

Lewis County
Department of Public Works
Engineering Division

**CONTRACT
PROVISIONS AND PLANS
FOR CONSTRUCTION OF:
GRAF ROAD MP 1.01
CULVERT
REPLACEMENT PROJECT**

COUNTY MAINTENANCE PROJECT NO. 1531

January 2018

Lewis County Public Works
2025 NE Kresky Ave.
Chehalis, WA 98532-2626



BOARD OF COUNTY COMMISSIONERS

Edna J. Fund, District No. 1
Robert C. Jackson, District No. 2
Gary Stamper, District No. 3

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1 **INTRODUCTION**

2 The following Amendments and Special Provisions shall be used in conjunction with the 2016 Standard
3 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 and
8 supersede any conflicting provisions of the Standard Specifications. For informational purposes, the
9 date following each Amendment title indicates the implementation date of the Amendment or the latest
10 date of revision.

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

14
15
16 **Section 1-02, Bid Procedures and Conditions**

17 April 4, 2016

18 **1-02.4(1) General**

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

20
21 Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall
22 request the explanation or interpretation in writing by close of business on the Thursday preceding
23 the bid opening to allow a written reply to reach all prospective Bidders before the submission of
24 their Bids.

25
26 **1-02.9 Delivery of Proposal**

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

28
29 The Contracting Agency will not open or consider any Proposal when the Proposal or Bid deposit
30 is received after the time specified for receipt of Proposals or received in a location other than that
31 specified for receipt of Proposals unless an emergency or unanticipated event interrupts normal
32 work processes of the Contracting Agency so that Proposals cannot be received.

33
34 The following new paragraph is inserted before the last paragraph:

35
36 If an emergency or unanticipated event interrupts normal work processes of the Contracting
37 Agency so that Proposals cannot be received at the office designated for receipt of bids as
38 specified in Section 1-02.12 the time specified for receipt of the Proposal will be deemed to be
39 extended to the same time of day specified in the solicitation on the first work day on which the
40 normal work processes of the Contracting Agency resume.

41
42 **1-02.12 Public Opening of Proposals**

43 This section is supplemented with the following new paragraph:

44
45 If an emergency or unanticipated event interrupts normal work processes of the Contracting
46 Agency so that Proposals cannot be opened at the time indicated in the call for Bids the time
47 specified for opening of Proposals will be deemed to be extended to the same time of day on the
48 first work day on which the normal work processes of the Contracting Agency resume.

49
50 **Section 1-04, Scope of the Work**

51 January 3, 2017

1
2 **1-04.3 Reference Information**

3 This section is supplemented with the following new sentence:

4
5 If a document that is provided as reference information contains material also included as a part of
6 the Contract, that portion of the document shall be considered a part of the Contract and not as
7 Reference Information.
8

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

10 January 3, 2017

11 **1-07.1 Laws to be Observed**

12 In the second to last sentence of the third paragraph, "WSDOT" is revised to read "Contracting
13 Agency".
14

15 **1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax**

16 The last three sentences of the first paragraph are deleted and replaced with the following new
17 sentence:

18
19 The Contractor (Prime or Subcontractor) shall include sales or use tax on the purchase or rental of
20 tools, machinery, equipment, or consumable supplies not integrated into the project, in the unit bid
21 prices.
22

23 **1-07.8(1) Traffic Control Personnel**

24 In this section, references to "ANSI/ISEA 107-2004" are revised to read "ANSI/ISEA 107".
25

26 **1-07.8(2) Non-Traffic Control Personnel**

27 In this section, the reference to "ANSI/ISEA 107-2004" is revised to read "ANSI/ISEA 107".
28

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

30 The second sentence of the first paragraph is deleted.

31
32 The first sentence of the second paragraph is revised to read:

33
34 The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and other
35 materials defined in Chapter 447 of the WSDOT Environmental Manual M 31-11.
36

37 Item number four of the fourth paragraph (up until the colon) is revised to read:

- 38
39 4. **Potential Spill Sources** – Describe each of the following for all potentially hazardous
40 materials brought or generated on-site, including but not limited to materials used for
41 equipment operation, refueling, maintenance, or cleaning:
42

43 The first sentence of item 7e of the fourth paragraph is revised to read:

44
45 BMP methods and locations where they are used to prevent discharges to ground or water during
46 mixing and transfer of hazardous materials and fuel.
47

48 The last paragraph is deleted.
49

50 **Section 1-08, Prosecution and Progress**

51 January 3, 2017

1 **1-08.1 Subcontracting**

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

3
4 Whenever the Contractor withholds payment to a Subcontractor for any reason including disputed
5 amounts, the Contractor shall provide notice within 10 calendar days to the Subcontractor with a
6 copy to the Contracting Agency identifying the reason for the withholding and a clear description of
7 what the Subcontractor must do to have the withholding released.

8
9 The fourth sentence of the second to last paragraph is revised to read:

10
11 The Monthly Payment Summary shall include all Subcontractors that performed work that was paid
12 on the progress estimate by the Contracting Agency.

13
14 **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage Withheld**

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

16
17 The last sentence in item number 11 of the first paragraph is revised to read:

18
19 The Contractor may also require any documentation from the Subcontractor that is required by the
20 subcontract or by the Contract between the Contractor and Contracting Agency or by law such as
21 affidavits of wages paid, and material acceptance certifications to the extent that they relate to the
22 Subcontractor's Work.

23
24 Item number 12 of the first paragraph is revised to read:

25
26 12. If the Contractor fails to comply with the requirements of the Specification and the
27 Subcontractor's retainage or retainage bond is wrongfully withheld, the Contractor will be
28 subject to the actions described in No. 7 listed above. The Subcontractor may also seek
29 recovery against the Contractor under applicable prompt pay statutes in addition to any other
30 remedies provided for by the subcontract or by law.

31
32 **1-08.5 Time for Completion**

33 In item 2c of the last paragraph, "Quarterly Reports" is revised to read "Monthly Reports".

34
35 **Section 1-09, Measurement and Payment**

36 April 4, 2016

37 **1-09.6 Force Account**

38 The second sentence of item number 4 is revised to read:

39
40 A "specialized service" is a work operation that is not typically done by worker classifications as
41 defined by the Washington State Department of Labor and Industries and by the Davis Bacon Act,
42 and therefore bills by invoice for work in road, bridge and municipal construction.

43
44 **Section 1-10, Temporary Traffic Control**

45 January 3, 2017

46 **1-10.1(2) Description**

47 The first paragraph is revised to read:

48
49 The Contractor shall provide flaggers and all other personnel required for labor for traffic control
50 activities that are not otherwise specified as being furnished by the Contracting Agency.

51
52 In the third paragraph, "Project Engineer" is revised to read "Engineer".

1
2 The following new paragraph is inserted after the third paragraph:

3
4 The Contractor shall keep lanes, on-ramps, and off-ramps, open to traffic at all times except when
5 Work requires closures. Ramps shall not be closed on consecutive interchanges at the same time,
6 unless approved by the Engineer. Lanes and ramps shall be closed for the minimum time required
7 to complete the Work. When paving hot mix asphalt the Contractor may apply water to the
8 pavement to shorten the time required before reopening to traffic.

9
10 **1-10.3(2)C Lane Closure Setup/Takedown**

11 The following new paragraph is inserted before the last paragraph:

12
13 Channelization devices shall not be moved by traffic control personnel across an open lane of
14 traffic. If an existing setup or staging of traffic control devices require crossing an open lane of
15 traffic, the traffic control devices shall be taken down completely and then set up in the new
16 configuration.

17
18 **Section 8-11, Guardrail**

19 January 17, 2017

20 **8-11.3(1)C Terminal and Anchor Installation**

21 This section is supplemented with the following new paragraph:

22
23 Beam Guardrail Non-flared Terminals for Type 1 guardrail shall meet the crash test and evaluation
24 criteria of NCHRP 350 or the Manual for Assessing Safety Hardware (MASH). Beam Guardrail
25 Non-flared Terminals for Type 31 guardrail shall meet the crash test and evaluation criteria of
26 MASH.

27
28 **8-11.3(1)F Removing and Resetting Beam Guardrail**

29 The last sentence of the first paragraph is deleted.

30
31 **8-11.5 Payment**

32 The paragraph following the Bid item "Removing and Resetting Beam Guardrail", per linear foot is
33 revised to read:

34
35 The unit Contract price per linear foot for "Removing and Resetting Beam Guardrail" shall be full
36 payment for all costs to perform the Work as described in Section 8-11.3(1)F, except for
37 replacement posts and blocks.

38
39 The paragraph following the Bid item "Raising Existing Beam Guardrail", per linear foot is revised to
40 read:

41
42 The unit Contract price per linear foot for "Raising Existing Beam Guardrail" shall be full payment
43 for all costs to perform the Work as described in Section 8-11.3(1)E, except for replacement posts
44 and blocks.

1 INTRODUCTION

2
3 The following Special Provisions are made a part of this contract and supersede any conflicting
4 provisions of the 2016 Standard Specifications for Road, Bridge, and Municipal Construction, and the
5 foregoing Amendments to the Standard Specifications.

6
7 The said Standard Specifications and Amendments thereto, the WSDOT Standard Plans, and WSDOT
8 Construction Manual, together with the Special Provisions and the attached plans hereinafter contained,
9 covering all work specified under this contract are incorporated and hereby made a part of this contract.
10 The Special Provisions hereinafter contained shall supersede any conflicting provisions of the Standard
11 Specifications and Amendments thereto, the WSDOT Standard Plans, and WSDOT Construction
12 Manual.

13
14 Several types of Special Provisions are included in this contract; General, Region, Bridges and
15 Structures, and Project Specific. Special Provisions types are differentiated as follows:

- | | | |
|----|------------|---|
| 16 | | |
| 17 | (date) | General Special Provision |
| 18 | (*****) | Notes a revision to a General Special Provision
and also notes a Project Specific Special Provision. |
| 19 | | |
| 20 | (APWA GSP) | American Public Works Association General Special Provision |

21
22 **General Special Provisions** are similar to Standard Specifications in that they typically apply to many
23 projects, usually in more than one Region. Usually, the only difference from one project to another is
24 the inclusion of variable project data, inserted as a “fill-in”.

25
26 **Project Specific Special Provisions** normally appear only in the contract for which they were
27 developed.

28
29 The following paragraph pertaining to the Standard Specifications shall obtain and be made a part of
30 this contract:

31
32 Wherever the word “State” or “Contracting Agency” is used it shall mean Lewis County; that
33 wherever the words “Secretary (Secretary of Transportation)” are used they shall mean Lewis
34 County Engineer; that wherever the words “State Treasurer” are used they shall mean Lewis
35 County Treasurer; that wherever the words “State Auditor” are used they shall mean Lewis
36 County Auditor; that wherever the words “Motor Vehicle Fund” are used they shall mean Lewis
37 County Road Fund.

38 **SPECIAL PROVISIONS**

39 **DIVISION 1**
40 **GENERAL REQUIREMENTS**

41
42 **1-01, DESCRIPTION OF WORK**

43 (March 13, 1995)

44
45 This contract provides for the improvement of *** Graf Road MP 1.01 by installing a stream bypass,
46 removing the existing concrete twin box culvert, excavation, Geosynthetic Reinforced Soil construction,
47 precast voided slab bridge construction, streambed restoration, road restoration, guardrail,
48 hydroseeding *** and other related work, all in accordance with the attached Contract Plans, these
49 Contract Provisions, and the Standard Specifications.
50

1 **1-01.3 Definitions**
2 (January 4, 2016 APWA GSP)

3
4 Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with
5 the following:

6
7 **Dates**

8 ***Bid Opening Date***

9 The date on which the Contracting Agency publicly opens and reads the Bids.

10 ***Award Date***

11 The date of the formal decision of the Contracting Agency to accept the lowest responsible and
12 responsive Bidder for the Work.

13 ***Contract Execution Date***

14 The date the Contracting Agency officially binds the Agency to the Contract.

15 ***Notice to Proceed Date***

16 The date stated in the Notice to Proceed on which the Contract time begins.

17 ***Substantial Completion Date***

18 The day the Engineer determines the Contracting Agency has full and unrestricted use and
19 benefit of the facilities, both from the operational and safety standpoint, any remaining traffic
20 disruptions will be rare and brief, and only minor incidental work, replacement of temporary
21 substitute facilities, plant establishment periods, or correction or repair remains for the Physical
22 Completion of the total Contract.

23 ***Physical Completion Date***

24 The day all of the Work is physically completed on the project. All documentation required by
25 the Contract and required by law does not necessarily need to be furnished by the Contractor by
26 this date.

27 ***Completion Date***

28 The day all the Work specified in the Contract is completed and all the obligations of the
29 Contractor under the contract are fulfilled by the Contractor. All documentation required by the
30 Contract and required by law must be furnished by the Contractor before establishment of this
31 date.

32 ***Final Acceptance Date***

33 The date on which the Contracting Agency accepts the Work as complete.

34
35 Supplement this Section with the following:

36
37 All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions,
38 to the terms "Department of Transportation", "Washington State Transportation Commission",
39 "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer"
40 shall be revised to read "Contracting Agency".

41
42 All references to the terms "State" or "state" shall be revised to read "Contracting Agency" unless
43 the reference is to an administrative agency of the State of Washington, a State statute or
44 regulation, or the context reasonably indicates otherwise.

45
46 All references to "State Materials Laboratory" shall be revised to read "Contracting Agency
47 designated location".

48
49 All references to "final contract voucher certification" shall be interpreted to mean the Contracting
50 Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

1 **Additive**

2 A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which
3 may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

4
5 **Alternate**

6 One of two or more units of work or groups of bid items, identified separately in the Bid Proposal,
7 from which the Contracting Agency may make a choice between different methods or material of
8 construction for performing the same work.

9
10 **Business Day**

11 A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

12
13 **Contract Bond**

14 The definition in the Standard Specifications for "Contract Bond" applies to whatever bond form(s)
15 are required by the Contract Documents, which may be a combination of a Payment Bond and a
16 Performance Bond.

17
18 **Contract Documents**

19 See definition for "Contract".

20
21 **Contract Time**

22 The period of time established by the terms and conditions of the Contract within which the Work
23 must be physically completed.

24
25 **Notice of Award**

26 The written notice from the Contracting Agency to the successful Bidder signifying the Contracting
27 Agency's acceptance of the Bid Proposal.

28
29 **Notice to Proceed**

30 The written notice from the Contracting Agency or Engineer to the Contractor authorizing and
31 directing the Contractor to proceed with the Work and establishing the date on which the Contract
32 time begins.

33
34 **Traffic**

35 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
36 equestrian traffic.

37
38 **1-02, BID PROCEDURES AND CONDITIONS**

39
40 **1-02.1 Prequalification of Bidders**

41
42 Delete this Section and replace it with the following:

43
44 **1-02.1 Qualifications of Bidder**

45 *(January 24, 2011 APWA GSP)*

46
47 Before award of a public works contract, a bidder must meet at least the minimum qualifications of
48 RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public
49 works project.

50
51 **1-02.2 Plans and Specifications**

52 *(*****)*

1 The first paragraph of section 1-02.2 is revised to read:

2
3 Copies of the plans and specifications are on file in the office of:

4
5 Lewis County Public Works Department
6 2025 N.E. Kresky Avenue
7 Chehalis, Washington 98532
8 (360) 740-2612
9

10 The second paragraph of section 1-02.2 is revised to read:

11
12 Prospective bidders may obtain plans and specifications from Lewis County Public
13 Works Department in Chehalis, Washington or download from Lewis County Website at
14 www.lewiscountywa.gov.
15

16 **1-02.6 Preparation Of Proposal**

17
18 (August 2, 2004)

19 The fifth and sixth paragraphs of Section 1-02.6 are deleted.

20 21 **1-02.9 Delivery of Proposal**

22 (August 15, 2012 APWA GSP, Option A)

23
24 Delete this section and replace it with the following:

25
26 Each proposal shall be submitted in a sealed envelope, with the Project Name and Project Number
27 as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise
28 required in the Bid Documents, to ensure proper handling and delivery.
29

30 If the project has FHWA funding and requires DBE Written Confirmation Documents or Good Faith
31 Effort Documentation, then to be considered responsive, the Bidder shall submit with their Bid
32 Proposal, written Confirmation Documentation from each DBE firm listed on the Bidder's completed
33 DBE Utilization Certification, form 272-056A EF, as required by Section 1-02.6.
34

35 The Contracting Agency will not open or consider any Bid Proposal that is received after the time
36 specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that
37 specified in the Call for Bids.
38

39 **1-02.12 Public Opening Of Proposal**

40 (*****)

41
42 Section 1-02.12 is supplemented with the following:

43 **Date and Time of Bid Opening**

44 The Board of County Commissioners of Lewis County or designee, will open sealed proposals and
45 publicly read them aloud on or after 11:00 a.m. on **January 30, 2018**, at the Lewis County
46 Courthouse, Chehalis, Washington, for the Graf Road MP 1.01 Culvert Replacement Project CMP-
47 1531.
48

49 50 **SEALED BIDS MUST BE DELIVERED BY OR BEFORE** 51 **11:00 A.M. on Tuesday, January 30, 2018**

52 (Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners.
53 **Bids submitted after 11:00 AM will not be considered for this project.**)
54

1 **Delivery and Marking of Sealed Bid Proposals**

2 Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners
3 (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532) by or before **11:00**
4 **a.m.** on the date specified for opening, and in an envelope clearly marked: **“SEALED BID FOR**
5 **THE GRAF ROAD MP 1.01 CULVERT REPLACEMENT PROJECT CMP-1531, TO BE OPENED**
6 **ON OR AFTER 11:00 A.M. ON JANUARY 30, 2018”.**

7
8 **1-02.13 Irregular Proposals**

9 *(January 4, 2016 APWA GSP)*

10
11 Delete this section and replace it with the following:

- 12
13 1. A proposal will be considered irregular and will be rejected if:
- 14 a. The Bidder is not prequalified when so required;
 - 15 b. The authorized proposal form furnished by the Contracting Agency is not used or is
16 altered;
 - 17 c. The completed proposal form contains any unauthorized additions, deletions, alternate
18 Bids, or conditions;
 - 19 d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into
20 the Contract;
 - 21 e. A price per unit cannot be determined from the Bid Proposal;
 - 22 f. The Proposal form is not properly executed;
 - 23 g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as
24 required in Section 1-02.6;
 - 25 h. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise
26 Certification, if applicable, as required in Section 1-02.6;
 - 27 i. The Bidder fails to submit written confirmation from each DBE firm listed on the Bidder's
28 completed DBE Utilization Certification that they are in agreement with the bidders DBE
29 participation commitment, if applicable, as required in Section 1-02.6, or if the written
30 confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - 31 j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as
32 required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate
33 that a Good Faith Effort to meet the Condition of Award was made;
 - 34 k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material
35 terms of the Bid invitation; or
 - 36 l. More than one proposal is submitted for the same project from a Bidder under the same
37 or different names.
- 38
39 2. A Proposal may be considered irregular and may be rejected if:
- 40 a. The Proposal does not include a unit price for every Bid item;
 - 41 b. Any of the unit prices are excessively unbalanced (either above or below the amount of
42 a reasonable Bid) to the potential detriment of the Contracting Agency;
 - 43 c. Receipt of Addenda is not acknowledged;
 - 44 d. A member of a joint venture or partnership and the joint venture or partnership submit
45 Proposals for the same project (in such an instance, both Bids may be rejected); or
 - 46 e. If Proposal form entries are not made in ink.

47
48 **1-02.14 Disqualification of Bidders**

49 *(March 8, 2013 APWA GSP, Option B)*

50
51 Delete this Section and replace it with the following:

1 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder
2 responsibility criteria in RCW 39.04.350(1), as amended; or does not meet the following
3 Supplemental Criteria:
4

5 **1. Delinquent State Taxes**

- 6
- 7 A. Criterion: The Bidder shall not owe delinquent taxes to the Washington State
8 Department of Revenue without a payment plan approved by the Department of
9 Revenue.
10
- 11 B. Documentation: The Bidder shall not be listed on the Washington State Department of
12 Revenue's "Delinquent Taxpayer List" website:
13 <http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx> , or if they are so
14 listed, they must submit a written payment plan approved by the Department of
15 Revenue, to the Contracting Agency by the deadline listed below.
16

17 **2. Federal Debarment**

- 18
- 19 A. Criterion: The Bidder shall not currently be debarred or suspended by the Federal
20 government.
21
- 22 B. Documentation: The Bidder shall not be listed as having an "active exclusion" on the
23 U.S. government's "System for Award Management" database (www.sam.gov).
24

25 **3. Subcontractor Responsibility**

- 26
- 27 A. Criterion: The Bidder's standard subcontract form shall include the subcontractor
28 responsibility language required by RCW 39.06.020, and the Bidder shall have an
29 established procedure which it utilizes to validate the responsibility of each of its
30 subcontractors. The Bidder's subcontract form shall also include a requirement that
31 each of its subcontractors shall have and document a similar procedure to determine
32 whether the sub-tier subcontractors with whom it contracts are also "responsible"
33 subcontractors as defined by RCW 39.06.020.
34
- 35 B. Documentation: The Bidder, if and when required as detailed below, shall submit a
36 copy of its standard subcontract form for review by the Contracting Agency, and a
37 written description of its procedure for validating the responsibility of subcontractors
38 with which it contracts.
39

40 **4. Prevailing Wages**

- 41
- 42 A. Criterion: The Bidder shall not have a record of prevailing wage violations as
43 determined by WA Labor & Industries in the five years prior to the bid submittal date,
44 that demonstrates a pattern of failing to pay workers prevailing wages, unless there
45 are extenuating circumstances and such circumstances are deemed acceptable to the
46 Contracting Agency.
47
- 48 B. Documentation: The Bidder, if and when required as detailed below, shall submit a list
49 of all prevailing wage violations in the five years prior to the bid submittal date, along
50 with an explanation of each violation and how it was resolved. The Contracting
51 Agency will evaluate these explanations and the resolution of each complaint to
52 determine whether the violation demonstrate a pattern of failing to pay its workers
53 prevailing wages as required.
54

1 **5. Claims Against Retainage and Bonds**

2
3 A. Criterion: The Bidder shall not have a record of excessive claims filed against the
4 retainage or payment bonds for public works projects in the three years prior to the bid
5 submittal date, that demonstrate a lack of effective management by the Bidder of
6 making timely and appropriate payments to its subcontractors, suppliers, and workers,
7 unless there are extenuating circumstances and such circumstances are deemed
8 acceptable to the Contracting Agency.

9
10 B. Documentation: The Bidder, if and when required as detailed below, shall submit a list
11 of the public works projects completed in the three years prior to the bid submittal date
12 that have had claims against retainage and bonds and include for each project the
13 following information:

- 14 • Name of project
- 15 • The owner and contact information for the owner;
- 16 • A list of claims filed against the retainage and/or payment bond for any of the
17 projects listed;
- 18 • A written explanation of the circumstances surrounding each claim and the
19 ultimate resolution of the claim.

20
21
22 **6. Public Bidding Crime**

23
24 A. Criterion: The Bidder and/or its owners shall not have been convicted of a crime
25 involving bidding on a public works contract in the five years prior to the bid submittal
26 date.

27
28 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
29 statement (on a form to be provided by the Contracting Agency) that the Bidder and/or
30 its owners have not been convicted of a crime involving bidding on a public works
31 contract.

32
33 **7. Termination for Cause / Termination for Default**

34
35 A. Criterion: The Bidder shall not have had any public works contract terminated for
36 cause or terminated for default by a government agency in the five years prior to the
37 bid submittal date, unless there are extenuating circumstances and such
38 circumstances are deemed acceptable to the Contracting Agency.

39
40 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
41 statement (on a form to be provided by the Contracting Agency) that the Bidder has
42 not had any public works contract terminated for cause or terminated for default by a
43 government agency in the five years prior to the bid submittal date; or if Bidder was
44 terminated, describe the circumstances. .

45
46 **8. Lawsuits**

47
48 A. Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder
49 in the five years prior to the bid submittal date that demonstrate a pattern of failing to
50 meet the terms of contracts, unless there are extenuating circumstances and such
51 circumstances are deemed acceptable to the Contracting Agency

52
53 B. Documentation: The Bidder, if and when required as detailed below, shall sign a
54 statement (on a form to be provided by the Contracting Agency) that the Bidder has

1 not had any lawsuits with judgments entered against the Bidder in the five years prior
2 to the bid submittal date that demonstrate a pattern of failing to meet the terms of
3 contracts, or shall submit a list of all lawsuits with judgments entered against the
4 Bidder in the five years prior to the bid submittal date, along with a written explanation
5 of the circumstances surrounding each such lawsuit. The Contracting Agency shall
6 evaluate these explanations to determine whether the lawsuits demonstrate a pattern
7 of failing to meet of terms of construction related contracts

8
9 As evidence that the Bidder meets the mandatory and supplemental responsibility criteria stated
10 above, the apparent two lowest Bidders must submit to the Contracting Agency by 12:00 P.M.
11 (noon) of the second business day following the bid submittal deadline, a written statement
12 verifying that the Bidder meets all of the mandatory and supplemental criteria together with
13 supporting documentation including but not limited to that detailed above (sufficient in the sole
14 judgment of the Contracting Agency) demonstrating compliance with all mandatory and
15 supplemental responsibility criteria. The Contracting Agency reserves the right to request such
16 documentation from other Bidders as well, and to request further documentation as needed to
17 assess Bidder responsibility. The Contracting Agency also reserves the right to obtain information
18 from third-parties and independent sources of information concerning a Bidder's compliance with
19 the mandatory and supplemental criteria, and to use that information in their evaluation. The
20 Contracting Agency may (but is not required to) consider mitigating factors in determining whether
21 the Bidder complies with the requirements of the supplemental criteria.

22
23 The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria
24 shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or
25 third parties) including but not limited to: (i) financial, historical, or operational data from the
26 Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the
27 Bidder has worked, or other public agencies or private enterprises; and (iii) any additional
28 information obtained by the Contracting Agency which is believed to be relevant to the matter.

29
30 If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria
31 above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in
32 writing, with the reasons for its determination. If the Bidder disagrees with this determination, it
33 may appeal the determination within two (2) business days of the Contracting Agency's
34 determination by presenting its appeal and any additional information to the Contracting Agency.
35 The Contracting Agency will consider the appeal and any additional information before issuing its
36 final determination. If the final determination affirms that the Bidder is not responsible, the
37 Contracting Agency will not execute a contract with any other Bidder until at least two business
38 days after the Bidder determined to be not responsible has received the Contracting Agency's
39 final determination.

40
41 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with
42 concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria
43 may make or submit requests to the Contracting Agency to modify the criteria. Such requests
44 shall be in writing, describe the nature of the concerns, and propose specific modifications to the
45 criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5)
46 business days prior to the bid submittal deadline and address the request to the Project Engineer
47 or such other person designated by the Contracting Agency in the Bid Documents.

48
49 **1-02.15 Pre Award Information**
50 (August 14, 2013 APWA GSP)

51
52 Revise this section to read:
53

1 Before awarding any contract, the Contracting Agency may require one or more of these items or
2 actions of the apparent lowest responsible bidder:

- 3 1. A complete statement of the origin, composition, and manufacture of any or all materials to be
4 used,
- 5 2. Samples of these materials for quality and fitness tests,
- 6 3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time
7 required for the various phases of the work,
- 8 4. A breakdown of costs assigned to any bid item,
- 9 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 10 6. Obtain, and furnish a copy of, a business license to do business in the city or county where the
11 work is located.
- 12 7. Any other information or action taken that is deemed necessary to ensure that the bidder is the
13 lowest responsible bidder.
14

15 **1-03, AWARD AND EXECUTION OF CONTRACT**

16 **1-03.2 Award of Contract**

17 (*****)

18 Section 1-03.2 is supplemented with the following:
19

20
21 The Contracting Agency Reserves the right to delay Contract Award until all Permitting agencies
22 have concurred with Contract Plans and issued permits.
23

24 **1-03.3 Execution of Contract**

25 (October 1, 2005 APWA GSP)
26

27 Revise this section to read:
28

29 Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for
30 signature by the successful bidder on the first business day following award. The number of copies
31 to be executed by the Contractor will be determined by the Contracting Agency.
32

33 Within 15 calendar days after the award date, the successful bidder shall return the signed
34 Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18,
35 and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by
36 the Contracting Agency, the successful bidder shall provide any pre-award information the
37 Contracting Agency may require under Section 1-02.15.
38

39 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency
40 nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The
41 Contractor shall bear all risks for any work begun outside such areas and for any materials ordered
42 before the contract is executed by the Contracting Agency.
43

44 If the bidder experiences circumstances beyond their control that prevents return of the contract
45 documents within the calendar days after the award date stated above, the Contracting Agency
46 may grant up to a maximum of 5 additional calendar days for return of the documents, provided
47 the Contracting Agency deems the circumstances warrant it.
48

49 **1-03.4 Contract Bond**

1 (July 23, 2015 APWA GSP)

2
3 Delete the first paragraph and replace it with the following:

4
5 The successful bidder shall provide executed payment and performance bond(s) for the full contract
6 amount. The bond may be a combined payment and performance bond; or be separate payment
7 and performance bonds. In the case of separate payment and performance bonds, each shall be
8 for the full contract amount. The bond(s) shall:

- 9 1. Be on Contracting Agency-furnished form(s);
- 10 2. Be signed by an approved surety (or sureties) that:
 - 11 a. Is registered with the Washington State Insurance Commissioner, and
 - 12 b. Appears on the current Authorized Insurance List in the State of Washington published by
13 the Office of the Insurance Commissioner,
- 14 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and
15 conditions under the Contract, including but not limited to the duty and obligation to indemnify,
16 defend, and protect the Contracting Agency against all losses and claims related directly or
17 indirectly from any failure:
 - 18 a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of
19 the Contractor) to faithfully perform and comply with all contract obligations, conditions, and
20 duties, or
 - 21 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to
22 pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or
23 any other person who provides supplies or provisions for carrying out the work;
- 24 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project
25 under titles 50, 51, and 82 RCW; and
- 26 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond;
27 and
- 28 6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor
29 or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or
30 vice president, unless accompanied by written proof of the authority of the individual signing the
31 bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such
32 effect signed by the president or vice president).

34 **1-05, CONTROL OF WORK**

35 (March 13, 1995)

37 **1-05.7 Removal Of Defective And unauthorized Work**

38 (October 1, 2005 APWA GSP)

39
40 Supplement this section with the following:

41
42 If the Contractor fails to remedy defective or unauthorized work within the time specified in a
43 written notice from the Engineer, or fails to perform any part of the work required by the Contract
44 Documents, the Engineer may correct and remedy such work as may be identified in the written
45 notice, with Contracting Agency forces or by such other means as the Contracting Agency may
46 deem necessary.

47
48 If the Contractor fails to comply with a written order to remedy what the Engineer determines to be
49 an emergency situation, the Engineer may have the defective and unauthorized work corrected
50 immediately, have the rejected work removed and replaced, or have work the Contractor refuses to
51 perform completed by using Contracting Agency or other forces. An emergency situation is any

1 situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or
2 might cause serious risk of loss or damage to the public.

