structure. Additional project elements include: rip rap scour protection along the NW wing wall; utility relocation above the new structure; vegetation clearing and riparian restoration for temporary access roads; and invasive species removal and revegetation of impacted areas.
2. **TIMING LIMITATIONS:** The project may begin immediately and shall be completed by March 2, 2020, provided work below the ordinary high water line (OHWL) shall occur only between July 1 and September 15 of a given year.
3. **APPROVED PLANS:** Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled SR 202 LITTLE BEAR CREEK/FISH BARRIER REMOVAL dated January 6, 2015 and revised January 22, 2015; WASHINGTON STATE DEPARTMENT OF TRANSPORTATION MEMORANDUM dated December 24, 2014 with subject heading STATE ROUTE 202: LITTLE BEAR CREEK – FISH BARRIER REMOVAL PROJECT AQUATIC RESOURCES RESTORATION PLAN; and SR 202 LITTLE BEAR CREEK FISH BARRIER REMOVAL - RESTORATION PLAN dated January 12, 2015; and all supporting documents and communications uploaded to the APPS project file; except as modified by this HPA. A copy of these plans shall be available on site during construction.
4. **NOTIFICATION AND PHOTOGRAPH REQUIREMENT:** The Habitat Biologist, Christa Heller, shall receive pre and post project notification no less than three working days prior to start of work, and again within seven days of completion of work. Notification shall include the permit number, permittee's name, project location, and starting date for work or completion date of work. Photographs of this project shall be taken showing the site before work begins and after work is complete. Photos and all notifications shall be uploaded online to the Aquatic Protection Permitting System (APPS) under Post Permit Requirements.



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5. POST-CONSTRUCTION NOTIFICATION REQUIREMENT (for WDFWs Science Team): The permittee, agent or contractor shall contact the Washington Department of Fish and Wildlife by e-mail to HPAapplications@dfw.wa.gov; mail to Post Office Box 43234, Olympia, Washington 98501-1091; or fax to (360) 902-2946 within seven days of completion of the work. The notification shall include the permittee's name, project location, completion date for the work, and the Hydraulic Project Approval control number. The department may conduct a compliance inspection; however, the department will notify the permittee or agent prior to the inspection.

6. FISH KILL/WATER QUALITY PROBLEM NOTIFICATION: If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Department's Emergency Management Division at 1-800-258-5990, and to the Area Habitat Biologist listed below.

7. INVASIVE SPECIES CONTROL: To prevent the spread of invasive species, all gear and equipment used on site (including barge deck, hand tools, boots, waders, etc.) shall be thoroughly cleaned before arriving and leaving the project area. Any water and/or chemicals used to clean gear and equipment shall be properly disposed of. Additional information can be found in the WDFWs Invasive Species Management Protocols (November 2012), available online at <http://wdfw.wa.gov/publications/01490/wdfw01490.pdf>.

FISH REMOVAL AND STREAM BYPASS

8. If the stream is flowing at the time of installation, a temporary bypass or other approved stream diversion method to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.

9. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass, and at the downstream end of the bypass to prevent backwater from entering the work area.

10. If fish are present in the watercourse, the permittee shall capture and safely move food fish, game fish, and other fish life from the job site. The permittee shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water in the vicinity of the project site.

11. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened by one of the following:

- a) Perforated plate: 0.094 inch (maximum opening diameter).
- b) Profile bar: 0.069 inch (maximum width opening).
- c) Woven wire: 0.087 inch (maximum opening in the narrow direction).

The minimum open area for all types of fish guards is 27%. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment of juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.

12. The hydraulic capacity of the stream bypass must be equal to or greater than the peak flow event expected when the bypass will be operated.

13. Prior to releasing the water flow to the project area, all instream work shall be completed.

14. Upon completion of the project, all material used in the temporary bypass shall be removed from the site and the site returned to pre-project or improved conditions.



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WATER QUALITY AND EROSION CONTROL

15. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

16. Wastewater from project activities and water removed from within the work area shall be routed to an area landward of the OHWL to allow removal of fine sediment and other contaminants prior to being discharged to the stream or to wetlands associated with the stream.

17. Erosion control methods shall be used to prevent silt-laden water from entering the stream. These may include, but are not limited to, straw bales, biodegradable filter fabric, temporary sediment ponds, check dams of pea gravel-filled burlap bags or other material, and/or immediate mulching of exposed areas.

EQUIPMENT

18. Equipment used for this project shall be free of external petroleum-based products while working around the stream and shall be parked away from the stream when not in use.

19. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities along the stream.

20. Fueling of equipment shall not occur near state waters.

VEGETATION CLEARING

21. Disturbance of the streambed, banks, and their associated vegetation shall be limited to that necessary to perform the project.

22. All woody vegetation that is larger than four inches in diameter and longer than six feet in length (including rootwads) shall be retained on site to be used in site restoration. Retained woody vegetation may be positioned within the stream or placed on the streambank and/or in associated riparian areas.

CULVERT AND WING WALLS

23. Structures containing concrete shall be sufficiently cured prior to contact with water to avoid leaching. Fresh concrete shall not be allowed to come into contact with state waters.

24. Structure walls shall be buried sufficiently deep so they will not become exposed by scour within the culvert.

25. The culvert shall be installed and maintained to avoid inlet scouring and to prevent erosion of stream banks downstream of the project.

26. The culvert shall be installed to maintain structural integrity to the 100-year peak flow with consideration of the debris loading likely to be encountered.

27. Fill associated with the culvert installation shall be protected from erosion to the 100-year peak flow.

28. Riprap materials used for structure protection shall be clean, angular rock, which shall be installed to withstand the 100-year peak flow.



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29. The culvert facility shall be maintained by the owner(s) per RCW 77.57.030 to ensure continued, unimpeded fish passage. If the structure becomes a hindrance to fish passage, the owner(s) shall be responsible for obtaining a Hydraulic Project Approval and providing prompt repair. Financial responsibility for maintenance and repairs shall be that of the owner(s).

STREAM ENHANCEMENT

30. All existing bank protection rock and backfill material found within the project area that has failed and fallen into the stream shall be retrieved, properly disposed of and/or reused for the project should it meet design specifications.

31. LWM embedded in a bank or bed shall be left undisturbed except in the grading area for placement of the new structure. Any LWM encountered in the grading area may be reinstalled or repositioned to remain in the low flow channel.

32. All existing large woody material (LWM) shall be reinstalled or repositioned to remain in the low flow channel. Repositioned large woody material shall be placed or anchored to provide stable, functional fish habitat.

33. Installed streambed substrate shall be composed of clean, rounded, uniformly-graded gravel that is similar in size to the bed of the adjacent stream.

SITE RESTORATION

34. All bare earth areas shall be protected from erosion.

35. All erosion control materials that will remain onsite shall be composed of 100% biodegradable materials.

36. Affected streambed and bank areas shall be restored to pre-project or improved habitat configuration prior to the fall or spring dormant periods following project completion. The banks shall be revegetated with native or other approved woody species, as shown in the approved planting plan (Provision 3). All new vegetation shall be maintained as necessary for three years to ensure 80 percent or greater survival.

37. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of floodwater in an approved upland disposal site.

38. All trash and unauthorized fill, including concrete blocks or pieces, bricks, asphalt, metal, treated wood, glass and paper, below the OHWL in and around the project area, shall be removed and deposited above the limits of flood water in an approved upland disposal site.

LOCATION #1:	Site Name: SR 202 Little Bear Creek Crossing SR 202 Milepost 0.1 to 0.2 in SR 522 Vicinity, Woodinville, WA 98072					
WORK START:	March 3, 2015			WORK END:	March 2, 2020	
WRIA	Waterbody:			Tributary to:		
08 - Cedar - Sammamish	Little Bear Creek (rb)			Sammamish River		
1/4 SEC:	Section:	Township:	Range:	Latitude:	Longitude:	County:



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	09	26 N	05 E	47.7567788	-122.1650677	King
<u>Location #1 Driving Directions</u>						
The project is located along SR 202 within the City of Woodinville in King County. The project site can be reached by taking SR 522 eastbound from I-405 (exit 23A), take the right ramp for SR 202 East towards Redmond/Woodinville, arrive at the project site approximately after 0.1 miles, located between the SR 522 on-ramp and NE 177th PL.						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW. Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.



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MINOR MODIFICATIONS TO THIS HPA: You may request approval of minor modifications to the required work timing or to the plans and specifications approved in this HPA. Any approved minor modification will require issuance of a letter documenting the approval. A minor modification to the required work timing means any change to the work start or end dates of the current work season to enable project or work phase completion. Minor modifications will be approved only if spawning or incubating fish are not present within the vicinity of the project. You may request subsequent minor modifications to the required work timing. A minor modification of the plans and specifications means any changes in the materials, characteristics or construction of your project that does not alter the project's impact to fish life or habitat and does not require a change in the provisions of the HPA to mitigate the impacts of the modification. Minor modifications do not require you to pay additional application fees or be issued a new HPA. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a minor modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you do not use APPS you must submit a written request that clearly indicates you are seeking a minor modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the control number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, and the requestor's signature. Send by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234, or by email to HPAapplications@dfw.wa.gov. Do not include payment with your request. You should allow up to 45 days for the department to process your request.

MAJOR MODIFICATIONS TO THIS HPA: You may request approval of major modifications to any aspect of your HPA. Any approved change other than a minor modification to your HPA will require issuance of a new HPA. If you paid an application fee for your original HPA you must pay an additional \$150 for the major modification. If you did not pay an application fee for the original HPA, no fee is required for a change to it. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a major modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you do not use APPS you must submit a written request that clearly indicates you are requesting a major modification to an existing HPA. Written requests must include the name of the applicant, the name of the authorized agent if one is acting for the applicant, the control number of the HPA, the date issued, the permitting biologist, the requested changes to the HPA, the reason for the requested change, the date of the request, payment of the application the original application was subject to an application fee, and the requestor's signature. Send your written request and payment, if applicable, by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234. You should allow up to 45 days for the department to process your request.

APPEALS INFORMATION

If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2534 for more information.



HYDRAULIC PROJECT APPROVAL

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Issued Date: March 03, 2015
Project End Date: March 02, 2020

Permit Number: 2015-4-123+01
FPA/Public Notice Number: N/A
Application ID: 2699

A. INFORMAL APPEALS: WAC 220-110-340 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee will conduct an informal hearing and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-110-350 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request a formal appeal of that action. You must send your request for a formal appeal to the clerk of the Pollution Control Hearings Boards and serve a copy on WDFW within 30 days from the date you receive notice of the decision. You may serve WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, you may request a formal appeal within 30 days from the date you receive the Director's or designee's written decision in response to the informal appeal.

C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.

Habitat Biologist Christa.Heller@dfw.wa.gov
Christa Heller 425-313-5681

for Director
WDFW

APPENDIX D

Department of the Army
Section 404 Nationwide 27



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

FEB 26 2015

Mr. John Maas
Washington State Department of Transportation
Post Office Box 330310
Mail Stop NB82-0138
Seattle, Washington 98133-9710

Reference: NWS-2014-205
WA St Dept of Transportation

Dear Mr. Maas:

We have reviewed your application to replace a fish barrier with a fully fish-passable culvert on State Route 202 in Little Bear Creek at the City of Woodinville, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 27, Aquatic Habitat Restoration, Establishment, and Enhancement Activities (Federal Register February 21, 2012, Vol. 77, No. 34), authorizes your proposal as depicted on the enclosed drawings dated January 22, 2015.

In order for this authorization to be valid, you must ensure the work is performed in accordance with the enclosed *NWP 27, Terms and Conditions* and the following special conditions:

a. Noxious and non-native invasive weeds shall be controlled in all monitoring years. Non-native invasives (Fountain butterfly bush, Canadian thistle, Bull thistle, Scot's broom, English ivy, English holly, Reed canarygrass, English laurel, Evergreen blackberry, and Himalaya or Armenian blackberry) shall not exceed 25 percent cover. Non-native knotweeds shall be eradicated.

b. This U.S. Army Corps of Engineers (Corps) permit does not authorize you to take a threatened or endangered species. In order to legally take a listed species, you must have a separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or ESA Section 7 consultation Biological Opinion (BO) with non-discretionary "incidental take" provisions with which you must comply). The Endangered Species Act Section 7 Formal Consultation and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for the Washington State Department of Transportation Preservation, Improvement, and Maintenance Activities BO prepared by the National Marine Fisheries Service (NMFS) contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with the specified "incidental take" in the BO (NMFS Reference

Number 2010/00293). Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the BO and conditions and minimization measures included in the *WSDOT NMFS Project Notification Form* dated February 13, 2014. These terms and conditions are incorporated by reference in this permit. Failure to comply with the commitments made in these documents constitutes non-compliance with the ESA and your Corps permit. The NMFS is the appropriate authority to determine compliance with ESA.

c. In order to protect the listed threatened and endangered species in the project area, the permittee may conduct the authorized activities in the work window as agreed to and documented in writing through consultation by the National Marine Fisheries Service (NMFS) in any year this permit is valid. If changes to the originally authorized work window are proposed, the permittee must re-coordinate these changes with the NMFS and receive written concurrence on the changes. Copies of the concurrence must be sent to the U.S. Army Corps of Engineers, Regulatory Branch, within 10 days of the date of the revised concurrence.

d. You shall implement and abide by the restoration plan, *State Route 202: Little Bear Creek-Fish Barrier Removal Project Aquatic Resources Restoration Report* dated December 24, 2014.

The Federal Highway Administration (FHWA) completed Section 7 Endangered Species Act (ESA) consultation and Magnuson Stevens Act essential fish habitat consultation (EFH) for its involvement in the proposed activity [National Marine Fisheries Service (NMFS) reference 2010/00293]. For the purpose of this Department of the Army authorization, we have determined this project will comply with the requirements of these laws provided you comply with all of the permit general and special conditions. We have determined the permit action is sufficiently addressed in their ESA and EFH consultation documents. By this letter we are advising you and the NMFS, in accordance with 50 CFR 402.07 and 50 CFR 600.920(b), that FHWA has served as the lead Federal agency for the ESA and EFH consultation responsibilities for the activity described above.

We are unable to determine whether or not your project requires individual Water Quality Certification (WQC) and/or a Coastal Zone Management (CZM) consistency determination response from the Washington State Department of Ecology (Ecology). Before you may proceed with the work authorized by this NWP, you must contact Ecology regarding these requirements at: Washington Department of Ecology, Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7660; telephone: (360) 407-6068; or email: ecyrefedpermits@ecy.wa.gov.

If more than 180 days pass from when you provide Ecology a copy of this letter and request your individual WQC and CZM consistency determination concurrence review, your

requirement to obtain an individual WQC and CZM consistency determination response becomes waived. You may then proceed to construction.

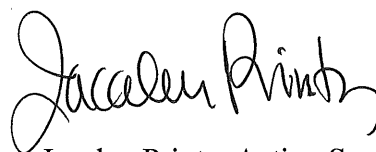
We have prepared and enclosed a *Preliminary Jurisdictional Determination* (JD) dated January 26, 2015, which is a written indication that wetlands and waterways within your project area may be waters of the U.S. Such waters will be treated as jurisdictional waters of the U.S. for purposes of computation of impact area and compensatory mitigation requirements associated with your permit application. If you believe the Preliminary JD is inaccurate, you may request an Approved JD, which is an official determination regarding the presence or absence of waters of the United States. If one is requested, please be aware that we may require the submittal of additional information to complete an approved JD and work authorized in this letter may not occur until the approved JD has been finalized.