3
4 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying
5 defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid
6 by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due,
7 the Contractor. Such direct and indirect costs shall include in particular, but without limitation,
8 compensation for additional professional services required, and costs for repair and replacement of
9 work of others destroyed or damaged by correction, removal, or replacement of the Contractor's
10 unauthorized work.

11
12 No adjustment in contract time or compensation will be allowed because of the delay in the
13 performance of the work attributable to the exercise of the Contracting Agency's rights provided by
14 this Section.

15
16 The rights exercised under the provisions of this section shall not diminish the Contracting
17 Agency's right to pursue any other avenue for additional remedy or damages with respect to the
18 Contractor's failure to perform the work as required.

19
20 **1-05.13 Superintendents, Labor and Equipment of Contractor**
21 *(August 14, 2013 APWA GSP)*

22
23 Delete the sixth and seventh paragraphs of this section.

24
25 **1-05.14 Cooperation With Other Contractors**

26 Section 1-05.14 is supplemented with the following:
27 *(March 13, 1995)*

28
29 **Other Contracts Or Other Work**

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

32
33 \$\$ Utilities and/or Utility Contractors. The contractor's attention is directed to Section 1-07.17
34 these Special Provisions. \$\$

35
36 **1-05.15 Method of Serving Notices**

37 *(March 25, 2009 APWA GSP)*

38 Revise the second paragraph to read:

39
40 All correspondence from the Contractor shall be directed to the Project Engineer. All
41 correspondence from the Contractor constituting any notification, notice of protest, notice of dispute,
42 or other correspondence constituting notification required to be furnished under the Contract, must
43 be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office.
44 Electronic copies such as e-mails or electronically delivered copies of correspondence will not
45 constitute such notice and will not comply with the requirements of the Contract.

46
47 **1-06, CONTROL OF MATERIAL**

48 **Buy America**

49 Section 1-06 is supplemented with the following:

50
51 *(August 6, 2012)*

52 In accordance with Buy America requirements contained in 23 CFR 635.410, the major quantities
53 of steel and iron construction material that is permanently incorporated into the project shall consist

1 of American-made materials only. Buy America does not apply to temporary steel items, e.g.,
2 temporary sheet piling, temporary bridges, steel scaffolding and falsework.

3
4 Minor amounts of foreign steel and iron may be utilized in this project provided the cost of the
5 foreign material used does not exceed one-tenth of one percent of the total contract cost or
6 \$2,500.00, whichever is greater.

7
8 American-made material is defined as material having all manufacturing processes occurring
9 domestically. To further define the coverage, a domestic product is a manufactured steel material
10 that was produced in one of the 50 States, the District of Columbia, Puerto Rico, or in the territories
11 and possessions of the United States.

12
13 If domestically produced steel billets or iron ingots are exported outside of the area of coverage, as
14 defined above, for any manufacturing process then the resulting product does not conform to the
15 Buy America requirements. Additionally, products manufactured domestically from foreign source
16 steel billets or iron ingots do not conform to the Buy America requirements because the initial
17 melting and mixing of alloys to create the material occurred in a foreign country.

18
19 Manufacturing begins with the initial melting and mixing, and continues through the coating stage.
20 Any process which modifies the chemical content, the physical size or shape, or the final finish is
21 considered a manufacturing process. The processes include rolling, extruding, machining,
22 bending, grinding, drilling, welding, and coating. The action of applying a coating to steel or iron is
23 deemed a manufacturing process. Coating includes epoxy coating, galvanizing, aluminizing,
24 painting, and any other coating that protects or enhances the value of steel or iron. Any process
25 from the original reduction from ore to the finished product constitutes a manufacturing process for
26 iron.

27
28 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys),
29 scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

30
31 The following are considered to be steel manufacturing processes:

- 32
- 33 1. Production of steel by any of the following processes:
 - 34 a. Open hearth furnace.
 - 35 b. Basic oxygen.
 - 36 c. Electric furnace.
 - 37 d. Direct reduction.
 - 38 2. Rolling, heat treating, and any other similar processing.
 - 39 3. Fabrication of the products.
 - 40 a. Spinning wire into cable or strand.
 - 41 b. Corrugating and rolling into culverts.
 - 42 c. Shop fabrication.
- 43
44
45
46
47
48
49
50
51
52

53 A certification of materials origin will be required for any items comprised of, or containing, steel or
54 iron construction materials prior to such items being incorporated into the permanent work. The

1 certification shall be on DOT Form 350-109EF provided by the Engineer, or such other form the
2 Contractor chooses, provided it contains the same information as DOT Form 350-109EF.
3

4 **1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

5 **1-07.1 Laws to be Observed**

6 *(October 1, 2005 APWA GSP)*
7

8 Supplement this section with the following:
9

10
11 In cases of conflict between different safety regulations, the more stringent regulation shall apply.
12

13 The Washington State Department of Labor and Industries shall be the sole and paramount
14 administrative agency responsible for the administration of the provisions of the Washington
15 Industrial Safety and Health Act of 1973 (WISHA).
16

17 The Contractor shall maintain at the project site office, or other well-known place at the project site,
18 all articles necessary for providing first aid to the injured. The Contractor shall establish, publish,
19 and make known to all employees, procedures for ensuring immediate removal to a hospital, or
20 doctor's care, persons, including employees, who may have been injured on the project site.
21 Employees should not be permitted to work on the project site before the Contractor has
22 established and made known procedures for removal of injured persons to a hospital or a doctor's
23 care.
24

25 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the
26 Contractor's plant, appliances, and methods, and for any damage or injury resulting from their
27 failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely
28 responsible for the conditions of the project site, including safety for all persons and property in the
29 performance of the work. This requirement shall apply continuously, and not be limited to normal
30 working hours. The required or implied duty of the Engineer to conduct construction review of the
31 Contractor's performance does not, and shall not, be intended to include review and adequacy of
32 the Contractor's safety measures in, on, or near the project site.
33

34 **1-07.2 State Taxes**

35
36 Delete this section, including its sub-sections, in its entirety and replace it with the following:
37

38 **1-07.2 State Sales Tax**

39 *(June 27, 2011 APWA GSP)*
40

41 The Washington State Department of Revenue has issued special rules on the State sales tax.
42 Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should
43 contact the Washington State Department of Revenue for answers to questions in this area. The
44 Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax
45 liability.
46

47 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract
48 amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2)
49 describes this exception.
50

51 The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-
52 funded Project) only if the Contractor has obtained from the Washington State Department of
53 Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051).

1 The Contracting Agency may deduct from its payments to the Contractor any amount the
2 Contractor may owe the Washington State Department of Revenue, whether the amount owed
3 relates to this contract or not. Any amount so deducted will be paid into the proper State fund.
4

5 **1-07.2(1) State Sales Tax — Rule 171**

6
7 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc.,
8 which are owned by a municipal corporation, or political subdivision of the state, or by the United
9 States, and which are used primarily for foot or vehicular traffic. This includes storm or combined
10 sewer systems within and included as a part of the street or road drainage system and power lines
11 when such are part of the roadway lighting system. For work performed in such cases, the
12 Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or
13 other contract amounts, including those that the Contractor pays on the purchase of the materials,
14 equipment, or supplies used or consumed in doing the work.
15

16 **1-07.2(2) State Sales Tax — Rule 170**

17
18 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing
19 buildings, or other structures, upon real property. This includes, but is not limited to, the
20 construction of streets, roads, highways, etc., owned by the state of Washington; water mains and
21 their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and
22 disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph,
23 electrical power distribution lines, or other conduits or lines in or above streets or roads, unless
24 such power lines become a part of a street or road lighting system; and installing or attaching of any
25 article of tangible personal property in or to real property, whether or not such personal property
26 becomes a part of the realty by virtue of installation.
27

28 For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail
29 sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to
30 each payment to the Contractor. For this reason, the Contractor shall not include the retail sales
31 tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following
32 exception.
33

34 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a
35 subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable
36 supplies not integrated into the project. Such sales taxes shall be included in the unit bid item
37 prices or in any other contract amount.
38

39 **1-07.2(3) Services**

40
41 The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly
42 for professional or other services (as defined in Washington State Department of Revenue Rules
43 138 and 244).
44

45 **1-07.5 Environmental Regulations**

46 Section 1-07.5 is supplemented with the following:
47

48 (September 20, 2010)

49 **Environmental Commitments**

50 The following Provisions summarize the requirements, in addition to those required elsewhere in
51 the Contract, imposed upon the Contracting Agency by the various documents referenced in the
52 Special Provision **Permits and Licenses**. Throughout the work, the Contractor shall comply with
53 the following requirements:
54

1 **General**

2 The Contractor shall ensure that the Project Manager representing the Prime Contractor and
3 all Subcontractors has read and understands this Special Provision. Prior to commencing any
4 work on site, the Contractor shall provide the Engineer with a signed statement from the
5 Project Manager stating that the Project Manager has read, understands and will abide by the
6 conditions of this Special Provision.

7
8 **Wetlands and Water Quality**

9 The following restrictions and requirements pertain to work throughout the project limits:

10
11 (August 3, 2009)

12 Temporary BMPs shall be used to allow turbid water to settle before discharge to the
13 stream. Settling time shall be sufficient to meet water quality standards. The flow rate of
14 turbid water into the stream shall not exceed one tenth of the natural flow rate of the
15 stream at the time of discharge. Before discharging to the stream, the Contractor shall
16 request the Engineer to sample the water to ensure the water is in compliance with water
17 quality standards.

18
19 (August 3, 2009)

20 During any operation involving saw cutting of concrete, all water generated by the cutting
21 operation shall be controlled and contained, to be disposed of on land with no possibility
22 of entry to waters of the State, including wetlands.

23
24 (February 25, 2013)

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

30
31 (February 25, 2013)

32 Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army
33 Corps of Engineers must maintain normal downstream flows and prevent upstream and
34 downstream flooding to the maximum extent practicable.

35
36 (February 25, 2013)

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

39
40 (August 3, 2009)

41 The Contractor shall notify the Engineer a minimum of 10 calendar days prior to
42 commencing any work in environmentally sensitive areas, mitigation area, and wetland
43 buffers. Installation of construction fencing is excluded from this notice requirement. At
44 the time of notification, the Contractor shall submit a work plan for view and approval
45 detailing how the work will be performed. Plan detail must be sufficient to verify that work
46 is in conformance with all contract provisions.

47
48 (August 3, 2009)

49 No Contractor staging areas will be allowed within *** 50 *** feet of any waters of the
50 State including wetlands. Refueling or storage of hazardous substances shall occur at
51 least 200 feet away from any waters of the State including wetlands. All staging,
52 stockpile and refueling areas shall be within the limits of the Area of Potential Effect as
53 depicted on the TESC Sheet in the Construction Plans.

1 (August 3, 2009)

2 **Payment**

3
4 All costs to comply with this special provision for the environmental commitments and
5 requirements are incidental to the contract and are the responsibility of the Contractor. The
6 Contractor shall include all related costs in the associated bid prices of the contract.
7

8 **1-06.7 Permits and Licenses**

9 Section 1-07.6 is supplemented with the following:

10
11 (September 20, 2010)

12 The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the
13 permit(s) is attached as an appendix for informational purposes. All contacts with the permitting
14 agency concerning the below-listed permit(s) shall be through the Engineer. The Contractor shall
15 obtain additional permits as necessary. All costs to obtain and comply with additional permits shall
16 be included in the applicable bid items for the work involved. Copies of these permits are required
17 to be onsite at all times.
18

Permit, Approval, Certification or Concurrence	Permitting Agency
Section 404 Nationwide Permit 27	US Army Corps of Engineers (USACE)
Section 106 Concurrence	Department of Archaeology and Historic Preservation (DAHP)
Hydraulic Permit Approval	Washington Department of Fish and Wildlife

19 **The contractor shall ensure that all permit conditions have been read, understood and will be**
20 **complied with. The Project Environmental Review Form must be signed by the contractor to**
21 **document this.**
22

23
24 **1-07.7 Load Limits**

25 Section 1-07.7 is supplemented with the following:

26
27 (*****)

28 If the source of materials provided by the Contractor necessitates hauling over roads other than
29 Lewis County roads, the Contractor shall, at the Contractor's expense, make all arrangements
30 for the use of the haul routes.
31

32 Any vehicle providing material paid for by the ton, on the project, will provide licensed tonnage
33 for that vehicle.
34

35 **1-07.9 Wages**

36
37 **General**

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

39
40 (January 8, 2016)

41 The Federal wage rates incorporated in this contract have been established by the Secretary
42 of Labor under United States Department of Labor General Decision No. WA160001.
43

44 The State rates incorporated in this contract are applicable to all construction activities
45 associated with this contract.
46

47 (April 2, 2007)

1 **Application of Wage Rates for the Occupation of Landscape Construction**

2 State prevailing wage rates for public works contracts are included in this contract and show a
3 separate listing for the occupation:

4
5 Landscape Construction, which includes several different occupation descriptions such
6 as: Irrigation and Landscape Plumbers, Irrigation and Landscape Power Equipment
7 Operators, and Landscaping or Planting Laborers.

8
9 In addition, federal wage rates that are included in this contract may also include occupation
10 descriptions in Federal Occupational groups for work also specifically identified with
11 landscaping such as:

12
13 Laborers with the occupation description, Landscaping or Planting, or

14
15 Power Equipment Operators with the occupation description, Mulch Seeding Operator.

16
17 If Federal wage rates include one or more rates specified as applicable to landscaping work,
18 then Federal wage rates for all occupation descriptions, specific or general, must be
19 considered and compared with corresponding State wage rates. The higher wage rate, either
20 State or Federal, becomes the minimum wage rate for the work performed in that occupation.

21
22 Contractors are responsible for determining the appropriate crafts necessary to perform the
23 contract work. If a classification considered necessary for performance of the work is missing
24 from the Federal Wage Determination applicable to the contract, the Contractor shall initiate a
25 request for approval of a proposed wage and benefit rate. The Contractor shall prepare and
26 submit Standard Form 1444, Request for Authorization of Additional Classification and Wage
27 Rate available at <http://www.wdol.gov/docs/sf1444.pdf> , and submit the completed form to the
28 Project Engineer’s office. The presence of a classification wage on the Washington State
29 Prevailing Wage Rates For Public Works Contracts does not exempt the use of form 1444 for
30 the purpose of determining a federal classification wage rate.

31
32 **1-07.11 Requirements For Nondiscrimination**

33 Section 1-07.11 is supplemented with the following:

34
35 (August 5, 2013)

36 Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order
37 11246)

- 38
39 1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal
40 Equal Employment Opportunity Construction Contract Specifications set forth herein.
41
42 2. The goals and timetables for minority and female participation set by the Office of Federal
43 Contract Compliance Programs, expressed in percentage terms for the Contractor's
44 aggregate work force in each construction craft and in each trade on all construction work in
45 the covered area, are as follows:

46
47 Women - Statewide

48
49

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%

50
51
52 Minorities - by Standard Metropolitan Statistical Area (SMSA)
53

1	Spokane, WA:	
2	SMSA Counties:	
3	Spokane, WA	2.8
4	WA Spokane.	
5	Non-SMSA Counties	3.0
6	WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA	
7	Pend Oreille; WA Stevens; WA Whitman.	
8		
9	Richland, WA	
10	SMSA Counties:	
11	Richland Kennewick, WA	5.4
12	WA Benton; WA Franklin.	
13	Non-SMSA Counties	3.6
14	WA Walla Walla.	
15		
16	Yakima, WA:	
17	SMSA Counties:	
18	Yakima, WA	9.7
19	WA Yakima.	
20	Non-SMSA Counties	7.2
21	WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	
22		
23	Seattle, WA:	
24	SMSA Counties:	
25	Seattle Everett, WA	7.2
26	WA King; WA Snohomish.	
27	Tacoma, WA	6.2
28	WA Pierce.	
29	Non-SMSA Counties	6.1
30	WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis;	
31	WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.	
32		
33	Portland, OR:	
34	SMSA Counties:	
35	Portland, OR-WA	4.5
36	WA Clark.	
37	Non-SMSA Counties	3.8
38	WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	
39		

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

45
46 The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-
47 4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative
48 action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to
49 meet the goals. The hours of minority and female employment and training must be
50 substantially uniform throughout the length of the contract, in each construction craft and in
51 each trade, and the Contractor shall make a good faith effort to employ minorities and women
52 evenly on each of its projects. The transfer of minority or female employees or trainees from
53 Contractor to Contractor or from project to project for the sole purpose of meeting the
54 Contractor's goal shall be a violation of the contract, the Executive Order and the regulations

1 in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours
2 performed.

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

12
13 U.S. Department of Labor
14 Office of Federal Contract Compliance Programs Pacific Region
15 Attn: Regional Director
16 San Francisco Federal Building
17 90 – 7th Street, Suite 18-300
18 San Francisco, CA 94103(415) 625-7800 Phone
19 (415) 625-7799 Fax

20
21 Additional information may be found at the U.S. Department of Labor website:
22 <http://www.dol.gov/ofccp/TAGuides/ctaguide.htm>

- 23
24 4. As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is
25 as designated herein.

26
27 Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive
28 Order 11246)

- 29
30 1. As used in these specifications:

- 31
32 a. Covered Area means the geographical area described in the solicitation from which
33 this contract resulted;
34
35 b. Director means Director, Office of Federal Contract Compliance Programs, United
36 States Department of Labor, or any person to whom the Director delegates authority;
37
38 c. Employer Identification Number means the Federal Social Security number used on
39 the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;
40
41 d. Minority includes:
42
43 (1) Black, a person having origins in any of the Black Racial Groups of Africa.
44
45 (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican,
46 Puerto Rican, Cuban, Central American, South American, or other Spanish
47 origin.
48
49 (3) Asian or Pacific Islander, a person having origins in any of the original
50 peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and
51 Samoa.
52

1 (4) American Indian or Alaskan Native, a person having origins in any of the
2 original peoples of North America, and who maintain cultural identification
3 through tribal affiliation or community recognition.
4

- 5 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work
6 involving any construction trade, it shall physically include in each subcontract in excess of
7 \$10,000 the provisions of these specifications and the Notice which contains the applicable
8 goals for minority and female participation and which is set forth in the solicitations from which
9 this contract resulted.
10
- 11 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by
12 the U.S. Department of Labor in the covered area either individually or through an
13 association, its affirmative action obligations on all work in the Plan area (including goals and
14 timetables) shall be in accordance with that Plan for those trades which have unions
15 participating in the Plan. Contractors must be able to demonstrate their participation in and
16 compliance with the provisions of any such Hometown Plan. Each Contractor or
17 Subcontractor participating in an approved Plan is individually required to comply with its
18 obligations under the EEO clause, and to make a good faith effort to achieve each goal under
19 the Plan in each trade in which it has employees. The overall good faith performance by other
20 Contractors or Subcontractors toward a goal in an approved Plan does not excuse any
21 covered Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan
22 goals and timetables.
23
- 24 4. The Contractor shall implement the specific affirmative action standards provided in
25 paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from
26 which this contract resulted are expressed as percentages of the total hours of employment
27 and training of minority and female utilization the Contractor should reasonably be able to
28 achieve in each construction trade in which it has employees in the covered area. Covered
29 construction contractors performing construction work in geographical areas where they do
30 not have a Federal or federally assisted construction contract shall apply the minority and
31 female goals established for the geographical area where the work is being performed. The
32 Contractor is expected to make substantially uniform progress in meeting its goals in each
33 craft during the period specified.
34
- 35 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with
36 whom the Contractor has a collective bargaining agreement, to refer either minorities or
37 women shall excuse the Contractor's obligations under these specifications, Executive Order
38 11246, or the regulations promulgated pursuant thereto.
39
- 40 6. In order for the nonworking training hours of apprentices and trainees to be counted in
41 meeting the goals, such apprentices and trainees must be employed by the Contractor during
42 the training period, and the Contractor must have made a commitment to employ the
43 apprentices and trainees at the completion of their training, subject to the availability of
44 employment opportunities. Trainees must be trained pursuant to training programs approved
45 by the U.S. Department of Labor.
46
- 47 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity.
48 The evaluation of the Contractor's compliance with these specifications shall be based upon
49 its effort to achieve maximum results from its action. The Contractor shall document these
50 efforts fully, and shall implement affirmative action steps at least as extensive as the following:
51
- 52 a. Ensure and maintain a working environment free of harassment, intimidation, and
53 coercion at all sites, and in all facilities at which the Contractor's employees are
54 assigned to work. The Contractor, where possible, will assign two or more women to

1 each construction project. The Contractor shall specifically ensure that all foremen,
2 superintendents, and other on-site supervisory personnel are aware of and carry out
3 the Contractor's obligation to maintain such a working environment, with specific
4 attention to minority or female individuals working at such sites or in such facilities.
5

- 6 b. Establish and maintain a current list of minority and female recruitment sources,
7 provide written notification to minority and female recruitment sources and to
8 community organizations when the Contractor or its unions have employment
9 opportunities available, and maintain a record of the organizations' responses.
10
- 11 c. Maintain a current file of the names, addresses and telephone numbers of each
12 minority and female off-the-street applicant and minority or female referral from a
13 union, a recruitment source or community organization and of what action was taken
14 with respect to each such individual. If such individual was sent to the union hiring
15 hall for referral and was not referred back to the Contractor by the union or, if
16 referred, not employed by the Contractor, this shall be documented in the file with the
17 reason therefor, along with whatever additional actions the Contractor may have
18 taken.
19
- 20 d. Provide immediate written notification to the Director when the union or unions with
21 which the Contractor has a collective bargaining agreement has not referred to the
22 Contractor a minority person or woman sent by the Contractor, or when the
23 Contractor has other information that the union referral process has impeded the
24 Contractor's efforts to meet its obligations.
25
- 26 e. Develop on-the-job training opportunity and/or participate in training programs for the
27 area which expressly include minorities and women, including upgrading programs
28 and apprenticeship and trainee programs relevant to the Contractor's employment
29 needs, especially those programs funded or approved by the U.S. Department of
30 Labor. The Contractor shall provide notice of these programs to the sources
31 compiled under 7b above.
32
- 33 f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions
34 and training programs and requesting their cooperation in assisting the Contractor in
35 meeting its EEO obligations; by including it in any policy manual and collective
36 bargaining agreement; by publicizing it in the company newspaper, annual report,
37 etc.; by specific review of the policy with all management personnel and with all
38 minority and female employees at least once a year; and by posting the company
39 EEO policy on bulletin boards accessible to all employees at each location where
40 construction work is performed.
41
- 42 g. Review, at least annually, the company's EEO policy and affirmative action
43 obligations under these specifications with all employees having any responsibility for
44 hiring, assignment, layoff, termination or other employment decisions including
45 specific review of these items with on-site supervisory personnel such as
46 Superintendents, General Foremen, etc., prior to the initiation of construction work at
47 any job site. A written record shall be made and maintained identifying the time and
48 place of these meetings, persons attending, subject matter discussed, and
49 disposition of the subject matter.
50
- 51 h. Disseminate the Contractor's EEO policy externally by including it in any advertising
52 in the news media, specifically including minority and female news media, and
53 providing written notification to and discussing the Contractor's EEO policy with other

1 Contractors and Subcontractors with whom the Contractor does or anticipates doing
2 business.

- 3
- 4 i. Direct its recruitment efforts, both oral and written to minority, female and community
5 organizations, to schools with minority and female students and to minority and
6 female recruitment and training organizations serving the Contractor's recruitment
7 area and employment needs. Not later than one month prior to the date for the
8 acceptance of applications for apprenticeship or other training by any recruitment
9 source, the Contractor shall send written notification to organizations such as the
10 above, describing the openings, screening procedures, and tests to be used in the
11 selection process.
- 12
- 13 j. Encourage present minority and female employees to recruit other minority persons
14 and women and where reasonable, provide after school, summer and vacation
15 employment to minority and female youth both on the site and in other areas of a
16 Contractor's work force.
- 17
- 18 k. Validate all tests and other selection requirements where there is an obligation to do
19 so under 41 CFR Part 60-3.
- 20
- 21 l. Conduct, at least annually, an inventory and evaluation of all minority and female
22 personnel for promotional opportunities and encourage these employees to seek or
23 to prepare for, through appropriate training, etc., such opportunities.
- 24
- 25 m. Ensure that seniority practices, job classifications, work assignments and other
26 personnel practices, do not have a discriminatory effect by continually monitoring all
27 personnel and employment related activities to ensure that the EEO policy and the
28 Contractor's obligations under these specifications are being carried out.
- 29
- 30 n. Ensure that all facilities and company activities are nonsegregated except that
31 separate or single-user toilet and necessary changing facilities shall be provided to
32 assure privacy between the sexes.
- 33
- 34 o. Document and maintain a record of all solicitations of offers for subcontracts from
35 minority and female construction contractors and suppliers, including circulation of
36 solicitations to minority and female contractor associations and other business
37 associations.
- 38
- 39 p. Conduct a review, at least annually, of all supervisors' adherence to and performance
40 under the Contractor's EEO policies and affirmative action obligations.

- 41
- 42 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling
43 one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor
44 association, joint contractor-union, contractor-community, or other similar group of which the
45 Contractor is a member and participant, may be asserted as fulfilling any one or more of the
46 obligations under 7a through 7p of this Special Provision provided that the Contractor actively
47 participates in the group, makes every effort to assure that the group has a positive impact on
48 the employment of minorities and women in the industry, ensure that the concrete benefits of
49 the program are reflected in the Contractor's minority and female work-force participation,
50 makes a good faith effort to meet its individual goals and timetables, and can provide access
51 to documentation which demonstrate the effectiveness of actions taken on behalf of the
52 Contractor. The obligation to comply, however, is the Contractor's and failure of such a group
53 to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- 54

- 1 9. A single goal for minorities and a separate single goal for women have been established. The
2 Contractor, however, is required to provide equal employment opportunity and to take
3 affirmative action for all minority groups, both male and female, and all women, both minority
4 and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a
5 particular group is employed in substantially disparate manner (for example, even though the
6 Contractor has achieved its goals for women generally, the Contractor may be in violation of
7 the Executive Order if a specific minority group of women is underutilized).
8
- 9 10. The Contractor shall not use the goals and timetables or affirmative action standards to
10 discriminate against any person because of race, color, religion, sex, or national origin.
11
- 12 11. The Contractor shall not enter into any subcontract with any person or firm debarred from
13 Government contracts pursuant to Executive Order 11246.
14
- 15 12. The Contractor shall carry out such sanctions and penalties for violation of these
16 specifications and of the Equal Opportunity Clause, including suspensions, terminations and
17 cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive
18 Order 11246, as amended, and its implementing regulations by the Office of Federal Contract
19 Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties
20 shall be in violation of these specifications and Executive Order 11246, as amended.
21
- 22 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific
23 affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of
24 this Special Provision, so as to achieve maximum results from its efforts to ensure equal
25 employment opportunity. If the Contractor fails to comply with the requirements of the
26 Executive Order, the implementing regulations, or these specifications, the Director shall
27 proceed in accordance with 41 CFR 60-4.8.
28
- 29 14. The Contractor shall designate a responsible official to monitor all employment related activity
30 to ensure that the company EEO policy is being carried out, to submit reports relating to the
31 provisions hereof as may be required by the government and to keep records. Records shall
32 at least include, for each employee, their name, address, telephone numbers, construction
33 trade, union affiliation if any, employee identification number when assigned, social security
34 number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of
35 changes in status, hours worked per week in the indicated trade, rate of pay, and locations at
36 which the work was performed. Records shall be maintained in an easily understandable and
37 retrievable form; however, to the degree that existing records satisfy this requirement, the
38 Contractors will not be required to maintain separate records.
39
- 40 15. Nothing herein provided shall be construed as a limitation upon the application of other laws
41 which establish different standards of compliance or upon the application of requirements for
42 the hiring of local or other area residents (e.g., those under the Public Works Employment Act
43 of 1977 and the Community Development Block Grant Program).
44
- 45 16. Additional assistance for Federal Construction Contractors on contracts administered by
46 Washington State Department of Transportation or by Local Agencies may be found at:

47
48 Washington State Dept. of Transportation
49 Office of Equal Opportunity
50 PO Box 47314
51 310 Maple Park Ave. SE
52 Olympia WA
53 98504-7314
54 Ph: 360-705-7090

1-07.17 Utilities And Similar Facilities

(April 2, 2007)

Section 1-07.17 is supplemented with the following:

Locations and dimensions shown in the Plan 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:

Lewis County P.U.D. No. 1
321 NW Pacific
Chehalis, WA 98532
Telephone: (360) 748-9261

Centurylink
Dena Overaa
8102 Skansie Ave.
Gig Harbor, WA 98332-9904
Telephone (206) 733-5262

The Contractor shall coordinate with the property owner for the irrigation pump during construction.

The Contractor shall call the Underground locate service (800-424-5555) two to ten days prior to construction at each project site. The Contractor shall notify the Utility Owner of any utilities that are within two feet of the planned construction. The above list of Utility Owners may not be complete. As per RCW 19.122 it shall be the Contractors responsibility to contact the owners of utilities known or suspected of having services close to the project site.

1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance

(January 4, 2016 APWA GSP)

1-07.18(1) General Requirements

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes

1 unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period
2 (“tail”) or execute another form of guarantee acceptable to the Contracting Agency to assure
3 financial responsibility for liability for services performed.

- 4
- 5 D. The Contractor’s Automobile Liability, Commercial General Liability and Excess or Umbrella Liability
6 insurance policies shall be primary and non-contributory insurance as respects the Contracting
7 Agency’s insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or
8 self-insured pool coverage maintained by the Contracting Agency shall be excess of the
9 Contractor’s insurance and shall not contribute with it.
- 10
- 11 E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice
12 of any policy cancellation, within two business days of their receipt of such notice.
- 13
- 14 G. The Contractor shall not begin work under the Contract until the required insurance has been
15 obtained and approved by the Contracting Agency
- 16
- 17 H. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material
18 breach of contract, upon which the Contracting Agency may, after giving five business days’ notice
19 to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion,
20 procure or renew such insurance and pay any and all premiums in connection therewith, with any
21 sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of
22 the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- 23
- 24 I. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the
25 Contract and no additional payment will be made.

26

27 **1-07.18(2) Additional Insured**

28 All insurance policies, with the exception of Workers Compensation, and of Professional Liability and
29 Builder’s Risk (if required by this Contract) shall name the following listed entities as additional
30 insured(s) using the forms or endorsements required herein:

- 31 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and volunteers
- 32

33 The above-listed entities shall be additional insured(s) for the full available limits of liability maintained
34 by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than
35 those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the
36 Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

37

38 For Commercial General Liability insurance coverage, the required additional insured endorsements
39 shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for
40 completed operations.

41

42 **1-07.18(3) Subcontractors**

43 The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that
44 complies with all applicable requirements of the Contractor-provided insurance as set forth herein,
45 except the Contractor shall have sole responsibility for determining the limits of coverage required to be
46 obtained by Subcontractors.

47

48 The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as
49 additional insureds, and provide proof of such on the policies as required by that section as detailed in
50 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and
51 CG 20 37 10 01 for completed operations.

52

1 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency
2 evidence of insurance and copies of the additional insured endorsements of each Subcontractor of
3 every tier as required in 1-07.18(4) Verification of Coverage.

4
5 **1-07.18(4) Verification of Coverage**

6 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements
7 for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the
8 signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage
9 with these insurance requirements or failure of Contracting Agency to identify a deficiency from the
10 insurance documentation provided shall not be construed as a waiver of Contractor's obligation to
11 maintain such insurance.

12
13 Verification of coverage shall include:

- 14 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
15 2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as
16 additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket
17 additional insured clause from its policies instead of a separate endorsement.
18 3. Any other amendatory endorsements to show the coverage required herein.
19 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these
20 requirements – actual endorsements must be submitted.

21
22 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full
23 and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full
24 and certified copy of that policy is required when the Contractor delivers the signed Contract for the
25 work.

26
27 **1-07.18(5) Coverages and Limits**

28 The insurance shall provide the minimum coverages and limits set forth below. Contractor's
29 maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to
30 limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the
31 Contracting Agency's recourse to any remedy available at law or in equity.

32
33 All deductibles and self-insured retentions must be disclosed and are subject to approval by the
34 Contracting Agency. The cost of any claim payments falling within the deductible or self-insured
35 retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability
36 subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention
37 shall be the responsibility of the Contractor.

38
39 **1-07.18(5)A Commercial General Liability**

40 Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO
41 occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop
42 gap liability, independent contractors, products-completed operations, personal and advertising injury,
43 and liability assumed under an insured contract. There shall be no exclusion for liability arising from
44 explosion, collapse or underground property damage.

45
46 The Commercial General Liability insurance shall be endorsed to provide a per project general
47 aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

48
49 Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's
50 completed operations for at least three years following Substantial Completion of the Work.

51
52 Such policy must provide the following minimum limits:

1	\$1,000,000	Each Occurrence
2	\$2,000,000	General Aggregate
3	\$2,000,000	Products & Completed Operations Aggregate
4	\$1,000,000	Personal & Advertising Injury each offence
5	\$1,000,000	Stop Gap / Employers' Liability each accident

6
7 **1-07.18(5)B Automobile Liability**

8 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on
9 a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of
10 pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

11
12 Such policy must provide the following minimum limit:

13 \$1,000,000 Combined single limit each accident

14
15 **1-07.18(5)C Workers' Compensation**

16 The Contractor shall comply with Workers' Compensation coverage as required by the Industrial
17 Insurance laws of the State of Washington.

18
19 **1-07.23, PUBLIC CONVENIENCE AND SAFETY**

20
21 **1-07.23(1) Construction Under Traffic**

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

23
24 (January 2, 2012)

25 **Work Zone Clear Zone**

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

31
32 During nonworking hours equipment or materials shall not be within the WZCZ unless
33 they are protected by permanent guardrail or temporary concrete barrier. The use of
34 temporary concrete barrier shall be permitted only if the Engineer approves the
35 installation and location.

36
37 During actual hours of work, unless protected as described above, only materials
38 absolutely necessary to construction shall be within the WZCZ and only construction
39 vehicles absolutely necessary to construction shall be allowed within the WZCZ or
40 allowed to stop or park on the shoulder of the roadway.

41
42 The Contractor's nonessential vehicles and employees private vehicles shall not be
43 permitted to park within the WZCZ at any time unless protected as described above.

44
45 Deviation from the above requirements shall not occur unless the Contractor has
46 requested the deviation in writing and the Engineer has provided written approval.

47
48 Minimum WZCZ distances are measured from the edge of traveled way and will be
49 determined as follows:
50

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

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-08, PROSECUTION AND PROGRESS

1-08.0 Preliminary Matters

(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference

(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following new section:

1-08.0(2) Hours of Work

(December 8, 2014 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

1 All working hours and days are also subject to local permit and ordinance conditions (such as noise
2 ordinances).

3
4 If the Contractor wishes to deviate from the established working hours, the Contractor shall submit
5 a written request to the Engineer for consideration. This request shall state what hours are being
6 requested, and why. Requests shall be submitted for review no later than 3 working days prior to
7 the day(s) the Contractor is requesting to change the hours.

8
9 If the Contracting Agency approves such a deviation, such approval may be subject to certain other
10 conditions, which will be detailed in writing. For example:

- 11 1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency
12 for the costs in excess of straight-time costs for Contracting Agency representatives who
13 worked during such times. (The Engineer may require designated representatives to be
14 present during the work. Representatives who may be deemed necessary by the Engineer
15 include, but are not limited to: survey crews; personnel from the Contracting Agency's
16 material testing lab; inspectors; and other Contracting Agency employees or third party
17 consultants when, in the opinion of the Engineer, such work necessitates their presence.)
- 18 2. Considering the work performed on Saturdays, Sundays, and holidays as working days with
19 regard to the contract time.
- 20 3. Considering multiple work shifts as multiple working days with respect to contract time even
21 though the multiple shifts occur in a single 24-hour period.
- 22 4. If a 4-10 work schedule is requested and approved the non working day for the week will be
23 charged as a working day.
- 24 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded
25 properly on certified payroll
26

27 **1-08.1 Subcontracting**

28 Section 1-08.1 is supplemented with the following:

29
30 (*****)

31 Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit
32 to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the
33 Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor
34 has been executed. This certification shall also guarantee that these subcontract agreements
35 include all the documents required by the Special Provision.
36

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

- 39 1. Request to Sublet Work (Form 421-012), and
- 40 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid
41 Projects (Form 420-004).
42

43
44 The Contractor's records pertaining to the requirements of this Special Provision shall be open to
45 inspection or audit by representatives of the Contracting Agency during the life of the contract and
46 for a period of not less than three years after the date of acceptance of the contract. The
47 Contractor shall retain these records for that period. The Contractor shall also guarantee that
48 these records of all Subcontractors and lower tier Subcontractors shall be available and open to
49 similar inspection or audit for the same time period.
50

1 **1-08.3(2)A Type A Progress Schedule**

2 *(March 13, 2012 APWA GSP)*

3
4 Revise this section to read:

5
6 The Contractor shall submit ~~\$\$\$~~ 3 ~~\$\$\$~~ copies of a Type A Progress Schedule no later than at the
7 preconstruction conference, or some other mutually agreed upon submittal time. The schedule may
8 be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless
9 of which format used, the schedule shall identify the critical path. The Engineer will evaluate the
10 Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar
11 days of receiving the submittal.

12
13 **Contractor’s Weekly Activities**

14 *(*****)*

15
16 The Contractor shall submit a weekly schedule to the Engineer. The schedule shall indicate the
17 Contractor’s proposed activities for the forthcoming week along with the hours of work. This will
18 permit the Engineer to more effectively provide the contract engineering and inspection for the
19 Contractor’s operations.

20
21 The written weekly activity schedule shall be submitted to the Engineer or a designated assistant
22 before the end of the last shift on the next to the last working day of the week preceding the
23 indicated activities, or other mutually agreeable time.

24
25 If the Contractor proceeds with work not indicated on the weekly activity schedule, or in a
26 sequence differing from that which has been shown on the schedule, the Engineer may require the
27 Contractor to delay unscheduled activities until they are included on a subsequent weekly activity
28 schedule.

29
30 Separately, and in addition to the weekly schedule, the Contractor shall submit weekly a summary
31 of project activities to the Engineer. The summary of activities shall include a report of the nature
32 and progress of each of the major activities that were advanced on the project within the previous
33 week.

34
35 It shall be sufficiently detailed that a composite history of the project develops. The locations and
36 approximate quantity guardrail and traffic control work shall be reported. Unusual activity, and
37 conditions or events that may affect the course of the project shall also be reported.

38
39 **1-08.4 Prosecution of Work**

40
41 Delete this section and replace it with the following:

42
43 **1-08.4 Notice to Proceed and Prosecution of Work**

44 *(July 23, 2015 APWA GSP)*

45
46 Notice to Proceed will be given after the contract has been executed and the contract bond and
47 evidence of insurance have been approved and filed by the Contracting Agency. The Contractor
48 shall not commence with the work until the Notice to Proceed has been given by the Engineer. The
49 Contractor shall commence construction activities on the project site within ten days of the Notice to
50 Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the
51 work to the physical completion date within the time specified in the contract. Voluntary shutdown
52 or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to
53 complete the work within the time(s) specified in the contract.

1 When shown in the Plans, the first order of work shall be the installation of high visibility fencing to
2 delineate all areas for protection or restoration, as described in the Contract. Installation of high
3 visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and
4 traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor
5 shall request the Engineer to inspect the fence. No other work shall be performed on the site until
6 the Contracting Agency has accepted the installation of high visibility fencing, as described in the
7 Contract.

8 9 **1-08.5 Time for Completion**

10 *(August 14, 2013 APWA GSP, Option B)*

11
12 Revise the third and fourth paragraphs to read:

13
14 Contract time shall begin on the first working day following the \$\$14th \$\$ calendar day after the Notice
15 to Proceed date. If the Contractor starts work on the project at an earlier date, then contract time shall
16 begin on the first working day when onsite work begins.

17
18 Each working day shall be charged to the contract as it occurs, until the contract work is physically
19 complete. If substantial completion has been granted and all the authorized working days have
20 been used, charging of working days will cease. Each week the Engineer will provide the
21 Contractor a statement that shows the number of working days: (1) charged to the contract the
22 week before; (2) specified for the physical completion of the contract; and (3) remaining for the
23 physical completion of the contract. The statement will also show the nonworking days and any
24 partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date
25 of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To
26 be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to
27 ascertain the basis and amount of time disputed. By not filing such detailed protest in that period,
28 the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is
29 approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week
30 in which a 4-10 shift is worked would ordinarily be charged as a working day, then the fifth day of
31 that week will be charged as a working day whether or not the Contractor works on that day.

32
33 Revise the sixth paragraph to read:

34
35 The Engineer will give the Contractor written notice of the completion date of the contract after all
36 the Contractor's obligations under the contract have been performed by the Contractor. The
37 following events must occur before the Completion Date can be established:

- 38
- 39 1. The physical work on the project must be complete; and
 - 40 2. The Contractor must furnish all documentation required by the contract and required by law, to
41 allow the Contracting Agency to process final acceptance of the contract. The following
42 documents must be received by the Project Engineer prior to establishing a completion date:
 - 43 a. Certified Payrolls (per Section 1-07.9(5)).
 - 44 b. Material Acceptance Certification Documents
 - 45 c. Quarterly Reports of Amounts Credited as DBE Participation, as required by the Contract
46 Provisions.
 - 47 d. Final Contract Voucher Certification
 - 48 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all
49 Subcontractors
 - 50 f. Property owner releases per Section 1-07.24

51 **(*****)**

52 This project shall be physically completed within *** 75 *** working days.

1
2 **1-08.9 Liquidated Damages**
3 *(August 14, 2013 APWA GSP)*

4
5 Revise the fourth paragraph to read:

6
7 When the Contract Work has progressed to Substantial Completion as defined in the Contract, the
8 Engineer may determine that the work is Substantially Complete. The Engineer will notify the
9 Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring
10 after the date so established, the formula for liquidated damages shown above will not apply. For
11 overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall
12 be assessed on the basis of direct engineering and related costs assignable to the project until the
13 actual Physical Completion Date of all the Contract Work. The Contractor shall complete the
14 remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor
15 shall furnish a written schedule for completing the physical Work on the Contract.
16

17 **1-09, MEASUREMENT AND PAYMENT**

18
19 **1-09.7 Mobilization**

20 Section 1-09.7 is supplemented with the following:

21
22 (*****)

23 The Contracting Agency will provide a temporary staging site during construction of the project.
24 The area to be used shall be staked in the field prior to use. The Contractor shall restore this site
25 to the condition it was found or as directed by the Engineer.
26

27 **1-09.9 Payments**

28 *(March 13, 2012 APWA GSP)*

29
30 Delete the first four paragraphs and replace them with the following:

31
32 The basis of payment will be the actual quantities of Work performed according to the Contract and
33 as specified for payment.
34

35 The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction
36 Conference, to enable the Project Engineer to determine the Work performed on a monthly basis.
37 A breakdown is not required for lump sum items that include a basis for incremental payments as
38 part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make
39 a determination based on information available. The Project Engineer's determination of the cost of
40 work shall be final.
41

42 Progress payments for completed work and material on hand will be based upon progress
43 estimates prepared by the Engineer. A progress estimate cutoff date will be established at the
44 preconstruction conference.
45

46 The initial progress estimate will be made not later than 30 days after the Contractor commences
47 the work, and successive progress estimates will be made every month thereafter until the
48 Completion Date. Progress estimates made during progress of the work are tentative, and made
49 only for the purpose of determining progress payments. The progress estimates are subject to
50 change at any time prior to the calculation of the final payment.
51

1 The value of the progress estimate will be the sum of the following:

- 2 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work
3 completed multiplied by the unit price.
- 4 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum
5 breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
- 6 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other
7 storage area approved by the Engineer.
- 8 4. Change Orders — entitlement for approved extra cost or completed extra work as determined
9 by the Engineer.

10
11 Progress payments will be made in accordance with the progress estimate less:

- 12 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 13 2. The amount of progress payments previously made; and
- 14 3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract
15 Documents.

16
17 Progress payments for work performed shall not be evidence of acceptable performance or an
18 admission by the Contracting Agency that any work has been satisfactorily completed. The
19 determination of payments under the contract will be final in accordance with Section 1-05.1.

20 **1-09.9(1) Retainage**

21 Section 1-09.9(1) is supplemented with the following:

22
23 **Retainage of 5 percent shall be as required by RCW 60.28.011.**

24 **1-09.11 Disputes and Claims**

25 **1-09.11(3) Time Limitation and Jurisdiction**

26 *(July 23, 2015 APWA GSP)*

27
28 Revise this section to read:

29
30 For the convenience of the parties to the Contract it is mutually agreed by the parties that any
31 claims or causes of action which the Contractor has against the Contracting Agency arising from
32 the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-
33 05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or
34 causes of action shall be brought only in the Superior Court of the county where the Contracting
35 Agency headquarters is located, provided that where an action is asserted against a county, RCW
36 36.01.05 shall control venue and jurisdiction. The parties understand and agree that the
37 Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such
38 claims or causes of action. It is further mutually agreed by the parties that when any claims or
39 causes of action which the Contractor asserts against the Contracting Agency arising from the
40 Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the
41 Contracting Agency to have timely access to any records deemed necessary by the Contracting
42 Agency to assist in evaluating the claims or action.

43 **1-09.13 Claims Resolution**

44 **1-09.13(3) Claims \$250,000 or Less**

45 *(October 1, 2005 APWA GSP)*

46
47 Delete this Section and replace it with the following:

1
2 The Contractor and the Contracting Agency mutually agree that those claims that total \$250,000 or
3 less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR
4 processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve
5 the claim through binding arbitration.

6
7 **1-09.13(3)A Administration of Arbitration**
8 *(July 23, 2015 APWA GSP)*

9
10 Revise the third paragraph to read:

11
12 The Contracting Agency and the Contractor mutually agree to be bound by the decision of the
13 arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior
14 Court of the county in which the Contracting Agency's headquarters is located, provided that where
15 claims subject to arbitration are asserted against a county, RCW 36.01.05 shall control venue and
16 jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the
17 decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

18
19 **1-09.13(4) Claims in Excess of \$250,000**

20
21 Section 1-09.13(4) is hereby deleted and replaced with the following:

22
23 **CLAIMS RESOLUTION**

24 **(*****)**

25
26 Any dispute arising from the contract shall be processed in accordance with Section 1-04.5 and
27 Sections 1-09.11 through 1-09.13(1) of the Standard Specifications. The provisions of these
28 sections must be complied with in full as a condition precedent to the Contractor's right to seek
29 claims resolution through arbitration or litigation. The Contractor may file with the Engineer a
30 request for binding arbitration; the Engineer's decision regarding that request shall be final and
31 unappealable. Nothing in this paragraph affects or tolls the limitations period as set forth in
32 Section 1-09.11(3) of the Standard Specifications. However, if the Contractor files a lawsuit raising
33 any claim(s) arising from the contract, the parties shall, if the Engineer so directs, submit such
34 claim(s) to binding arbitration, subject to the rights of any party thereto to file with the Lewis County
35 Superior Court motions to dismiss or for summary judgment at any time. In any binding arbitration
36 proceeding, the provisions of subparagraphs (a) and (b) shall apply.

- 37
38 a) Unless the parties otherwise agree, all disputes subject to arbitration shall be heard in
39 a single arbitration hearing, and then only after completion of the contract. The
40 parties shall be bound by Ch. 7.04 RCW generally, and by the arbitration rules
41 hereafter stated, and shall, for purposes of administration of the arbitration, comply
42 where applicable with the 1994 Lewis County Superior Court Mandatory Arbitration
43 Rules (LMAR) sections 1.1(b), 1.3, 2.3, 3.1, 3.2(a) and (b), 5.1, 5.2 (except as
44 referenced to MAR 5.2), 5.3, 6.1, 6.2 (including the referenced MAR 6.2), and 8.6.
45 There shall be one arbitrator, to be chosen by mutual agreement of the parties from
46 the list provided by the Lewis County Superior Court Administrator. If the parties
47 cannot agree on a person to serve as arbitrator, the matter shall be submitted for
48 appointment of an arbitrator under LMAR 2.3. The arbitrator shall determine the
49 scope and extent of discovery, except that the Contractor shall provide and update
50 the information required by Section 1-09.11(2) of the Standard Specifications.
51 Additionally, each party shall file a statement of proof with the other party and the
52 arbitrator at least 20 calendar days before the scheduled arbitration hearing. The
53 statement of proof shall include:

1. The name, business address and contact telephone number of each witness who will testify at the hearing.
2. For each witness to be offered as an expert, a statement of the subject matter and a statement of the facts, resource materials (not protected by privilege) and learned treatises upon which the expert is expected to testify and render an opinion(s), synopsis of the basis for such opinion(s), and a resume of the expert detailing his/her qualifications as an expert and pursuant to rendering such opinion(s). A list of documents and other exhibits the party intends to offer in evidence at the arbitration hearing. Either party may request a copy of any document listed, and a copy or description of any other exhibit listed. The party receiving the request shall provide the copies or description within five (5) calendar days. The parties or arbitrator may subpoena parties in accordance with the Superior Court Mandatory Arbitration Rules (MAR) of Washington, Rule 4.3, and witness fees and costs shall be provided for under Rule 6.4, thereof. The arbitrator may permit a party to call a witness or offer a document or other exhibit not included in the statement of proof only upon a showing of good cause.

b) The arbitration hearing shall be conducted at a location within Lewis County, Washington. The extent of application of the Washington Rules of Evidence shall be determined in the exercise of sound discretion of the arbitrator, except that such Rules should be liberally construed in order to promote justice. The parties should stipulate to the admission of evidence when there is no genuine issue as to its relevance or authenticity. The decision of the arbitrator and the specific grounds for the decision shall be in writing. The arbitrator shall use the contract as a basis for its decisions. The County and the Contractor agree to be bound by the decision of the arbitrator, subject to such remedies as are provided in Ch. 7.04 RCW. Judgment upon the award rendered by the arbitrator shall be entered as judgment before the presiding judge of the Superior Court for Lewis County. Each party shall bear its own costs in connection with the arbitration. Each party shall pay one-half of the arbitrator's fees and expenses.

1-10, TEMPORARY TRAFFIC CONTROL

1-10.2 Traffic Control Management

1-10.2(1) General

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

(January 8, 2016)

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

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

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709

1 1-800-521-0778 or
2 (425) 814-3930

3
4 The American Traffic Safety Services Association
5 15 Riverside Parkway, Suite 100
6 Fredericksburg, Virginia 22406-1022
7 Training Dept. Toll Free (877) 642-4637
8 Phone: (540) 368-1701
9

10 **1-10.2(2) Traffic Control Plans**

11 (*****)

12 Section 1-10.2(2) is supplemented with the following:

13
14 The Contracting Agency has attached a Traffic Control Plan in the Contract Plans for road closure
15 and traffic detour on this project. Graf Road shall be closed to traffic from June 18, 2018 through
16 October 5, 2018 in order for the Contractor to complete the project. All signs required for this
17 project (as shown on the Traffic Control Plan) shall be the Contractors responsibility to furnish,
18 erect, maintain, and remove.
19

20 If determined by the Engineer that additional signing (not shown on the Traffic Control Plan) is
21 needed, it shall be the Contractors responsibility to furnish, erect, and maintain these additional
22 signs at no cost to the Contracting Agency.
23

24 **1-10.2(3) Conformance to Established Standards**

25 (*****)

26 Section 1-10.2(3) is supplemented with the following:

27
28 The latest revision of the WSDOT Manual M54-44 "Work Zone Traffic Control Guidelines"
29 (WZTCG) is hereby made a part of this contract by reference as if contained fully herein.
30

31 **1-10.4 Measurement**

32
33 **1-10.4(1) Lump Sum Bid for Project (No Unit Items)**

34 Section 1-10.4(1) is supplemented with the following:

35
36 (August 2, 2004)

37 The proposal contains the item "Project Temporary Traffic Control," lump sum. The provisions
38 of Section 1-10.4(1) shall apply.
39

40 **DIVISION 2**
41 **EARTHWORK**
42

43 **2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP**

44
45 **2-01.1 Description**

46 (March 13, 1995)

47
48 Section 2-01.1 is supplemented with the following:

49
50 Clearing and grubbing on this project shall be performed within the following limits:

51
52 The area staked in the field by the Engineer prior to bid opening.
53

1 **2-01.2 Disposal of Usable Material and Debris**

2 Section 2-01.2 is supplemented with the following:

3
4 **(*****)**

5 All trees 6-inch diameter and larger located east of Scammon Creek and within the clearing limits shall
6 be decked within the staging area at a location agreed upon with the property owner (decked logs will
7 be cut for firewood by the property owner after project completion).

8
9 **2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

10 **2-02.1 Description**

11 Section 2-02.1 is supplemented with the following:

12
13 (March 13, 1995)

14 This work shall consist of removing miscellaneous traffic items.

15
16 **2-02.3 Construction Requirements**

17 Section 2-02.3 is supplemented with the following:

18
19 **Removing Miscellaneous Items**

20
21 (March 13, 1995)

22 The following miscellaneous traffic items shall be removed and disposed of:

23
24 *** Raised or recessed pavement markers ***

25 *** Flexible Guide Post ***

26
27 **Miscellaneous Items**

28 **(*****)**

29 Traffic Signs at the intersection of Scammon Creek Road shall be adjusted or moved as construction
30 progresses to meet the conditions as stated in the MUTCD.

31
32 **2-02.3(2) Removal of Bridges, Box Culverts, and other Drainage Structures**

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

34
35 **(*****)**

36 The Contractor shall remove the existing Graf Road twin 10' x 10' x 40' concrete box culverts
37 with wingwalls after routing traffic onto the detour route. The existing Graf Road twin 10' x 10'
38 x 40' concrete box culverts with wingwalls shall be completely removed and disposed of at an
39 approved waste site. A portion of the existing 12-inch diameter culvert at the southeast
40 quadrant of the project shall be removed (per Contract Plans) and disposed of at an approved
41 waste site.

42
43 ***Use of Explosives***

44 (June 26, 2000)

45 Explosives shall not be used in the demolition.

46
47 (January 7, 2002)

48 ***Requirements for Closing Bridge to Traffic Prior to Beginning Removal***

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

- 51
52 1. The Contractor has received the Engineer's approval of the bridge demolition plan.
53

2. The traffic control for the detour bridge shall be operational and opened to traffic prior to closure and removal of the existing structure.
3. The Contractor has sufficient material on hand to complete bridge removal and bridge construction operations in the least possible time.
4. The Contractor shall furnish 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.
5. The Contractor has received the Engineer's approval to proceed.

2-02.4 Measurement

No specific unit of measurement will apply to the lump sum item of "Removal of Structure and Obstruction". Traffic signs to be adjusted or moved shall be considered incidental to this bid item. All signs shall remain the property of Lewis County. Removal and disposal of the existing 12-inch diameter culvert and Graf Road twin 10' x 10' x 40' concrete box culverts with wingwalls shall be considered incidental to this bid item.

2-02.5 Payment

Section 2-02.5 is supplemented with the following:

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

"Removal of Structures and Obstructions", lump sum.

If pavements, sidewalks, curbs, or gutters lie within an excavation area, their removal will be paid for as part of the quantity removed in excavation.

2-03, ROADWAY EXCAVATION AND EMBANKMENT

(*****)

2-03.3 Construction Requirements

2-03.3(7) Disposal of Surplus Material

Section 2-03.3(7) is supplemented with the following:

No waste site has been provided to the Contractor for the disposal of unsuitable and excess excavation material. The Contractor shall make his own arrangement to acquire a site for the disposal of unsuitable and excess excavation material.

The Contractor shall make his own arrangements to acquire a site and obtain all environmental permits required for the disposal of the unsuitable excavation material. The Contracting Agency must approve the waste site prior to it being utilized. Approval cannot be given until the Contracting Agency receives copies of all environmental approvals.

All costs for acquiring a disposal site and for the loading, hauling, and disposal of unsuitable and excess excavation material shall be considered incidental to the project and be included in the unit contract prices for the various items of work therein.

1 **2-03.3(14)M Excavation of Channels and Ditches**

2 Section 2-03.3(14)M is supplemented with the following:

3
4 The Contractor shall protect existing vegetation and channel slopes outside the stream re-grade
5 areas. All excavation and construction activities shall be conducted within the cut limits of the
6 project staked by the Engineer, access roads through areas not designated for clearing shall not
7 be permitted. Access to the stream channel for excavation and material placement shall be via a
8 Temporary Access Road from the stockpile area at the southeast quadrant of the project (as
9 depicted in the Contract Plans). Material removed for this Temporary Access Road shall be
10 stockpiled and replaced after construction is completed to form a streambank and terrace that
11 reasonably represents the original ground contours (cuts and fills within 0.25-feet of surrounding
12 contours).

13
14
15 **2-03.3(14)I Embankments at Bridge and Trestle Ends**

16 Section 2-03.3(14)I is supplemented with the following:

17
18 After clearing is completed, the Contractor shall stockpile suitable excavated material (material
19 within 1.25-feet of the surface with low clay content) to mix with Quarry Spalls at a 1:1 ratio. The
20 Rock/Soil Mix shall be installed at the face of the Structural Earth Wall as depicted in the Contract
21 Plans with all surface voids filled with native material and compacted per Section 2-03.3(14)C—
22 Method A.

23
24 No Concrete rubble shall be allowed in the Rock / Soil Mix.

25
26 **2-03.4 Measurement**

27 Section 2-03.4 is supplemented with the following:

28 (March 13, 1995)

29 Only one determination of the original ground elevation will be made on this project. Measurement
30 for roadway excavation and embankment will be based on the original ground elevations recorded
31 previous to the award of this contract. Control stakes will be set during construction to provide the
32 Contractor with all essential information for the construction of excavation and embankments.
33

34
35 Earthwork quantities will be computed, either manually or by means of electronic data processing
36 equipment, by use of the average end area method or by the finite element analysis method
37 utilizing digital terrain modeling techniques.

38
39 Copies of the ground cross-section notes will be available for the bidder's inspection, before the
40 opening of bids, at the County Engineer's office.

41
42 Upon award of the contract, copies of the original ground cross-sections will be furnished to the
43 successful bidder on request to the Project Engineer.

44
45 (*****)

46 The "Roadway Excavation Incl. Haul" bid item shall include the removal and disposal of channel
47 excavation, roadway excavation and approximately 900 S.Y. of HMA mat material. Roadway
48 Excavation and Embankment quantities will be measured and paid in accordance with the
49 requirements of Sections 2-03.4 and 2-03.5.

50
51 Traffic signs to be adjusted or moved shall be considered incidental to "Removal of Structures and
52 obstructions".
53

1 “Rock/Soil Mix” shall be measured per cubic yard of compacted material placed within the structure
2 excavation area and per the Contract Plans. Rock/Soil Mix quantities shall be based on neat line
3 dimensions measured in the field after final grading and filling.

4
5 No specific unit of measurement will apply to “Temporary Access Road”.

6 7 8 **2-03.5 Payment**

9 Section 2-03.4 is supplemented with the following:

10
11 (*****)

12 The unit Contract price per cubic yard for “Rock/Soil Mix” shall be full compensation for all costs
13 incurred with stockpiling existing soil; supplying and hauling Quarry Spalls; mixing rock/soil at a
14 1:1 ratio; placing & compacting Rock/Soil Mix per the Contract Plans; and all other materials,
15 labor, equipment and incidentals needed to complete this work.

16
17 “Temporary Access Road”, lump sum.

18 The lump sum contract price for “Temporary Access Road” shall be full payment to perform the
19 work as specified, including excavation, stockpiling native material, maintaining the access road,
20 replacing excavated material, and restoring the area to original ground contours.

21 22 **2-09, STRUCTURE EXCAVATION**

23 24 **2-09.1 Description**

25 (*****)

26 Section 2-09.1 is supplemented with the following:

27 28 **Temporary Stream Diversion for Structure & Channel Excavation**

29 Temporary Stream Diversion for Structure & Channel Excavation work shall consist of installation and
30 maintenance of stream diversion/bypass for the creek during all in-water construction. Temporary
31 Stream Diversion for Structure Excavation shall be conducted in a manner that does not violate State
32 Water Quality Standards. All work in and adjacent to the stream shall be accomplished in strict
33 accordance with the requirements of the WDFW HPA. This work also consists of adjustments to the
34 location of the dewatering systems as deemed necessary by the Contractor to complete the project and
35 comply with all environmental regulations, permits, specifications and special provisions for this project.

36
37 **The Contracting Agency has designed a Temporary Stream Diversion Plan on Sheet 4 of 16 in**
38 **the Contract Plans for the Contractor’s approval. The Contractor may submit a different plan as**
39 **outlined below for approval by the Engineer at their discretion.**

40
41 Upon completion of in-water construction, the Contractor shall promptly remove all stream diversion
42 materials and equipment as directed by the Engineer. Disposal of surplus material and debris
43 remaining from dewatering operations shall be incidental to and included in this item of work. The
44 Stream Diversion Plan is an integral component of stormwater management for this site. If work is
45 required above the ordinary high water mark after the in-water work window has expired, additional
46 BMPs not shown in the Contract Plans shall be proposed by the Contractor for approval by the
47 Engineer. BMPs installed and maintained after the in-water work window has expired shall control
48 stormwater generated from the site during final construction activities. Payment for BMPs shall be per
49 Contract Unit Bid prices or via Section 1-09.