Our verification of this NWP authorization is valid until March 18, 2017, unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date and you have commenced or are under contract to commence this activity before March 18, 2017, you will have until March 18, 2018, to complete the activity under the enclosed terms and conditions of this NWP. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act. You must also obtain all local, State, and other Federal permits that apply to this project.

You are cautioned that any change in project location or plans will require that you submit a copy of the revised plans to this office and obtain our approval before you begin work. Deviating from the approved plans could result in the assessment of criminal or civil penalties.

Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form. Thank you for your cooperation during the permitting process. If you have any questions, please contact Ms. Rebecca McAndrew at rebecca.e.mcandrew@usace.army.mil or (206) 764-6912.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacalen Printz". The signature is fluid and cursive, with the first name "Jacalen" and last name "Printz" clearly distinguishable.

Jacalen Printz, Acting Section Chief
Special Programs Section

Enclosures

APPENDIX E

Department of Ecology
Section 401 Letter of
Verification



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

March 3, 2015

John Maas
Department of Transportation
Northwest Region
P.O. Box 330310
Seattle, WA 98133-9710

**RE: U.S. Army Corps of Engineers Reference # NWS-2014-205
Nationwide Permit #27 for SR 202 Little Bear Creek Fish Barrier Removal in King
County, Washington**

Dear Mr. Maas:

The Department of Ecology (Ecology) has received the U.S. Army Corps of Engineers' letter dated February 26, 2015, approving coverage under Nationwide Permit (NWP) #27 for the above project.

Upon review of the JARPA received January 28, 2015, Ecology has determined that the project meets the requirements for Washington State 401 Water Quality Certification and Coastal Zone Management Act Consistency under NWP #27. Therefore, an Individual 401 certification will not be required for this project and you may proceed as directed by the Corps.

Any changes to your project that would impact water quality should be submitted in writing to Ecology before work begins for additional review.

This letter does not exempt you from other requirements of federal, state, and local agencies.

Please contact me if you have any questions regarding this letter at 360-407-7298 or e-mail pkel461@ecy.wa.gov

Sincerely,

Penny Kelley
Transportation Liaison
Shorelands and Environmental Assistance Program



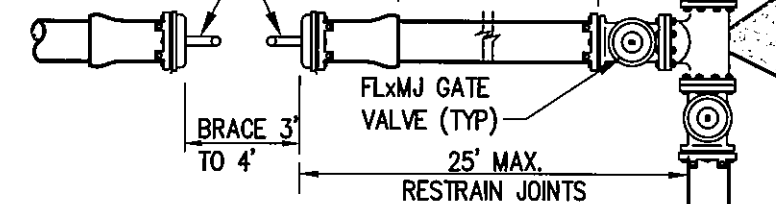
APPENDIX F

Woodinville Water
District Standard Plans
and Record Drawing

INSTALL 2" DIA. TEMP
BLOW OFF FOR 8" DIA.
AND SMALLER AND 3" FOR
LARGER THAN 8" DIA.

INSTALL FIELD LOCK GASKET
IF PIPE JOINT OCCURS BEFORE
TEMP BLOW OFF ASSEMBLY

2" GALV PIPING
2" GATE VALVE
2" CAP (IP THREADS).
SUBSTITUTE 3" FOR
FOR ABOVE WHEN MAINLINE
LARGER THAN 8".



LONG PATTERN DUCTILE IRON SLEEVE (D.I.
PIPE) ROMAC LONG PATTERN FLEXIBLE
COUPLING (AC AND CAST IRON PIPE)

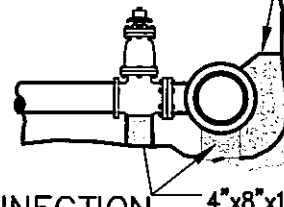
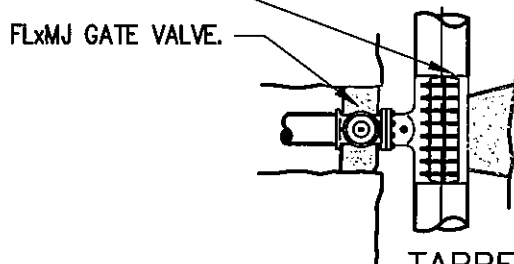
TAPPING SLEEVE (SEE
NOTES 1&2)

FLxMJ GATE VALVE.

CUT-IN CONNECTION
NOT TO SCALE

GATE VALVE FL x MJ

CONC. THRUST
BLOCKING (SEE STD.
PLAN 3)



TAPPED CONNECTION
NOT TO SCALE

4"x8"x16" CONCRETE BLOCKS.
SHIM W/ WEDGES TO SUPPORT PIPE.

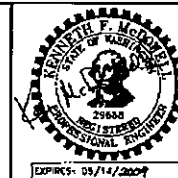
NOTES:

1. CONTRACTOR SHALL SUBMIT REQUEST FOR SHUT DOWN (TIME AND DATE - SEE NOTE 8) IN WRITING ON THE DISTRICT'S STANDARD FORM.
2. TAPPED CONNECTIONS NOT ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE DISTRICT.
3. NO CONNECTION WILL BE ALLOWED UNTIL ALL PRESSURE TESTING COMPLETED, AND SATISFACTORY BACTERIOLOGICAL TEST RECEIVED. SEE CROSS CONNECTION CONTROL SECTION IN SPECIFICATIONS.
4. TAPPING SLEEVE TO BE STAINLESS STEEL FOR AC PIPE AND EPOXY COATED STEEL FOR DUCTILE OR CAST IRON PIPE. CLOSEST EDGE OF TAPPING SLEEVE MUST BE 3' (MIN.) FROM COUPLING ON AC PIPE.
5. SEE STANDARD PLANS 6 (VALVE BOX), 3 (THRUST BLOCKING) & 2 (PIPE AND FITTING RESTRAINT REQUIREMENTS.)
6. BACKFILL PER JURISDICTIONAL REQUIREMENTS WHEN IN ASPHALT. ALL OTHER AREAS PER THE STANDARD SPECIFICATIONS.
7. TEMP BLOW OFF'S MUST BE PROTECTED FROM DAMAGE. PLACE IN TRAFFIC BOX IF REQUIRED.
8. WATER OUTAGE ONLY ALLOWED TUESDAY THROUGH THURSDAY 9:00AM TO 4:00PM. (7) WORKING DAYS NOTICE REQUIRED. AFTER HOUR CONNECTION MAY BE REQUIRED IF A BUSINESS, SCHOOL, ETC. IS IMPACTED.
9. ALL MJ JOINTS TO BE MEGALUG OR EQUAL.
10. SIMILAR TEMP B.O. REQUIREMENTS FOR TAPPED CONNECTIONS. LOCATE BLOW OFF OUT OF ASPH. WHEN POSSIBLE.
11. ALL PIPE, FITTINGS AND OTHER COMPONENTS USED IN CONNECTIONS AND THE STUB ON TO SITE SHALL BE STERILE SWABBED. CONNECTIONS SHALL BE TESTED UNDER FULL LINE PRESSURE PRIOR TO BACKFILL. THE STUB ONTO SITE SHALL BE PRESSURE TESTED (AT 200PSI) IN THE PRESENCE OF THE DISTRICT INSPECTOR.



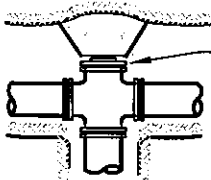
**Woodinville
Water District**

CONNECTION REQUIREMENTS



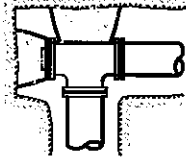
**WATER STD.
PLAN NO. 1**

**REVISION DATE
12-11**

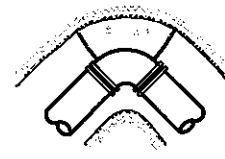


STEEL PLATE. FORM
TO ALLOW FOR
BOLT REMOVAL

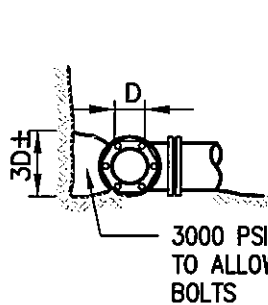
CROSS WITH PLUG



PLUGGED TEE

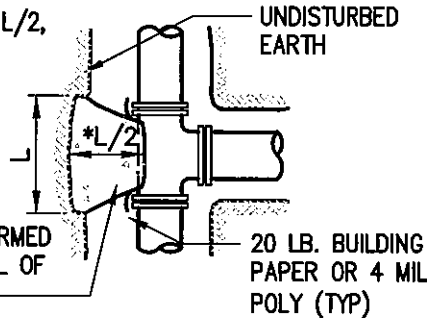


HORIZONTAL BEND

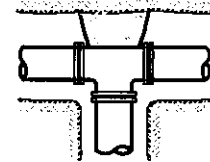


ELEVATION

* USE 12" OR L/2,
WHICHEVER IS
GREATER.



PLAN



TEE

THRUST BLOCK TABLE

PIPE SIZE	TEE OR END PLUG	90°	45°	22 1/2°	11 1/4°
4" OR 6"	3	4	2	2	2
8"	6	7	4	2	2
10" OR 12"	12	16	9	5	3
16"	21	29	16	8	4

NOTES:

MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH (SQUARE FEET)

1. BEARING AREA OF CONC. THRUST BLOCK BASED ON 200 PSI PRESSURE AND SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING. SIDES SHALL BE FORMED WITH PLYWOOD OR EQUIVALENT.
4. THRUST BLOCK SHALL BEAR AGAINST FITTING ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT DISMANTLING OF JOINTS.
5. CONCRETE TO BE 3000 PSI MINIMUM. PRE-MIX CONCRETE IS PREFERRED. IF CONCRETE IS HAND MIXED THE PROPORTIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COMPRESSIVE TESTS OF "HAND MIXED" CONCRETE MAY BE REQUIRED. PRE-INSPECTION OF BLOCKING AREA REQUIRED PRIOR TO PLACEMENT OF CONCRETE.
6. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
7. SEE STANDARD PLAN NO. 2 FOR PIPE AND FITTING RESTRAINT REQUIREMENTS.
8. INSPECTION REQUIRED PRIOR TO BACKFILL.



**Woodinville
Water District**

**THRUST BLOCKING
REQUIREMENTS**



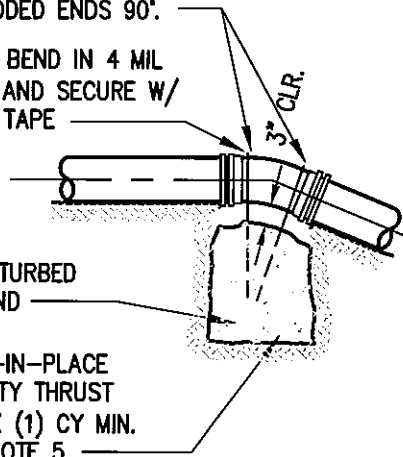
**WATER STD.
PLAN NO. ③**
**REVISION DATE
11-12**

¾" 'COR-TEN' OR #4 REBAR.
BEND LAST FOOT OF
EMBEDDED ENDS 90°.

WRAP BEND IN 4 MIL
POLY AND SECURE W/
DUCT TAPE

UNDISTURBED
GROUND

CAST-IN-PLACE
GRAVITY THRUST
BLOCK (1) CY MIN.
SEE NOTE 5.

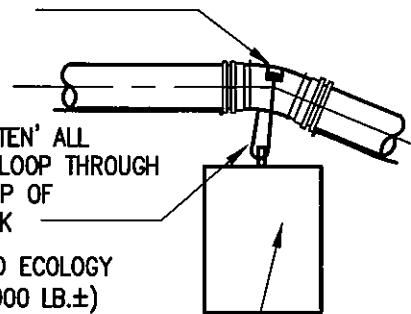


CAST IN PLACE

PIPE CLAMP (DIAM. OF PIPE).
SECURE ALLTHREAD W/ (2)
¾" HEX NUTS

¾" 'COR-TEN' ALL
THREAD- LOOP THROUGH
PICK STRAP OF
ECO-BLOCK

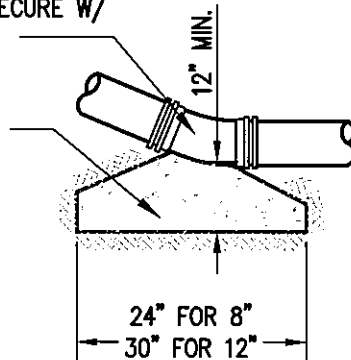
FULL SIZED ECOLOGY
BLOCK (3000 LB.±)
PERPENDICULAR TO
TRENCH & "KEYED" INTO
NATIVE GROUND



ECOLOGY BLOCK OPTION

WRAP BEND IN 4 MIL
POLY AND SECURE W/
DUCT TAPE

POURED IN PLACE
CONC. SEE NOTE 5.



REVERSE VERTICAL BENDS

RESTRAINED JOINT REQUIREMENTS

	MIN. REQUIRED DISTANCE (LF) PIPE RESTRAINT EA. SIDE WITHOUT VERTICAL BLOCKING		MIN. REQUIRED DISTANCE (LF) PIPE RESTRAINT EA. SIDE WITH VERTICAL BLOCKING	
BEND SIZE	4" TO 8"	12"	4" TO 8"	10" TO 12"
11 1/4°	30	30	0	0
22 1/2°	40	40	10	20
45°	NA	NA	20	30

NOTES:

1. DRAWING SUBMITTAL REQUIRED FOR APPROVAL BY THE DISTRICT WHEN PIPE DIAMETER EXCEEDS 12" OR VERTICAL DEFLECTION MORE THAN 45 DEGREES.
2. EBAA IRON MEG-A-LUGS OR EQUAL REQUIRED ON ALL MECHANICAL JOINTS.
3. POOR GROUND CONDITIONS WILL REQUIRE ADDITIONAL RESTRAINT, (AS DIRECTED BY THE DISTRICT).
4. ALL REVERSE VERTICAL BENDS SHALL BE BLOCKED AS SHOWN.
5. CONCRETE TO BE MIN. 3000 PSI COMPRESSIVE STRENGTH.



**Woodinville
Water District**

**VERTICAL BLOCKING
RESTRAINT REQUIREMENTS**



**WATER STD.
PLAN NO. 4**

**REVISION DATE
12-11**

1" SERVICE MATERIAL LIST

- ① SERVICE SADDLE
ROMAC 101-S, FORD FS101 W/ I.P. THREADS & STAINLESS STEEL STRAP
- ② BALL CORP. STOP (W/ 1" I.P. THREADS)
AY MCDONALD 73131B W/ 74754-3Q COMP. W/ STIFFENER
FORD FB 500 W/ C84-44-Q-NL COMP.
MUELLER B-20013 W/ H-15456 INSTA-TITE
- ③ SERVICE PIPE
1" DRISCOPIPE ULTRA LINE 5100 HIGH DENSITY POLYETHYLENE SERVICE PIPE MEETING AWWA C901 REQUIREMENTS; PE 3408 MATERIAL, SDR7, PRESSURE CLASS 200 PSI, I.P.S. OR APPROVED EQUAL
- ④ BALL ANGLE METER STOP (W/ 1" I.P. THREADS & CONNECTION TO 1" POLY PIPE)
FOR 1" METER
1"x1" AY MCDONALD 74604B W/ 1" 74754 3H HANDYLOK FITTING
1"x1" MUELLER B-24265 W/ H-15426 INSTA-TITE

FOR 3/4" METER

1"x3/4"x3/4" 74604B W/ 1" 74753 3H HANDLOK
3/4"x1" MUELLER B-24265 W/ H-15426 INSTA-TITE

NOTE: ITEMS ④ ⑤

SHALL BE SIZED TO
MATCH 3/4" OR 1"
METER PRIOR TO
INSTALLATION

OR APPROVED EQUAL

- ⑤ BALL ANGLE METER STOP (W/ 1" I.P. THREADS & CONNECTION TO 1" COPPER PIPE)

FOR 1" METER

1"x1" MUELLER 110 COMPRESSION FITTING OR APPROVED EQUAL

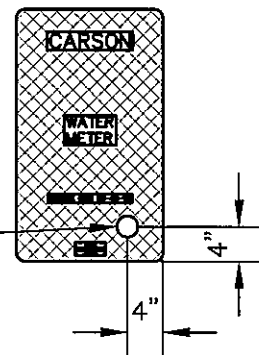
FOR 3/4" METER

3/4"x1" MUELLER 110 COMPRESSION FITTING OR APPROVED EQUAL

- ⑥ METER BOX

OLD CASTLE 1324BCF-12 ENCLOSURE W/ DUCTILE IRON LID
(H2O LOADING) & 1 7/8" DIAMETER AMR HOLE PER DIMENSIONS
SHOWN TO RIGHT. NO READER FLAP

1 7/8" DIAMETER
AMR HOLE



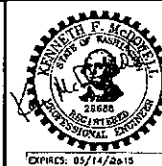
- ⑦ DISTRICT WILL PROVIDE (1) METER IDLER PER TYPICAL INSTALLATION (IE. 1" OR 3/4") THE CONTRACTOR SHALL ENSURE THE METER IDLER IS PARALLEL TO THE METER BOX AND CENTERED IN BOTH DIRECTIONS.

NOTE: ALL BRASS COMPONENTS SHALL CONFORM TO THE LATEST VERSIONS OF NSF 61 AND ANSI/AWWA STANDARD C800 AND SHALL BE STAMPED/ EMOSSSED TO SHOW THE PRODUCT IS MADE FROM A NO LEAD ALLOY.



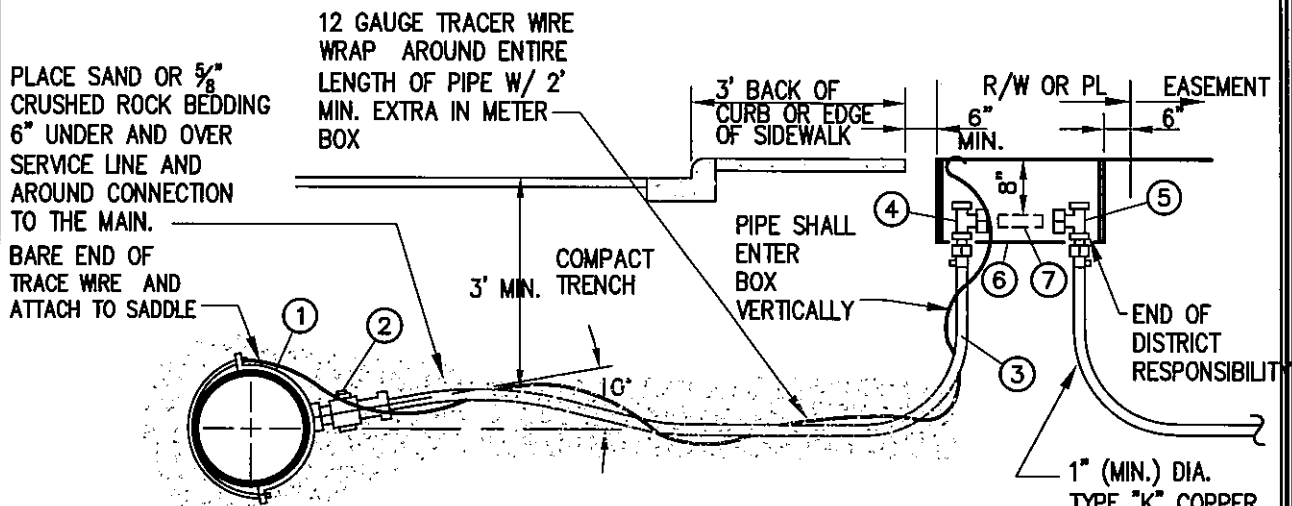
**Woodinville
Water District**

**1" POLY SERVICE
MATERIAL LIST**



**WATER STD.
PLAN NO. 13M**

REVISION DATE
11-14



SEE STANDARD PLAN 13M FOR MATERIAL LIST
 NOTE – CIRCLED NUMBERS ABOVE REFER TO MATERIALS LISTED ON STD PLAN 13M.

NOTES:

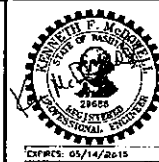
1. CONTRACTOR TO PROVIDE ALL MATERIALS. SERVICES SHALL BE TESTED WITH THE MAINLINE.
2. TRACE WIRES MUST BE VISIBLE IN METER BOX.
3. NO SPLICES ALLOWED IN SERVICE LINE.
4. CORP STOP LOCATION SHALL BE OFFSET PRECISELY FOR GPS SURVEY.
5. LOCATE METER BOX OUT OF PAVING OR SIDEWALKS. METER BOX SHALL BE PERPENDICULAR TO THE SIDEWALK OR AS DIRECTED BY THE DISTRICT.
6. CONTRACTOR SHALL SCHEDULE SERVICE FLUSH WITH THE DISTRICT'S INSPECTOR.
7. METER INSTALLATION BY THE DISTRICT. METER WILL NOT BE SET UNTIL PROJECT ACCEPTED.
8. THE BACKSIDE OF ALL SERVICES SHALL BE PLUMBED IN TYPE "K" COPPER AND HAVE BACKFLOW PROTECTION. DOMESTIC WATER SHALL CONNECT TO A RPBA PER STD. PLAN 19. IRRIGATION AND FIRE METERS SHALL CONNECT TO A DCVA PER STD PLAN 21.
9. IF FIRE OR IRRIGATION SERVICE IS REQUIRED, IT SHALL BE A SEPARATE DEDICATED SERVICE. FIRE SERVICE SHALL BE SIZED ACCORDING TO FLOW REQUIREMENTS NEEDED.

NOTE: ALL BRASS COMPONENTS SHALL CONFORM TO THE LATEST VERSIONS OF NSF 61 AND ANSI/AWWA STANDARD C800 AND SHALL BE STAMPED/ EMOSSOED TO SHOW THE PRODUCT IS MADE FROM A NO LEAD ALLOY.



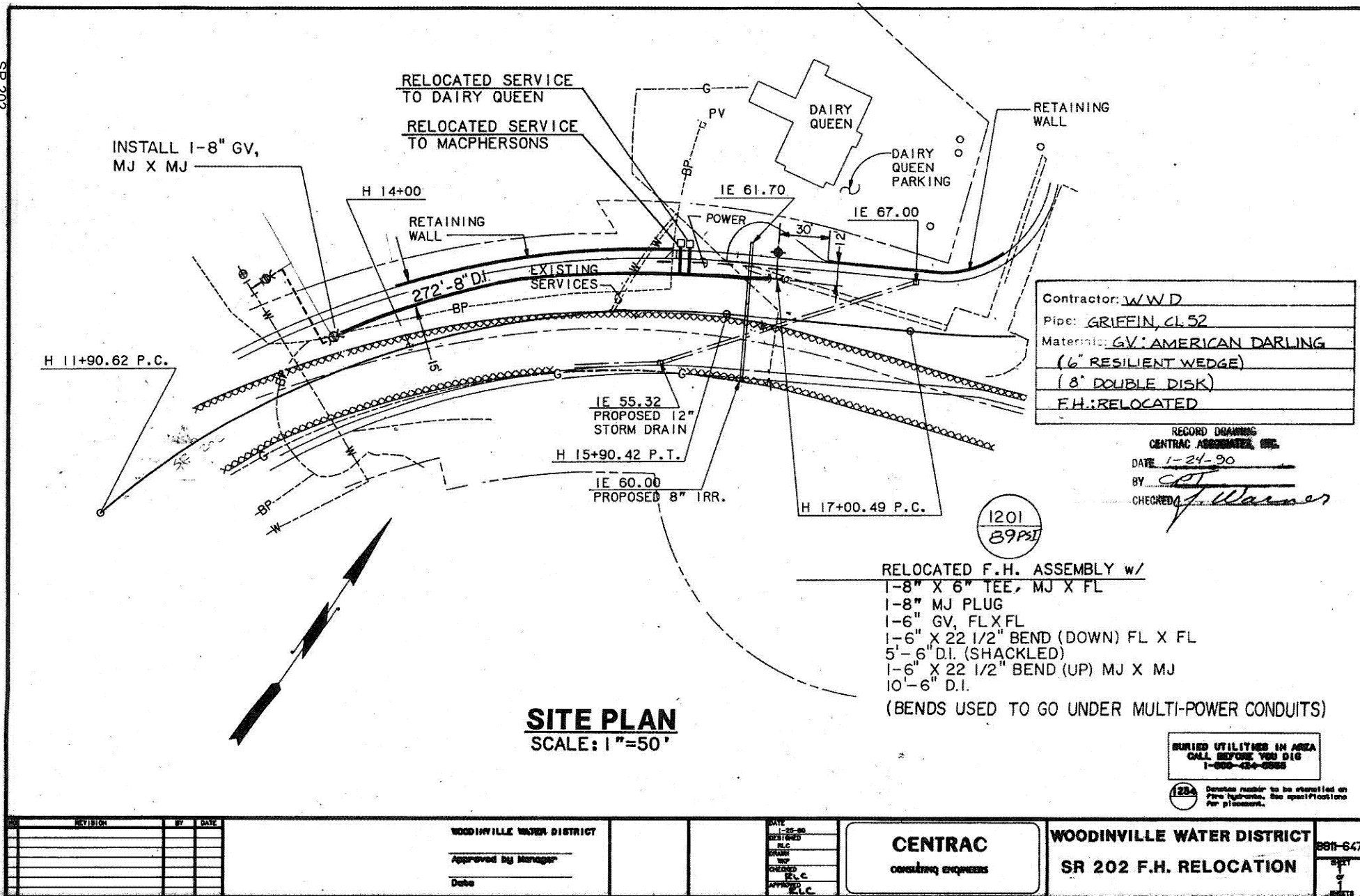
**Woodinville
Water District**

**1" COMMERCIAL
SERVICE CONNECTION**



**WATER STD.
PLAN NO. 16**

**REVISION DATE
11-13**



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 contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or

general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or

voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

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

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

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

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

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

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

- a. To the extent that qualified persons regularly residing in the area are not available.
- b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.
- c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

AMENDMENT
REQUIRED CONTRACT PROVISIONS
(Exclusive of Appalachian Contracts)

FEDERAL-AID CONSTRUCTION CONTRACTS

The Federal–Aid provisions are supplemented with the following:

XII. Cargo Preference Act

1. U.S. Department of Transportation Federal Highway Administration memorandum dated December 11, 2015 requires that all federal-aid highway programs awarded after February 15, 2016 must comply with the Cargo Preference Act and its regulation of 46 CFR 381.7 (a)-(b).

General Decision Number: WA160001 02/19/2016 WA1

Superseded General Decision Number: WA20150001

State: Washington

Construction Type: Highway

Counties: Washington Statewide.

HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin Counties)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	02/19/2016

CARP0001-008 06/01/2015

	Rates	Fringes
CARPENTER		
GROUP 1.....	\$ 27.61	14.00
GROUP 2.....	\$ 41.86	14.49
GROUP 3.....	\$ 32.97	14.00
GROUP 4.....	\$ 31.94	14.00
GROUP 5.....	\$ 73.44	14.00
GROUP 6.....	\$ 35.02	14.00
GROUP 7.....	\$ 36.72	14.00
GROUP 8.....	\$ 33.27	14.00
GROUP 9.....	\$ 35.02	14.00

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/PILEDRIIVER: SPOKANE (127 E. AUGUSTA AVE.) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: WENATCHEE (27 N. CHELAN) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: COEUR D' ALENE (1839 N. GOVERNMENT WAY) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: MOSCOW (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, KLUCKITAT,
LEWIS(Piledriver only), PACIFIC (South of a straight line made
by extending the north boundary line of Wahkiakum County west
to Willapa Bay to the Pacific Ocean), SKAMANIA AND WAHAKIAKUM
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
PILEDRIERS.....	\$ 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 06/01/2015

	Rates	Fringes
CARPENTER		
CENTRAL WASHINGTON:		
CHELAN, DOUGLAS (WEST OF		
THE 120TH MERIDIAN),		
KITITITAS, OKANOGAN (WEST		
OF THE 120TH MERIDIAN) AND		
YAKIMA COUNTIES		
CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 40.46	13.66
CARPENTERS.....	\$ 40.36	13.66
DIVERS TENDER.....	\$ 35.02	14.00
DIVERS.....	\$ 73.44	14.00
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 41.86	13.66
PILEDRIIVER, DRIVING,		
PULLING, CUTTING, PLACING		
COLLARS, SETTING, WELDING		
OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 40.61	13.66

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL
CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS

Hourly Zone Pay shall be paid on jobs located outside of the
free zone computed from the city center of the following
listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT
AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall,
Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

WA160001 Modification 1

Federal Wage Determinations for Highway Construction

CARP0770-006 06/01/2015

	Rates	Fringes
CARPENTER		
WESTERN WASHINGTON:		
CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS (excludes piledrivers only), MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES		
BRIDGE CARPENTERS.....	\$ 40.36	13.66
CARPENTERS ON CREOSOTE MATERIAL.....	\$ 40.46	13.66
CARPENTERS.....	\$ 40.36	13.66
DIVERS TENDER.....	\$ 44.67	13.66
DIVERS.....	\$ 93.56	13.66
MILLWRIGHT AND MACHINE ERECTORS.....	\$ 41.86	13.66
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING.....	\$ 40.61	13.66

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS)

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

WA160001 Modification 1

Federal Wage Determinations for Highway Construction

ELEC0046-001 02/01/2016

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 46.87	3%+15.96
ELECTRICIAN.....	\$ 45.77	3%+17.91

ELEC0048-003 01/01/2015

CLARK, KLINKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 40.20	21.50

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 01/01/2015

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 40.20	21.50

ELEC0073-001 07/01/2015

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN
COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 34.10	16.68
ELECTRICIAN.....	\$ 31.00	16.68

ELEC0076-002 09/01/2014

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON
COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.94	23.36
ELECTRICIAN.....	\$ 34.49	23.36

ELEC0112-005 06/01/2015

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA
WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.74	18.65
ELECTRICIAN.....	\$ 38.80	18.59

ELEC0191-003 06/01/2014

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.23	17.73
ELECTRICIAN.....	\$ 40.21	17.73

ELEC0191-004 06/01/2014

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.82	17.63
ELECTRICIAN.....	\$ 37.11	17.63

ENGI0302-003 06/01/2014

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.....	\$ 38.39	17.39
Group 1AA.....	\$ 38.96	17.39
Group 1AAA.....	\$ 39.52	17.39
Group 1.....	\$ 37.84	17.39
Group 2.....	\$ 37.35	17.39
Group 3.....	\$ 36.93	17.39
Group 4.....	\$ 34.57	17.39

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

WA160001 Modification 1

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, Barber Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrpers-concrete and carry-all; Service engineer-equipment; Trenching machines; Truck Crane Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete finish 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 06/01/2015

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN),
COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY,
FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH
MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN
AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 26.16	13.55
GROUP 2.....	\$ 26.48	13.55
GROUP 3.....	\$ 27.09	13.55
GROUP 4.....	\$ 27.25	13.55
GROUP 5.....	\$ 27.41	13.55
GROUP 6.....	\$ 27.69	13.55
GROUP 7.....	\$ 27.96	13.55
GROUP 8.....	\$ 29.06	13.55

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; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yds.); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker; Lime Batch Tank Operator (REcycle Train); Lime Brain Operator (Recycle Train); Mobile Crusher Operator (Recycle Train)

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. & over); Whirleys & Hammerheads, ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Goldhofer, Shaurerly and Similar); Ultra High Pressure Waterjet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)

180 ft to 250 ft \$.50 over scale

Over 250 ft \$.80 over scale

NOTE:

In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom.