50 51 **Submittals**

52 One week prior to beginning stream diversion/bypass and dewatering work, the Contractor shall submit
53 the following in writing to the Engineer for approval:

- 1
2 1. Plans for the installation and commissioning of the dewatering system throughout the duration of
3 the structure excavation.
4
5 a) Drawings for Information: Show arrangement, locations, and details of temporary
6 diversion structure, pump locations and discharge line, discharge point, temporary
7 erosion control, and removal of stranded fish.
8 b) Include a written report outlining control procedures to be adopted if stream bypass
9 problems arise. Photograph or videotape, in sufficient detail, existing conditions of
10 adjoining construction and site improvements that might be misconstrued as damage
11 caused by stream bypass operations.
12 2. Method of stream diversion/bypass throughout the duration of the structure excavation.
13

14 Work shall not commence until the submittals are approved in writing by the Engineer.
15

16 **2-09.3 Construction Requirements**

17 (*****)

18 Section 2-09.3 in supplemented with the following:
19

20 **Preparation**

21 Protect facilities from damage caused by settlement, lateral movement, undermining, washout, and
22 other hazards created by stream diversion operations.
23

24 Install the stream diversion system to ensure minimum interference with the existing streambed, and
25 other facilities surrounding the dewatering site.
26

27 Disturbance of the bed and banks should be limited to that necessary to place the structure,
28 embankment protection, and any required channel modification associated with the installation. All
29 disturbed areas should be protected from erosion within seven (7) calendar days of completion using
30 vegetation or other means.
31

32 Isolation of the construction site from stream flow shall be accomplished using techniques such as:
33

- 34 By pumping the stream flow around the site.
 - 35 The installation of a sheetpile or sandbag wall.
 - 36 The use of a water-filled cofferdam.
- 37

38 Exception may be granted if siltation or turbidity is reduced to acceptable levels by means approved by
39 the Engineer and the Washington Department of Fish and Wildlife (WDFW).
40

41 **Installation**

42 Install the stream diversion system utilizing pipes, pumps, culverts, flexible hose or similar methods
43 complete with pump equipment, standby power and pumps, valves, appurtenances, water disposal,
44 and surface-water controls.
45

46 It is anticipated that a pump bypass system will be utilized to by-pass stream around the excavation
47 area.
48

49 Provide standby equipment on-site available for immediate operation, to maintain stream bypass on
50 continuous basis if any part of system becomes inadequate or fails. At a minimum the Contractor shall
51 provide and have on hand additional pumps as a backup to the stream bypass system. If stream
52 bypass requirements are not satisfied due to inadequacy or failure of stream bypass system, restore
53 damaged structures and foundation soils at no additional expense to the County.
54

1 Any fish stranded in the construction area or diversion reach shall be safely moved to the flowing
2 stream.

3
4 Any wastewater from project activities and dewatering shall be routed to an area outside the ordinary
5 high water line to allow settling of fine sediments and other contaminants prior to being discharged back
6 into the subject stream. Do not permit open-sump pumping that leads to loss of fines, soil piping,
7 subgrade softening, and slope instability. Dewatering operations shall comply with regulatory water
8 disposal requirements of authorities having jurisdiction. The stream diversion/bypass and shall be
9 sufficiently maintained to avoid significant leaks that may result in flows through the work zone. All in-
10 water work shall be in strict conformance with permits obtained for this project.

11
12 Remove and dispose of the stream bypass system from project site once the new stream channel has
13 been constructed and approved by the Engineer. Upon decommissioning, flows shall be reintroduced
14 gradually so as to minimize the mobilization of sediments.

15 16 **2-09.3(1)E Backfilling**

17 (*****)

18 Section 2-09.3(1)E is supplemented with the following:

19
20 Native material shall be stockpiled during structural earth wall construction. BMP's shall be used for
21 stockpiled material. Following structural earth wall and stream channel construction approval, the
22 Contractor shall restore existing contours along the structural earth wall using stockpiled material.
23 Restoration shall include re-establishing roadside ditches (1-ft wide bottom and 1.5-ft deep with 2:1 side
24 slopes) and shaping material to provide a smooth transition at the existing terrain.

25 26 **2-09.4 Measurement**

27 (*****)

28 Section 2-09.4 is supplemented with the following:

29
30 No specific unit of measurement will apply to "Temporary Stream Diversion".

31 32 **2-09.5 Payment**

33 (*****)

34 Section 2-09.5 is supplemented with the following:

35
36 Payment will be made in accordance with Section 1-04.1 for the following bid item included in the
37 proposal:

38
39 "Temporary Stream Diversion", lump sum.

40
41 The lump sum contract price for "Temporary Stream Diversion" shall be full payment to perform the
42 work as specified, including dewatering, stream diversion/bypass, and any sandbagging, pumping, fish
43 exclusion, sediment removal, filtration or other materials necessary to complete the work.

44 45 **DIVISION 3** 46 **PRODUCTION FROM QUARRY AND PIT SITES AND STOCKPILING**

47 48 **3-01 PRODUCTION FROM QUARRY AND PIT SITES**

49 50 **3-01.4 Contractor Furnished Material Sources**

51 52 **3-01.4(1) Acquisition and Development**

53 (*****)

1 Section 3-01.4(1) is supplemented with the following:

2
3 No source has been provided for any materials necessary for the construction of this project.

4
5
6 **DIVISION 4**
7 **BASES**
8

9 **4-04, BALLAST AND CRUSHED SURFACING**

10
11 **4-04.3 Construction Requirements**

12
13 **4-04.3(5) Shaping and Compacting**

14 (*****)

15 Section 4-04.3(5) is supplemented with the following:

16
17 **Shoulder Finishing**

18 Shoulder finishing material shall not be placed until the abutting pavement has been completed,
19 unless designated by the Engineer. Shoulder finishing material (Crushed Surfacing Top Course)
20 shall be placed by a spreader box in one lift. Processing of the shoulder finishing material on the
21 roadway shall not be permitted.

22
23 The existing shoulder material, as well as any additional crushed surfacing material required shall
24 be placed, watered, and compacted against the vertical edge of the pavement, including road
25 approaches. Hand work may be required in areas of road approaches and guardrail. The
26 Contractor shall grade the shoulder material to a uniform slope, remove all debris (sod, large
27 rocks, etc.) and dress all berms resulting from this operation to the satisfaction of the Engineer.
28 The material shall be graded into place and compacted by wheel rolling a minimum of two passes
29 with a motor grader or comparable piece of equipment in areas where the shoulder is narrow. All
30 other areas shall be compacted to the satisfaction of the Engineer. In all areas where the shoulder
31 is wide enough, as determined by the Engineer, a steel drum vibratory compactor shall be used.
32 For compaction, water shall be applied as determined by the Engineer. Damage to the HMA mat
33 due to the Contractor's operation shall be repaired at no cost to the Contracting Agency.

34
35 Following the placement of crushed surfacing material each day, the new mainline and shoulder
36 pavement shall be cleaned of all dirt and debris to the satisfaction of the Engineer. Prior to
37 commencing work on the Shoulder Finishing operation the Contractor shall submit the selected
38 method of compaction and equipment to be used to the Engineer for approval.

39
40 **4-04.4 Measurement**

41 (*****)

42 Section 4-04.4 is supplemented with the following:

43
44 "Shoulder Finishing" shall be measured per ton.

45
46 **4-04.5 Payment**

47 (*****)

48 Section 4-04.5 is supplemented with the following:

49
50 The unit contract price per ton for "Shoulder Finishing" shall be full pay for furnishing crushed
51 surfacing, hauling, grading existing material, placing additional material, watering, compacting and
52 all other work as specified. Water for compaction of shoulder rock shall be considered incidental to
53 this bid item.

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DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

5-04, HOT MIX ASPHALT

5-04.1 Description

(*****)

Section 5-04.1 is supplemented with the following:

The term "Approach" shall include driveway approaches, driveways, and extensions.

Superintendents, Labor, and Equipment of Contractor

Section 5-04.1 is supplemented with the following:

The Contractor shall have a sufficient number of qualified personnel on the project to insure the following minimum crew size:

- One paving superintendent
- One paver operator
- Two screed operators
- Three roller operators
- Two rakers

These workers shall be present and not assigned to dual activities that would stop them from fulfilling their assigned task while the paver is in operation. There will be one assigned supervisor who will be in charge of paving operations and who will be responsible for work performed.

5-04.3 Construction Requirements

(*****)

Section 5-04.3 is supplemented with the following:

Sand and tack all edges, cold joints, and tapers which join existing asphalt, (such as asphalt concrete approaches, intersections, and curb and gutter).

Wing out, rake, and compact a beveled edge when paving past approaches (driveways), street intersections, curb faces, edges of gutters and, where applicable, provide an acceptable transition from roadway to approaches by paving an adequate ramp as directed by the Engineer. Mainline shall be paved before road approaches. Any approach greater than 30 feet at its narrowest point shall be done with a paving machine.

5-04.3(7)A1 General

(*****)

Supplement Section 5-04.3(7)A1 with the following:

The maximum quantity of RAP allowable in the Hot Mix Asphalt for leveling course shall be 20%. No recyclable material will be allowed in the wearing course. The Engineer shall approve the RAP stockpile prior to use.

No Commercial Hot Mix Asphalt will be used for this contract unless approved by the Engineer.

1 The Contractor shall submit four samples of the designed Hot Mix Asphalt mix to the
2 Engineer's representative for ignition furnace calibration at least five (5) days prior to paving.
3 Samples will be taken in conformance to WSDOT Test Method T 726.

4
5 **5-04.3(7)A2 Statistical or Nonstatistical Evaluation**
6 **(*****)**

7
8 **Delete this section and replace it with the following;**

9
10 **5-04.3(7)A2 Nonstatistical and Commercial Evaluation**

11
12 Mix designs for HMA accepted by Nonstatistical or Commercial evaluation shall;

- 13 • Be submitted to the Project Engineer on WSDOT Form 350-042
- 14 • Have the aggregate structure and asphalt binder content determined in accordance with WSDOT
15 Standard Operating Procedure 732 and meet the requirements of Sections 9- 03.8(2) and 9-
16 03.8(6).
- 17 • Have anti-strip requirements, if any, for the proposed mix design determined in accordance with
18 WSDOT Test Method T 718 or based on historic anti-strip and aggregate source
19 compatibility from WSDOT lab testing. Anti-strip evaluation of HMA mix designs utilized that
20 include RAP will be completed without the inclusion of the RAP.
- 21 • At or prior to the preconstruction meeting, the contractor shall provide one of the following mix
22 design verification certifications for Contracting Agency review;
- 23 • The proposed mix design indicated on a WSDOT mix design/anti-strip report that is within one
24 year of the approval date
- 25 • The proposed HMA mix design submittal (Form 350-042) with the seal and certification (stamp &
26 signature) of a valid licensed Washington State Professional Engineer.
- 27 • The proposed mix design by a qualified City or County laboratory mix design report that is within
28 one year of the approval date.

29
30 The mix design will be performed by a lab accredited by a national authority such as Laboratory
31 Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials
32 Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall
33 supply evidence of participation in the AASHTO Material Reference Laboratory (AMRL) program.

34
35 At the discretion of the Engineer, agencies may accept mix designs verified beyond the one
36 year verification period with a certification from the Contractor that the materials and sources
37 are the same as those shown on the original mix design. Evaluation of anti-strip additives are to
38 be provided as part of the mix design acceptance criteria. Acceptable anti-strip evaluations
39 include 1.) a WSDOT validated mix design showing the validated anti-strip additive and dosage
40 2.) a historic anti-strip determination from WSDOT not greater than two (2) calendar years old or
41 3.) a passing TSR test at the anti-strip dosage proposed by the Contractor.

42
43 No paving shall begin prior to Contracting Agency approval of the Contractor provided mix
44 design.

45
46 **5-04.3(8)A1, General**
47 **(*****)**

48
49 **Delete this section and replace it with the following:**

1 **5-04.3(8)A1, General**

2
3 Acceptance of HMA shall be as defined under nonstatistical or commercial evaluation.
4 Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the
5 contract documents.

6
7 The mix design will be the initial JMF for the class of HMA. The Contractor may request a change
8 in the JMF. Any adjustments to the JMF will require the approval of the Project Engineer and must
9 be made in accordance with Section 9-03.8(7).

10
11 Commercial evaluation may be used for Commercial HMA and for other classes of HMA in the
12 following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel,
13 and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation
14 shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by
15 commercial evaluation will be at the option of the Project Engineer. Commercial HMA can be
16 accepted by a contractor certificate of compliance letter stating the material meets the HMA
17 requirements defined in the contract.

18 **5-04.3(8)A4, Definition of Sampling Lot and Sublot**

19
20
21 Section 5-04.3(8)A4 is supplemented with the following:

22
23 For HMA in a structural application, sampling and testing for total project quantities less than
24 400 tons is at the discretion of the engineer. For HMA used in a structural application and with a
25 total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance
26 test shall be performed:

27 If test results are found to be within specification requirements, additional testing will be at the
28 Engineer’s discretion.

29 If test results are found not to be within specification requirements, additional testing as
30 needed to determine a CPF shall be performed.

31 **5-04.3(8)A5 Test Results**

32 (*****)

33
34
35 The first paragraph of this section is deleted.

36 **5-04.3(8)A6 Test Methods**

37 (*****)

38
39
40 Delete this section and replace it with the following;

41 **5-04.3(8)A6 Test Methods**

42
43
44 Testing of HMA for compliance of Va will be at the option of the Contracting Agency. If tested,
45 compliance of Va will be by WSDOT Standard Operating Procedure SOP 731. Testing for
46 compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308. Testing for
47 compliance of gradation will be by WAQTC FOP for AASHTO T 27/T 11.

48 **5-04.3(9) Spreading and Finishing**

49 (*****)

50 Section 5-04.3(9) is supplemented with the following:

51
52
53 The Contractor shall meet with the Engineer or representative by the end of each working day
54 to verify and confirm in writing and by signature the following daily yields and quantities.

1
2 If the Contractor fails to follow this procedure, the Contractor accepts the Engineer's
3 estimated quantities for the work completed that day.

4
5 **5-04.3(10) Compaction**

6
7 (*****)

8 Supplement Section 5-04.3(10) with the following:

9
10 **5-04.3(10)B Control**

11 (*****)

12 Section 5-04.3(10)B1 thru 5-04.3(10)B4 are deleted and replaced with:

13
14 HMA used in traffic lanes, including lanes for ramps, truck climbing, weaving, speed changes,
15 and left turn channelization, and having a specified compacted course thickness is greater
16 than 0.10 foot, shall be compacted to a specified level of relative density. The specified level
17 of relative density shall be a Composite Pay Factor (CPF) of not less than .75, using a
18 minimum of 92.0 percent of the reference maximum density as determined by WSDOT FOP
19 for AASHTO T 209. The level of compaction attained will be determined as the average of not
20 less than 5 nuclear density gauge tests taken on the day the mix is placed (after completion of
21 the finish rolling) at randomly selected locations within each lot. The quantity represented by
22 each lot will be no greater than a single day's production or approximately 400 tons, whichever
23 is less.

24
25 A test section(s) shall be constructed for the purpose of determining if the mix is compactable,
26 to establish a nuclear density gauge correlation factor, and meets the requirements of
27 Sections 5-04.

28
29 The test section shall be constructed at the beginning of production paving for the project and
30 will be at least 40 tons and a maximum of 60 tons. The first and last 25 feet of paving will not
31 be included in the test section. No further paving will be performed for the remainder of the
32 day, and the next two days following the test section, or as directed by the Engineer.

33
34 Construction of the test section shall be done using the equipment and rolling patterns that the
35 Contractor expects to use in the paving operation. A test section will be considered to have
36 established compactibility, based on the results of three density determinations, when the
37 average of the three tests exceeds 93 percent or when all three tests individually exceed 92
38 percent of the maximum density determined by WSDOT FOP for AASHTO T209. This will
39 require consideration of the presence of the correlation factor for the nuclear density gauge
40 and may require resolution after the correlation factor is known. When results have
41 demonstrated that the mix is not compactable, or not capable of meeting the requirements in
42 Sections 5-04, the Contractor shall construct a new test section after appropriate adjustments
43 to the mix.

44
45 The HMA used for the test section shall be measured by the ton and considered incidental to
46 HMA CI 3/8 In PG 64-22. All costs associated with constructing the test section or sections
47 will be incidental to the cost of the HMA. A pay factor of 1.00 for compaction will be used for
48 the quantity of mix used in construction of the test section or sections.

49
50 Control lots not meeting the minimum density standard shall be removed and replaced with
51 satisfactory material. At the option of the Engineer, noncomplying material may be accepted
52 at a reduced price. See 5-04.5(1)B of this Special Provision.

1 For compaction lots falling below a 1.00 pay factor and thus subject to price reduction or
2 rejection, cores may be used as an alternate to the nuclear density gauge tests. When cores
3 are requested by the Contractor the request shall be made by noon of the first working day
4 following placement of the mix. The contractor shall be responsible for obtaining the core
5 samples at the locations designated by the Engineer. The Engineer shall be responsible for
6 the testing of the core samples and the costs incurred. When the cores indicate the
7 acceptable level of compaction within a lot has not been achieved, the cost for the testing will
8 be deducted from any monies due or that may become due the contractor under the contract
9 at the rate of \$200 per core.

10
11 HMA, constructed under conditions other than listed above shall be compacted on the basis of
12 a test point evaluation of the compaction train. The test point evaluation shall be performed in
13 accordance with instruction from the Engineer. The number of passes with an approved
14 compaction train, required to attain the maximum point density, shall be used on all
15 subsequent paving.

16
17 The number of passes with an approved compaction train, required to attain the maximum test
18 point density, shall be used on all subsequent paving.

19
20 In addition to the randomly selected locations for tests of the density, the Engineer may also
21 isolate from a normal lot any area that is suspected of being defective in relative density. Such
22 isolated material will not include an original sample location. A minimum of 5 randomly
23 located density tests will be taken. The isolated area will then be evaluated for price
24 adjustment in accordance with the statistical evaluation section, considering it as a separate
25 lot.

26 27 **5-04.3(12) Joints**

28 **(*****)**

29 Section 5-04.3(12) is supplemented with the following:

30 31 **Sealing Joints and Feather Ends**

32
33 After placement of the HMA Pavement, the Contractor will seal all joints, including
34 approaches, or any feather ends with PG64-22 liquid asphalt and sand.

35
36 All costs associated with providing and placing the liquid asphalt as specified above shall be
37 incidental to and included in the unit contract price per ton for "HMA Class 3/8-In PG 64-22".

38 39 **5-04.4 Measurement**

40 **(*****)**

41 Section 5-04.4 is supplemented with the following:

42
43 "HMA Class 3/8 IN. PG 64-22" shall be measured per Ton.

44
45 "HMA for Approach Class 3/8 IN. PG 64-22" shall be measured per Ton.

46 47 **5-04.5 Payment**

48 **(*****)**

49 Section 5-04.5 is supplemented with the following:

50
51 "HMA Class 3/8 IN. PG 64-22" per Ton.

52
53 "HMA for Approach Class 3/8 IN. PG 64-22" per Ton.

1 **5-04.5(1) Quality Assurance Price Adjustment**

2 (*****)

3 Delete the fourth sentence of Section 5-04.5(1).

4
5 Supplement Section 5-04.5(1) with the following:

6
7 In the event that test results indicate the HMA does not meet specifications, a change order will be
8 issued for the price adjustments for Quality of HMA Mixture and Quality of HMA Compaction based
9 upon these specifications.

10 **5-04.5(1)B Price Adjustments for Quality of HMA Compaction**

11 (*****)

12
13
14 Delete this section and replace it with the following:

15
16 The maximum CPF of a compaction lot is 1.00.

17
18 For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming Compaction
19 Factor (NCCF) will be determined. THE NCCF equals the algebraic difference of CPF minus 1.00
20 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of the
21 NCCF, the quantity of HMA in the lot in tons and the unit contract price per ton of the mix.

22
23 (*****)

24 The CPF shall be as follows:

<u>Compaction</u>	<u>CPF</u>
91.0% to 91.9%	95%
90.0% to 90.9%	90%
89.0% to 89.9%	80%
88.0% to 88.9%	75%
At or below 87.9%	Mix is removed

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35 **DIVISION 6**
36 **STRUCTURES**
37

38 **6-01 GENERAL REQUIREMENTS FOR STRUCTURES**

39
40 **6-01.2 Foundation Data**

41 Section 6-01.2 is supplemented with the following:

42 (*****)

43 The attached log of test boring pages are reproductions of the original Log of Test Boring for the
44 test holes shown in the Plans that are found in Appendix A.

45
46
47 A copy of the geotechnical recommendations report may be requested from the office of the
48 Contracting Agency for review by prospective bidders.

49
50 **6-02 Concrete Structures**

51
52 **6-02.1 Description**

53 Section 6-02.1 is supplemented with the following:

1
2 **(*****)**

3 The Contractor shall supply and install prestressed concrete slab girders as per the Contract Plans and
4 these specifications. The “Superstructure – Graf Rd MP 1.01 Bridge” shall be designed to support
5 AASHTO HL-93 loading per the latest version of the WSDOT Bridge Design Manual. Bridge dead
6 loads shall include the Contractor supplied superstructure, the depicted HMA overlay (per Contract
7 Plans), a future 0.15-ft HMA overlay not depicted in the Contract Plans, guardrail, extruded curb, and
8 any other applicable permanent loads related to the superstructure. Precast units shall be connected
9 using weld ties (or an approved equivalent) and grouted per the manufacturer’s recommendation. The
10 outside slab girders shall include a drip edge and thrie-beam guardrail/bridge rail system with the ability
11 to withstand TL-2 vehicle impacts (35 MPH speed zone). Bridge rail and reducer sections to proposed
12 Type 31 Guardrail shall be included in the “Superstructure – Graf Rd MP 1.01 Bridge”. Slab girders
13 shall incorporate waterproofing materials at the Portland cement concrete top surface, pigmented
14 sealer at the exposed outside slab girders, and a bitumen coating at slab girder to backfill contact
15 points (precast unit ends, sides and bearing areas). The slab girder center joint and guardrail
16 attachments at the outside sections shall be designed to incorporate a 1.5% normal crown and 0.27%
17 longitudinal slope per the Contract Plans.
18

19 Two sets of superstructure plans stamped and certified by a Civil Engineer licensed in the State of
20 Washington shall be provided to Lewis County within forty-five working days of contract award. Plans
21 shall include connection details, lifting details, assembly, and installation details. Contract Plans depict
22 Guardrail Type 31 with the slab girder superstructure depth at 26-inches and 30-feet wide to
23 accommodate a 28-foot (minimum) finished roadway surface. Variations (within 5%) in superstructure
24 width and/or depth due to various manufacturer’s forms or construction methods shall be accepted
25 provided all previously listed requirements and the 28-ft minimum roadway surface is achieved with the
26 proposed superstructure.
27

28 **6-02.2 Materials**

29 Section 6-02.2 is supplemented with the following:

30
31 **(*****)**

32 Asphalt for Waterproofing	9-11.1
33 Waterproofing Fabric	9-11.2
34 Fence and Guardrail	9-16

35 36 **6-02.3 Construction Requirements**

37 38 **6-02.3(14) Finishing Concrete Surfaces**

39 40 **6-02.3(14)C Pigmented Sealer for Concrete Surfaces**

41
42 Section 6-02.3(14)C is supplemented with the following:

43
44 (April 6, 2009)

45 The color of the pigmented sealer shall be Washington Gray.

46
47 **(*****)**

48 A coating shall be applied at slab girder to backfill contact points to prevent corrosion of
49 the embedded concrete. Slab girder ends, sides and bearing areas shall be coated with
50 CSS-1, Asphalt for Waterproofing or other approved material at the manufacturer’s plant
51 prior to slab girder shipment to the construction site.
52
53

54 **6-02.4 Measurement**

1
2 Section 6-02.4 is supplemented with the following:

3
4 (August 2, 2010)

5 ***Superstructure – Graf Road MP 1.01 Bridge*** contains the following approximate quantities of
6 materials and work:

7
8 ***

9 PRESTRESSED CONC. SLAB GIRDER	1,800	S.F.
10 ASPHALT FOR WATER PROOFING & WATERPROOFING FABRIC	1,800	S.F.
11 CORROSION PREVENTION COATING	183	S.F.
12 PIGMENTED SEALER	260	S.F.
13 GROUT	2	C.Y.
14 BRIDGE RAIL	120	L.F.

15 ***

16
17 The quantities are listed only for the convenience of the Contractor in determining the volume of
18 work involved and are not guaranteed to be accurate. The prospective bidders shall verify these
19 quantities before submitting a bid. No adjustments other than for approved changes will be made
20 in the lump sum contract price for ***Superstructure – Graf Road MP 1.01 Bridge*** even though
21 the actual quantities required may deviate from those listed.

22 23 **6-02.5 Payment**

24
25 The third bid item under Section 6-02.5 is supplemented with the following:

26
27 (June 26, 2000)

28 All costs in connection with furnishing and installing the prestressed concrete slab girders, deck
29 waterproofing, corrosion prevention sealer (at embedded concrete areas), grout, and thrie-beam
30 guardrail system with reducers shall be included in the lump sum contract price for
31 ***"Superstructure – Graf Road MP 1.01 Bridge"***.

32 33 34 **6-13, STRUCTURAL EARTH WALLS**

35 **6-13.1 Description**

36 (*****)

37 Section 6-13.1 is supplemented with the following:

38
39 The Work includes construction of Geosynthetic Reinforced Soil (GRS) walls for bridge
40 abutments and wingwalls as detailed in these Special Provisions and the Contract Plans
41 (Appendix G). The GRS-IBS Geosynthetic Reinforced Soil Integrated Bridge System Interim
42 Implementation Guide--Chapter 7 Construction (Appendix C) is provided as general guidance
43 for this type of wall construction.

44
45 The Work includes construction of Reinforced Soil Foundations (RSF) for bridge abutments
46 and wingwalls as detailed in these Special Provisions and the Contract Plans (Appendix G).

47 48 **6-13.2 Materials**

49 (*****)

50 Section 6-13.2 is supplemented with the following:

51
52 All Geosynthetic Reinforcement for construction of the GRS and RSF abutments and wingwalls
53 shall meet the following material requirements:

1 Ultimate Tensile Strength--4,800 lb/ft
2 (Geotextiles ASTM D 4595 or geogrids ASTM D 6637)
3 Tensile Strength at 2% Strain--1,370 lb/ft
4 Slicing shall be per the manufacturer's recommendation
5 Submit technical data for and samples of Geotextile for approval by the Engineer
6

7 Concrete Masonry Unit (CMU) blocks shall meet material requirements of Section 9-12 *Masonry*
8 *Units* be gray in color and exposed blocks (above solid core blocks) shall include a gray colored
9 fractured surface finish.

10
11 Polystyrene Foam Board shall conform to AASHTO M230, Type IV.

12 13 **6-13.3 Construction Requirements**

14 (*****)

15 Section 6-13.3 is supplemented with the following:

16
17 GRS bridge abutments and wingwalls shall be constructed using CMUs, Geosynthetic Reinforcement,
18 and Gravel Borrow for Structural Earth Walls Incl. Haul (open-graded and well-graded backfill material)
19 per the Contract Plans. Geotextile fabric shall be pulled taut to remove all wrinkles and lay flat prior
20 placing and compacting the backfill material. Splices shall be 24-inches minimum apart outside the
21 beam seat and bearing bed zone per the manufacturer's requirements (no splices are allowed in the
22 beam seat and bearing bed zones). Construction equipment shall not be allowed directly on the
23 Geotextile, place a 4-inch minimum backfill material lift height prior to compacting. Wheeled
24 compaction equipment shall not be allowed within 3-feet of the wall face and restrict all construction
25 equipment to 5 MPH or less with no sudden stopping/turning when transporting material. CMU blocks
26 shall be staggered, including corners, so there are no vertical joints greater than one CMU block high
27 and all blocks shall be set with a vertical wall face batter of 0-degrees. The wall shall be checked for
28 level alignment of CMU block rows at least every other Geosynthetic Reinforcement layer. Correct any
29 alignment deviations greater than 0.25-inches. The top three CMU blocks in the GRS abutment wall
30 and wingwalls shall be core filled with commercial concrete and include a #4 rebar (grade 60 epoxy
31 coated) in each block cell. The beam seat shall include a solid CMU, 4-inch polystyrene foam board
32 immediately behind the block wall, and core filled top sloping away from the wall under the bridge
33 (rounded coping cap elsewhere) as depicted in the Contract Plans. The top of the wall under the bridge
34 shall include a 4-inch polystyrene foam board and flashing (secured with construction adhesive) to
35 create a flush wall surface at the bridge/wall interface.

36
37 RSF shall be constructed using Geosynthetic Reinforcement encapsulating the entire foundation with 3-
38 ft (minimum) Geosynthetic Reinforcement overlap tails on the downstream end. The RSF shall be
39 constructed with Well-Graded backfill material and compacted in lifts not to exceed 0.5-feet.

40
41 A 4-inch diameter (Schedule 40) conduit shall be installed on top of the beam seat zone layer along the
42 upstream side between the wall and guardrail posts. The conduit shall extend through the wall (at the
43 stream ends) and to the existing ground surface beyond the Geotextile Reinforcement. All conduit
44 ends shall be capped.

45 46 **6-13.3(7) Backfill**

47 (*****)

48 Section 6-13.3(7), fifth paragraph is replaced with the following:

49
50 Layer thickness within the beam seat zone and bearing bed zone shall not exceed 4-inches and shall
51 be compacted to 98 percent of the maximum density as determined by the compaction control tests
52 described in Section 2-03.3(14)D. Layer thickness elsewhere within the GRS shall not exceed 8-
53 inches. Layer thickness prior to compaction efforts shall not exceed 0.5-feet within the RSF. Backfill
54 material in the RSF and GRS (outside the beam seat and bearing zones) shall be compacted to 95

1 percent of the maximum density as determined by the compaction control tests described in Section 2-
2 03.3(14)D. The Contractor shall not use sheepsfoot rollers or rollers with protrusions for compacting
3 backfill material with Geosynthetic Reinforcement. The Contractor shall compact the backfill material
4 within the zone within 3-feet of the face of the CMU blocks in a manner that achieves compaction
5 without causing damage to or distortion of the lower CMU blocks.

6
7 Open-Graded or Well-Graded Backfill Material [per Special Provisions 9-03.14(4) Gravel Borrow for
8 Structural Earth Wall] shall be constructed as follows within the GRS and RSF:

9

<u>Backfill Material Type</u>	<u>Project Location</u>
10 Well-Graded	All Layers Above CMU Row 16
11 Open-Graded	Lower 16 Rows of GRS (At Solid CMU Blocks)
12 Well-Graded	RSF

13
14

15 The Contracting Agency may conduct a minimum of two random compaction tests per lift to verify the
16 Contractors compaction effort meets the compaction percentage as described in the Contract Plans.

17 18 **6-13.4 Measurement**

19 **(*****)**

20 Section 6-13.4 is replaced with the following:

21 “Structural Earth Wall” shall be measured by the square foot of completed vertical wall in place and
22 shall include all material (Geosynthetic Reinforcement, CMUs, concrete, rebar, polystyrene, conduit,
23 etc.), labor and equipment necessary to complete the wall. The bottom limits for vertical measurement
24 shall be the bottom of the RSF or GRS at wall sides. The top limit for vertical measurement shall be the
25 top of the wall as shown on the Contract Plans. The horizontal limits for measurement shall be from the
26 end of the wall to the end of the wall.