HAZMAT:

Anyone working on HAZMAT jobs, working with supplied air shall receive \$1.00 an hour above classification.

ENGI0612-012 06/01/2014

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 OPERATOR		
GROUP 1A.....	\$ 38.39	17.40
GROUP 1AA.....	\$ 38.96	17.40
GROUP 1AAA.....	\$ 39.52	17.40
GROUP 1.....	\$ 37.84	17.40
GROUP 2.....	\$ 37.35	17.40
GROUP 3.....	\$ 36.93	17.40
GROUP 4.....	\$ 34.57	17.40

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in
height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge
type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels,
excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building
work; Excavator, shovel, backhoes over 3 yards and under 6
yards; Hard tail end dump articulating off-road equipment
45 yards and over; Loader- overhead, 6 yards to, but not
including, 8 yards; Mucking machine, mole, tunnel, drill
and/or shield; Quad 9 HD 41, D-10; Remote control operator
on rubber tired earth moving equipment; Rollagon; Scrapers-
self-propelled 45 yards and over; Slipform pavers;
Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-Overhead, bridge type, 20 tons through
44 tons; Chipper; Concrete pump-truck mount with boom
attachment; Crusher; Deck engineer/deck winches (power);
Drilling machine; Excavator, shovel, backhoe-3 yards and
under; Finishing machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Loaders, overhead under 6
yards; Loaders-plant feed; Locomotives-all; Mechanics- all;
Mixers, asphalt plant; Motor patrol graders, finishing;
Piledriver (other than crane mount); Roto-mill, roto-
grinder; Screedman, spreader, topside operator-Blaw Knox,
Cedar Rapids, Jaeger, Caterpillar, Barber Green;
Scraper-self- propelled, hard tail end dump, articulating
off-road equipment- under 45 yards; Subgrader trimmer;
Tractors, backhoe over 75 hp; Transfer material service
machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane
operator/driver-100 tons and over; Truck Mount Portable
Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing, Class "D" Suit - Base wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0701-002 01/01/2015

CLARK, COWLITZ, KLIKKITAT, PACIFIC (SOUTH), SKAMANIA, AND
WAHKIAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 39.47	14.10
GROUP 1A.....	\$ 41.44	14.10
GROUP 1B.....	\$ 43.42	14.10
GROUP 2.....	\$ 37.58	14.10
GROUP 3.....	\$ 36.44	14.10
GROUP 4.....	\$ 35.36	14.10
GROUP 5.....	\$ 34.13	14.10
GROUP 6.....	\$ 30.94	14.10

Zone Differential (add to Zone 1 rates):

Zone 2 - \$3.00

Zone 3 - \$6.00

For the following metropolitan counties: MULTNOMAH;
CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA;
CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS
INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE;
GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1

Concrete Batch Plant and or Wet mix three (3) units or more; Crane, Floating one hundred and fifty (150) ton but less than two hundred and fifty (250) ton; Crane, two hundred (200) ton through two hundred ninety nine (299) ton with two hundred foot (200') boom or less (including jib, inserts and/or attachments); Crane, ninety (90) ton through one hundred ninety nine (199) ton with over two hundred (200') boom Including jib, inserts and/or attachments); Crane, Tower Crane with one hundred seventy five foot (175') tower or less and with less than two hundred foot (200') jib; Crane, Whirley ninety (90) ton and over; Helicopter when used in erecting work

Group 1A

Crane, floating two hundred fifty (250) ton and over; Crane, two hundred (200) ton through two hundred ninety nine (299) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Crane, three hundred (300) ton through three hundred ninety nine (399) ton; Crane, Tower Crane with over one hundred seventy five foot (175') tower or over two hundred foot (200') jib; Crane, tower Crane on rail system or 2nd tower or more in work radius

Group 1B

Crane, three hundred (300) ton through three hundred ninety nine (399) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Floating crane, three hundred fifty (350) ton and over; Crane, four hundred (400) ton and over

Group 2

Asphalt Plant (any type); Asphalt Roto-Mill, pavement profiler eight foot (8') lateral cut and over; Auto Grader or "Trimmer"; Blade, Robotic; Bulldozer, Robotic Equipment (any type); Bulldozer, over one hundred twenty thousand (120,000) lbs. and above; Concrete Batch Plant and/or Wet Mix one (1) and two (2) drum; Concrete Diamond Head Profiler; Canal Trimmer; Concrete, Automatic Slip Form Paver (Assistant to the Operator required); Crane, Boom Truck fifty (50) ton and with over one hundred fifty foot (150') boom and over; Crane, Floating (derrick barge) thirty (30) ton but less than one hundred fifty (150) ton; Crane, Cableway twenty-five (25) ton and over; Crane, Floating Clamshell three (3) cu. Yds. And over; Crane, ninety (90) ton through one hundred ninety nine (199) ton up to and including two hundred foot (200') of boom (including jib inserts and/or attachments); Crane, fifty (50) ton through eighty nine (89) ton with over one hundred fifty foot (150') boom (including jib inserts and/or attachments); Crane, Whirley under ninety (90) ton; Crusher Plant; Excavator over one hundred thirty thousand (130,000) lbs.; Loader one hundred twenty thousand (120,000) lbs. and above; Remote Controlled Earth Moving Equipment; Shovel, Dragline, Clamshell, five (5) cu. Yds. And over; Underwater Equipment remote or otherwise, when used in construction work; Wheel Excavator any size

Group 3

Bulldozer, over seventy thousand (70,000) lbs. up to and including one hundred twenty thousand (120,000) lbs.; Crane, Boom Truck fifty (50) ton and over with less than one hundred fifty foot (150') boom; Crane, fifty (50) ton through eighty nine (89) ton with one hundred fifty foot (150') boom or less (including jib inserts and/or attachments); Crane, Shovel, Dragline or Clamshell three (3) cu. yds. but less than five (5) cu. Yds.; Excavator over eighty thousand (80,000) lbs. through one hundred thirty thousand (130,000) lbs.; Loader sixty thousand (60,000) lbs. and less than one hundred twenty thousand (120,000) lbs.

Group 4

Asphalt, Screed; Asphalt Paver; Asphalt Roto-Mill, pavement profiler, under eight foot (8') lateral cut; Asphalt, Material Transfer Vehicle Operator; Back Filling Machine; Backhoe, Robotic, track and wheel type up to and including twenty thousand (20,000) lbs. with any attachments; Blade (any type); Boatman; Boring Machine; Bulldozer over twenty thousand (20,000) lbs. and more than one hundred (100) horse up to seventy thousand (70,000) lbs.; Cable-Plow (any type); Cableway up to twenty five (25) ton; Cat Drill (John Henry); Chippers; Compactor, multi-engine; Compactor, Robotic; Compactor with blade self-propelled; Concrete, Breaker; Concrete, Grout Plant; Concrete, Mixer Mobile; Concrete, Paving Road Mixer; Concrete, Reinforced Tank Banding Machine; Crane, Boom Truck twenty (20) ton and under fifty (50) ton; Crane, Bridge Locomotive, Gantry and Overhead; Crane, Carry Deck; Crane, Chicago Boom and similar types; Crane, Derrick Operator, under one hundred (100) ton; Crane, Floating Clamshell, Dragline, etc. Operator, under three (3) cu. yds. Or less than thirty (30) ton; Crane, under fifty (50) ton; Crane, Quick Tower under one hundred foot (100') in height and less than one hundred fifty foot (150') jib (on rail included); Diesel-Electric Engineer (Plant or Floating); Directional Drill over twenty thousand (20,000) lbs. pullback; Drill Cat Operator; Drill Doctor and/or Bit Grinder; Driller, Percussion, Diamond, Core, Cable, Rotary and similar type; Excavator Operator over twenty thousand (20,000) lbs. through eighty thousand (80,000) lbs.; Generator Operator; Grade-all; Guardrail Machines, i.e. punch, auger, etc.; Hammer Operator (Piledriver); Hoist, stiff leg, guy derrick or similar type, fifty (50) ton and over; Hoist, two (2) drums or more; Hydro Axe (loader mounted or similar type); Jack Operator, Elevating Barges, Barge Operator, self-unloading; Loader Operator, front end and overhead, twenty five thousand (25,000) lbs. and less than sixty thousand (60,000) lbs.; Log Skidders; Piledriver Operator (not crane type); Pipe, Bending, Cleaning, Doping and Wrapping Machines; Rail, Ballast Tamper Multi-Purpose; Rubber-tired Dozers and Pushers; Scraper, all types; Side-Boom; Skip Loader, Drag Box; Strump Grinder (loader mounted or similar type); Surface Heater and Planer; Tractor, rubber-tired, over fifty (50) HP Flywheel; Trenching Machine three foot (3') depth and deeper; Tub Grinder (used for wood debris);

Tunnel Boring Machine Mechanic; Tunnel, Mucking Machine;
 Ultra High Pressure Water Jet Cutting Tool System Operator;
 Vacuum Blasting Machine Operator; Water pulls, Water wagons
 Group 5

Asphalt, Extrusion Machine; Asphalt, Roller (any asphalt mix); Asphalt, Roto-Mill pavement profiler ground man; Bulldozer, twenty thousand (20,000) lbs. or less, or one hundred (100) horse or less; Cement Pump; Chip Spreading Machine; Churn Drill and Earth Boring Machine; Compactor, self-propelled without blade; Compressor, (any power) one thousand two hundred fifty (1,250) cu. ft. and over, total capacity; Concrete, Batch Plant Quality control; Concrete, Combination Mixer and compressor operator, gunite work; Concrete, Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete, Finishing Machine; Concrete, Grouting Machine; Concrete, Internal Full Slab Vibrator Operator; Concrete, Joint Machine; Concrete, Mixer single drum, any capacity; Concrete, Paving Machine eight foot (8') or less; Concrete, Planer; Concrete, Pump; Concrete, Pump Truck; Concrete, Pumpcrete Operator (any type); Concrete, Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Conveyored Material Hauler; Crane, Boom Truck under twenty (20) tons; Crane, Boom Type lifting device, five (5) ton capacity or less; Drill, Directional type less than twenty thousand (20,000) lbs. pullback; Fork Lift, over ten (10) ton or Robotic; Helicopter Hoist; Hoist Operator, single drum; Hydraulic Backhoe track type up to and including twenty thousand (20,000) lbs.; Hydraulic Backhoe wheel type (any make); Laser Screed; Loaders, rubber-tired type, less than twenty five thousand (25,000) lbs.; Pavement Grinder and/or Grooving Machine (riding type); Pipe, cast in place Pipe Laying Machine; Pulva-Mixer or similar types; Pump Operator, more than five (5) pumps (any size); Rail, Ballast Compactor, Regulator, or Tamper machines; Service Oiler (Greaser); Sweeper Self-Propelled; Tractor, Rubber-Tired, fifty (50) HP flywheel and under; Trenching Machine Operator, maximum digging capacity three foot (3') depth; Tunnel, Locomotive, Dinkey; Tunnel, Power Jumbo setting slip forms, etc.

Group 6

Asphalt, Pugmill (any type); Asphalt, Raker; Asphalt, Truck Mounted Asphalt Spreader, with Screed; Auger Oiler; Boatman; Bobcat, skid steer (less than one (1) yard); Broom, self-propelled; Compressor Operator (any power) under 1,250 cu. ft. total capacity; Concrete Curing Machine (riding type); Concrete Saw; Conveyor Operator or Assistant; Crane, Tugger; Crusher Feeder; Crusher Oiler; Deckhand; Drill, Directional Locator; Fork Lift; Grade Checker; Guardrail Punch Oiler; Hydrographic Seeder Machine, straw, pulp or seed; Hydrostatic Pump Operator; Mixer Box (CTB, dry batch, etc.); Oiler; Plant Oiler; Pump (any power); Rail, Brakeman, Switchman, Motorman; Rail, Tamping Machine, mechanical, self-propelled; Rigger; Roller grading (not asphalt); Truck, Crane Oiler-Driver

IRON0014-005 07/01/2015

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.76	23.19

IRON0029-002 07/01/2015

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHKAUKUM
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.12	23.04

IRON0086-002 07/01/2015

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.76	23.19

IRON0086-004 07/01/2015

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 40.04	23.19

LABO0001-002 06/01/2014

ZONE 1:

	Rates	Fringes
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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.....	\$ 22.49	10.30
GROUP 2.....	\$ 25.79	10.30
GROUP 3.....	\$ 32.29	10.30
GROUP 4.....	\$ 33.08	10.30
GROUP 5.....	\$ 33.62	10.30

CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS AND YAKIMA
COUNTIES

GROUP 1.....	\$ 18.95	10.30
GROUP 2.....	\$ 21.76	10.30
GROUP 3.....	\$ 23.85	10.30
GROUP 4.....	\$ 24.43	10.30
GROUP 5.....	\$ 24.85	10.30

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 06/01/2014

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.....	\$ 22.25	10.95
GROUP 2.....	\$ 24.35	10.95
GROUP 3.....	\$ 24.62	10.95
GROUP 4.....	\$ 24.89	10.95
GROUP 5.....	\$ 25.17	10.95
LABORER (SPOKANE)		
GROUP 1.....	\$ 21.95	10.95
GROUP 2.....	\$ 24.05	10.95
GROUP 3.....	\$ 24.32	10.95
GROUP 4.....	\$ 24.59	10.95
GROUP 5.....	\$ 24.87	10.95

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); Gunitite (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, nozzle man for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzle man, 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)

LABO0238-006 06/01/2014

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.....	\$ 24.32	10.95

LABO0335-001 06/01/2013

CLARK, COWLITZ, KLIKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHIAKUM 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

WA160001 Modification 1

Federal Wage Determinations for Highway Construction

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; Gunitite Nozzleman Tender; Gunitite 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; Guniting Nozzlemen; 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 07/01/2015

STATEWIDE EXCEPT CLARK, COWLITZ, KLIKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 27.44	14.09

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 07/01/2015

ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE);
CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS,
LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,
WHITMAN AND YAKIMA COUNTIES

	Rates	Fringes
PAINTER		
Application of Cold Tar Products, Epoxies, Polyure thanes, Acids, Radiation Resistant Material, Water and Sandblasting.....	\$ 28.15	10.85
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping, Steam-cleaning and Spray....	\$ 23.05	10.85
Lead Abatement, Asbestos Abatement.....	\$ 21.50	7.98

*\$.70 shall be paid over and above the basic wage rates
listed for work on swing stages and high work of over 30
feet.

PAIN0055-003 07/01/2015

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHIAKUM
COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 22.47	10.13
High work - All work 60 ft. or higher.....	\$ 23.22	10.13
Spray and Sandblasting.....	\$ 23.07	10.13

PAIN0055-006 11/01/2014

CLARK, COWLITZ, KLINKITAT, SKAMANIA and WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT STRIPER.....	\$ 33.43	11.08

PLAS0072-004 06/01/2015

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.....	\$ 27.01	12.59

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 06/01/2015

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, LEWIS, MASON, PACIFIC, PIERCE, SAN JUAN, SKAGIT,
SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
CEMENT MASON		
CEMENT MASON.....	\$ 38.52	15.43
COMPOSITION, TROWEL		
MACHINE, GRINDER, POWER		
TOOLS, GUNNITE NOZZLE.....	\$ 39.02	15.43
TROWLING MACHINE OPERATOR		
ON COMPOSITION.....	\$ 39.02	15.43

PLAS0555-002 06/01/2015

CLARK, KLICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
CEMENT MASON		
CEMENT MASONS DOING BOTH		
COMPOSITION/POWER		
MACHINERY AND		
SUSPENDE/HANGING SCAFFOLD..	\$ 30.58	18.18
CEMENT MASONS ON		
SUSPENDE, SWINGING AND/OR		
HANGING SCAFFOLD.....	\$ 30.58	18.18
CEMENT MASONS.....	\$ 29.98	18.18
COMPOSITION WORKERS AND		
POWER MACHINERY OPERATORS...	\$ 31.18	18.18

WA160001 Modification 1

Federal Wage Determinations for Highway Construction

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 06/01/2014

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 WAHIAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 26.90	14.37
GROUP 2.....	\$ 27.02	14.37
GROUP 3.....	\$ 27.15	14.37
GROUP 4.....	\$ 27.41	14.37
GROUP 5.....	\$ 27.63	14.37
GROUP 6.....	\$ 27.79	14.37
GROUP 7.....	\$ 27.99	14.37

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65
 Zone 3 - 1.15
 Zone 4 - 1.70
 Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city
 hall.
 ZONE 2: More than 30 miles but less than 40 miles from the
 respective city hall.
 ZONE 3: More than 40 miles but less than 50 miles from the
 respective city hall.
 ZONE 4: More than 50 miles but less than 80 miles from the
 respective city hall.
 ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup Truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom Truck/Hydra-lift or Retracting Crane; Challenger; Dumpsters or similar equipment all sizes; Dump Trucks/Articulated Dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix trucks: over 5 cu. yds. and including 7 cu. yds.; Vacuum Trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia Nitrate Distributor Driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated Dump Trucks; Self-Propelled Street Sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and Clean-up Truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt Burner; Dump Trucks, side, end and bottom dumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds. includes Articulated Dump Trucks; Fire Guard; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons

GROUP 5: Composite Crewman; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 50 cu. yds. and including 60 cu. yds. includes Articulated Dump Trucks

GROUP 6: Bulk Cement Spreader w/o Auger; Dry Pre-Batch concrete Mix Trucks; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds., and includes Articulated Dump Trucks; Skid Truck

GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds., includes Articulated Dump Trucks; Industrial Lift Truck (mechanical tailgate)

TEAM0174-001 06/01/2015

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	17.27
GROUP 2:.....	\$ 31.34	17.27
GROUP 3:.....	\$ 28.53	17.27
GROUP 4:.....	\$ 23.56	17.27
GROUP 5:.....	\$ 31.73	17.27

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

WA160001 Modification 1

Federal Wage Determinations for Highway Construction

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 1 + \$2.00)

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: Outside 45 radius miles from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power
Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and
under); Leverperson (loading trucks at bunkers); Trailer
Mounted Hydro Seeder and Mulcher; Seeder & Mulcher;
Stationary Fuel Operator; Tractor (small, rubber-tired,
pulling trailer or similar equipment)

WA160001 Modification 1

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 additon to the classification working in as follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction with a chemical splash suit or fully encapsulated suit with a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four(4) and eight(8) hours.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour over applicable truck rate

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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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 a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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: 3/30/2016

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
King	<u>Asbestos Abatement Workers</u>	Journey Level	\$43.95	<u>5D</u>	<u>1H</u>	
King	<u>Boilermakers</u>	Journey Level	\$64.29	<u>5N</u>	<u>1C</u>	
King	<u>Brick Mason</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Brick Mason</u>	Pointer-Caulker-Cleaner	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Building Service Employees</u>	Janitor	\$22.09	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Traveling Waxer/Shampooer	\$22.54	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Window Cleaner (Non-Scaffold)	\$23.99	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Window Cleaner (Scaffold)	\$26.78	<u>5S</u>	<u>2F</u>	
King	<u>Cabinet Makers (In Shop)</u>	Journey Level	\$22.74		<u>1</u>	
King	<u>Carpenters</u>	Acoustical Worker	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Bridge, Dock And Wharf Carpenters	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Carpenter	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Carpenters on Stationary Tools	\$54.15	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Creosoted Material	\$54.12	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Floor Finisher	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Floor Layer	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Scaffold Erector	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Cement Masons</u>	Journey Level	\$53.95	<u>7A</u>	<u>1M</u>	
King	<u>Divers & Tenders</u>	Diver	\$107.22	<u>5D</u>	<u>4C</u>	<u>8A</u>
King	<u>Divers & Tenders</u>	Diver On Standby	\$64.42	<u>5D</u>	<u>4C</u>	
King	<u>Divers & Tenders</u>	Diver Tender	\$58.33	<u>5D</u>	<u>4C</u>	
King	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator	\$58.33	<u>5D</u>	<u>4C</u>	
King	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator Tender	\$54.27	<u>5A</u>	<u>4C</u>	
King	<u>Dredge Workers</u>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	

King	<u>Dredge Workers</u>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
King	<u>Drywall Applicator</u>	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>	
King	<u>Drywall Tapers</u>	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>	
King	<u>Electrical Fixture Maintenance Workers</u>	Journey Level	\$27.24	<u>5L</u>	<u>1E</u>	
King	<u>Electricians - Inside</u>	Cable Splicer	\$69.77	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Cable Splicer (tunnel)	\$74.95	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Certified Welder	\$67.41	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Certified Welder (tunnel)	\$72.37	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Construction Stock Person	\$37.94	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Journey Level	\$65.05	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Journey Level (tunnel)	\$69.77	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>	
King	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>	
King	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$74.92	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$65.71	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Groundperson	\$44.12	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$65.71	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$65.71	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$55.34	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$65.71	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Powderperson	\$49.16	<u>5A</u>	<u>4D</u>	
King	<u>Electronic Technicians</u>	Journey Level	\$31.00		<u>1</u>	
King	<u>Elevator Constructors</u>	Mechanic	\$85.45	<u>7D</u>	<u>4A</u>	
King	<u>Elevator Constructors</u>	Mechanic In Charge	\$92.35	<u>7D</u>	<u>4A</u>	
King	<u>Fabricated Precast Concrete Products</u>	All Classifications - In-Factory Work Only	\$16.55	<u>5B</u>	<u>1R</u>	
King	<u>Fence Erectors</u>	Fence Erector	\$15.18		<u>1</u>	
King	<u>Flaggers</u>	Journey Level	\$37.26	<u>7A</u>	<u>3I</u>	
King	<u>Glaziers</u>	Journey Level	\$56.16	<u>7L</u>	<u>1Y</u>	
King	<u>Heat & Frost Insulators And Asbestos Workers</u>	Journeyman	\$63.18	<u>5J</u>	<u>1S</u>	
King	<u>Heating Equipment Mechanics</u>	Journey Level	\$72.83	<u>7F</u>	<u>1E</u>	
King	<u>Hod Carriers & Mason Tenders</u>	Journey Level	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$9.47		<u>1</u>	

King	<u>Inland Boatmen</u>	Boat Operator	\$56.78	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Cook	\$53.30	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand	\$53.30	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand Engineer	\$54.32	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Launch Operator	\$55.57	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Mate	\$55.57	<u>5B</u>	<u>1K</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$31.49		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Grout Truck Operator	\$11.48		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Head Operator	\$24.91		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Technician	\$19.33		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Tv Truck Operator	\$20.45		<u>1</u>	
King	<u>Insulation Applicators</u>	Journey Level	\$54.02	<u>5D</u>	<u>4C</u>	
King	<u>Ironworkers</u>	Journeyman	\$63.53	<u>7N</u>	<u>10</u>	
King	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Airtrac Drill Operator	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ballast Regular Machine	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Batch Weighman	\$37.26	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brick Pavers	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Cutter	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Hog Feeder	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Burner	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caisson Worker	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Carpenter Tender	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caulker	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Dumper-paving	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Finisher Tender	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Change House Or Dry Shack	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Choker Setter	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chuck Tender	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Clary Power Spreader	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Clean-up Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Dumper/chute Operator	\$44.76	<u>7A</u>	<u>3I</u>	

King	<u>Laborers</u>	Concrete Form Stripper	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Placement Crew	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Crusher Feeder	\$37.26	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Curing Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ditch Digger	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Diver	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Drill Operator (hydraulic,diamond)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dry Stack Walls	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dump Person	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Epoxy Technician	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Erosion Control Worker	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Faller & Bucker Chain Saw	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Fine Graders	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Firewatch	\$37.26	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Form Setter	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Gabian Basket Builders	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	General Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grade Checker & Transit Person	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grinders	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grout Machine Tender	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Groutmen (pressure)including Post Tension Beams	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Guardrail Erector	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level A)	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level B)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level C)	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	High Scaler	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Jackhammer	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Laserbeam Operator	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Maintenance Person	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Manhole Builder-mudman	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Material Yard Person	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Motorman-dinky Locomotive	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite,	\$44.76	<u>7A</u>	<u>3I</u>	

		Shotcrete, Water Bla				
King	<u>Laborers</u>	Pavement Breaker	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pilot Car	\$37.26	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Layer Lead	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Layer/tailor	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Pot Tender	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Reliner	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Wrapper	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pot Tender	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Powderman	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Powderman's Helper	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Power Jacks	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Railroad Spike Puller - Power	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Raker - Asphalt	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Re-timberman	\$45.32	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Remote Equipment Operator	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rigger/signal Person	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rip Rap Person	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rivet Buster	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rodder	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Scaffold Erector	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Scale Person	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Sloper (over 20")	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Sloper Sprayer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Spreader (concrete)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Stake Hopper	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Stock Piler	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tamper & Similar Electric, Air & Gas Operated Tools	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tamper (multiple & Self- propelled)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Toolroom Person (at Jobsite)	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Topper	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Track Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Track Liner (power)	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Traffic Control Laborer	\$39.84	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<u>Laborers</u>	Traffic Control Supervisor	\$39.84	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<u>Laborers</u>	Truck Spotter	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tugger Operator	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 0-30 psi	\$74.29	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$79.32	<u>7A</u>	<u>3I</u>	<u>8Q</u>

King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$83.00	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$88.70	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$90.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$95.92	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$97.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$99.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$101.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Miner	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Vibrator	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Vinyl Seamer	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Watchman	\$33.86	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Welder	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Well Point Laborer	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Window Washer/cleaner	\$33.86	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer & Water</u>	General Laborer & Topman	\$43.95	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer & Water</u>	Pipe Layer	\$44.76	<u>7A</u>	<u>3I</u>	
King	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$13.56		<u>1</u>	
King	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$28.17		<u>1</u>	
King	<u>Landscape Construction</u>	Landscaping or Planting Laborers	\$17.87		<u>1</u>	
King	<u>Lathers</u>	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>	
King	<u>Marble Setters</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Metal Fabrication (In Shop)</u>	Fitter	\$15.86		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Laborer	\$9.78		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$13.04		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Painter	\$11.10		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Welder	\$15.48		<u>1</u>	
King	<u>Millwright</u>	Journey Level	\$55.52	<u>5D</u>	<u>4C</u>	
King	<u>Modular Buildings</u>	Cabinet Assembly	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Electrician	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Equipment Maintenance	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Plumber	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Production Worker	\$9.47		<u>1</u>	
King	<u>Modular Buildings</u>	Tool Maintenance	\$11.56		<u>1</u>	

King	<u>Modular Buildings</u>	Utility Person	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Welder	\$11.56		<u>1</u>	
King	<u>Painters</u>	Journey Level	\$39.35	<u>6Z</u>	<u>2B</u>	
King	<u>Pile Driver</u>	Journey Level	\$54.27	<u>5D</u>	<u>4C</u>	
King	<u>Plasterers</u>	Journey Level	\$51.68	<u>7Q</u>	<u>1R</u>	
King	<u>Playground & Park Equipment Installers</u>	Journey Level	\$9.47		<u>1</u>	
King	<u>Plumbers & Pipefitters</u>	Journey Level	\$75.69	<u>6Z</u>	<u>1G</u>	
King	<u>Power Equipment Operators</u>	Asphalt Plant Operators	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Assistant Engineer	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Barrier Machine (zipper)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Batch Plant Operator, Concrete	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bobcat	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brokk - Remote Demolition Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brooms	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cableways	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Chipper	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Compressor	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Finish Machine -laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>

		(including Jib With Attachments)				
King	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$53.57	7A	3C	8P
King	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$58.10	7A	3C	8P
King	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$56.00	7A	3C	8P
King	Power Equipment Operators	Crusher	\$56.44	7A	3C	8P
King	Power Equipment Operators	Deck Engineer /deck Winches (power)	\$56.44	7A	3C	8P
King	Power Equipment Operators	Derricks, On Building Work	\$56.94	7A	3C	8P
King	Power Equipment Operators	Dozers D-9 & Under	\$56.00	7A	3C	8P
King	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	7A	3C	8P
King	Power Equipment Operators	Drilling Machine	\$57.51	7A	3C	8P
King	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$53.57	7A	3C	8P
King	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	7A	3C	8P
King	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$56.00	7A	3C	8P
King	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	7A	3C	8P
King	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	7A	3C	8P
King	Power Equipment Operators	Gradechecker/stakeman	\$53.57	7A	3C	8P
King	Power Equipment Operators	Guardrail Punch	\$56.44	7A	3C	8P
King	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	7A	3C	8P
King	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	7A	3C	8P
King	Power Equipment Operators	Horizontal/directional Drill Locator	\$56.00	7A	3C	8P
King	Power Equipment Operators	Horizontal/directional Drill Operator	\$56.44	7A	3C	8P
King	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	\$56.00	7A	3C	8P
King	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	7A	3C	8P
King	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$57.51	7A	3C	8P
King	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	7A	3C	8P
King	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$56.44	7A	3C	8P