27
28 “Gravel Borrow for Structural Earth Wall Incl. Haul”, shall be measured per cubic yard for material
29 compacted and incorporated into the project as depicted in the Contract Plans. Measurements for this
30 bid item shall be determined by computer aided drafting software based on planned excavation limits.
31 The Contractor shall be responsible for supplying, hauling and compaction of material replacement due
32 to excavation beyond the plan limits for the GRS and RSF.

33 34 **6-13.5 Payment**

35 **(*****)**

36 Section 6-13.5 paragraph three is replaced with the following:

37
38 “Structural Earth Wall” per square foot of completed wall shall be full payment for all material
39 (Geosynthetic Reinforcement, CMUs, concrete, rebar, polystyrene, conduit, etc.), labor and equipment
40 necessary to complete the wall as depicted in the Contract Plans and described in the Special
41 Provisions.

42 43 44 **DIVISION 8** 45 **MISCELLANEOUS CONSTRUCTION**

46 47 **8-01, EROSION CONTROL AND WATER POLLUTION CONTROL**

48 49 **8-01.3 Construction Requirements**

50
51 Section 8-01.3 is supplemented with the following:

Graf Road MP 1.01 Culvert Replacement Project
CMP-1531

1
2 **Treatment of pH for Concrete Work**

3 Stormwater or dewatering water that has come in contact with concrete rubble, concrete pours,
4 concrete grindings or cement treated soils shall be maintained between pH 6.5 and pH 8.5 before
5 it is allowed to enter surface waters and discharges shall not cause a receiving water pH change of
6 more than 0.2 pH units.

7
8 The Contractor shall test runoff during each rain event causing runoff to leave the project site
9 during concrete pouring, grinding, rubblizing activities, when soils are being treated with cement
10 and during the first three storms following those activities. If discharging directly to surface waters
11 the Contractor shall test the pH of the water at the point of discharge, once the pour or grinding
12 has begun for each shift, and periodically, as requested by the Engineer, thereafter. If a test
13 indicates the pH is above 8.5, the Contractor shall immediately discontinue work and initiate
14 treatment according to the plan to lower the pH.

15
16 Unless specific measures are identified in the Special Provisions, the pH of water may be reduced
17 by infiltration, or dispersion in vegetation or compost.

18
19 Work may resume, with treatment, once the pH of the treated material is between 6.5 and 8.5 or it
20 can be demonstrated that the runoff will not reach surface waters.

21
22 Any additional BMP items as stated in the TESC Plan and ordered to be placed by the Engineer
23 but not included in the Proposal shall be paid by force account as provided in Section 1-09.6 of the
24 Standard Specifications.

25
26 **8-01.3(1) General**
27 (April 3, 2006)

28
29 **8-01.3(1)A Submittals**

30 Section 8-01.3(1)A is supplemented with the following:

31
32 Prior to beginning any concrete or grinding work, the Contractor shall submit a plan, for the
33 Engineer’s review and approval, outlining the procedures to be used to prevent high pH
34 stormwater or dewatering water from entering surface waters. The plan shall include how the pH
35 of the water will be maintained between pH 6.5 and pH 8.5 prior to being discharged from the
36 project or entering surface waters.

37
38 **8-01.3(2) Seeding, Fertilizing, and Mulching**

39
40 **8-01.3(2)B Seeding and Fertilizing**

41 (*****)

42 Section 8-01.3(2)B is supplemented with the following:

43
44 Seed Mix - Roadside: Grass seed, of the following composition, proportion, and quality shall be
45 applied at the rate of ***80 *** pounds of pure live seed per acre on all areas requiring permanent
46 roadside seeding within the project limits.

47
48 Kind and Variety of
49 Seed in Mixture by

50 Common Name and
51 (Botanical name)

Pounds Pure Live Seed
(PLS) Per Acre

52
53 Deschampsia elongata
54 Slender Hairgrass

5.88

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<i>Elymus glaucus</i> Blue Wildrye	39
<i>Festuca idahonesis</i> Idaho Fescue	12.74
<i>Festuca ovina</i> Sheep Fescue	4.21
<i>Hordeum brachyantherum</i> Meadow Barley	16.86
<i>Koeler cristata</i> Prairie Junegrass	1.31
Total Pounds PLS Per Acre	80

After seeding the Contractor shall be responsible to ensure a healthy stand of grass, otherwise, the Contractor shall, restore eroded areas, clean up materials, and reapply the seed, at no cost to the Contracting Agency.

Seeds shall be certified "Weed Free," indicating there are no noxious or nuisance weeds in the seed.

8-01.3(2)D Mulching
(*****)

Section 8-01.3(2)D is supplemented with the following:

Long-Term Wood Cellulose Fiber mulch shall be applied at a rate of 4,000 pounds per acre with all permanent seed mixes and shall conform to Section 9-14.4(2)A Long-Term Mulch of the Standard Specifications. No more than 2,000 pounds shall be applied in any single lift.

8-01.3(2)E Tackifiers
(*****)

Section 8-01.3(2)E is supplemented with the following:

PAM shall be added to seed mixes at the time of hydraulic application. Application rates and methods shall conform to Section 8-01.3(2)E of the Standard Specifications.

8-01.3(3) Placing Biodegradable Erosion Control Blanket
(*****)

Section 8-01.3(3) is supplemented with the following:

The Contractor shall place Biodegradable Erosion Control Blanket on slopes steeper than 3:1 (Section 9-14.5(2)D, Table 6 of the Standard Specifications) where shown in the plans. Prior to placing Erosion Control Blanket the Contractor shall hand seed area with seed mix as described in this Special Provision.

8-01.5 Payment
(*****)

Section 8-01.5 is supplemented with the following:

The unit contract price per Linear Foot (L.F.) for “High Visibility Silt Fence” shall be full pay for all cost to obtain, install, maintain, and remove the fence as specified. Once removed, the fencing shall remain the property of the Contractor.

The unit contract price per acre for “Seeding and Mulching” shall be full pay for furnishing and installing the specified seed mix, mulch, and PAM, chemical weed and grass control/removal immediately prior to seeding to produce the specified surface conditions, scarification of compacted areas, minor filling of ruts, and all material and equipment necessary and incidental to the approved application of the specified seed.

The unit contract price per square yard for “Biodegradable Erosion Control Blanket” shall be full pay for furnishing and installing the specified Biodegradable Erosion Control Blanket and seed mix. The seed mix shall be considered incidental to this bid item.

8-02 ROADSIDE RESTORATION

8-02.1 Description

Section 8-02.1 is supplemented with the following:

(*****)

The work described in this section, regardless of the nature or type of the materials encountered, includes supplying plant material, planting, installing plant protectors, installing weed barrier mats (at tree and shrub locations in Zone 2) and installing identification stakes as shown in the Contract Plans, marked in the field, and as directed by the Engineer. This work shall be accomplished in accordance with all environmental permits regulating the work.

8-02.3 Construction Requirements

Section 8-02.3 is supplemented with the following:

(*****)

PLANTING MITIGATION CONSTRUCTION

The Contractor shall grade, plant, and otherwise construct mitigated planting areas as shown in the Contract Plans, marked in the field, and required by the Engineer. The planting of the enhancement sites shall be performed by a biologist, horticulturist, landscape architect or other similar professional. The credentials of the supervisor of this work shall be approved by the Engineer prior to beginning work on this item.

Planting Zones

Planting zones shall be as follows:

Planting Zone	Scientific Name	Common Name	Type	Size of Plants (Material)	Planting Density (Spacing)	Proportion of Planting in Strata (%)	Number of Plants
Zone 1: OHWM to 100-yr Elev	<i>Salix hookeriana</i>	Dune Willow	T/S	live stakes	3' centers	50	100
	<i>Salix sitchensis</i>	Sitka Willow	T/S	live stakes	3' centers	50	100
Area: 1,940 sf							
Zone 2: Riparian Zone Outside Road Right of Way	<i>Pseudotsuga menziesii</i>	Douglas fir	T	1 gallon container	12' centers	50	25
	<i>Acer Macrophyllum</i>	Bigleaf Maple	T	1 gallon container	12' centers	50	25
	<i>Sambucus</i>	Red Elderberry	S	1 gallon container	6' centers	35	70

	<i>racemosa</i>						
Area: 7,110 sf	<i>Symphoricarpos albus</i>	Snowberry	S	1 gallon container	6' centers	65	128

Plant Establishment

(*****)

The Contractor shall provide a one-year plant guarantee period from the date of final acceptance, in accordance with performance standards of local, state and federal permits. At the end of the one-year guarantee period, all dead and unacceptable plant materials shall be replaced by the Contractor at the Contractor's expense. The Contractor shall provide maintenance and monitoring efforts during the guarantee period.

All shrubs and trees in Zone 2 shall be marked with a monitoring stake and include a biodegradable 3-foot square (or diameter) weed control mat. Weed control mats shall be Kraft Paper Square Mulch Mat, Vispore Tree Mat, Tree Square Mat, DeWitt Tree Mat Circle, or an equivalent weed control mat approved by the Engineer. Monitoring stakes shall be installed to a depth of 18 inches. Monitoring stakes shall be three to six feet above grade. The top six inches of the monitoring stakes shall be painted and color coded to species, to aid in identification of dead and/or missing species.

(*****)

Plant Protectors shall be placed around all tree and shrub species to be planted with the exception of *willow stakes* and *Symphoricarpos albus* (snowberry). Plant protectors shall be made of solid flexible plastic and should be held in place with bamboo or wood stakes. Plant protectors shall be installed to a depth of three inches below the soil surface and extend nine to twelve inches above the surface. Stakes should extend a minimum two inches below and minimum two inches above the plant protector and be placed 2 to 3 inches away from the plant. Plant protectors shall be secured to stakes with a minimum of two zip ties or equivalent.

8-02.3(14) Plant Replacement

(*****)

8-02.03(14) is supplemented with the following:

Monitoring stakes will be installed to a depth of 18 inches. Monitoring stakes should be three to six feet above grade. The top six inches of the monitoring stakes shall be painted, with permanent paint (anticipated to last a period of 5 years) using the table provided below, to aid in identification of dead and/or missing species.

ID	Species	Color
1	<i>Salix hookeriana</i>	Yellow (ribbon only on live stakes)
2	<i>Salix sitchensis</i>	Yellow w black line (ribbon only on live stakes)
3	<i>Acer macrophyllum</i>	Orange
4	<i>Pseudotsuga menziesii</i>	Green
5	<i>Sambucus racemosa</i>	Red with black line
	<i>Symphoricarpos albus</i>	White

8-02.4 Measurement

Section 8-02.4 is supplemented with the following:

(*****)

"Streamside Mitigation Planting", no specific unit of measure will apply to this lump sum item. Items specified are approximate and are provided for estimating purposes only. The successful

1 Contractor shall provide the Contracting Agency a lump sum breakdown of all items after bid
2 award.

3
4 **8-02.5 Payment**

5 Section 8-02.5 is supplemented with the following:

6
7 “Streamside Mitigation Planting”

8 The unit contract price per Lump Sum for “Streamside Mitigation Planting” shall be full
9 compensation for furnishing and installing all plants, live stakes, monitoring stakes, weed control
10 mats, and plant protectors - as described in Special Provision and in accordance with the USACE
11 NWP Permit on the project site and all other applicable requirements and regulations. Material
12 descriptions and construction requirements are as described in this Special Provision. The long
13 term monitoring and maintenance (after one-year plant guarantee period) shall be completed by
14 others.

15
16 **8-11, GUARDRAIL**

17 **8-11.3(1) Beam Guardrail**

18 (*****)

19 Section 8-11.3(1) is supplemented with the following:

20
21 All posts for this project shall be galvanized steel posts. See Section 9-16.3(2) Posts and Blocks of
22 these Special Provisions.

23
24 **8-15 RIPRAP**

25
26 **8-15.2 Materials**

27 (*****)

28 Section 8-15.1 is supplemented with the following:

29		
30	Rock for Erosion Control and Scour Protection Class B	9-13.4(2)
31		
32	Rock for Filter Blanket shall meet the gradation requirements	9-03.9(3)
33	for Crushed Surfacing Base Course	
34		
35	Streambed Sediment	9-03.11(1)
36		
37	10” Cobbles	9-03.11(2)

38
39 **Large Woody Debris**

40
41 Large woody debris shall consist of logs with root wads anchored with four boulders per log.
42 Ballast rock shall be Three Man Rock. Trunk diameter of logs with root wads will range from 16-
43 inch to 18-inch diameter at breast height (DBH). Trunk lengths shall be 15-feet long. The intact
44 root wad shall consist of stout roots, such that roots of minimum 2-inch diameter shall form a
45 root wad at least 4-feet in diameter. Logs with root wads shall consist of Douglas Fir species
46 that are free from rot or decay. Three Man Rock shall meet the requirements of Section 9-
47 13.7(1), of the WSDOT Standard Specifications. Three Man Rock shall be sub-angular at
48 exposed rock face.

49		
50	Three Man Rock	9-13.7(1)
51		

1 Cable shall be galvanized or stainless, steel core, 1/2-inch diameter and shall have a minimum
2 working load of 10,000 pounds.

3
4 Epoxy adhesive used to secure cable to ballast rock as shown on the drawings shall be
5 approved by the Engineer. Under no circumstances shall epoxy adhesive be applied in a
6 submerged condition. Epoxy shall be field tested for pullout strength prior to acceptance.
7

8 Galvanized 1/2" chain shall have a minimum working load of 10,000 pounds.
9

10 **8-15.3 Construction Requirements**

11 **(*****)**

12 Section 8-15.3 is supplemented with the following:
13

14 **Large Woody Debris**

15
16 This work consists of placing large woody debris at locations shown in the Contract Plans.
17

18
19 Care should be taken when handling log materials to minimize damage such as abrasion, splitting,
20 crushing and shearing to the tree trunk and root wads where intact and required. The chain's axis
21 shall be perpendicular to the woody debris axis to hold the woody debris down tightly to the
22 underlying material. Local excavation may be required to partially embed logs or ballast rock.
23 Each log shall have two anchor points 1/4 length from each end of log with two Three Man Rock at
24 each anchor point or as directed by the Engineer. Minimize distance between logs and Three Man
25 Rock. Make a complete wrap with the chain and hold with 4-inch staples around each piece of
26 woody debris to be anchored at each end. Cable shall be epoxied into the Three Man Rock as
27 shown on the Contract Plans with two anchor points for each log. Holes shall be drilled into the
28 Three Man Rock to secure cable with epoxy per the manufacturer's requirements (hole depth, hole
29 diameter, etc.) to develop pullout strength exceeding 6,000 pounds in fractured concrete. Drill
30 holes in rock shall not be within 12 inches of each other, as shown on the drawings. Holes shall be
31 placed in solid rock only, away from obvious fractures or other inconsistencies observed on the
32 rock surface. Holes shall be scoured with a brush, flushed with water and allowed to dry, and then
33 cleared as a final measure by blowing with compressed air prior to introduction of the adhesive.
34 Cable ends should be cleaned of any oil residue by dipping in a can of acetone or otherwise
35 cleaning. Epoxy adhesive shall not be applied in a submerged condition. Make a complete wrap
36 with the chain around each piece of woody debris to be anchored as shown on the plans.
37 Following anchoring, chain shall not have more than a 1-inch gap between the cable and the
38 woody debris when levered with a steel bar. The chain shall be tight between the rock anchored
39 end and the woody debris after placement, no slack will be allowed. There should be no slack in
40 the chain when the cable eye is inserted into the bottom of the epoxy filled drill holes. Fill drill holes
41 enough to insure complete coverage. Excess epoxy should come out the top of the hole as the
42 cable is seated in to the drill hole.
43

44 **Streambed Mix**

45
46 The Contractor shall create "Streambed Mix" by combining 2 parts Streambed Sediment and 1 part
47 10" Cobbles on-site or prior to hauling.
48

49 **8-15.3(7) Filter Blanket**

50 Section 8-15.3(7) is supplemented with the following:
51

52 Filter Blanket material shall be placed over the RSF and along the CMU wall to provide an
53 approximate 0.3-foot cushion for placement of scour protection rock. **The Filter Blanket**

1 material shall be considered incidental to "Rock for Erosion Control and Scour
2 Protection Class B" per ton bid item.

3
4 **8-15.4 Measurement**

5 (*****)

6 Section 8-15.4 is supplemented with the following:

7
8 "Rock for Erosion Control and Scour Protection Class B" will be measured per Ton. The unit
9 contract price per ton for Rock for Erosion Control and Scour Protection Class B shall be full
10 pay for furnishing all labor, tools, materials (including Filter Blanket material), and equipment
11 required to place material as shown in the Contract Plans.

12
13 "Large Woody Debris" including logs with root wads attached shall be measured per each
14 installed including cable, chain, Three Man Rock, drilling, 4-inch staples, epoxy, local
15 excavation for partial embedment, and placing cable into Three Man Rock.

16
17 "Streambed Mix" will be measured per Ton. The unit contract price per ton for Streambed Mix
18 shall be full pay for furnishing all labor, mixing, haul, tools, materials, and equipment required
19 to place material as shown in the Contract Plans.

20
21 **8-15.5 Payment**

22 (*****)

23 Section 8-15.5 is supplemented with the following:

24
25 "Rock for Erosion Control and Scour Protection Class B" per Ton.

26 The unit contract price per ton for the class or kind of riprap specified shall be full pay for
27 furnishing all labor, tools, equipment, and materials required to construct the riprap, except for
28 excavation.

29
30 "Large Woody Debris", per each.

31 Payment for "Large Woody Debris" per each including logs with root wads attached shall be
32 full pay for supplying the material, labor, tools, and equipment for installed "Large Woody
33 Debris". Cable and chain, Three Man Rock, drilling, 4-inch staples, epoxy, and placing cable
34 into Three Man Rock required for installation of "Large Woody Debris" shall be incidental to
35 the "Large Woody Debris" pay item.

36
37 "Streambed Mix" per Ton.

38
39 **DIVISION 9**
40 **MATERIALS**

41 **9-03 AGGREGATES**

42 (*****)

43
44 **9-03.8 (2) HMA Test Requirements**

45 (*****)

46 Section 9-03.8(2) is supplemented with the following:

47
48 **ESAL's**

49 The number of ESAL's for the design and acceptance of the HMA shall be *** 1.0 *** million.

50
51 **9-03.8(7) HMA Tolerances and Adjustments**

52 (*****)

53 Delete item 1 and replace it with the following:

1
2 **1. Job Mix Formula Tolerances.** After the JMF is determined as required in 5-04.3(7)A, the
3 constituents of the mixture at the time of acceptance shall conform to the following tolerances:
4

	Nonstatistical Evaluation	Commercial Evaluation
Aggregate, percent passing		
1", 3/4", 1/2", and 3/8" sieves	±6%	±8%
U.S. No. 4 sieve	±6%	±8%
U.S. No. 8 sieve	±4%	±8%
U.S. No. 16 sieve	±4%	±8%
U.S. No. 30 sieve	±4%	±8%
U.S. No. 50 sieve	±4%	±8%
U.S. No. 100 sieve	±4%	±8%
U.S. No. 200 sieve	±2.0%	±3.0%
Asphalt Binder	±0.5%	±0.7%
VMA	1.5% below minimum value in 9-03.8(2)	
VFA	min. and max. as listed in 9-03.8(2)	
Va	2.5% minimum and 5.5% maximum	

17
18
19
20
21
22 These tolerance limits constitute the allowable limits as described in Section 1-06.2. The tolerance
23 limit for aggregate shall not exceed the limits of the control points section, except the tolerance
24 limits for sieves designated as 100% passing will be 99-100.
25

26 **9-03.14(4) Gravel Borrow for Structural Earth Wall**
27 (*****)

28 Section 9-03.14(4) grading is replaced with the following:
29

30 Open-Graded Backfill Material for Geosynthetic Reinforced Soil

31 Lower 16 CMU Rows (Layers with Solid CMUs)

Sieve Size	Percent Passing
1/2-Inch	100
3/8-Inch	90-100
No. 4	20-55
No. 8	5-30
No. 16	0-10
No. 50	0-5
Plasticity Index (PI) (AASHTO T-90)	PI less than or equal to 6

32
33
34
35
36
37
38
39
40
41
42
43 Well-Graded Backfill Material for Geosynthetic Reinforced Soil

44 Reinforced Soil Foundation (RSF) and All Layers Above CMU Row 16

Sieve Size	Percent Passing
1 1/4-Inch	99-100
1-Inch	80-100
5/8-Inch	50-80
No. 4	20-45
No. 40	3-18
No. 200	7.5 max.
% Fracture	75 min.
Sand Equivalent	40 min.

1 **9-16.3(2) Posts and Blocks**

2 Section 9-16.3(2) is supplemented with the following:

3
4 (*****)

5 All guardrail posts shall be galvanized steel.

6
7 **POWER EQUIPMENT**

8 (*****)

9
10 The successful bidder will be required to furnish the County a list of all equipment that they anticipate
11 utilizing on this project.

12
13 The bidder's attention is directed to the attached Power Equipment Form, which the successful bidder
14 will be required to complete and return with the contract documents. This information will enable hourly
15 rental rates to be computed by the County, utilizing the "Rental Rate Blue Book for Construction
16 Equipment". No payment for any force account work will be allowed until this form has been returned
17 and accepted by the County.

18
19 **E-VERIFY**

20 (*****)

21
22 "Effective June 21st, 2010, all contracts with a value of ≥ \$100,000 shall require that the awarded
23 contractor register with the Department of Homeland Security E-Verify program. Contractors shall have
24 sixty days after the execution of the contract to register and enter into a Memorandum of Understanding
25 (MOU) with the Department of Homeland Security (DHS) E-Verify program. After completing the MOU
26 the contractor shall have an additional sixty days to provide a written record on the authorized
27 employment status of their employees and those of any sub-contractor(s) currently assigned to the
28 contract. Employees hired during the execution of the contract and after submission of the initial
29 verification will be verified to the county within 30 days of hire, as reported from the E-Verify program.
30 The contractor will continue to update the County on all corrective actions required and changes made
31 during the performance of the contract."

32
33 **BOND**

34 (*****)

35
36 The Bidder's special attention is directed to the attached bond form, which the successful bidder will be
37 required to execute and furnish the County. **NO OTHER BOND FORMS WILL BE ACCEPTED.** The
38 bond shall be for the full amount of the contract.

39
40 **LEWIS COUNTY ESTIMATES AND PAYMENT POLICY**

41 (*****)

42 Payment cutoff shall be the last day of each month, inclusive of that day. On or before the 5th day of
43 each calendar month during the term of this contract, the Contracting Agency shall prepare monthly
44 Progress Payments for work completed and material furnished. If the Contractor agrees, the
45 Contractor will approve the Progress Payment and return the estimate to the Contracting Agency by the
46 15th day of that same calendar month. The Contracting Agency shall prepare a voucher based upon
47 the approved Progress Payment and payment based thereon shall be due the Contractor near the 10th
48 day of the next calendar month. Material Supply contracts involving delivery of prefabricated material
49 or stockpile material only (no physical work on Contracting Agency property) may be reimbursed via
50 Contractor generated invoices upon written approval by the Engineer. Reimbursement by invoice shall

1 not be subject to late charges listed on the Contractor's standard invoice form.

2
3 When the Contractor reports the work is completed he/she shall then notify the Contracting Agency.
4 The Contracting Agency shall inspect the work and report any deficiencies to the Contractor. When the
5 Contracting Agency is satisfied the work has been completed in accordance with all plans and
6 specifications, the Contracting Agency shall then accept the work.

7
8 Upon completion of all work described in this Contract, the Contracting Agency shall prepare a Final
9 Progress Payment and Final Contract Voucher for approval by the Contractor and processing for final
10 payment. Release of the Contract Bond will be 60 days following Contracting Agency Final Acceptance
11 of Contract, provided the conditions of Section 1-03.4 and Section 1-07.2 of these Special Provisions
12 have been satisfied.

14 **APPENDICES**

15 (July 12, 1999)

16 The following appendices are attached and made a part of this contract:

17
18 ***** APPENDIX A:

19 Boring Logs

20
21 APPENDIX B:

22 Washington State Prevailing Wage Rates

23 Wage Rate Supplement

24 Wage Rate Benefit Code Key

25
26 APPENDIX C:

27 U.S Dept. of Transportation GRS-IBS Interim Implementation Guide Ch. 7 -- Construction

28
29 APPENDIX D:

30 Bid Proposal Documents

31
32 APPENDIX E:

33 Contract Documents

34
35 APPENDIX F:

36 Permit Documents

37
38 APPENDIX G:

39 Contract Plans *****

(AUGUST 7, 2017)
STANDARD PLANS

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01 transmitted under Publications Transmittal No. PT 16-048, effective August 7, 2017 is made a part of this contract.

The Standard Plans are revised as follows:

A-30.15
DELETED

A-40.10
Section View, PCCP to HMA Longitudinal Joint, callout, was – “Sawed Groove ~ Width 3/16” (IN) MIN. to 5/16” (IN) MAX. ~ Depth 1” (IN) MIN. ~ see Std. Spec. 5-04.3(12)B” is revised to read; “Sawed Groove ~ Width 3/16” (IN) MIN. to 5/16” (IN) MAX. ~ Depth 1” (IN) MIN. ~ see Std. Spec. Section 5-04.3(12)A2”

A-50.10
Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20
Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30
Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.10

A-60.30
Note 4, was – “If the ACP and membrane is to be removed from the bridge deck, see GSP 023106 for deck preparation before placing new membrane.” Is revised to read; “If the ACP and membrane is to be removed from the bridge deck, see GSP 6-02.3(10)D.OPT6.GB6 for deck preparation before placing new membrane.”

B-10.20
Substitute “step” in lieu of “handhold” on plan

B-25.20
Note 4, was – “Bolt-Down capability is required on all frames, grates and covers, unless specified in the Contract. Provide two holes in the Frame that are vertically aligned with the grate slots. The frame shall accept the 5/8” x 11 NC x 2” allen head cap screw by being tapped, or other approved mechanism. The location of bolt-down holes varies among manufacturers. See BOLT-DOWN DETAIL, **Standard Plan B-30.10**. Is revised to read; “Bolt-Down capability is required on all frames, grates and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8” (in) - 11 NC x 2” (in) Allen head cap screw by being tapped, or other approved mechanism. The location of bolt-down holes varies by manufacturer.”
See BOLT-DOWN DETAIL, **Standard Plan B-30.10**.

Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

B-30.70

Note 2, was – “Bolt-Down capability is required on all frames, grates and covers, unless specified otherwise in the Contract. Provide 3 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8” -1 NC x 2” Allen head cap screw by being tapped, or other approved mechanism. Location of bolt down holes varies by manufacturer.” Is revised to read; “Bolt-Down capability is required on all frames, grates and covers, unless specified otherwise in the Contract. Provide 3 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8” (in) - 11 NC x 2” (in) Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.”

RING PLAN, callout, was – “DRILL AND TAP 5/8” – 11NC HOLE FOR 1 1/2” X 5/8” STAINLESS STEEL SOCKET HEAD CAP SCREW (TYP.)” is revised to read; “SEE NOTE 2”

B-90.40

Valve Detail - DELETED

C-16b

DELETED

C-22.14

Note 3, formula, was: “Elevation G = (Elevation S – D x (0.1) + 28” is revised to read: “Elevation G = (Elevation S – D x (0.1) + 28/12”

C-22.16

Note 3, formula, was: “Elevation G = (Elevation S – D x (0.1) + 31” is revised to read: “Elevation G = (Elevation S – D x (0.1) + 31/12”

C-22.41

DELETED

C-25.18

DELETED

D-10.10

Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.15

Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.20

Wall Type 3 may be used in all cases. The last sentence of Note 6 on Wall Type 3 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.25

Wall Type 4 may be used in all cases. The last sentence of Note 6 on Wall Type 4 shall be revised to read: The seismic design of these walls has been completed using a site adjusted (effective) peak ground acceleration of 0.32g.

D-10.30

Wall Type 5 may be used in all cases.

D-10.35

Wall Type 6 may be used in all cases.

D-10.40

Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.45

Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge Design memorandum.

D-15.10

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.20

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.30

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.12

Section Title, was – "Depressed Curb Section" is revised to read: "Depressed Curb and Gutter Section"

F-10.40

"EXTRUDED CURB AT CUT SLOPE", Section detail - Deleted

F-10.42

DELETE – "Extruded Curb at Cut Slope" View

G-22.10

Sheet 2, Elevation , Three-Post Installation, Dimension, upper right, was – ".035" is revised to read: " 0.35X"

G-24.60

Sheet 1, View A, Dimension @ Bottom of sign, is = 3" is revised to read: 6".

G-60.10

Sheet 3, TYPICAL TRUSS DETAILS, BASE ~ TOP, callout, was – "15/16"(IN) DIAM. HOLES FOR FOUR, 7/8" (IN) DIAM. BOLTS (ASTM A 325)" is revised to read: "15/16"(IN) DIAM. HOLES FOR FOUR, 7/8" (IN) DIAM. BOLTS (ASTM F3125, GRADE A325)"

G-90.10

TOP VIEW, callout, was – "Vertical Brace ~ W4 x 13 steel (TYP.)(See Note 4)" is revised to read; "Vertical Brace ~ W4 x 13 steel (TYP.)(See Note 3)"

G-95.10

Sheet 2, Detail "B", Plan View, callout, was – "5/8" DIAM. ASTM A 325 H.S. BOLT W/HEAVY HEX NUT AND WASHER, GALV. (TYP.) TIGHTEN PER STD. SPEC. 6-03.3(33)" is revised to read: "5/8" DIAM. ASTM F 3125, GRADE A325 H.S. BOLT W/HEAVY HEX NUT AND WASHER, GALV. (TYP.) TIGHTEN PER STD. SPEC. 6-03.3(33)"

H-70.20

Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10

I-30.30

8" Diameter Wattle Spacing Table, lower left corner, was – "Slope:1H : 1V, Maximum Spacing:10' – 0'" is revised to read: "Slope:1H : 1V, Maximum Spacing:8' – 0'".

J-3

DELETED

J-3b

DELETED

J-3C

DELETED

J-10.21

Note 18, was – "When service cabinet is installed within right of way fence, see Standard Plan J-10.22 for details." Is revised to read; "When service cabinet is installed within right of way fence, or the meter base is mounted on the exterior of the cabinet, see Standard Plan J-10.22 for details."

J-10.22

Key Note 1, was – "Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305." Is revised to read; "Meter base per serving utility requirements~ as a minimum, the meter base shall be safety socket box with factory-installed test bypass facility that meets the requirements of EUSERC drawing 305. When the utility requires meter base to be mounted on the side or back of the service cabinet, the meter base enclosure shall be fabricated from type 304 stainless steel."

Key Note 4, "Test with (SPDT Snap Action, Positive close 15 Amp – 120/277 volt "T" rated). Is revised to read: "Test Switch (SPDT snap action, positive close 15 amp – 120/277 volt "T" rated)."

Key Note 14, was – "Hinged dead front with ¼ turn fasteners or slide latch." Is revised to read; "Hinged dead front with ¼ turn fasteners or slide latch. ~ Dead front panel bolts shall not extend into the vertical limits of the breaker array(s)."