King	Power Equipment Operators	Loaders, Plant Feed	\$56.44	7A	3C	8P
King	Power Equipment Operators	Loaders: Elevating Type Belt	\$56.00	7A	3C	8P
King	Power Equipment Operators	Locomotives, All	\$56.44	7A	3C	8P
King	Power Equipment Operators	Material Transfer Device	\$56.44	7A	3C	8P
King	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	7A	3C	8P
King	Power Equipment Operators	Motor Patrol Graders	\$56.94	7A	3C	8P
King	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	7A	3C	8P
King	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$53.57	7A	3C	8P
King	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$56.44	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$57.51	7A	3C	8P
King	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	7A	3C	8P
King	Power Equipment Operators	Pavement Breaker	\$53.57	7A	3C	8P
King	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$56.44	7A	3C	8P
King	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$56.00	7A	3C	8P
King	Power Equipment Operators	Posthole Digger, Mechanical	\$53.57	7A	3C	8P
King	Power Equipment Operators	Power Plant	\$53.57	7A	3C	8P
King	Power Equipment Operators	Pumps - Water	\$53.57	7A	3C	8P
King	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$56.94	7A	3C	8P
King	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	7A	3C	8P
King	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	7A	3C	8P
King	Power Equipment Operators	Rigger And Bellman	\$53.57	7A	3C	8P
King	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$56.00	7A	3C	8P
King	Power Equipment Operators	Rollagon	\$56.94	7A	3C	8P
King	Power Equipment Operators	Roller, Other Than Plant Mix	\$53.57	7A	3C	8P
King	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$56.00	7A	3C	8P
King	Power Equipment Operators	Roto-mill, Roto-grinder	\$56.44	7A	3C	8P
King	Power Equipment Operators	Saws - Concrete	\$56.00	7A	3C	8P
King	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$56.44	7A	3C	8P
King	Power Equipment Operators	Scrapers - Concrete & Carry All	\$56.00	7A	3C	8P
King	Power Equipment Operators	Scrapers, Self-propelled: 45	\$56.94	7A	3C	8P

		Yards And Over				
King	Power Equipment Operators	Service Engineers - Equipment	\$56.00	7A	3C	8P
King	Power Equipment Operators	Shotcrete/gunite Equipment	\$53.57	7A	3C	8P
King	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$57.51	7A	3C	8P
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	7A	3C	8P
King	Power Equipment Operators	Slipform Pavers	\$56.94	7A	3C	8P
King	Power Equipment Operators	Spreader, Topsider & Screedman	\$56.94	7A	3C	8P
King	Power Equipment Operators	Subgrader Trimmer	\$56.44	7A	3C	8P
King	Power Equipment Operators	Tower Bucket Elevators	\$56.00	7A	3C	8P
King	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$57.51	7A	3C	8P
King	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	7A	3C	8P
King	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$58.67	7A	3C	8P
King	Power Equipment Operators	Transporters, All Track Or Truck Type	\$56.94	7A	3C	8P
King	Power Equipment Operators	Trenching Machines	\$56.00	7A	3C	8P
King	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	7A	3C	8P
King	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$56.00	7A	3C	8P
King	Power Equipment Operators	Truck Mount Portable Conveyor	\$56.44	7A	3C	8P
King	Power Equipment Operators	Welder	\$56.94	7A	3C	8P
King	Power Equipment Operators	Wheel Tractors, Farmall Type	\$53.57	7A	3C	8P
King	Power Equipment Operators	Yo Yo Pay Dozer	\$56.44	7A	3C	8P
King	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	\$56.94	7A	3C	8P
King	Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	\$53.57	7A	3C	8P
King	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	\$56.44	7A	3C	8P
King	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	\$56.44	7A	3C	8P
King	Power Equipment Operators- Underground Sewer & Water	Bobcat	\$53.57	7A	3C	8P
King	Power Equipment Operators-	Brokk - Remote Demolition	\$53.57	7A	3C	8P

	Underground Sewer & Water	Equipment				
King	Power Equipment Operators- Underground Sewer & Water	Brooms	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cableways	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Chipper	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Compressor	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Crusher	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Deck Engineer/deck Winches (power)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Derricks, On Building Work	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Dozers D-9 & Under	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drilling Machine	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklift: 3000 Lbs And Over With Attachments	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Gradechecker/stakeman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Guardrail Punch	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Locator	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Operator	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead 8 Yards. & Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Overhead Under 6 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Plant Feed	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders: Elevating Type Belt	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Locomotives, All	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Material Transfer Device	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Motor Patrol Graders	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pavement Breaker	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pile Driver (other Than Crane Mount)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Plant Oiler - Asphalt, Crusher	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Posthole Digger, Mechanical	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Power Plant	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pumps - Water	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quad 9, Hd 41, D10 And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger And Bellman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger/Signal Person, Bellman (Certified)	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rollagon	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Other Than Plant Mix	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roto-mill, Roto-grinder	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Saws - Concrete	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scraper, Self Propelled Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers - Concrete & Carry All	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Service Engineers - Equipment	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shotcrete/gunite Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Slipform Pavers	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Spreader, Topsider & Screedman	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Subgrader Trimmer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Bucket Elevators	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Cranes: over 250' in height from base to boom	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Transporters, All Track Or Truck Type	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Trenching Machines	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-</u>	Truck Mount Portable Conveyor	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Underground Sewer & Water</u>					
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Welder	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Wheel Tractors, Farmall Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer & Water</u>	Yo Yo Pay Dozer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$45.75	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$43.38	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$45.75	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$40.84	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$30.74	<u>5A</u>	<u>4A</u>	
King	<u>Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$74.36	<u>6Z</u>	<u>1G</u>	
King	<u>Residential Brick Mason</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Residential Carpenters</u>	Journey Level	\$28.20		<u>1</u>	
King	<u>Residential Cement Masons</u>	Journey Level	\$22.64		<u>1</u>	
King	<u>Residential Drywall Applicators</u>	Journey Level	\$40.64	<u>5D</u>	<u>4C</u>	
King	<u>Residential Drywall Tapers</u>	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>	
King	<u>Residential Electricians</u>	Journey Level	\$30.44		<u>1</u>	
King	<u>Residential Glaziers</u>	Journey Level	\$38.40	<u>7L</u>	<u>1H</u>	
King	<u>Residential Insulation Applicators</u>	Journey Level	\$26.28		<u>1</u>	
King	<u>Residential Laborers</u>	Journey Level	\$23.03		<u>1</u>	
King	<u>Residential Marble Setters</u>	Journey Level	\$24.09		<u>1</u>	
King	<u>Residential Painters</u>	Journey Level	\$24.46		<u>1</u>	
King	<u>Residential Plumbers & Pipefitters</u>	Journey Level	\$34.69		<u>1</u>	
King	<u>Residential Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$74.36	<u>6Z</u>	<u>1G</u>	
King	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$43.46	<u>7F</u>	<u>1R</u>	
King	<u>Residential Soft Floor Layers</u>	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>	
King	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$42.73	<u>5C</u>	<u>2R</u>	
King	<u>Residential Stone Masons</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Residential Terrazzo Workers</u>	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
King	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$21.46		<u>1</u>	
King	<u>Residential Tile Setters</u>	Journey Level	\$25.17		<u>1</u>	
King	<u>Roofers</u>	Journey Level	\$46.46	<u>5A</u>	<u>3H</u>	
King	<u>Roofers</u>	Using Irritable Bituminous Materials	\$48.71	<u>5A</u>	<u>3H</u>	

King	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$72.83	<u>7F</u>	<u>1E</u>	
King	<u>Shipbuilding & Ship Repair</u>	Boilermaker	\$40.87	<u>7M</u>	<u>1H</u>	
King	<u>Shipbuilding & Ship Repair</u>	Carpenter	\$40.41	<u>7T</u>	<u>2B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Electrician	\$41.43	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Heat & Frost Insulator	\$63.18	<u>5J</u>	<u>1S</u>	
King	<u>Shipbuilding & Ship Repair</u>	Laborer	\$41.47	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Machinist	\$41.46	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Operator	\$41.39	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Painter	\$41.42	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Pipefitter	\$41.40	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Rigger	\$41.48	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Sheet Metal	\$41.43	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Shipfitter	\$41.48	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Trucker	\$41.32	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Warehouse	\$41.37	<u>7T</u>	<u>4B</u>	
King	<u>Shipbuilding & Ship Repair</u>	Welder/Burner	\$41.48	<u>7T</u>	<u>4B</u>	
King	<u>Sign Makers & Installers (Electrical)</u>	Sign Installer	\$22.92		<u>1</u>	
King	<u>Sign Makers & Installers (Electrical)</u>	Sign Maker	\$21.36		<u>1</u>	
King	<u>Sign Makers & Installers (Non-Electrical)</u>	Sign Installer	\$27.28		<u>1</u>	
King	<u>Sign Makers & Installers (Non-Electrical)</u>	Sign Maker	\$33.25		<u>1</u>	
King	<u>Soft Floor Layers</u>	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>	
King	<u>Solar Controls For Windows</u>	Journey Level	\$12.44		<u>1</u>	
King	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$70.14	<u>5C</u>	<u>1X</u>	
King	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>	
King	<u>Stone Masons</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
King	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$19.09		<u>1</u>	
King	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Chainman	\$55.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Construction Site Surveyor	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Telecommunication Technicians</u>	Journey Level	\$22.76		<u>1</u>	
King	<u>Telephone Line Construction - Outside</u>	Cable Splicer	\$37.60	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Hole Digger/Ground Person	\$20.79	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$36.02	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$37.60	<u>5A</u>	<u>2B</u>	

King	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$36.82	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$37.60	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$34.94	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$34.93	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$19.73	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$26.31	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$31.50	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Technician	\$28.23	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$34.93	<u>5A</u>	<u>2B</u>	
King	<u>Terrazzo Workers</u>	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
King	<u>Tile Setters</u>	Journey Level	\$21.65		<u>1</u>	
King	<u>Tile, Marble & Terrazzo Finishers</u>	Finisher	\$38.29	<u>5A</u>	<u>1B</u>	
King	<u>Traffic Control Stripers</u>	Journey Level	\$43.73	<u>7A</u>	<u>1K</u>	
King	<u>Truck Drivers</u>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck & Trailer	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Other Trucks (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Transit Mixer	\$43.23		<u>1</u>	
King	<u>Well Drillers & Irrigation Pump Installers</u>	Irrigation Pump Installer	\$17.71		<u>1</u>	
King	<u>Well Drillers & Irrigation Pump Installers</u>	Oiler	\$12.97		<u>1</u>	
King	<u>Well Drillers & Irrigation Pump Installers</u>	Well Driller	\$18.00		<u>1</u>	

Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's
Predetermined List for
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

ITEM DESCRIPTION	YES	NO
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		X
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		X
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		X
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		X
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		X
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		X
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		X

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.	X	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		X
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		X
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		X
22. Vault Risers - For use with Valve Vaults and Utilities Vaults.		X
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010\(2\)](#) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

Benefit Code Key – Effective 3/2/2016 thru 8/30/2016

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3.
 - 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.
 - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
 - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

Holiday Codes Continued

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).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-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, 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).

Holiday Codes Continued

6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

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:
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

Note Codes Continued

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.
- U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.

Proposal For Bidding Purposes

For Construction of:

SR 202 MP 0.12 to MP 0.18

**LITTLE BEAR CREEK
FISH BARRIER REMOVAL**

F.A. No. STPF-0202(055)

King County

Sealed bids will be received by the Department of Transportation at the Transportation Building (Room 2D20), 310 Maple Park Avenue SE, Olympia, Washington 98504-7360, until 11:00:59 AM, or via Expedite software and BidX.com until 11:00:59 AM Pacific Time, on the date scheduled for opening bids.



**Washington State
Department of Transportation**

**IS YOUR
SUBCONTRACTOR
LIST INCLUDED???**

IF NOT

**YOUR BID WILL BE
CONSIDERED
IRREGULAR**

**AND WILL BE
REJECTED!!!**

**SUBMIT THE
ENCLOSED PROPOSAL
BOND FORM WITH
YOUR PROPOSAL.**

**USE OF OTHER FORMS
MAY SUBJECT YOUR
BID TO REJECTION.**

**NOTE: Use of other forms may limit
the bond below an amount equal
to five percent of the bid total.**

TO THE SECRETARY OF
TRANSPORTATION
OLYMPIA, WASHINGTON

PROPOSAL

DATE: 02/24/2016
TIME: 15:35
DOT_RGG600

THIS CERTIFIES THAT THE UNDERSIGNED HAS EXAMINED THE LOCATION OF

SR 202 IN KING COUNTY FROM MP 0.12 TO MP 0.18, LITTLE BEAR CREEK FISH BARRIER REMOVAL, A
FEDERAL AID PROJECT,

AND THAT THE PLANS, SPECIFICATIONS AND CONTRACT GOVERNING THE WORK EMBRACED IN THIS
IMPROVEMENT, AND THE METHOD BY WHICH PAYMENT WILL BE MADE FOR SAID WORK IS UNDERSTOOD. THE
UNDERSIGNED HEREBY PROPOSES TO UNDERTAKE AND COMPLETE THE WORK EMBRACED IN THIS IMPROVEMENT,
OR AS MUCH THEREOF AS CAN BE COMPLETED WITH THE MONEY AVAILABLE IN ACCORDANCE WITH THE SAID
PLANS, SPECIFICATIONS AND CONTRACT, AND THE FOLLOWING SCHEDULE OF RATES AND PRICES:

(NOTE: UNIT PRICES FOR ALL ITEMS, ALL EXTENSIONS, AND TOTAL AMOUNT OF BID SHALL BE SHOWN.
ALL ENTRIES MUST BE TYPED OR ENTERED IN INK.)

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
PREPARATION				
1	LUMP SUM	MOBILIZATION (0001)	LUMP SUM	\$390,000.00 \$390,000.00 20
2	LUMP SUM	MOBILIZATION FOR UT1228 ()	LUMP SUM	\$10,000.00
3	LUMP SUM	MOBILIZATION FOR UT 1229 ()	LUMP SUM	\$10,000.00
4	0.15 ACRE	CLEARING ()	AT \$57,000.00 PER ACRE	\$8,550.00
5	1. EACH	REMOVING CATCH BASIN ()	AT \$500.00 PER EACH	\$500.00
6	LUMP SUM	REMOVAL OF STRUCTURE AND OBSTRUCTIONS (0050)	LUMP SUM	\$12,000.00
7	ESTIMATED	REMOVING SOLDIER PILE SHAFT OBSTRUCTIONS (0254)	ESTIMATED	7,700.00
8	ESTIMATED	REMOVING SHAFT OBSTRUCTIONS (0256)	ESTIMATED	85,250.00
9	LUMP SUM	REMOVING PORTION OF EXISTING STRUCTURE (0060)	LUMP SUM	\$20,000.00

* - SHOW PRICE PER UNIT IN FIGURES ONLY. FIGURES WRITTEN TO THE RIGHT OF THE DOT (DECIMAL)
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SR 202
LITTLE BEAR CREEK
FISH BARRIER REMOVAL
15A034

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
PREPARATION				
10	LUMP SUM	HERBICIDE APPLICATIONS PRIOR TO CLEARING ()	LUMP SUM	\$1,200.00
GRADING				
11	834. TON	GRAVEL BORROW INCL. HAUL (0431)	AT \$20.00 PER TON	\$23,352.00
DRAINAGE				
12	360. TON	STREAMBED SEDIMENT (1093)	AT \$62.00 PER TON	\$22,320.00
13	20. TON	HEAVY LOOSE RIPRAP (1075)	AT \$52.00 PER TON	\$1,040.00
14	830. TON	STREAMBED COBBLES 6 IN. (0901)	AT \$50.00 PER TON	\$41,500.00
15	LUMP SUM	TEMPORARY STREAM DIVERSION (3075)	LUMP SUM	\$50,000.00
16	ESTIMATED	FISH EXCLUSION (3076)	ESTIMATED	55,000.00
STORM SEWER				
17	2. EACH	CATCH BASIN TYPE 2 48 IN. DIAM. (3105)	AT \$4,000.00 PER EACH	\$8,000.00
18	63. LIN. FT.	TESTING STORM SEWER PIPE (3151)	AT \$13.00 PER LIN. FT.	\$819.00
19	63. LIN. FT.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM. (3541)	AT \$64.00 PER LIN. FT.	\$4,032.00
WATER LINES				
20	45. LIN. FT.	DUCTILE IRON PIPE FOR WATER MAIN 8 IN. DIAM. (3867)	AT \$102.00 PER LIN. FT.	\$4,590.00
21	LUMP SUM	CONNECTION TO EXISTING DI INCLUDING FITTINGS ()	LUMP SUM	\$4,000.00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
WATER LINES				
22	2. EACH	REPLACE AND RECONNECT EX. SERVICE TO NEW WATER MAIN ()	AT \$ 2,900.00 PER EACH	\$ 5,800.00
23	LUMP SUM	TEMPORARY WATER SERVICE ()	LUMP SUM	\$ 2,900.00
STRUCTURE				
24	1,120. CU. YD.	STRUCTURE EXCAVATION CLASS A INCL. HAUL (4006)	AT \$ 36.00 PER CU. YD.	\$ 40,320.00
25	662. CU. YD.	SOIL EXCAVATION FOR SHAFT INCLUDING HAUL (4007)	AT \$ 510.00 PER CU. YD.	\$ 337,620.00
26	LUMP SUM	SHORING OR EXTRA EXCAVATION CL. A (4013)	LUMP SUM	\$ 450,000.00
27	1,420. LIN. FT.	FURNISHING & PLACING TEMP. CASING FOR 3'-0" DIA. SHAFT ()	AT \$ 16.00 PER LIN. FT.	\$ 22,720.00
28	650. LIN. FT.	FURNISHING & PLACING TEMP. CASING FOR 4'-0" DIA. SHAFT (4011)	AT \$ 18.00 PER LIN. FT.	\$ 11,700.00
29	700. LIN. FT.	CASING SHORING (4039)	AT \$ 2.00 PER LIN. FT.	\$ 1,400.00
30	540. LIN. FT.	SHAFT - 36 IN. DIAMETER (4049)	AT \$ 125.00 PER LIN. FT.	\$ 67,500.00
31	400. LIN. FT.	FURNISHING SOLDIER PILE - W24 X 250 (4053)	AT \$ 270.00 PER LIN. FT.	\$ 108,000.00
32	114. LIN. FT.	FURNISHING SOLDIER PILE - W24 X 131 (4053)	AT \$ 140.00 PER LIN. FT.	\$ 15,960.00
33	1,115. POUND	ST. REINF. BAR FOR BRIDGE (4149)	AT \$ 2.00 PER POUND	\$ 2,230.00
34	166,770. POUND	ST. REINF. BAR FOR SHAFT (4152)	AT \$ 1.00 PER POUND	\$ 166,770.00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
STRUCTURE				
35	2,350. LIN. FT.	CSL ACCESS TUBE (4164)	AT \$11 . 00 PER LIN. FT.	\$25,850 . 00
36	310. CU. YD.	LEAN CONCRETE (4166)	AT \$338 . 00 PER CU. YD.	\$104,780 . 00
37	24. CU. YD.	CONC. CLASS 4000 FOR BRIDGE (4322)	AT \$700 . 00 PER CU. YD.	\$16,800 . 00
38	372. CU. YD.	CONC. CLASS 4000P FOR SHAFT (4168)	AT \$450 . 00 PER CU. YD.	\$167,400 . 00
39	LUMP SUM	PRECAST SHAFT CAP ()	LUMP SUM	\$160,000 . 00
40	753. LIN. FT.	PRESTRESSED CONC. GIRDER - 26 INCH PCPS (4269)	AT \$890 . 00 PER LIN. FT.	\$670,170 . 00
41	CALCULATED	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT (4219)	CALCULATED	-1.00
42	754. SQ. FT.	LAGGING (4299)	AT \$20 . 00 PER SQ. FT.	\$15,080 . 00
43	80. EACH	ELASTOMERIC BEARING PAD ()	AT \$650 . 00 PER EACH	\$52,000 . 00
44	80. EACH	ELASTOMERIC GIRDER END PAD ()	AT \$300 . 00 PER EACH	\$24,000 . 00
45	56. LIN. FT.	BRIDGE RAILING TYPE GEOSYNTHETIC CHAIN LINK FENCE (4410)	AT \$100 . 00 PER LIN. FT.	\$5,600 . 00
46	64. LIN. FT.	BRIDGE RAILING TYPE PEDESTRIAN (4410)	AT \$70 . 00 PER LIN. FT.	\$4,480 . 00
47	21. LIN. FT.	BRIDGE RAILING TYPE CHAIN LINK FENCE (4412)	AT \$170 . 00 PER LIN. FT.	\$3,570 . 00
48	64. LIN. FT.	GEOSYNTHETIC RETAINING WALL PEDESTRIAN BARRIER (4123)	AT \$540 . 00 PER LIN. FT.	\$34,560 . 00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
STRUCTURE				
49	469. SQ. YD.	MEMBRANE WATERPROOFING (DECK SEAL) (4455)	AT \$42.00 PER SQ. YD.	\$19,698.00
50	46. SQ. YD.	PREFABRICATED DRAINAGE MAT (4482)	AT \$24.00 PER SQ. YD.	\$1,104.00
SURFACING				
51	112. TON	CRUSHED SURFACING BASE COURSE (5100)	AT \$34.00 PER TON	\$3,808.00
52	35. TON	CRUSHED SURFACING BASE COURSE FOR UT 1228 ()	AT \$34.00 PER TON	\$1,190.00
HOT MIX ASPHALT				
53	159. SQ. YD.	PLANING BITUMINOUS PAVEMENT (5711)	AT \$41.00 PER SQ. YD.	\$6,519.00
54	221. TON	HMA CL. 1/2 IN. PG 64-22 (5767)	AT \$150.00 PER TON	\$33,150.00
55	CALCULATED	JOB MIX COMPLIANCE PRICE ADJUSTMENT (5830)	CALCULATED	729.30
56	CALCULATED	COMPACTION PRICE ADJUSTMENT (5835)	CALCULATED	486.20
57	CALCULATED	ASPHALT COST PRICE ADJUSTMENT (5837)	CALCULATED	550.00
IRRIGATION AND WATER DISTRIBUTION				
58	LUMP SUM	EXISTING IRRIGATION SYSTEM MODIFICATION ()	LUMP SUM	\$8,000.00
EROSION CNTRL AND ROADSIDE RESTORATION				
59	187. DAY	ESC LEAD (6403)	AT \$38.00 PER DAY	\$7,106.00
60	231. SQ. YD.	COMPOST BLANKET (6453)	AT \$9.00 PER SQ. YD.	\$2,079.00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
EROSION CNTRL AND ROADSIDE RESTORATION				
61	2. EACH	INLET PROTECTION (6471)	AT \$100 .00 PER EACH	\$200 .00
62	513. SQ. YD.	STABILIZED CONSTRUCTION ENTRANCE (6468)	AT \$24 .00 PER SQ. YD.	\$12,312 .00
63	350. HOUR	STREET CLEANING (6470)	AT \$145 .00 PER HOUR	\$50,750.00
64	90. LIN. FT.	SILT FENCE (6373)	AT \$12 .00 PER LIN. FT.	\$1,080 .00
65	ESTIMATED	EROSION/WATER POLLUTION CONTROL (6490)	ESTIMATED	300,000.00
66	0.01 ACRE	SEEDING, FERTILIZING, AND MULCHING (6414)	AT \$8,500 .00 PER ACRE	\$85 .00
67	41. EACH	PSIPE DAVID VIBURNUM, #2 CONT. (6552)	AT \$30 .00 PER EACH	\$1,230 .00
68	10. EACH	PSIPE CRIMSON PYGMY JAPANESE BARBERRY, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$200 .00
69	60. EACH	PSIPE KINNIKINICK, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$1,200 .00
70	100. EACH	PSIPE MEDITERRANEAN PINK HEATH, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$2,000 .00
71	36. EACH	PSIPE PACIFIC NINEBARK, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$720 .00
72	45. EACH	PSIPE RED OSIER DOGWOOD, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$900 .00
73	78. EACH	PSIPE SALAL, #1 CONT. (6552)	AT \$20 .00 PER EACH	\$1,560 .00
74	12. EACH	PSIPE SCOULER'S WILLOW, LIVE STAKE (6552)	AT \$10 .00 PER EACH	\$120 .00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
EROSION CNTRL AND ROADSIDE RESTORATION				
75	96. EACH	PSIFE SITKA WILLOW, LIVE STAKE (6552)	AT \$ 10 .00 PER EACH	\$ 960 .00
76	3. EACH	PSIFE VINE MAPLE, #1 CONT. (6552)	AT \$ 20 .00 PER EACH	\$ 60 .00
77	2. EACH	PSIFE WESTERN RED CEDAR 'EXCELSA', 48" HT. (6552)	AT \$ 150 .00 PER EACH	\$ 300 .00
78	19. EACH	PSIFE WESTERN RED CEDAR, #2 CONT. (6552)	AT \$ 30 .00 PER EACH	\$ 570 .00
79	128. EACH	PSIFE WESTERN SWORDFERN, #1 CONT. (6552)	AT \$ 15 .00 PER EACH	\$ 1,920 .00
80	3. EACH	PSIFE ZELKOVA 'GREEN VASE', 2 1/2" CALIPER (6552)	AT \$ 500 .00 PER EACH	\$ 1,500 .00
81	67. LIN. FT.	FASCINES (6553)	AT \$ 15 .00 PER LIN. FT.	\$ 1,005 .00
82	254. SQ. YD.	BARK OR WOOD CHIP MULCH ()	AT \$ 7 .50 PER SQ. YD.	\$ 1,905 .00
83	513. SQ. YD.	ARBORIST CHIPS ()	AT \$ 9 .00 PER SQ. YD.	\$ 4,617 .00
84	ESTIMATED	WEED AND PEST CONTROL (6545)	ESTIMATED	6,600.00
85	75. SQ. YD.	BIODEGRADABLE EROSION CONTROL BLANKET (6455)	AT \$ 15 .00 PER SQ. YD.	\$ 1,125 .00
86	305. LIN. FT.	HIGH VISIBILITY FENCE (6630)	AT \$ 5 .00 PER LIN. FT.	\$ 1,525 .00
87	5. EACH	WATER BAG ()	AT \$ 40 .00 PER EACH	\$ 200 .00
88	174. SQ. YD.	COMPOST BLANKET INCORPORATION ()	AT \$ 25 .00 PER SQ. YD.	\$ 4,350 .00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
EROSION CNTRL AND ROADSIDE RESTORATION				
89	0.1 ACRE	SOIL DECOMPACTION ()	AT \$ 15,000 .00 PER ACRE	\$ 1,500 .00
90	57. SQ. YD.	TOPSOIL TYPE A ()	AT \$ 50 .00 PER SQ. YD.	\$ 2,850 .00
TRAFFIC				
91	45. LIN. FT.	CEMENT CONC. TRAFFIC CURB AND GUTTER (6700)	AT \$ 60 .00 PER LIN. FT.	\$ 2,700 .00
92	7. EACH	TRANSPORTABLE ATTENUATOR (7447)	AT \$ 12,000 .00 PER EACH	\$ 84,000 .00
93	2,563. HOUR	OPERATION OF TRANSPORTABLE ATTENUATOR (7449)	AT \$ 85 .00 PER HOUR	\$ 217,855 .00
94	ESTIMATED	REPAIR TRANSPORTABLE ATTENUATOR (7450)	ESTIMATED	11,000.00
95	170. LIN. FT.	PAINT LINE (6806)	AT \$ 1 .00 PER LIN. FT.	\$ 170 .00
96	428. LIN. FT.	PLASTIC LINE (6807)	AT \$ 2 .00 PER LIN. FT.	\$ 856 .00
97	2. EACH	PLASTIC TRAFFIC ARROW (6833)	AT \$ 400 .00 PER EACH	\$ 800 .00
98	0.45 HUNDRED	RAISED PAVEMENT MARKER TYPE 1 (6882)	AT \$ 2,300 .00 PER HUNDRED	\$ 1,035 .00
99	0.14 HUNDRED	RAISED PAVEMENT MARKER TYPE 2 (6884)	AT \$ 2,300 .00 PER HUNDRED	\$ 322 .00
100	LUMP SUM	TEMP TRAFFIC SIGNAL, ILLUM, AND COMMUNICATION SYSTEM ()	LUMP SUM	\$ 17,000 .00
101	LUMP SUM	TRAFFIC SIGNAL, ILLUMINATION, AND COMMUNICATION SYSTEM ()	LUMP SUM	\$ 17,000 .00

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TRAFFIC				
102	428. LIN. FT.	TEMPORARY PAVEMENT MARKING-SHORT DURATION (6895)	AT 3.00 PER LIN. FT.	\$1,284.00
103	606. HOUR	SEQUENTIAL ARROW SIGN (6956)	AT \$10.00 PER HOUR	\$6,060.00
104	2,134. HOUR	PORTABLE CHANGEABLE MESSAGE SIGN (6993)	AT \$9.00 PER HOUR	\$19,206.00
105	LUMP SUM	OTHER TEMPORARY TRAFFIC CONTROL (6973)	LUMP SUM	\$100,000.00
106	440. HOUR	FLAGGERS (6980)	AT \$53.00 PER HOUR	\$23,320.00
107	588. HOUR	OTHER TRAFFIC CONTROL LABOR (6992)	AT \$56.00 PER HOUR	\$32,928.00
108	LUMP SUM	TRAFFIC CONTROL SUPERVISOR (6974)	LUMP SUM	\$108,000.00
109	96. SQ. FT.	CONSTRUCTION SIGNS CLASS A (6982)	AT \$30.00 PER SQ. FT.	\$2,880.00
110	LUMP SUM	PEDESTRIAN TRAFFIC CONTROL (6869)	LUMP SUM	\$6,000.00
OTHER ITEMS				
111	LUMP SUM	TYPE C PROGRESS SCHEDULE (7004)	LUMP SUM	\$10,000.00
112	17. EACH	SCHEDULE UPDATE (7000)	AT \$1000.00 PER EACH	\$17,000.00
113	2,365. CU. YD.	STRUCTURE EXCAVATION CLASS B INCL. HAUL (7006)	AT \$34.00 PER CU. YD.	\$80,410.00
114	14. CU. YD.	STRUCTURE EXCAVATION CLASS B INCL. HAUL FOR UT 1228 ()	AT \$30.00 PER CU. YD.	\$420.00