Key Note 15, was – "Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper. See Cabinet Main bonding Jumper detail, Standard Plan J-3b." is revised to read; "Cabinet Main Bonding Jumper Assembly ~ Buss shall be 4 lug tinned copper ~ See Standard Plan J-10.20 for Cabinet Main Bonding Jumper Assembly details."

J-20.10

Add Note 5, "5. One accessible pedestrian signal assembly per pedestrian pushbutton post."

J-20.11

Sheet 2, Foundation Detail, Elevation, callout – "Type 1 Signal Pole" is revised to read: "Type PS or Type 1 Signal Pole"

Sheet 2, Foundation Detail, Elevation, add note below Title, "(Type 1 Signal Pole Shown)"

Add Note 6, "6. One accessible pedestrian signal assembly per pedestrian pushbutton post."

J-20.26

Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."

J-20.16

View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR BOLTS ~ ¾" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"

Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ ¾" (IN) Diam. Torque Clamping Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ ¾" (IN) Diam. Torque Clamping Bolts (see Note 1)"

Detail F, callout, “3/4” (IN) x 2’ – 6” Anchor Bolt (TYP.) ~ Four Required (See Note 4)” is revised to read; “3/4” (IN) x 2’ – 6” Anchor Bolt (TYP.) ~ Three Required (See Note 2)”

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 ½” DIAM., is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-21.16

Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15

Ramp Meter Signal Standard, elevation, dimension 4’ - 6” is revised to read; 6’-0”
(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½” DIAM. is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-26.20

Sheet 1, NOTES, Note 5, was - “Connecting/clamping bolts AASHTO M 164 (ASTM A325)” is revised to read: “Connecting/clamping bolts ASTM F3125 GRADE A325”

Was - “NUTS AASHTO M 291 (ASTM A263) GRADE DH” is revised to read: “NUTS ASTM A563 GRADE DH”

J-28.43

KEY notes, note 1, was – “CLAMPING BOLTS, 7/8” (IN) DIAM. HEX HEAD BOLT AND NUT, TWO PLATE WASHERS, ONE HARDENED ROUND WASHER, 87 FT-LBS TORQUE (THREE CLAMPING BOLT ASSEMBLIES PER SLIP BASE) (PER ASTM A325)” is revised to read: “CLAMPING BOLTS, 7/8” (IN) DIAM. HEX HEAD BOLT AND NUT, TWO PLATE WASHERS, ONE HARDENED ROUND WASHER, 87 FT-LBS TORQUE (THREE CLAMPING BOLT ASSEMBLIES PER SLIP BASE) (PER ASTM F3125 GRADE A325)”

J-40.10

Sheet 2 of 2, Detail F, callout, “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 12” S. S. FLAT WASHER” is revised to read; “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 1/2” (IN) S. S. FLAT WASHER”

J-60.14

All references to J-16b (6x) are revised to read; J-60.11

K-80.30

In the NARROW BASE, END view, the reference to Std. Plan C-8e is revised to Std. Plan K-80.35

M-11.10

Layout, dimension (from stop bar to “X”), was – 23’ is revised to read; 24’

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

A-10.10-00.....8/7/07 A-40.00-00.....8/11/09 A-50.30-00.....11/17/08

A-10.20-00.....10/5/07	A-40.10-03.....12/23/14	A-50.40-00.....11/17/08
A-10.30-00.....10/5/07	A-40.15-00.....8/11/09	A-60.10-03.....12/23/14
A-20.10-00.....8/31/07	A-40.20-04.....1/18/17	A-60.20-03.....12/23/14
A-30.10-00.....11/8/07	A-40.50-02.....12/23/14	A-60.30-00.....11/8/07
A-30.30-01.....6/16/11	A-50.10-00.....11/17/08	A-60.40-00.....8/31/07
A-30.35-00.....10/12/07	A-50.20-01.....9/22/09	
B-5.20-02.....1/26/17	B-30.50-02.....1/26/17	B-75.20-01.....6/10/08
B-5.40-02.....1/26/17	B-30.70-03.....4/26/12	B-75.50-01.....6/10/08
B-5.60-02.....1/26/17	B-30.80-00.....6/8/06	B-75.60-00.....6/8/06
B-10.20-01.....2/7/12	B-30.90-02.....1/26/17	B-80.20-00.....6/8/06
B-10.40-01.....1/26/17	B-35.20-00.....6/8/06	B-80.40-00.....6/1/06
B-10.60-00.....6/8/06	B-35.40-00.....6/8/06	B-82.20-00.....6/1/06
B-10.70-00.....1/26/17	B-40.20-00.....6/1/06	B-85.10-01.....6/10/08
B-15.20-01.....2/7/12	B-40.40-02.....1/26/17	B-85.20-00.....6/1/06
B-15.40-01.....2/7/12	B-45.20-01.....7/11/17	B-85.30-00.....6/1/06
B-15.60-02.....1/26/17	B-45.40-01.....7/21/17	B-85.40-00.....6/8/06
B-20.20-02.....3/16/12	B-50.20-00.....6/1/06	B-85.50-01.....6/10/08
B-20.40-03.....3/16/12	B-55.20-01.....1/26/17	B-90.10-00.....6/8/06
B-20.60-03.....3/15/12	B-60.20-00.....6/8/06	B-90.20-00.....6/8/06
B-25.20-01.....3/15/12	B-60.40-00.....6/1/06	B-90.30-00.....6/8/06
B-25.60-01.....1/26/17	B-65.20-01.....4/26/12	B-90.40-01.....1/26/17
B-30.10-02.....1/26/17	B-65.40-00.....6/1/06	B-90.50-00.....6/8/06
B-30.20-03.....1/26/17	B-70.20-00.....6/1/06	B-95.20-01.....2/3/09
B-30.30-02.....1/26/17	B-70.60-01.....1/26/17	B-95.40-00.....6/8/06
B-30.40-02.....1/26/17		
C-1.....7/12/16	C-6.....7/15/16	C-23.60-04.....7/21/17
C-1a.....7/14/15	C-6a.....10/14/09	C.24.10-01.....6/11/14
C-1b.....7/14/15	C-6c.....7/15/16	C-25.20-06.....7/14/15
C-1c.....7/12/16	C-6d.....7/15/16	C-25.22-05.....7/14/15
C-1d.....10/31/03	C-6f.....7/15/16	C-25.26-03.....7/14/15
C-2.....1/6/00	C-7.....6/16/11	C-25.80-04.....7/15/16
C-2a.....6/21/06	C-7a.....6/16/11	C-40.14-02.....7/2/12
C-2b.....6/21/06	C-8.....2/10/09	C-40.16-02.....7/2/12
C-2c.....6/21/06	C-8a.....7/25/97	C-40.18-03.....7/21/17
C-2d.....6/21/06	C-8b.....2/29/16	C-70.10-01.....6/17/14
C-2e.....6/21/06	C-8e.....2/21/07	C-75.10-01.....6/11/14
C-2f.....3/14/97	C-8f.....6/30/04	C-75.20-01.....6/11/14
C-2g.....7/27/01	C-10.....7/15/16	C-75.30-01.....6/11/14
C-2h.....3/28/97	C-16a.....7/21/17	C-80.10-01.....6/11/14
C-2i.....3/28/97	C-20.10-04.....7/21/17	C-80.20-01.....6/11/14
C-2j.....6/12/98	C-20.11-00.....7/21/17	C-80.30-01.....6/11/14
C-2k.....7/12/16	C-20.14-03.....6/11/14	C-80.40-01.....6/11/14
C-2n.....7/12/16	C-20.15-02.....6/11/14	C-80.50-00.....4/8/12
C-2o.....7/13/01	C-20.18-02.....6/11/14	C-85.10-00.....4/8/12
C-2p.....10/31/03	C-20.19-02.....6/11/14	C-85.11-00.....4/8/12
C-3.....7/2/12	C-20.40-06.....7/21/17	C-85.14-01.....6/11/14
C-3a.....10/4/05	C-20.41-01.....7/14/15	C-85.15-01.....6/30/14

C-3b.....6/27/11	C-20.42-05.....7/14/15	C-85.16-01.....6/17/14
C-3c.....6/27/11	C-20.45.01.....7/2/12	C-85-18-01.....6/11/14
C-4b.....7/15/16	C-22.14-04.....7/15/16	C-85.20-01.....6/11/14
C-4e.....7/15/16	C-22.16-06.....7/21/17	C-90.10-00.....7/3/08
C-4f.....7/2/12	C-22.40-06.....7/21/17	
	C-22.45-03.....7/21/17	

D-2.04-00.....11/10/05	D-2.48-00.....11/10/05	D-3.17-02.....5/9/16
D-2.06-01.....1/6/09	D-2.64-01.....1/6/09	D-4.....12/11/98
D-2.08-00.....11/10/05	D-2.66-00.....11/10/05	D-6.....6/19/98
D-2.14-00.....11/10/05	D-2.68-00.....11/10/05	D-10.10-01.....12/2/08
D-2.16-00.....11/10/05	D-2.80-00.....11/10/05	D-10.15-01.....12/2/08
D-2.18-00.....11/10/05	D-2.82-00.....11/10/05	D-10.20-00.....7/8/08
D-2.20-00.....11/10/05	D-2.84-00.....11/10/05	D-10.25-00.....7/8/08
D-2.32-00.....11/10/05	D-2.86-00.....11/10/05	D-10.30-00.....7/8/08
D-2.34-01.....1/6/09	D-2.88-00.....11/10/05	D-10.35-00.....7/8/08
D-2.36-03.....6/11/14	D-2.92-00.....11/10/05	D-10.40-01.....12/2/08
D-2.42-00.....11/10/05	D-3.09-00.....5/17/12	D-10.45-01.....12/2/08
D-2.44-00.....11/10/05	D-3.10-01.....5/29/13	D-15.10-01.....12/2/08
D-2.60-00.....11/10/05	D-3.11-03.....6/11/14	D-15.20-03.....5/9/16
D-2.62-00.....11/10/05	D-3.15-02.....6/10/13	D-15.30-01.....12/02/08
D-2.46-01.....6/11/14	D-3.16-02.....5/29/13	

E-1.....2/21/07	E-4.....8/27/03
E-2.....5/29/98	E-4a.....8/27/03

F-10.12-03.....6/11/14	F-10.62-02.....4/22/14	F-40.15-03.....6/29/16
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F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	

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G-22.10-03.....7/10/15	G-50.10-02.....6/23/15	G-90.20-05.....7/11/17
G-24.10-00.....11/8/07	G-60.10-03.....6/18/15	G-90.30-04.....7/11/17
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G-24.30-01.....2/7/12	G-60.30-02.....6/18/15	G-95.10-01.....6/2/11
G-24.40-06.....2/29/16	G-70.10-03.....6/18/15	G-95.20-02.....6/2/11
G-24.50-04.....7/11/17	G-70.20-04.....7/21/17	G-95.30-02.....6/2/11
G-24.60-04.....6/23/15	G-70.30-04.....7/21/17	

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J-10.25-00.....7/11/17	J-28.42-01.....6/11/14	J-50.16-01.....3/22/13
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J-21.17-01.....6/10/13	J-40.20-03.....4/28/16	J-75.40-02.....6/1/16
J-21.20-01.....6/10/13	J-40.30-04.....4/28/16	J-75.41-01.....6/29/16
J-22.15-02.....7/10/15	J-40.35-01.....5/29/13	J-75.45-02.....6/1/16
J-22.16-03.....7/10/15	J-40.36-02.....7/21/17	J-90.10-02.....4/28/16
J-26.10-03.....7/21/16	J-40.37-02.....7/21/17	J-90.20-02.....4/28/16
J-26.15-01.....5/17/12		J-90.21-01.....4/28/16

K-70.20-01.....6/1/16
 K-80.10-01.....6/1/16
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 K-80.35-00.....2/21/07
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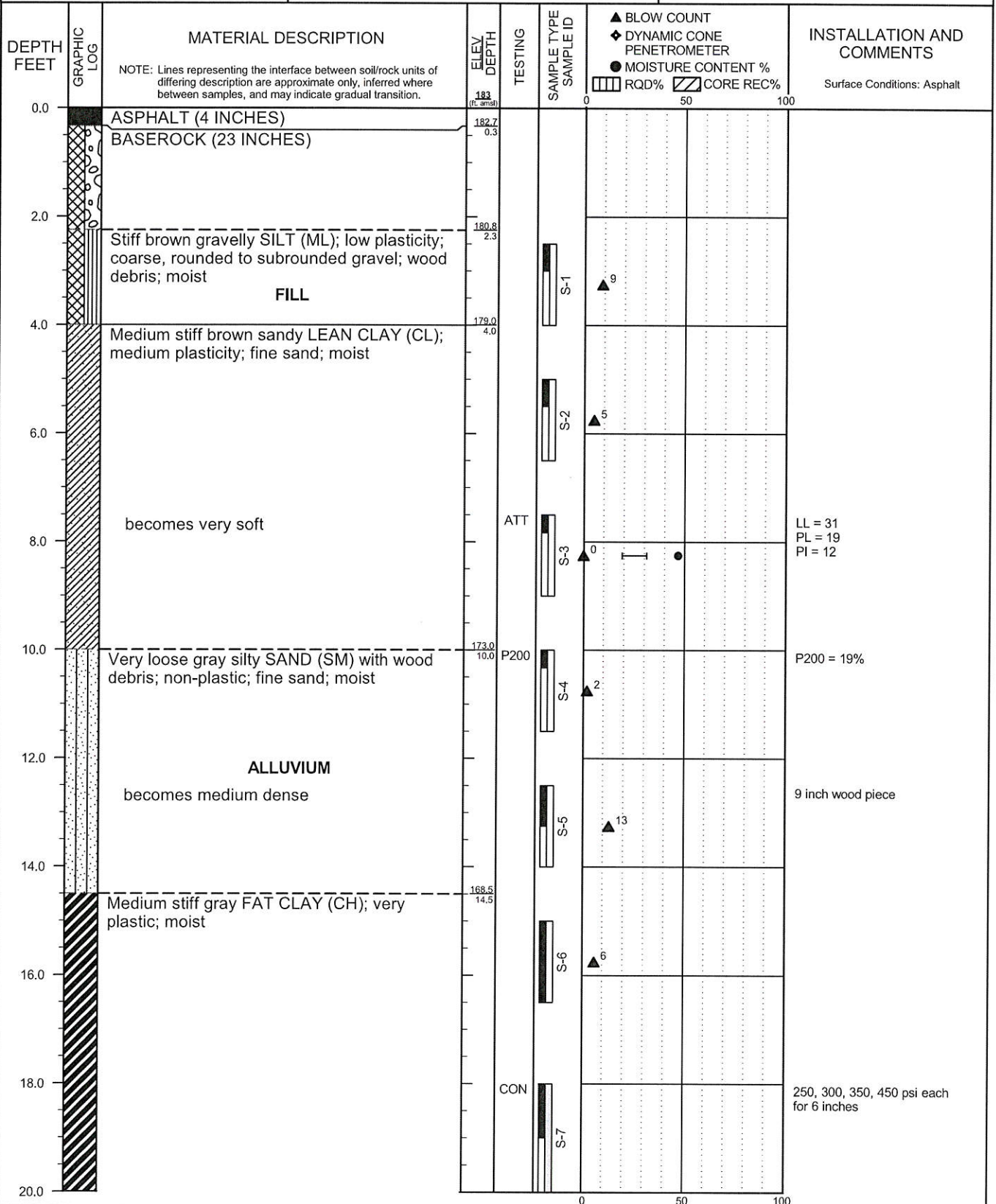
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L-30.10-02.....6/11/14	L-40.20-02.....6/21/12	

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M-1.40-02.....6/3/11	M-15.10-01.....2/6/07	M-40.20-00...10/12/07
M-1.60-02.....6/3/11	M-17.10-02.....7/3/08	M-40.30-01.....7/11/17
M-1.80-03.....6/3/11	M-20.10-02.....6/3/11	M-40.40-00.....9/20/07
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M-2.21-00.....7/10/15	M-20.30-04.....2/29/16	M-40.60-00.....9/20/07
M-3.10-03.....6/3/11	M-20.40-03.....6/24/14	M-60.10-01.....6/3/11
M-3.20-02.....6/3/11	M-20.50-02.....6/3/11	M-60.20-02.....6/27/11
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M-3.40-03.....6/3/11	M-24.40-02.....4/20/15	M-80.10-01.....6/3/11
M-3.50-02.....6/3/11	M-24.50-00.....6/16/11	M-80.20-00.....6/10/08
M-5.10-02.....6/3/11	M-24.60-04.....6/24/14	M-80.30-00.....6/10/08
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M-9.50-02.....6/24/14	M-24.66-00.....7/11/17	
M-9.60-00.....2/10/09		
M-11.10-02.....7/11/17		

APPENDIX A

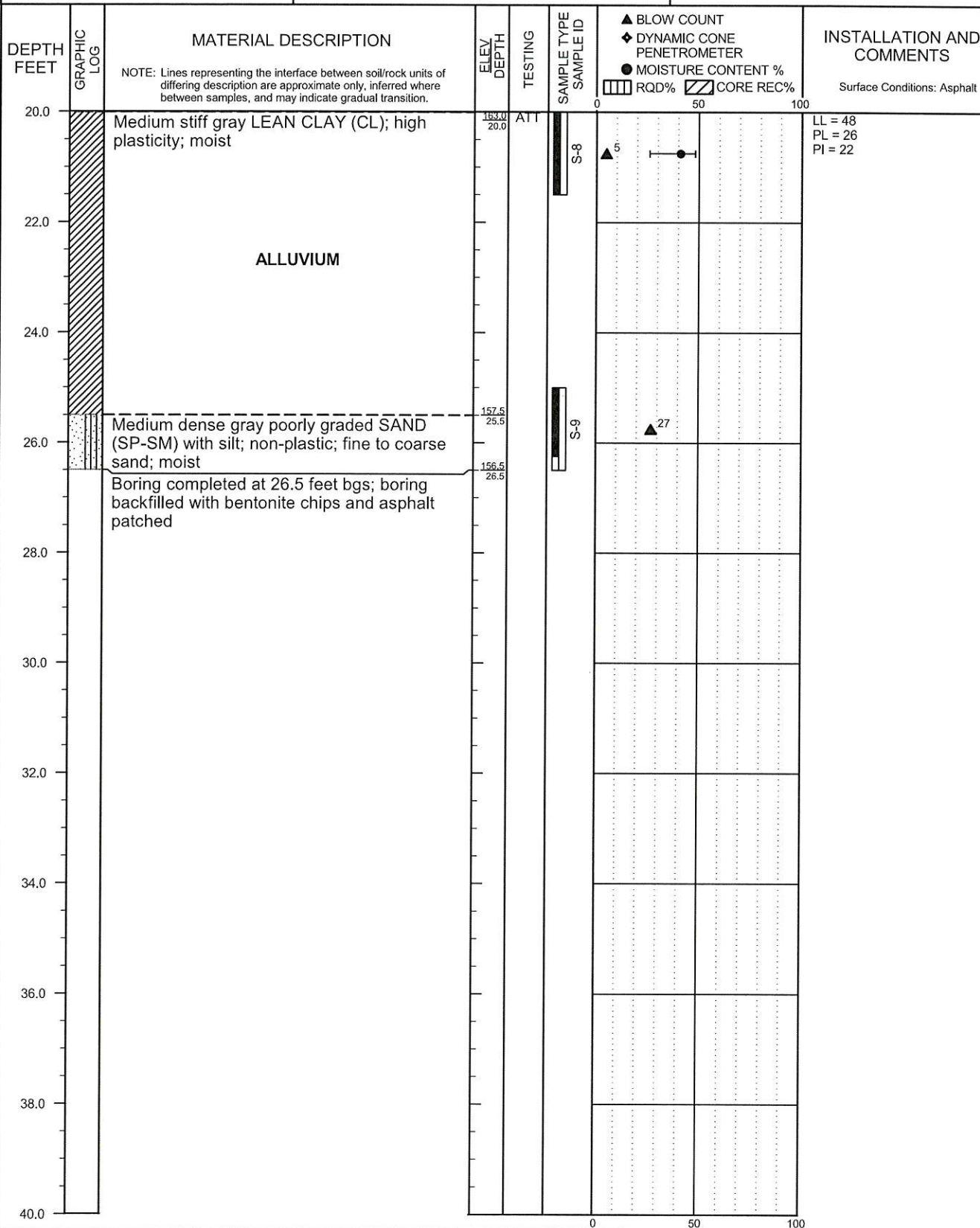
GEOTECHNICAL REPORT – BORING LOGS



BORING LOG W/ ELEV. 73137.007 B1TOB2.12323.GPJ PBS DATATMPL GEO.GDT PRINT DATE: 3/1/16:

DRILLING METHOD: Mud Rotary
 DRILLED BY: Hard Core Drilling
 LOGGED BY: T. Rikli

BIT DIAMETER: 4 7/8 inches
 HAMMER EFFICIENCY PERCENT: 72
 LOGGING COMPLETED: 12/23/15



BORING LOG W/ ELEV 73137.007 BITOB2 12323.GPJ PBS DATATMPL GEO.GDT PRINT DATE: 3/1/16



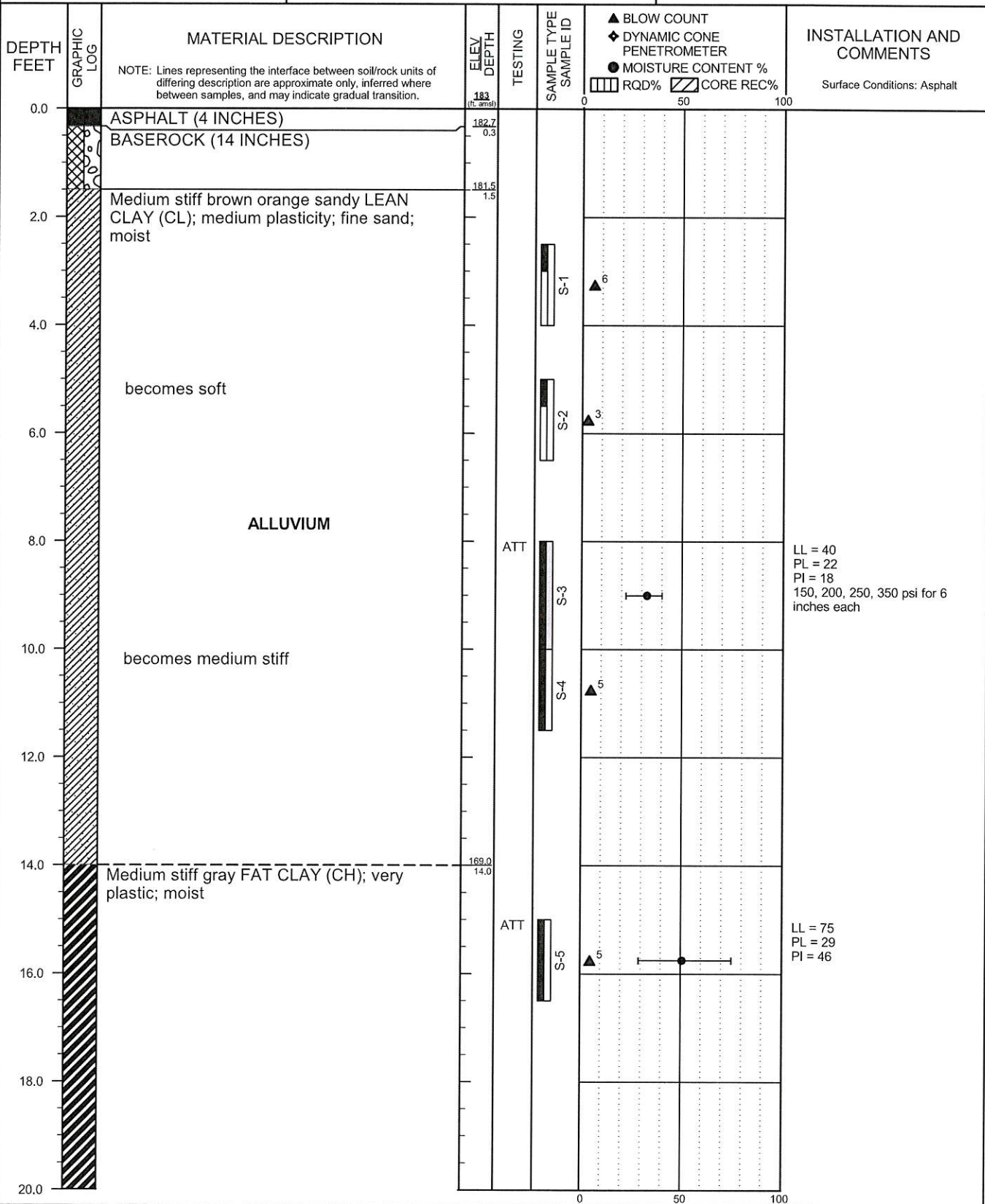
4412 SW Corbett Avenue
Portland, Oregon 97239
Phone: 503.248.1939
Fax: 866.727.0140

GRAF ROAD CULVERT REPLACEMENT
CENTRALIA, WASHINGTON

BORING B-2

PBS PROJECT NUMBER:
73137.007

APPROX. BORING B-2 LOCATION:
46.70637, -122.99663

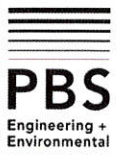


BORING LOG W/ ELEV. 73137.007 BITOB2 12323.GPJ PBS DATATMPL GEO.GDT PRINT DATE: 3/1/16

DRILLING METHOD: Mud Rotary
DRILLED BY: Hard Core Drilling
LOGGED BY: T. Rikli

BIT DIAMETER: 4 7/8 inches
HAMMER EFFICIENCY PERCENT: 72
LOGGING COMPLETED: 12/23/15

FIGURE A2
Page 1 of 2



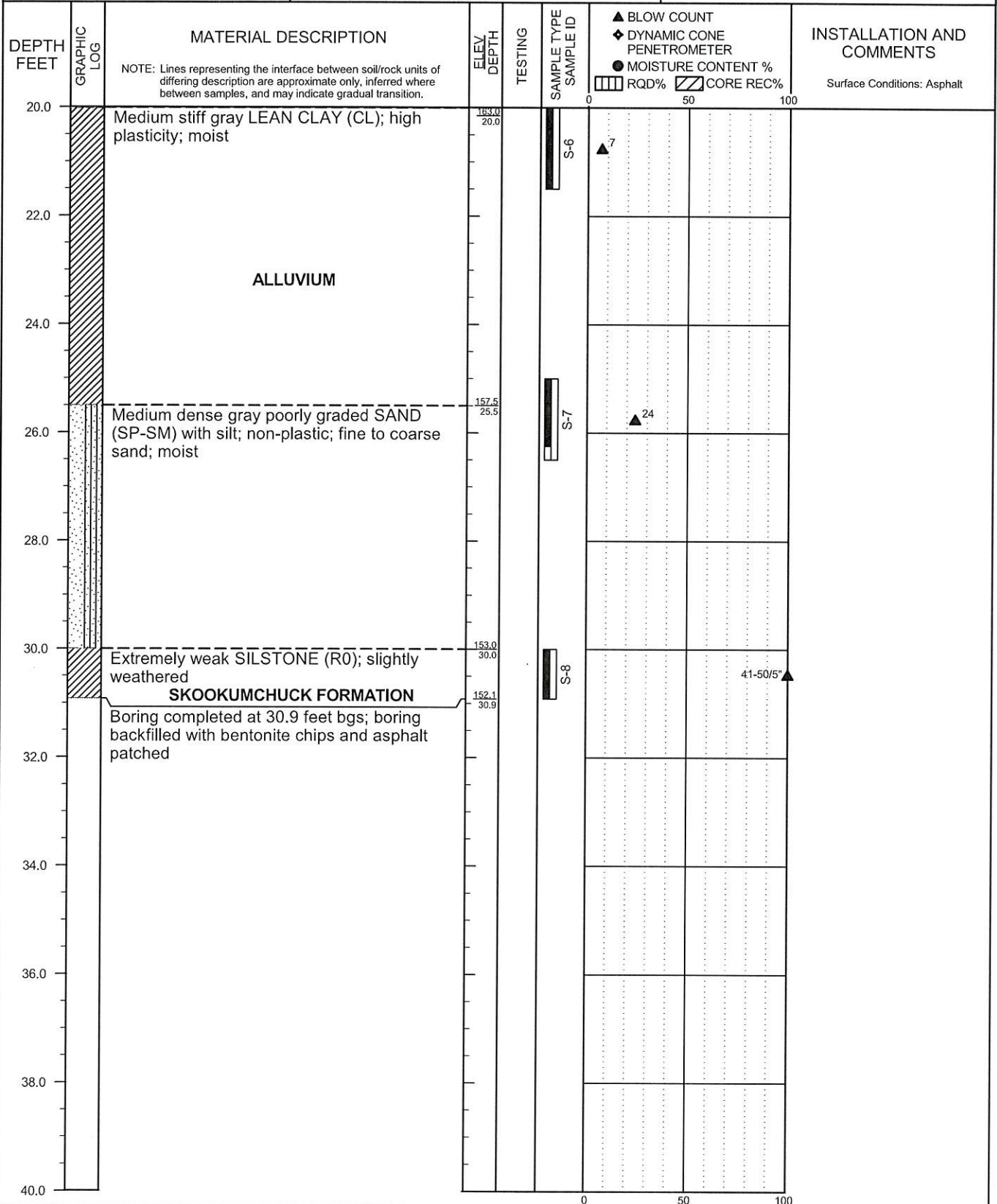
4412 SW Corbett Avenue
 Portland, Oregon 97239
 Phone: 503.248.1939
 Fax: 866.727.0140

GRAF ROAD CULVERT REPLACEMENT
 CENTRALIA, WASHINGTON

BORING B-2
 (continued)

PBS PROJECT NUMBER:
 73137.007

APPROX. BORING B-2 LOCATION:
 46.70637, -122.99663



BORING LOG W/ ELEV. 73137.007 B1TOB2 12323.GPJ PBS DATATMPL GEO.GDT PRINT DATE: 3/1/16

DRILLING METHOD: Mud Rotary
 DRILLED BY: Hard Core Drilling
 LOGGED BY: T. Rikli

BIT DIAMETER: 4 7/8 inches
 HAMMER EFFICIENCY PERCENT: 72
 LOGGING COMPLETED: 12/23/15

APPENDIX B

WASHINGTON STATE PREVAILING WAGE RATES

INCLUDING:

State Wage Rates

Wage Rate Supplements

Wage Rate Benefit Codes

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: 1/8/2018

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Lewis	Asbestos Abatement Workers	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
Lewis	Boilermakers	Journey Level	\$64.54	<u>5N</u>	<u>1C</u>	
Lewis	Brick Mason	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
Lewis	Brick Mason	Pointer-Caulker-Cleaner	\$55.82	<u>5A</u>	<u>1M</u>	
Lewis	Building Service Employees	Janitor	\$11.50		<u>1</u>	
Lewis	Building Service Employees	Shampooer	\$11.50		<u>1</u>	
Lewis	Building Service Employees	Waxer	\$11.50		<u>1</u>	
Lewis	Building Service Employees	Window Cleaner	\$13.22		<u>1</u>	
Lewis	Cabinet Makers (In Shop)	Journey Level	\$23.17		<u>1</u>	
Lewis	Carpenters	Acoustical Worker	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Bridge, Dock And Wharf Carpenters	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Carpenter	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Carpenters on Stationary Tools	\$57.31	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Creosoted Material	\$57.28	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Floor Finisher	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Floor Layer	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Carpenters	Scaffold Erector	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Cement Masons	Journey Level	\$57.21	<u>7A</u>	<u>1M</u>	
Lewis	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$110.54	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Dive Supervisor/Master	\$72.97	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Diver	\$110.54	<u>5D</u>	<u>4C</u>	<u>8V</u>
Lewis	Divers & Tenders	Diver On Standby	\$67.97	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Diver Tender	\$61.65	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Manifold Operator	\$61.65	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Manifold Operator Mixed Gas	\$66.65	<u>5D</u>	<u>4C</u>	
Lewis	Divers & Tenders	Remote Operated Vehicle	\$61.65	<u>5D</u>	<u>4C</u>	

		Operator/Technician			
Lewis	Divers & Tenders	Remote Operated Vehicle Tender	\$57.43	<u>5A</u>	<u>4C</u>
Lewis	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>
Lewis	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>
Lewis	Drywall Applicator	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>
Lewis	Drywall Tapers	Journey Level	\$23.26		<u>1</u>
Lewis	Electrical Fixture Maintenance Workers	Journey Level	\$11.50		<u>1</u>
Lewis	Electricians - Inside	Cable Splicer	\$66.64	<u>5C</u>	<u>1G</u>
Lewis	Electricians - Inside	Journey Level	\$62.74	<u>5C</u>	<u>1G</u>
Lewis	Electricians - Inside	Lead Covered Cable Splicer	\$70.53	<u>5C</u>	<u>1G</u>
Lewis	Electricians - Inside	Welder	\$66.64	<u>5C</u>	<u>1G</u>
Lewis	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>
Lewis	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>
Lewis	Electricians - Powerline Construction	Cable Splicer	\$73.93	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Certified Line Welder	\$67.60	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Groundperson	\$45.49	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$67.60	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Journey Level Lineperson	\$67.60	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Line Equipment Operator	\$57.02	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Pole Sprayer	\$67.60	<u>5A</u>	<u>4D</u>
Lewis	Electricians - Powerline Construction	Powderperson	\$50.76	<u>5A</u>	<u>4D</u>
Lewis	Electronic Technicians	Journey Level	\$28.46		<u>1</u>
Lewis	Elevator Constructors	Mechanic	\$88.36	<u>7D</u>	<u>4A</u>
Lewis	Elevator Constructors	Mechanic In Charge	\$95.41	<u>7D</u>	<u>4A</u>
Lewis	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>
Lewis	Fence Erectors	Fence Erector	\$13.80		<u>1</u>
Lewis	Fence Erectors	Fence Laborer	\$11.60		<u>1</u>
Lewis	Flaggers	Journey Level	\$39.48	<u>7A</u>	<u>3I</u>
Lewis	Glaziers	Journey Level	\$23.50		<u>1</u>
Lewis	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$67.93	<u>5J</u>	<u>4H</u>
Lewis	Heating Equipment Mechanics	Journey Level	\$78.17	<u>7F</u>	<u>1E</u>
Lewis	Hod Carriers & Mason Tenders	Journey Level	\$48.02	<u>7A</u>	<u>3I</u>

Lewis	Industrial Power Vacuum Cleaner	Journey Level	\$11.50		1	
Lewis	Inland Boatmen	Boat Operator	\$59.86	<u>5B</u>	<u>1K</u>	
Lewis	Inland Boatmen	Cook	\$56.18	<u>5B</u>	<u>1K</u>	
Lewis	Inland Boatmen	Deckhand	\$56.18	<u>5B</u>	<u>1K</u>	
Lewis	Inland Boatmen	Deckhand Engineer	\$57.26	<u>5B</u>	<u>1K</u>	
Lewis	Inland Boatmen	Launch Operator	\$58.59	<u>5B</u>	<u>1K</u>	
Lewis	Inland Boatmen	Mate	\$58.59	<u>5B</u>	<u>1K</u>	
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$11.50		1	
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$11.50		1	
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		1	
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$11.50		1	
Lewis	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$11.50		1	
Lewis	Insulation Applicators	Journey Level	\$57.18	<u>5D</u>	<u>4C</u>	
Lewis	Ironworkers	Journeyman	\$66.68	<u>7N</u>	<u>10</u>	
Lewis	Laborers	Air, Gas Or Electric Vibrating Screed	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Airtrac Drill Operator	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Ballast Regular Machine	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Batch Weighman	\$39.48	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Brick Pavers	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Brush Cutter	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Brush Hog Feeder	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Burner	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Caisson Worker	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Carpenter Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Caulker	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Cement Dumper-paving	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Cement Finisher Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Change House Or Dry Shack	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Chipping Gun (under 30 Lbs.)	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Chipping Gun(30 Lbs. And Over)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Choker Setter	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Chuck Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Clary Power Spreader	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Clean-up Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Concrete Dumper/chute Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Concrete Form Stripper	\$46.57	<u>7A</u>	<u>3I</u>	

Lewis	Laborers	Concrete Placement Crew	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Concrete Saw Operator/core Driller	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Crusher Feeder	\$39.48	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Curing Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Ditch Digger	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Diver	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Drill Operator (hydraulic,diamond)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Dry Stack Walls	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Dump Person	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Epoxy Technician	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Erosion Control Worker	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Faller & Bucker Chain Saw	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Fine Graders	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Firewatch	\$39.48	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Form Setter	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Gabian Basket Builders	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	General Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Grade Checker & Transit Person	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Grinders	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Grout Machine Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Groutmen (pressure)including Post Tension Beams	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Guardrail Erector	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Hazardous Waste Worker (level A)	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Hazardous Waste Worker (level B)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Hazardous Waste Worker (level C)	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	High Scaler	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Jackhammer	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Laserbeam Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Maintenance Person	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Manhole Builder-mudman	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Material Yard Person	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Motorman-dinky Locomotive	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pavement Breaker	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pilot Car	\$39.48	<u>7A</u>	<u>3I</u>	

Lewis	Laborers	Pipe Layer Lead	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pipe Layer/tailor	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pipe Pot Tender	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pipe Reliner	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pipe Wrapper	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Pot Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Powderman	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Powderman's Helper	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Power Jacks	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Railroad Spike Puller - Power	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Raker - Asphalt	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Re-timberman	\$48.02	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Remote Equipment Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Rigger/signal Person	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Rip Rap Person	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Rivet Buster	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Rodder	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Scaffold Erector	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Scale Person	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Sloper (over 20")	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Sloper Sprayer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Spreader (concrete)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Stake Hopper	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Stock Piler	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Tamper (multiple & Self-propelled)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Toolroom Person (at Jobsite)	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Topper	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Track Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Track Liner (power)	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Traffic Control Laborer	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
Lewis	Laborers	Traffic Control Supervisor	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
Lewis	Laborers	Truck Spotter	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Tugger Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$92.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$97.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$101.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$107.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$109.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>

Lewis	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$114.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$116.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$118.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$120.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Guage and Lock Tender	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Tunnel Work-Miner	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Lewis	Laborers	Vibrator	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Vinyl Seamer	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Watchman	\$35.88	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Welder	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Well Point Laborer	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Laborers	Window Washer/cleaner	\$35.88	<u>7A</u>	<u>3I</u>	
Lewis	Laborers - Underground Sewer & Water	General Laborer & Topman	\$46.57	<u>7A</u>	<u>3I</u>	
Lewis	Laborers - Underground Sewer & Water	Pipe Layer	\$47.44	<u>7A</u>	<u>3I</u>	
Lewis	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	\$11.50		<u>1</u>	
Lewis	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	\$11.50		<u>1</u>	
Lewis	Landscape Construction	Landscaping Or Planting Laborers	\$11.50		<u>1</u>	
Lewis	Lathers	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
Lewis	Marble Setters	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
Lewis	Metal Fabrication (In Shop)	Fitter	\$15.16		<u>1</u>	
Lewis	Metal Fabrication (In Shop)	Laborer	\$11.50		<u>1</u>	
Lewis	Metal Fabrication (In Shop)	Machine Operator	\$11.50		<u>1</u>	
Lewis	Metal Fabrication (In Shop)	Painter	\$11.50		<u>1</u>	
Lewis	Metal Fabrication (In Shop)	Welder	\$15.16		<u>1</u>	
Lewis	Millwright	Journey Level	\$58.68	<u>5D</u>	<u>4C</u>	
Lewis	Modular Buildings	Cabinet Assembly	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Electrician	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Equipment Maintenance	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Plumber	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Production Worker	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Tool Maintenance	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Utility Person	\$11.50		<u>1</u>	
Lewis	Modular Buildings	Welder	\$11.50		<u>1</u>	
Lewis	Painters	Journey Level	\$41.60	<u>6Z</u>	<u>2B</u>	
Lewis	Pile Driver	Crew Tender	\$52.37	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$71.35	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01	\$76.35	<u>5D</u>	<u>4C</u>	

		- 44.00 PSI				
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$80.35	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$85.35	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$87.85	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$92.85	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$94.85	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$96.85	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$98.85	<u>5D</u>	<u>4C</u>	
Lewis	Pile Driver	Journey Level	\$57.43	<u>5D</u>	<u>4C</u>	
Lewis	Plasterers	Journey Level	\$54.89	<u>7Q</u>	<u>1R</u>	
Lewis	Playground & Park Equipment Installers	Journey Level	\$11.50		<u>1</u>	
Lewis	Plumbers & Pipefitters	Journey Level	\$67.47	<u>5A</u>	<u>1G</u>	
Lewis	Power Equipment Operators	Asphalt Plant Operator	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Assistant Engineers	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Batch Plant Operator: Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Concrete Finish Machine - laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Lewis	Power Equipment Operators	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: 200 tons to 299 tons, or 250' of boom (including jib with attachments)	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: 300 tons and over, or 300' of boom (including jib with attachments)	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: Friction 200 tons and over. Tower Cranes: over 250' in height from base to boom.	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets, etc.	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Guardrail punch/Auger	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Horizontal/directional Drill	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Locator				
Lewis	Power Equipment Operators	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Mechanics, All (Leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Motor patrol graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Quad 9, HD 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Lewis	Power Equipment Operators	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Tower crane over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Tower Crane Up: To 175' In Height, Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operator	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Lewis	Power Equipment Operators-Underground Sewer & Water	Assistant Engineers	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator: Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine - laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes, 100 Tons - 199 Tons, Or 150 Ft Of Boom (including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes, 200 tons to 299 tons, or 250' of boom (including jib with attachments)	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes, Over 300 Tons, Or 300' Of Boom Including Jib With Attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	cranes: 300 tons and over, or 300' of boom (including jib with attachments)	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-	Cranes: Friction 200 tons and	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>

	Underground Sewer & Water	over. Tower Cranes: over 250' in height from base to boom.				
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Guardrail punch/Auger	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-	Loaders, Overhead Under 6	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

	Underground Sewer & Water	Yards				
Lewis	Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Mechanics, All (Leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Motor patrol graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Quad 9, HD 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

	Underground Sewer & Water					
Lewis	Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower crane over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Tower Crane: Up To 175' In Height, Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Lewis	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Lewis	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$48.54	<u>5A</u>	<u>4A</u>	
Lewis	Power Line Clearance Tree Trimmers	Spray Person	\$46.03	<u>5A</u>	<u>4A</u>	
Lewis	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$48.54	<u>5A</u>	<u>4A</u>	
Lewis	Power Line Clearance Tree Trimmers	Tree Trimmer	\$43.32	<u>5A</u>	<u>4A</u>	
Lewis	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$32.68	<u>5A</u>	<u>4A</u>	
Lewis	Refrigeration & Air Conditioning Mechanics	Journey Level	\$23.96		<u>1</u>	
Lewis	Residential Brick Mason	Journey Level	\$17.00		<u>1</u>	
Lewis	Residential Carpenters	Journey Level	\$21.90		<u>1</u>	
Lewis	Residential Cement Masons	Journey Level	\$13.00		<u>1</u>	
Lewis	Residential Drywall Applicators	Journey Level	\$31.73		<u>1</u>	
Lewis	Residential Drywall Tapers	Journey Level	\$18.95		<u>1</u>	
Lewis	Residential Electricians	Journey Level	\$31.28	<u>5A</u>	<u>1B</u>	
Lewis	Residential Glaziers	Journey Level	\$19.66		<u>1</u>	
Lewis	Residential Insulation Applicators	Journey Level	\$15.00		<u>1</u>	
Lewis	Residential Laborers	Journey Level	\$20.32		<u>1</u>	
Lewis	Residential Marble Setters	Journey Level	\$17.00		<u>1</u>	
Lewis	Residential Painters	Journey Level	\$16.50		<u>1</u>	
Lewis	Residential Plumbers & Pipefitters	Journey Level	\$20.40		<u>1</u>	
Lewis	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$24.88		<u>1</u>	
Lewis	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$29.28		<u>1</u>	
Lewis	Residential Soft Floor Layers	Journey Level	\$11.50		<u>1</u>	
Lewis	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$15.70		<u>1</u>	
Lewis	Residential Stone Masons	Journey Level	\$17.00		<u>1</u>	
Lewis	Residential Terrazzo Workers	Journey Level	\$11.50		<u>1</u>	
Lewis	Residential Terrazzo/Tile Finishers	Journey Level	\$11.50		<u>1</u>	
Lewis	Residential Tile Setters	Journey Level	\$11.50		<u>1</u>	
Lewis	Roofers	Journey Level	\$49.27	<u>5A</u>	<u>3H</u>	
Lewis	Roofers	Using Irritable Bituminous Materials	\$52.27	<u>5A</u>	<u>3H</u>	
Lewis	Sheet Metal Workers	Journey Level (Field or Shop)	\$78.17	<u>7F</u>	<u>1E</u>	

Lewis	Sign Makers & Installers (Electrical)	Journey Level	\$18.04		1	
Lewis	Sign Makers & Installers (Non-Electrical)	Journey Level	\$46.57	7A	3I	
Lewis	Soft Floor Layers	Journey Level	\$22.87		1	
Lewis	Solar Controls For Windows	Journey Level	\$11.50		1	
Lewis	Sprinkler Fitters (Fire Protection)	Journey Level	\$56.81	7J	1R	
Lewis	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		1	
Lewis	Stone Masons	Journey Level	\$55.82	5A	1M	
Lewis	Street And Parking Lot Sweeper Workers	Journey Level	\$16.00		1	
Lewis	Surveyors	All Classifications	\$57.18	5D	4C	
Lewis	Surveyors	Construction Site Surveyor	\$57.18	5D	4C	
Lewis	Telecommunication Technicians	Journey Level	\$31.72		1	
Lewis	Telephone Line Construction - Outside	Cable Splicer	\$38.84	5A	2B	
Lewis	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$21.45	5A	2B	
Lewis	Telephone Line Construction - Outside	Installer (Repairer)	\$37.21	5A	2B	
Lewis	Telephone Line Construction - Outside	Special Aparatus Installer I	\$38.84	5A	2B	
Lewis	Telephone Line Construction - Outside	Special Apparatus Installer II	\$38.03	5A	2B	
Lewis	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$38.84	5A	2B	
Lewis	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$36.09	5A	2B	
Lewis	Telephone Line Construction - Outside	Telephone Lineperson	\$36.09	5A	2B	
Lewis	Telephone Line Construction - Outside	Television Groundperson	\$20.33	5A	2B	
Lewis	Telephone Line Construction - Outside	Television Lineperson/Installer	\$27.21	5A	2B	
Lewis	Telephone Line Construction - Outside	Television System Technician	\$32.55	5A	2B	
Lewis	Telephone Line Construction - Outside	Television Technician	\$29.18	5A	2B	
Lewis	Telephone Line Construction - Outside	Tree Trimmer	\$36.09	5A	2B	
Lewis	Terrazzo Workers	Journey Level	\$51.36	5A	1M	
Lewis	Tile Setters	Journey Level	\$21.65		1	
Lewis	Tile, Marble & Terrazzo Finishers	Finisher	\$42.19	5A	1B	
Lewis	Traffic Control Stripers	Journey Level	\$44.93	7A	1K	
Lewis	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	5D	3A	8L
Lewis	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	5D	3A	8L

Lewis	Truck Drivers	Dump Truck	\$21.08		<u>1</u>	
Lewis	Truck Drivers	Dump Truck And Trailer	\$21.08		<u>1</u>	
Lewis	Truck Drivers	Other Trucks	\$32.52		<u>1</u>	
Lewis	Truck Drivers	Transit Mixer	\$29.67	<u>6l</u>	<u>2H</u>	
Lewis	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$18.18		<u>1</u>	
Lewis	Well Drillers & Irrigation Pump Installers	Oiler	\$11.50		<u>1</u>	
Lewis	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.00		<u>1</u>	

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

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.

- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

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).

Holiday Codes Continued

5. D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-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).

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Holiday Codes Continued

6. 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).
- 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.

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

Holiday Codes Continued

7. I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

Holiday Codes Continued

- 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. 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.

Note Codes Continued

8. 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.

V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.

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 X Vaults.		X
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

**Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)**

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

APPENDIX C

**U.S. DEPT. OF TRANSPORTATION – FEDERAL HIGHWAY ADMINISTRATION
“GEOSYNTHETIC REINFORCED SOIL INTEGRATED BRIDGE SYSTEM INTERIM
IMPLEMENTATION GUIDE” CHAPTER 7 -- CONSTRUCTION**

CHAPTER 7. CONSTRUCTION

7.1 INTRODUCTION

GRS construction uses basic earthwork methods, primarily for excavation and compaction, along with sound general construction practices. The materials are readily available, which is a benefit of the generic nature of the system. This chapter provides guidance on most field-related scenarios. All methods that are presented have been field-tested and applied during the construction of GRS-IBS. The techniques outlined can be applied to efficiently construct the layered system and have been proven to quickly construct the GRS-IBS. The contractor will ultimately choose the methods most efficient for the site, the crew, and the equipment on hand.

The guidance outlined here applies to GRS structures, specifically abutments built with CMU blocks. This guidance can also be adapted to other GRS structures built with different facing systems.

GRS construction has two principal components: (1) logistics and (2) aspects associated with actual construction. Logistics occur after the final design and before construction, outlining a plan for implementation and control of the construction process. Even though building a GRS abutment is as simple as a row of facing block, a layer of well-compacted granular fill, and a sheet of reinforcement, the process will be hampered without adequate planning to ensure optimum flow and placement of material during the course of the project.

As a result, the single-sheet plan was devised to provide information on the reinforcement schedule and the facing block schedule. The single-sheet plan also contains information on the limits of excavation and details about assembly of the GRS structure. A second sheet may be necessary to detail quantities and construction notes.

This chapter conveys the importance of the following details as a means to rapid GRS construction:

- Careful attention to the first row of blocks. Since all other courses of block are built off the first row, it is essential to ensure that the bottom row is level and even for fast construction.
- Optimization of crew size and equipment for enhanced productivity. Too many laborers or excess onsite equipment can cause confusion and slow down the construction process.
- Allowing time for a labor crew to adjust to the construction of the GRS-IBS. Having each crew member do their part in one of three basic steps of GRS construction (laying a course of facing block, compacting a layer of granular backfill, and placing a layer of reinforcement) dramatically improves productivity.
- Establishing the central position of the excavator. Typically, it is best to limit movement of the excavator by locating it toward the back of the abutment, where it can both reach and place material without moving.

- Broom to sweep top of blocks.
- Wisk broom.
- 2- to 3-lb sledgehammer and wood two-by-fours to align blocks.
- Heavy rubber mallet.
- Spade trowel.
- Razor knives or utility knives to cut reinforcement.
- Hand tamper with metal base plate.
- Chainsaw to cut reinforcement roll.
- Concrete saw.
- 5-gallon bucket.
- Block lifter.
- Standard concrete mixing and finishing tools.

Typical measuring devices include the following:

- Survey equipment.
- Laser level.
- String line to align blocks.
- 4-ft carpenter's level.
- Plum bob to check wall batter.
- Measuring tapes.
- Chalk line.

Typical heavy equipment includes the following:

- Walk-behind vibratory plate tampers (200 lb and 18 inches wide or larger).
- Track hoe excavator.
- Riding smooth drum vibratory roller (compacting 3.28 ft from wall face).

by heavy equipment and the reach limits of the excavator. Figure 41 shows a typical cut slope in stiff clay. The excavation should include provisions for drainage with a sloped cut to facilitate the movement of water. Any open excavations that form a pit should be backfilled with crushed aggregate and compacted. Excavation also includes the clearing and grubbing of vegetation. In situations where the retained fill is stable, the volume of excavation can be limited to reduce the size of the GRS mass. In the case of an abutment application, this would form a horseshoe shaped excavation, as shown in figure 40 and figure 42.



Figure 42. Photo. Horseshoe-shaped excavation with native soil still intact in middle.

7.3.3 Placement of Abutment Behind Existing Substructure

In some situations, it may be beneficial to build GRS-IBS behind an existing substructure. Project feasibility, environmental considerations, and other factors need to be assessed before selecting this type of project layout. Building the bridge behind an existing substructure often requires the removal of the top part of the abutment walls to provide additional space for the width of the new GRS-IBS. Figure 43 through figure 45 illustrate this technique. Note that the design of the GRS-IBS will be the same whether it is built behind an existing abutment or not.



Figure 45. Photo. Building the RSF behind an existing abutment.

7.4 RSF

The depth and footprint of the excavation for the RSF should be based on external stability, as described in chapter 4. The base of the RSF should be cut smooth. It should be excavated to uniform depth, and all loose, unstable material should be removed from the site (see figure 46). If the base of the excavation is left open, it should be graded to one end to facilitate the removal of any intrusion of water with a pump. If flooded, all water should be removed along with soft, saturated soils. The excavation should be backfilled as soon as possible to provide a suitable foundation and avoid adverse weather delays. The construction of the RSF can typically be completed in less than one day but is dependent on the size and depth of excavation, type of materials, equipment, and experience.



Figure 46. Photo. RSF excavation below stream level.

Typical reinforcement spacing in the RSF is 12 inches. The reinforcement should be pulled taught to remove all wrinkles prior to placing and compacting the structural backfill. Fill should be placed from the face to the back to roll folds or wrinkles to the free end of the reinforcement layer.

The RSF should be constructed with structural fill, as specified in chapter 3. The structural fill is to be compacted in accordance with section 7.5 in compacted lifts not to exceed 6 inches (with two compacted lifts per each 12-inch layer). The first course of wall block sits directly on the RSF, as shown in figure 49, so it is important that the fill material is graded and level before encapsulating the RSF.



Figure 49. Photo. Placement of wall block on wrapped RSF.

While the base of a typical GRS abutment is built with solid CMU, damage can occur during the placement of channel rock protection or from other large pieces of concrete rubble that extend above the solid block zone. Riprap protection should be placed in a manner to prevent damage to the CMU wall face. Impact of large rock or concrete fragments during placement can crack the CMU block. Larger rocks should be uniformly distributed and placed firmly in contact with each other, with smaller rocks and fragments filling the voids between the larger rocks. This procedure often requires hand placement of smaller rocks to fill the voids. If any CMU block is damaged, refer to chapter 8 for repair procedures.

7.5 COMPACTION

Compaction of the backfill should be to at least 95 percent of maximum dry density according to AASHTO T-99. Backfill material containing fines should be compacted at a moisture content close to optimum (± 2 percent). Lifts of 8 inches should be compacted using vibratory roller compaction equipment. The facing blocks provide a form for each lift of fill. Other stiffness-based compaction control methods can be used. For open-graded fills, compact to non-movement or no appreciable displacement and assess with visual inspection.

should cover a minimum of 85 percent of the top surface of the CMU block; any excess can be removed by either burning with a propane torch or cutting with a razor knife.

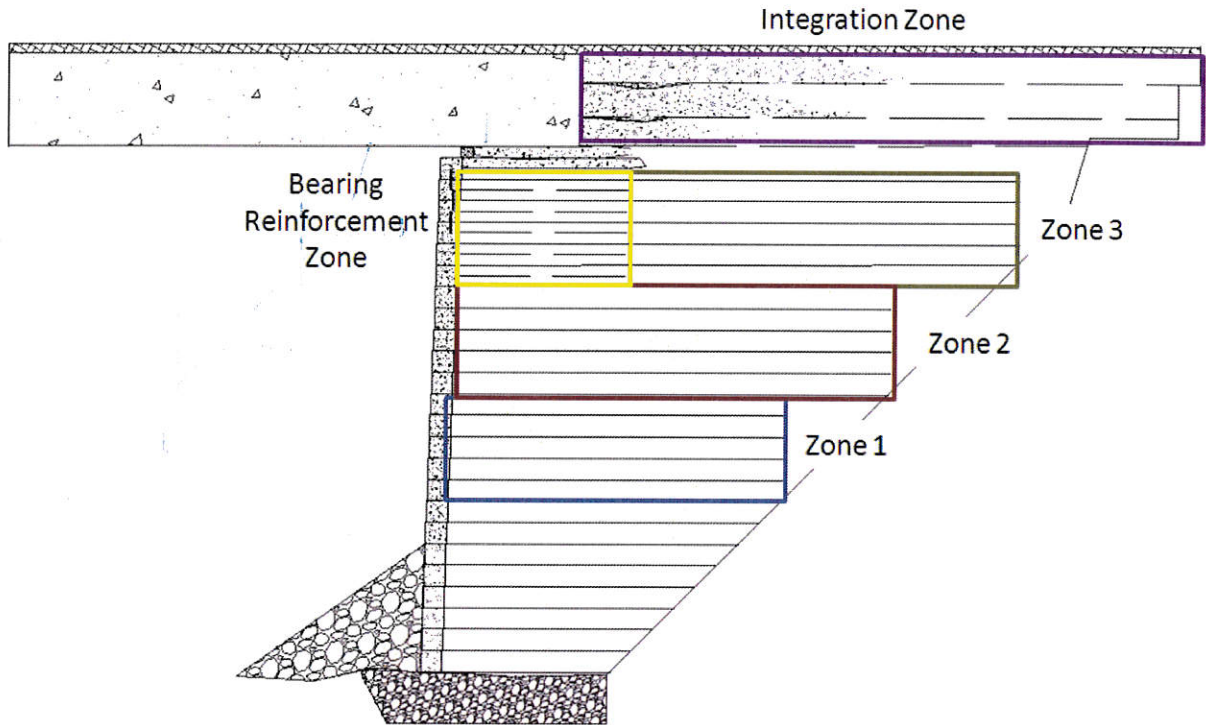


Figure 50. Illustration. Typical reinforcement zones.



Figure 51. Reinforcement rolled out parallel to wall face.

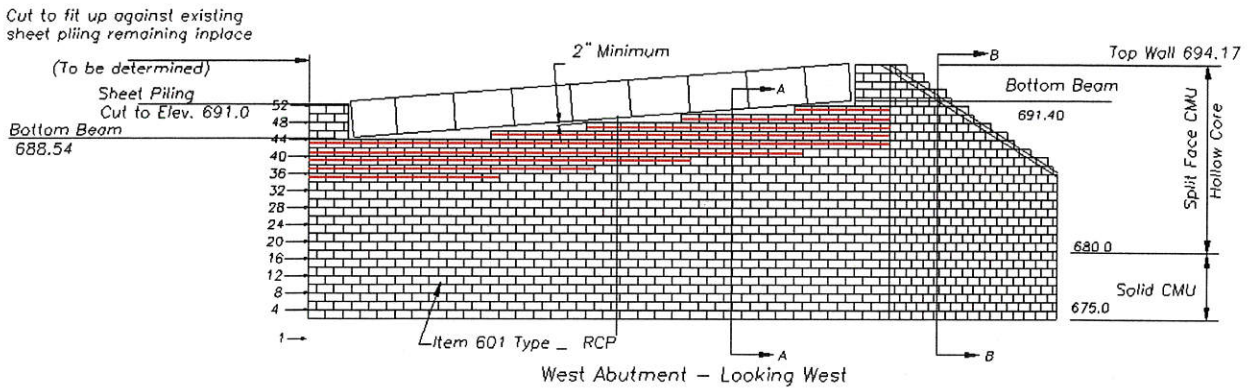


Figure 52. Illustration. Superelevation reinforcement schedule.

7.6.3 Superelevation

The reinforcement layers become stair-stepped in the upper wall layers as the superelevation of the abutment is constructed (see figure 53). The reinforcement terminates along the angle surface of the superelevation. The GRS wall reinforcement schedule should show the termination of each layer of reinforcement across the abutment wall from low to high elevation (see figure 52).



Figure 53. Photo. Superelevation reinforcement layers.

7.7 WALL FACE

This manual focuses on the use of CMU for the wall facing; however since GRS is internally stable, any facing elements can be used in construction. For flexible facings other than the recommended CMU block (including wrapped, timber, natural rock, or welded wire basket formed facing), other construction guidelines may need to be followed. These are outlined by Wu et al.⁽²²⁾ The design guidelines for GRS-IBS, however, remain the same as those in this manual.



Figure 54. Photo. Checking block alignment with string line reference from back of block.

If CMU blocks become displaced during construction, they can often be hammered back into position using a 3-lb sledgehammer and a block of wood as protection. If the CMU block is excessively out of alignment, the fill material needs to be excavated, the CMU block repositioned, and the fill material replaced and recompact.

7.7.4 Block Alignment for Battered Walls

Block alignment for battered walls is similar to that for vertical walls. In abutment situations where the face wall turns to form the wing wall, however, it is necessary to trim blocks on either end to account for the reduced wall length. All cuts should be performed to maintain the standard running or stretcher bond between the rows of dry-stacked blocks, with the vertical joints of each course midway between those of adjoining courses.

In special situations, negative battered walls have been constructed when the top area needs to be greater than the bottom, as in the case of road widening shown in figure 55. The negative batter can be created by offsetting the CMU block by a measured amount in consecutive wall layers then filling and compacting as specified.

7.7.6 Wall Corners

Right-angle wall corners, as shown in figure 57, are constructed with CMU corner blocks that have architectural detail on two sides, providing an aesthetic finish. Facing wall and wing wall courses should be staggered to form a tight, interlocking, stable corner.



Figure 57. Photo. Right-angle wall corner.

Walls with angles larger or smaller than 90 degrees require additional effort. The corner blocks need to be cut to form the angled face. As a result, a vertical seam or joint is formed at the corner (see figure 58). Corners with vertical seams may have open block joints, making it prudent to fill the corner blocks with a concrete mix and install bent rebar to close and connect the seam at each course of block, as shown in figure 59. This procedure secures the two faces and prevents compaction-induced separation during construction of subsequent GRS layers. It may also be used wherever added strength at the wall corner is desired.



Figure 58. Photo. Vertical seam in wing wall.

The concrete wall fill is placed in two steps. After the block void is filled with concrete to the top of the block and the steel rebar is inserted, a thin layer of the same concrete mix is placed on top of the block to form the coping cap, as shown in figure 61 and figure 62. The coping is then hand-troweled either square or round and sloped to drain. A wet-cast cap is more durable than a dry-cast cap and eliminates the need to furnish and install a separate cap unit.