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OTHER ITEMS				
115	451. SQ. FT.	SHORING OR EXTRA EXCAVATION CLASS B (7008)	AT \$8.00 \$60.00 PER SQ. FT.	\$3,608.00 \$27,060.00
116	170. SQ. FT.	SHORING OR EXTRA EXCAVATION CLASS B FOR UT 1228 ()	AT \$8.00 PER SQ. FT.	\$1,360.00
117	LUMP SUM	STRUCTURE SURVEYING (7037)	LUMP SUM	\$12,000.00
118	LUMP SUM	ROADWAY SURVEYING (7038)	LUMP SUM	\$6,000.00
119	49. SQ. YD.	CEMENT CONC. SIDEWALK (7055)	AT \$53.00 PER SQ. YD.	\$2,597.00
120	43. LIN. FT.	CABLE FENCE (7080)	AT \$120.00 PER LIN. FT.	\$5,160.00
121	ESTIMATED	FORCE ACCOUNT - ADDITIONAL STREAMBED SEDIMENT (7715)	ESTIMATED	13,090.00
122	ESTIMATED	REIMBURSEMENT FOR THIRD PARTY DAMAGE (7725)	ESTIMATED	5.00
123	CALCULATED	MINOR CHANGE (7728)	CALCULATED	-1.00
124	CALCULATED	AGGREGATE COMPLIANCE PRICE ADJUSTMENT (7732)	CALCULATED	-1.00
125	LUMP SUM	SPCC PLAN (7736)	LUMP SUM	\$2,500.00
126	513. SQ. YD.	CONSTRUCTION GEOTEXTILE FOR SEPARATION (7530)	AT \$11.00 PER SQ. YD.	\$5,643.00
127	442. SQ. FT.	GEOSYNTHETIC RETAINING WALL (7559)	AT \$35.00 PER SQ. FT.	\$15,470.00
128	154. CU. YD.	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL (7567)	AT \$41.00 PER CU. YD.	\$6,314.00

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ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS *	TOTAL AMOUNT DOLLARS
OTHER ITEMS				
129	4,860. SQ. FT.	SHOTCRETE FACING (7561)	AT \$42.00 PER SQ. FT.	\$204,120.00
130	50. LIN. FT.	SPECIAL CONDUIT PIPE 4 IN. DIAM. INSTALLATION ()	AT \$50.00 PER LIN. FT.	\$2,500.00
131	200. LIN. FT.	SPECIAL CONDUIT PIPE 6 IN. DIAM. INSTALLATION ()	AT \$58.00 PER LIN. FT.	\$11,600.00
132	LUMP SUM	REFERENCING EXISTING PAVEMENT MARKINGS ()	LUMP SUM	\$3,000.00
133	LUMP SUM	TEMPORARY STREET PLATE ()	LUMP SUM	\$30,000.00
134	500. HOUR	CONTRACTOR PROVIDED UNIFORMED POLICE OFFICER ()	AT \$90.00 PER HOUR	\$45,000.00
135	LUMP SUM	INTERM CONFIGURATION PLAN ()	LUMP SUM	\$100,000.00
CONTRACT TOTAL:				\$499,536.50

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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.

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.

Bidder,

On August 10, 2015 the Washington State Department of Transportation made additional changes to the process for submitting Disadvantaged Business Enterprise (DBE) Condition of Award (COA) Goal documentation. Review the (DBE) specifications in the contract you are bidding on for changes in the requirements. Be advised that if a DBE is used to perform Force Account work, only 50% of the bid quantity may be used in the "Amount to be Applied Towards Goal" for purposes of the award of the contract. Failure to submit DBE documentation as required by the specifications will result in your bid being considered nonresponsive and your bid will be rejected.

YOU MUST INCLUDE IN YOUR BID OR SUBMIT AS A SUPPLEMENT TO YOUR BID:

A Disadvantaged Business Enterprise Utilization Certification (WSDOT Form #272-056 EF Revised 08/2015) which demonstrates how you will meet the DBE COA Goal. Be sure to review the instructions for filling out the form as the form and instructions have been revised. In particular, note that the form has been revised to collect both the amount subcontracted to each DBE as well as the amount to be applied towards the goal for each DBE. Please see form instructions and review the (DBE) specifications to determine when and how these amounts may differ. To assist you in selecting DBE firms refer to the Directory of Certified DBE Firms, available at: <http://omwbe.wa.gov/directory-of-certified-firms/>. The "Description of Work" on the Disadvantaged Business Enterprise Utilization Certification must be consistent with the "Description of Work" in the Directory of Certified DBE Firms or your bid may be rejected. Contractors submitting electronic bids may create/save a .ZIP version of this form and upload it in their electronic bid or submit this form in accordance with the bid supplement instructions in the Contract Provisions. Instructions for uploading the DBE Utilization Certification as an attachment to an electronic bid are available in the .ebs file.

DEADLINE FOR RECEIPT OF DISADVANTAGED BUSINESS ENTERPRISE (DBE) WRITTEN CONFIRMATION DOCUMENT(S) AND/OR GOOD FAITH EFFORT (GFE)

You must submit a Disadvantaged Business Enterprise (DBE) Written Confirmation Document for each DBE listed on your Disadvantaged Business Enterprise Utilization Certification by the deadline specified in the Contract Provisions. WSDOT has created Form # 422-031 EF Revised 08/2015 for this purpose. Keep in mind that bidders and DBEs may have a supply of the old forms. Do not use them – be sure to obtain the current version of the form. Required information has been added to this form therefore use of an earlier version of the form may result in bid rejection. The "Description of Work" and "Amount to be Applied Towards Goal" listed on the Disadvantaged Business Enterprise (DBE) Written Confirmation Document must be consistent with the "Description of Work" and "Amount to be Applied Towards Goal" listed on your Disadvantaged Business Enterprise Utilization Certification or your bid may be rejected.

You must submit Good Faith Effort (GFE) Documentation by the deadline specified in the Contract Provisions in addition to the Disadvantaged Business Enterprise Utilization Certification submitted with your proposal **ONLY IN THE EVENT** your efforts to solicit sufficient DBE participation have been unsuccessful and you are relying upon your Good Faith Effort Documentation in whole or part to meet the goal.

**THE ABOVE DOCUMENTS CAN NOW BE SUBMITTED VIA EMAIL TO:
CONTRACTAD&AWARD@WSDOT.WA.GOV**

Instructions for Disadvantaged Business Enterprise Utilization Certification (DOT Form 272-056)

To be eligible for award of the contract, the bidder shall properly complete and submit a Disadvantaged Business Enterprise Utilization Certification form with the bidder's sealed Bid Proposal that demonstrates how the bidder intends to meet the DBE Condition of Award (COA) goal.

Box 1: Name of Bidder (Proposal holder) submitting a bid.

Column 1: Name of the Disadvantaged Business Enterprise (DBE).

Column 2: The Project Role that the DBE will be performing as follows;

Subcontract, Subcontractor (Force Account), Manufacturer, Regular Dealer*, Broker

The role is used to determine what portion of the DBE participation may be credited toward the goal. See *Crediting DBE Participation toward Meeting the Goal* as described in the *Disadvantaged Business Enterprise Condition of Award Participation* specification.

Column 3: A description of the work to be performed by the DBE consistent with the eligible Description of Work in the OMWBE Directory of Certified DBE firms. If the DBE is to perform a portion of a bid item, then state Partial and what work is included, e.g., "Electrical (Partial) – Trenching". "Mobilization" will not be accepted as a description of work as it is not considered a distinct item of work that a DBE is certified to perform. The bidder may rely upon the descriptors listed in the Directory of Certified DBE Firms. Force Account work must be listed separately, for the purpose of calculating Goal participation percent and to determine the responsiveness at the time of Contract Award. For the purposes of meeting the DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Contractors Commitment to meet the DBE COA Goal.

Column 4: Amount to be subcontracted and this column is used for the purpose of determining the amount to be applied towards goal for Regular Dealer and Force Account work.

Column 5: The dollar amount for each DBE listed in the certification that the prime intends to apply towards meeting the DBE contract goal. It may be that only a portion of the amount paid to the DBE is eligible as COA participation. See *Crediting DBE Participation in the special provisions; Disadvantaged Business Enterprise Condition of Award Participation*.

Box 2: The goal stated in the contract in terms of a dollar amount or a percentage as noted under the general special provision; *DBE Condition of Award (COA) Goal, Disadvantaged Business Enterprise Condition of Award Participation*. When expressed as a percentage it is a percentage of the sum total of all bid items as submitted in the bidder's proposal.

Box 3: The total for column 5. This value must equal or exceed the goal amount.

Box 4: Check Box 4 if sufficient DBE Participation has been unsuccessful and a good faith effort will be submitted. Refer to the subsection titled, *Selection of Successful Bidder/Good Faith Efforts (GFE)* in the special provision, *DBE Condition of Award (COA) Goal, Disadvantaged Business Enterprise Condition of Award Participation*.

*** Note:** In accordance with 49 CFR 26.55(e)(2)(i), if the materials or supplies are purchased from a DBE Regular Dealer, the amount to be counted towards the DBE will be sixty percent (60%) of the cost of the materials or supplies, e.g., Material cost: \$100,000, allowable amount toward DBE goal; \$60,000.



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 within 48 hours of bid opening only in the event the bidder's efforts to solicit sufficient DBE participation has been unsuccessful. If submitting a good faith effort bidder needs to check Box 4 agreeing to submit good faith effort within 48 hours. The successful bidder's Disadvantaged Business Enterprise Utilization Certification shall be deemed a part of the resulting contract. Information on certified firms is available from OMWBE, online at: <http://www.omwbe.wa.gov> or Toll Free 1-866-208-1064.

Olson Brothers Excavating, Inc.

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 named DBEs. (If necessary, use additional sheet.)

Column 1 Name of DBE	Column 2 Project Role (Subcontractor, Subcontract (Force Accounts), Manufacturer, Regular Dealer, Broker)	Column 3 Description of Work (Separate Force Account work from other work for Goal Participation percentage purposes; see Instructions.)	Column 4 Amount Subcontracted to DBE \$0	Column 5 Amount to be Applied Towards Goal
GREEN CITY	SUB	LANDSCAPING / IRRIGATION	\$55,000.00 \$55,000.00	\$55,000.00 \$55,000.00
BC TRAFFIC PENNY LEE TRUCKING SO	SUB	TRAFFIC CONTRL	\$530,000.00	\$530,000.00
PENNY LEE TRUCKING	SUB	DUMP TRUCKING	\$60,000.00	\$60,000.00
PENNY LEE TRUCKING	SUB	EXCAVATION / DEMO	\$60,000.00 \$75,000.00	\$60,000.00 \$75,000.00
PUGET SOUND STEEL	SUB	REBAR SUPPLY & FAB	\$100,000.00	\$100,000.00

Disadvantaged Business Enterprise Subcontracting Goal: 16%

Total DBE Commitment 16%



By checking Box 4 the bidder is stating that their attempts to solicit sufficient DBE participation has been unsuccessful and good faith effort will be submitted within 48 hours of bid opening.

Box 4

* 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.

*** Column 5 must show a reduced or equal amount to that shown in Column 4 as appropriate for project role. See the section "Disadvantaged Business Enterprise Utilization Certification Form #272-056" in the Contract documents.

**** 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.



Washington State
Department of Transportation

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: Little Bear Creek Fish Barrier Removal

Bidder's Business Name: Olson Brothers Excavating

DBE's Business Name: Green City Inc

DBE Signature: [Signature]

DBE's Title: PM

Address: 2224 NE 31st St
Penton, WA 98056

Date: 3/30/16

By the above signature I certify that all the information on this form is complete and accurate to the best of my knowledge.

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: landscape / irrigation

Amount to be Applied Towards Goal: \$55,000.00

Amount to be Subcontracted to DBE*: \$55,000.00

*Optional Field



Washington State
Department of Transportation

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: SR202 LITTLE BEAR CREEK FISH BARRIER REMOVAL

Bidder's Business Name: OLSON BROTHERS EXCAVATING, INC.

DBE's Business Name: BC TRAFFIC LLC

DBE Signature: A. Gudman

DBE's Title: MEMBER

Address: PO Box 1670
Port Orchard WA 98366

Date: 03/30/16

By the above signature I certify that all the information on this form is complete and accurate to the best of my knowledge.

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: TRAFFIC CONTROL

Amount to be Applied Towards Goal: \$ 530,000.00

Amount to be Subcontracted to DBE*: \$530,000.00

*Optional Field



Washington State
Department of Transportation

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: Little Bear Creek Fish Barrier Removal

Bidder's Business Name: Olson Brothers Excavating, Inc.

DBE's Business Name: Penny Lee Trucking Inc.

DBE Signature: [Signature]

DBE's Title: Pres

Address: 5802 Cemetery Road
Arington Date: 3-30-16

By the above signature I certify that all the information on this form is complete and accurate to the best of my knowledge.

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: Dump Trucking, Demo, Excavating

Amount to be Applied Towards Goal: 120,000

Amount to be Subcontracted to DBE*: \$120,000.00
*Optional Field



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: LITTLE BEAR CREEK FISH BARRIER

Bidder's Business Name: OLSON BROTHERS EXCAVATING, INC.

DBE's Business Name: PUGET SOUND STEEL

DBE Signature: Mark L. Durrell

DBE's Title: ESTIMATOR

Address:

906 3RD AVE S., KENT, WA 98032

Date: 3/30/16

By the above signature I certify that all the information on this form is complete and accurate to the best of my knowledge.

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: FABRICATE AND DELIVER REINFORCING STEEL

Amount to be Applied Towards Goal: \$100,000.00

Amount to be Subcontracted to DBE*: \$100,000.00
*Optional Field



Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name Little Bear Creek Fish Barrier Removal

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

N/A
HVAC

Subcontractor Name

Work to be performed

N/A
PLUMBING

Subcontractor Name

Work to be performed

PIONEER CABLE
ELECTRICAL

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.



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) 1, _____ & _____

Signature of Authorized Official(s)

Proposal Must be Signed →

Steve Olson, Vice President

Firm Name OLSON BROTHERS EXCAVATING, INC.

Address 6622 112th St. E.

Puyallup, WA. 98373

State of Washington Contractor's License No. OLSONBE113N3

Federal ID No. [REDACTED]

Note:

- (1) This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Secretary of Transportation 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.
- (3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communication 030605.

5% BID BOND