Figure 61. Photo. Rounded coping cap.



Figure 62. Photo. Square coping cap.

Once the top of wall has been grouted and pinned, care should be taken to avoid any construction activity that may pull on the top layer of reinforcement. The frictional connection between the block is strong, and when courses are pinned together, the entire grouted wall face can be pulled out of alignment.

7.8 BEAM SEAT

The beam seat is constructed directly above the bearing bed reinforcement zone. The superstructure is then positioned on top of the beam seat, as shown in figure 63 and figure 64. The purpose of the beam seat is to ensure that the superstructure bears on the GRS abutment and not the wall facing block and to provide the necessary clear space between the superstructure and the wall face. Typically, the clear space is 3 inches, or 2 percent of the abutment height, depending on the required design (see chapter 4).

7.8.1 Beam Seat Procedure

Once the block elevation beneath the bearing area is established and the hollow cores are filled with grout, the beam seat is ready for construction. The following steps should be used:

1. Place precut 4-inch-thick foam board on the top of the bearing bed reinforcement. Sometimes, a thin layer of backfill may be necessary beneath the foam board for grading purposes and to ensure the proper clear space height and drainage (crown in bridge) (see figure 66). The foam board should butt against the back face of the CMU block. The exposed edge of the foam board helps form the nose of the reinforcement wrap across the length of the bearing area.



Figure 66. Photo. Foam board and 4-inch block assembly to form beam seat.

2. Set 4-inch solid concrete blocks on top of the foam board across the entire length of the bearing area (see figure 67). The back edge of the top CMU face block holds the 4-inch concrete block in place during compaction. Note that the distance between the top of the grouted CMU block and the top of the beam seat (the clear space) is the distance the beams can settle before bearing on the facing blocks.



Figure 67. Photo. 4-inch concrete block on top of foam board against top CMU face block.

7.8.3 Aluminum Flashing

The aluminum flashing drip edge is installed prior to setting the bridge beams and is placed in between the bottom of the beams and the foam board. The flashing is held in place by the pressure of the beams on the compressible foam board (see figure 70). The length of the flashing should extend beyond the outside edge of the bridge beams and be trimmed to fit against the parapets.



Figure 70. Photo. Aluminum flashing (drip edge) between beams and top of CMU block.

7.8.4 CIP or Precast Footing

For GRS-IBS built without adjacent concrete beams, a CIP or precast footing may be necessary, as with steel beams or spread girders (see figure 71).



Figure 71. Photo. Steel girder on CIP footing.

7.9 PLACEMENT OF SUPERSTRUCTURE

Prepare the beam seat as described in section 7.8.1. The grade of the beam seat will control the final elevation of the bridge.

could create the potential for an uneven bearing area or a void under the beam, producing uneven bearing stresses between bridge elements.

7.9.4 Wing Walls and Parapets

Wing walls and parapets are constructed after the superstructure is set. The CMU block in the parapet wall should be trimmed or saw cut for a custom fit against the beam edge to prevent the loss of fill material. Figure 74 and figure 75 show the construction of the parapet against the superstructure. If the gap between the superstructure and the facing block is difficult to fill using thin slices of cut block, a mortar mix should be used to close the space.



Figure 74. Photo. Parapet and wing wall construction, view 1.



Figure 75. Photo. Parapet and wing wall construction, view 2.

7.10 APPROACH INTEGRATION

Proper approach construction at the road and superstructure interface is essential to minimizing settlement in front of the bridge beams and eliminating the bump at the end of the bridge. This is accomplished by compacting and reinforcing the approach fill in wrapped geotextile layers and blending the integration zone with the approach road base course. The material for the integration zone should be well-graded, as outlined in chapter 3.



Figure 78. Photo. Secondary reinforcement sheet.



Figure 79. Photo. Completed wrapped approach layer.

3. Repeat these steps until approximately 2 inches from top of beam grade, as shown in figure 80.



Figure 80. Photo. Second 6-inch fill lift.

7.10.4 Guardrail Post

Steel H posts are recommended for any railing that is driven through the reinforcement. It is also possible to drill through the GRS mass with an auger to set other types of posts.

7.11 SITE DRAINAGE

The GRS-IBS construction area should be protected from surface runoff during the project. Critical areas are behind the abutment wall at the interface between the GRS abutment and the retained fill, at the base of the abutment, and at any location where a fill slope meets the wall face. Design needs to include provisions for surface drainage along the fill slope adjacent to the wing walls. Provisions for drainage should also be included at the boundary of the wing walls and the fill slope. Long walls built along variable elevation or abutment wing walls are often stepped to reduce excavation. In these situations, the termination of wall steps should be sufficiently embedded to prevent problems with erosion. The drainage swell or channel should be separated from the wall to avoid flow directly against the wall face.

Site preparation for drainage should include the following:

- **Grading:** The site should be graded every night in anticipation of precipitation to avoid saturation of soil.
- **Diversion trenches:** An alternative to grading is placing diversion trenches around the perimeter to divert water.
- **Compaction of loose soil:** Any loose soil placed to construct GRS should be graded and compacted before stoppage of work for the day. Also, onsite stockpiles of fill material containing fines should be protected from excess precipitation.

APPENDIX D

BID PROPOSAL DOCUMENTS

INCLUDING:

Notice to Contractor

Proposal Form

Non-Collusion Declaration

Proposal Signature Page

Certification of Compliance with Wage Payment Statutes



Lewis County Department of Public Works

Erik P. Martin, PE, Director

Tim Fife, PE, County Engineer

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that the Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 11:00 a.m. on **Tuesday, January 30, 2018**, at the Lewis County Courthouse in Chehalis, Washington for the Graf Road MP 1.01 Culvert Replacement Project, CMP 1531.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE 11:00 A.M. on Tuesday, January 30, 2018

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners.
Bids submitted after 11:00 AM will not be considered for this project.)

Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532), by or before **11:00 A.M.** on the date specified for opening, and in an envelope clearly marked: **"SEALED BID FOR GRAF ROAD MP 1.01 CULVERT REPLACEMENT, CMP 1531, TO BE OPENED ON OR AFTER 11:00 A.M. ON TUESDAY, JANUARY 30, 2018"**.

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

Informational copies of maps, plans and specifications are on file for inspection in the office of the County Engineer of Lewis County in Chehalis, Washington. The contract documents may be viewed and downloaded from Lewis County's Web Site @ www.lewiscountywa.gov or you may call the Lewis County Engineers office @ (360)740-2612 and request a copy be mailed to you. All Contractor questions and Lewis County clarifying answers will be posted on our website and emailed to all Contractors registered on Lewis County's Planholder List. Plan or specification changes shall be accomplished through official project addendums.

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

PROPOSAL

TO: BOARD OF COUNTY COMMISSIONERS
LEWIS COUNTY
CHEHALIS, WASHINGTON 98532

This certifies that the undersigned has examined the location of the GRAF ROAD MP 1.01 CULVERT REPLACEMENT PROJECT CMP-1531, in Lewis County, Washington, and that the plans, specifications and contract governing the work embraced in these improvements, 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 schedules 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	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
1	1 L.S.	MOBILIZATION		LUMP SUM	\$	
2	0.32 ACRE	CLEARING AND GRUBBING	\$		\$	
3	1 L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS		LUMP SUM	\$	
4	105 C.Y.	ROADWAY EXCAVATION INCL. HAUL	\$		\$	
5	3,650 C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL	\$		\$	
6	1 L.S.	TEMPORARY ACCESS ROAD		LUMP SUM	\$	
7	280 TON	STREAMBED MIX	\$		\$	
8	450 C.Y.	ROCK / SOIL MIX	\$		\$	
9	700 TON	ROCK FOR EROSION CONTROL AND SCOUR PROTECTION CL. B	\$		\$	
10	1 L.S.	TEMPORARY STREAM DIVERSION		LUMP SUM	\$	
11	3,720 S.F.	STRUCTURAL EARTH WALL	\$		\$	
12	1,547 C.Y.	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	\$		\$	
13	1 L.S.	SUPERSTRUCTURE - GRAF ROAD MP 1.01 BRIDGE		LUMP SUM	\$	
14	790 TON	CRUSHED SURFACING BASE COURSE	\$		\$	
15	225 TON	CRUSHED SURFACING TOP COURSE	\$		\$	
16	30 TON	SHOULDER FINISHING	\$		\$	
17	244 TON	HMA CL. 3/8 IN PG 64-22	\$		\$	
18	10 TON	HMA FOR APPRACH CL. 3/8 IN PG 64-22	\$		\$	
19	1 CALC.	EROSION / WATER POLUTION CONTROL		CALCULATED	\$	5,000.00

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
20	4 EA.	LARGE WOODY DEBRIS	\$	\$
21	1 L.S.	STREAMSIDE MITIGATION PLANTING	\$	\$
22	15 DAY	ESC LEAD	\$	\$
23	0.5 ACRE	SEEDING AND MULCHING	\$	\$
24	150 S.Y.	STABILIZED CONSTRUCTION ENTRANCE	\$	\$
25	350 L.F.	HIGH VISIBILITY FENCE	\$	\$
26	530 L.F.	HIGH VISIBILITY SILT FENCE	\$	\$
27	708 S.Y.	BIODEGRADABLE EROSION CONTROL BLANKET	\$	\$
28	2 EA.	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	\$	\$
29	275 L.F.	EXTRUDED CURB (TYPE 2 OR 5)	\$	\$
30	2 EA.	BEAM GUARDRAIL ANCHOR TYPE 10	\$	\$
31	130 L.F.	BEAM GUARDRAIL TYPE 31	\$	\$
32	1 L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	\$
33	1 L.S.	TRIMMING AND CLEANUP	LUMP SUM	\$
34	0 EST.	REIMBURSEMENT FOR THIRD PARTY DAMAGE	ESTIMATED	\$0.00
35	1 CALC.	MINOR CHANGE	CALCULATED	\$ 25,000.00
36	1 L.S.	SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN	LUMP SUM	\$
			TOTAL BID	\$

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

NON-COLLUSION DECLARATION

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

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

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

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

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

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 LEWIS COUNTY TREASURER

PROPOSAL BOND IN THE AMOUNT OF 5% OF THE BID

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

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Proposal Must be Signed

Firm Name

Address

State of Washington Contractor's License No.

Unified Business Identifier (U.B.I.) No.

Telephone No.

Federal ID No.

Note:

This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Lewis County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.

* Attach Power of Attorney



Lewis County Department of Public Works

Erik P. Martin, PE, Director

Tim Fife, PE, County Engineer

Certification of Compliance with Wage Payment Statutes

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

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

Bidder's Business Name

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Sole Proprietorship Partnership Joint Venture Corporation

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

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

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

APPENDIX E

CONTRACT DOCUMENTS

INCLUDING:

Contract Form

Contract Bond

Power Equipment List

CONTRACT

THIS AGREEMENT, made and entered into this ___ day of _____, 2018, between the BOARD OF COUNTY COMMISSIONERS of LEWIS COUNTY, State of Washington, acting under and by virtue of RCW 36.77.040, hereinafter called

the Board, and _____ of _____

for ___sel___, heirs, executors, administrators, successors and assigns, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the payments, covenants and agreements hereinafter mentioned to be made and performed by the parties hereto, the parties hereto covenant and agree as follows:

DESCRIPTION OF WORK:

1. The Contractor shall do all work and furnish all material necessary to improve Graf Road MP 1.01 by installing a stream bypass, removing the existing concrete twin box culvert, excavation, Geosynthetic Reinforced Soil construction, precast voided slab bridge construction, streambed restoration, road restoration, guardrail, hydroseeding, and other work, all in Lewis County Washington, in accordance with and as described in the attached plans and specifications, and in full compliance with the terms, conditions and stipulations herein set forth and attached, now referred to and by such reference incorporated herein and made a part hereof as fully for all purposes as if here set forth at length, and shall perform any alterations in or additions to the work covered by this contract and every part thereof and any extra work which may be ordered as provided in this contract and every part thereof.

The Contractor shall provide and be at the expense of all materials, labor, carriage, tools, implements and conveniences and things of every description that may be requisite for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof.

2. The County hereby promises and agrees with the Contractor to hire and does hire the Contractor to provide the materials and to do and cause to be done the above described work and to complete and furnish the same according to the attached plans and specifications and the terms and conditions herein contained, and hereby contracts to pay for the same according to the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract and every part thereof. The County further agrees to hire the contractor to perform any alterations in or conditions to the work covered by this contract and every part thereof and any force account work that may be ordered and to pay for the same under the terms of this contract and the attached plans and specifications.

3. The Contractor for himself, and for his heirs, executors, administrators, successors and assigns, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.

4. It is further provided that no liability shall attach to the County be reason of entering into this contract, except as expressly provided herein.

Contract - 1

5. CANCELLATION OF CONTRACT FOR VIOLATION OF STATE POLICY

This contract, pursuant to RCW 49.28.040 to RCW 49.28.060, may be canceled by the officers or agents of the Owner authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the State of Washington.

6. DOCUMENTS COMPRISING CONTRACT

All documents hereto attached, including but not being limited to the advertisement for bids, information for bidders, bid proposal form, general conditions (if any), special conditions (if any), complete specifications and the complete plans, are hereby made a part of this contract.

IN WITNESS WHEREOF, the said Contractor has executed this instrument, and the said Board of County Commissioners of aforesaid County, pursuant to resolution duly adopted, has caused this instrument to be executed by and in the name of said Board by its Chairman, duly attested by its Clerk, the day and year first above written, and the seal of said Board to be hereunto affixed on the date in this instrument first above written.

By: _____

Contractor

Performance of foregoing contract assured in accordance with the terms of the accompanying bond.

Dated: _____, 2018

By: _____

Surety

By: _____

Attorney-in-fact

APPROVED AS TO FORM:

JONATHAN MEYER Prosecuting Attorney

By: _____

Civil Deputy

APPROVED:

County Engineer

Contract – 2

**CONTRACT BOND FOR
LEWIS COUNTY, WASHINGTON**

Bond No. _____

WE, _____ d/b/a _____
(Insert legal name of Contractor) (Insert trade name of Contractor, if any)

(hereinafter "Principal"), and _____ (hereinafter "Surety"), are held and firmly bound unto **LEWIS COUNTY, WASHINGTON** (hereinafter "County"), as Obligees, in an amount (in lawful money of the United States of America) equal to the total compensation and expense reimbursement payable to Principal for satisfactory completion of Principal's work under Contract No. **CMP 1531** between Principal and County, which total is *initially* _____ Dollars (\$ _____), for the payment of which sum Principal and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.. Said contract (hereinafter referred to as "the Contract") is for the **Graf Road MP 1.01 Culvert Replacement Project** and is made a part hereof by this reference. The Contract includes the original agreement as well as all documents attached thereto or made a part thereof and amendments, change orders, and any other document modifying, adding to or deleting from said Contract any portion thereof.

This Bond is executed in accordance with the laws of the State of Washington, and is subject to all provisions thereof and the ordinances of County insofar as they are not in conflict therewith, and is entered into for the use and benefit of County, and all laborers, mechanics, subcontractors, and materialmen, and all persons who supply such person or persons, or subcontractors, with provisions or supplies for the carrying on of the work covered by Contract No. **CMP 1531**, between the below-named Contractor and County for the **Graf Road MP 1.01 Culvert Replacement Project**, a copy of which Contract, by this reference is made a part hereof and is hereinafter referred to as "the Contract." (The Contract as defined herein includes the aforesaid agreement together with all of the Contract documents including addenda, exhibits, attachments, modifications, alterations, and additions thereto, deletions therefrom, amendments and any other document or provision attached to or incorporated into the Contract)

THE CONDITION OF THIS OBLIGATION is such that if Contractor shall promptly and faithfully perform the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

THE PARTIES FURTHER ACKNOWLEDGE & AGREE AS FOLLOWS:

- (1) Surety hereby consents to, and waives notice of, any alteration, change order, or other modification of the Contract and any extension of time made by County, except that any single or cumulative change order amounting to more than twenty-five percent (25%) of the penal sum of this bond shall require Surety's written consent.
- (2) Surety recognizes that the Contract includes provisions for additions, deletions, and modifications to the work or Contract Time and the amounts payable to Contractor. Subject to the limitations contained in paragraph (1) above, no such change or any combination thereof, shall void or impair Surety's obligation hereunder.
- (3) Surety is subject to the provisions contained in Section 1-03.4, "Contract Bond," of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction. And such provisions are incorporated by reference. A copy may be viewed at WSDOT's website www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/.
- (4) Whenever County has declared Contractor to be in default and County has given Surety written notice of such declaration, Surety shall promptly (in no event more than thirty [30] days following receipt of such notice), specify, in written notice to County, which of the following actions Surety intends to take to remedy such default, and thereafter shall:
 - (a) Remedy the default within fifteen (15) days after its notice to County, as stated in such notice; or
 - (b) Assume within fifteen (15) days following its notice to County, full responsibility for the completion of the Contract in accordance with all of its provisions, as stated in such notice, and become entitled to payment of the balance of the Contract sum as provided in the Contract; or
 - (c) Pay County upon completion of the Contract, in cash, the cost of completion together with all other reasonable costs and expenses incurred by County as a result of Contractor's default, including but not limited to those incurred by County to mitigate its losses, which may include but are not limited to attorneys' fees and the cost of efforts to complete the work prior to Surety's exercising any option available to it under this Bond; or
 - (d) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon a determination by County and Surety jointly of the lowest responsible bidder, arrange for one or more agreements between such bidder and County, and make available as work progresses (even though there is a default or a succession of defaults under such agreement(s) for completion arranged for under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price, but not exceeding, including other costs and damages for which Surety may be liable hereunder, the penal sum of this Bond. The term "balance of the Contract price," as used in this paragraph, shall mean the total amount payable by County to Contractor under the Contract, less the amount properly paid by County to Contractor.

(5) If County commences suit and obtains judgment against Surety for recovery hereunder, then Surety, in addition to such judgment, shall pay all costs and attorneys' fees incurred by County in enforcement of County's rights hereunder. The venue for any action arising out of or in connection with this bond shall be in Lewis County, Washington.

(6) No right or action shall accrue on this Bond to or for the use of any person or corporation other than Lewis County, except as herein provided.

(7) No rider, amendment or other document modifies this Bond except as follows, which by this reference is incorporated herein:

SURETY'S QUALIFICATIONS: Every Surety named on this bond must appear on the United States Treasury Department's most current list (Circular 570 as amended or superseded) and be authorized by the Washington State Insurance Commissioner to transact business as a surety in the State of Washington. In addition, the Surety must have a current rating of at least A-:VII in A. M. Best's Key Rating Guide.

INSTRUCTIONS FOR SIGNATURES: This bond must be signed by the president or a vice-president of a corporation; the managing general partner of a partnership; managing joint venturer of a joint venture; manager of a limited liability company or, if no manager has been designated, a member of such LLC; a general partner of a limited liability partnership; or the owner(s) of a sole proprietorship. If the bond is signed by any other representative, the Principal must attach currently-dated, written proof of that signer's authority to bind the Principal, identifying and quoting the provision in the corporate articles of incorporation, bylaws, Board resolution, partnership agreement, certificate of formation, or other document authorizing delegation of signature authority to such signer, and confirmation acceptable to the County that such delegation was in effect on the date the bond was signed. **A NOTARY PUBLIC MUST ACKNOWLEDGE EACH SIGNATURE BELOW.**

FOR THE SURETY:

FOR THE PRINCIPAL:

By _____
(Signature of Attorney-in-Fact)

(Type or print name of Attorney-in-Fact)

(Type or print telephone number for Attorney-in-Fact)

By: _____
(Signature of authorized signer for Contractor)

(Type or print name of signer for Contractor)

(Type or print title of signer for Contractor)

STATE OF _____)
_____) ss: **ACKNOWLEDGMENT FOR CONTRACTOR**
COUNTY OF _____)
On this ____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, the person described in and who executed the foregoing bond, and acknowledged to me that _____ signed and sealed said bond as the free and voluntary act and deed of the Contractor so identified in the foregoing bond for the uses and purposes therein mentioned, and on oath stated that _____ is authorized to execute said bond for the Contractor named therein. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

(Signature of Notary Public) (Print or type name of Notary Public)
Notary Public in and for the State of _____ residing at _____
My commission expires _____. **SEAL ➔**

STATE OF _____)
_____) ss: **ACKNOWLEDGMENT FOR SURETY**
COUNTY OF _____)
On this ____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, Attorney-in-Fact for the Surety that executed the foregoing bond, and acknowledged said bond to be the free and voluntary act and deed of the Surety for the uses and purposes therein mentioned, and on oath stated that _____ is authorized to execute said bond on behalf of the Surety, and that the seal affixed on said bond or the annexed Power of Attorney is the corporate seal of said Surety. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

(Signature of Notary Public) (Print or type name of Notary Public)
Notary Public in and for the State of _____ residing at _____
My commission expires _____. **SEAL ➔**

POWER EQUIPMENT LIST

The undersigned furthermore certifies that he/she is thoroughly aware that time is of the essence for the completion of this contract within the time specified in the special provisions, and hereby agrees to provide the Engineer a list of his power equipment to be used on this project.

This equipment list will be used in computing any Force Account that may be performed within this contract.

The Contractor must complete this form in its entirety.

POWER EQUIPMENT

Type of Equipment	Make	Model Number	Serial Number	* Capacity	Year Built

APPENDIX F

PERMIT DOCUMENTS

TESC PLAN

Project Environmental Review Form

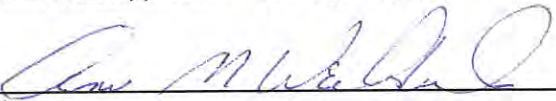
Project Location Information	
Contractor:	Date: 11/28/17
Project Address/Road MP: Milepost (MP) 1.01 Graf Road	
Priority: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input checked="" type="checkbox"/> Routine	
Specific Project Information	
Task/project and brief description of project: Lewis County is proposing to replace two existing cast in place box culverts located at MP 1.010 and 1.011 on Graf Road.	
Purpose: These culverts are estimated to be 33 percent passable to fish due to a calculated low flow depth of 5 inches and an observed low flow depth of 1 inch.	
Equipment to be used: Crane, excavator, dump trucks, etc.	
Size/length of culverts: Two culverts - 41.5 ft in length, 10.25 ft in width, and 9.3 ft in height	
Total cubic yards of material to be removed/placed: See attached plans	Material Type: See attached plans
Depth, Width and Length of ditch/area where material to be removed/placed: See attached plans	
Project start date: May 2018	Project end date: October 2018
Environmental Information	
Approximate areas of any exposed soil: See attached plans	
Any flowing/standing water at this site? Yes	
Name of waterbody or nearest stream (if known): Scammon Creek	Location of work from waterbody/wetland: In and Adjacent
Are fish potentially present Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If so contact environmental	Fish Exclusion Needed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Contact Environmental Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Contact Name: Ann Weckback Date contacted: 8/16/13

BMP's to be used:

<input checked="" type="checkbox"/> Cofferdam	<input type="checkbox"/> Coir Log	<input checked="" type="checkbox"/> Silt Fence	<input type="checkbox"/> Concrete Containment
<input checked="" type="checkbox"/> Dewatering	<input type="checkbox"/> Triangular Silt Dike	<input checked="" type="checkbox"/> Erosion Control Fabric	<input type="checkbox"/> Diaper Netting
<input checked="" type="checkbox"/> Stream Bypass	<input type="checkbox"/> Rock Check Dam	<input checked="" type="checkbox"/> Hydroseeding	<input checked="" type="checkbox"/> Stabilized
<input type="checkbox"/> Vactoring	<input type="checkbox"/> Straw Wattles	<input checked="" type="checkbox"/> Mulching	Construction Entrance
<input type="checkbox"/> Turbidity Curtain	<input checked="" type="checkbox"/> Sand Bags	<input type="checkbox"/> Hand Seeding	<input type="checkbox"/> Inlet Protection
<input type="checkbox"/> Riprap	<input type="checkbox"/> Straw Bales	<input checked="" type="checkbox"/> Live Staking	<input type="checkbox"/> Dust Control
<input checked="" type="checkbox"/> Streambed Gravel	<input type="checkbox"/> Other		

Certified Erosion and Sediment Control Lead:	Phone:
<p>Comments:</p> <ul style="list-style-type: none"> • <i>Proposed project must follow all provisions of the USACE and WDFW permits as well as those listed in the contract special provisions.</i> • <i>All in-water work shall occur between July 1st and September 30th.</i> 	

Project Environmental Review Form

Contractor:			Project Address: MP 1.01 Graf Road				
Date Investigated :			Latitude/Longitude: 46.706344, -122.995789				
Findings:							
BMP's: Silt Fence, High Visibility Fence, Stabilized Construction Entrance, Spill Kits, Cofferdams, Dewatering, Fish Rescue, Stream Bypass, Streambed Mix, Large Woody Debris, Biodegradable Erosion Control Blanket, Settling of Zone of Isolation, Hydroseed, Mulch, and Plantings							
Permitting Information							
Permit	Permit Required		Initials	Date Applied	Date Received	Permit Number	Comments
HPA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		5/16/16	6/20/16	2061-5-72+01	GHPA <input type="checkbox"/> HPA <input checked="" type="checkbox"/>
Clear & Grade	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>					
Shoreline	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>					
Ecology	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>					
Corps	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		5/16/16	9/12/16	NWS-2016-490	
NWP #: 27				PCN? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Work Start Information							
Allowed Work Window: <i>In Water Work Window July 1 to September 30.</i>							
Permit Expiration: <i>September 30, 2018</i>							
Fish Exclusion Needed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			WDFW Notification? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Are plantings required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Is monitoring required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Was there a pre-maintenance or pre-construction meeting? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Additional Information: Fish Habitat Enhancement Project							
Environmental Planner							
Environmental Approval: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
 _____ Signature				_____ Date <u>11/28/17</u>			
Contractor Superintendent							
I have read and understood all permit conditions.							
_____ Signature				_____ Date			
Certified Erosion and Sediment Control Lead							
I have read and understood all permit conditions.							
_____ Signature				_____ Date			



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

September 12, 2016

Ms. Ann Weckback
Lewis County Public Works
2025 Northeast Kresky Avenue
Chehalis, Washington 98532

Reference: NWS-2016-490
Lewis Co. Public Works
(Scammon Creek Barrier
Removal)

Dear Ms. Ann Weckback:

We have reviewed your application to replace two adjacent box culverts with a bridge on Graf Road in Scammon Creek at Centralia, Lewis County, 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 May 12, 2016.

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 condition:

a. 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 Regional Road Maintenance Program Limit 10 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 Numbers 2003-00313, 2004-00647, 2009-03290, and WCR-2014-304). 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. These terms and conditions are incorporated by reference in this permit. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your Corps permit. The NMFS is the appropriate authority to determine compliance with the ESA.

The U.S Fish and Wildlife Service completed no effect determinations for the National Historic Preservation Act, Section 7 of the Endangered Species Act (ESA), and Magnuson Stevens Act essential fish habitat (EFH) for its involvement in the proposed activity. 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 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 Services, in accordance with 50 CFR 402.07 and 50 CFR 600.920(b), that this agency has served as the lead Federal agency for the ESA and EFH consultation responsibilities for the activity described above.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification and the Coastal Zone Management Act requirements for this NWP. No further coordination with Ecology is required.

We have prepared and enclosed a *Preliminary Jurisdictional Determination* (JD) dated July 11, 2016, 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 U.S. 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.

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. We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website at www.nws.usace.army.mil select "Regulatory Branch, Permit Information" and then "Contact Us." If you have any questions, please contact me at kiley.c.zaubi@usace.army.mil or (206) 764-3262.

Sincerely,












A handwritten signature in black ink, appearing to read 'K Zaubi', written over a horizontal line.

Kiley C. Zaubi, Project Manager
Regulatory Branch







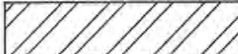

Enclosures

LEGEND

EXISTING FEATURES

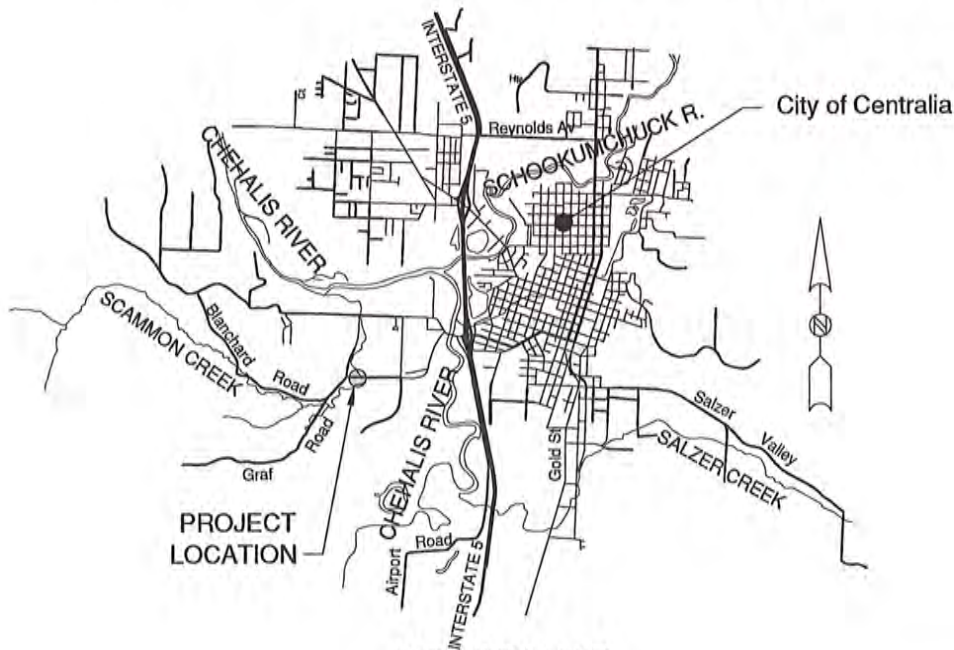
	CONIFER TREE
	DECIDUOUS TREE
	EDGE OF ROAD
	DITCH
	EDGE OF STREAM
	FENCE
	BST ROADWAY
	MAILBOX
	FENCEPOST
	POWER POLE
	OHWM

NEW CONSTRUCTION

	EDGE OF PAVEMENT
	CENTERLINE
	GUARDRAIL
	HMA
	GUARDRAIL LANDING / SHOULDER ROCK
	SHOULDER
	OHWM
	PROPOSED AREA OF POTENTIAL EFFECT

SURVEY SYMBOLS

	SIXTEENTH LINE
	RIGHT OF WAY
	PROPERTY LINE



VICINITY MAP
NTS

REFERENCE NUMBER:

NWS-2016-490

PROPOSED PROJECT: SCAMMON CREEK
BARRIER REMOVAL

PROJECT LOCATION (ADDRESS):

GRAF ROAD MP 1.01
CENTRALIA, WA 98531

Sec 13 Twn 14N R 3W

APPLICANT: LEWIS COUNTY

LAT/LONG: 46D 42' 23"-122D 59' 45"

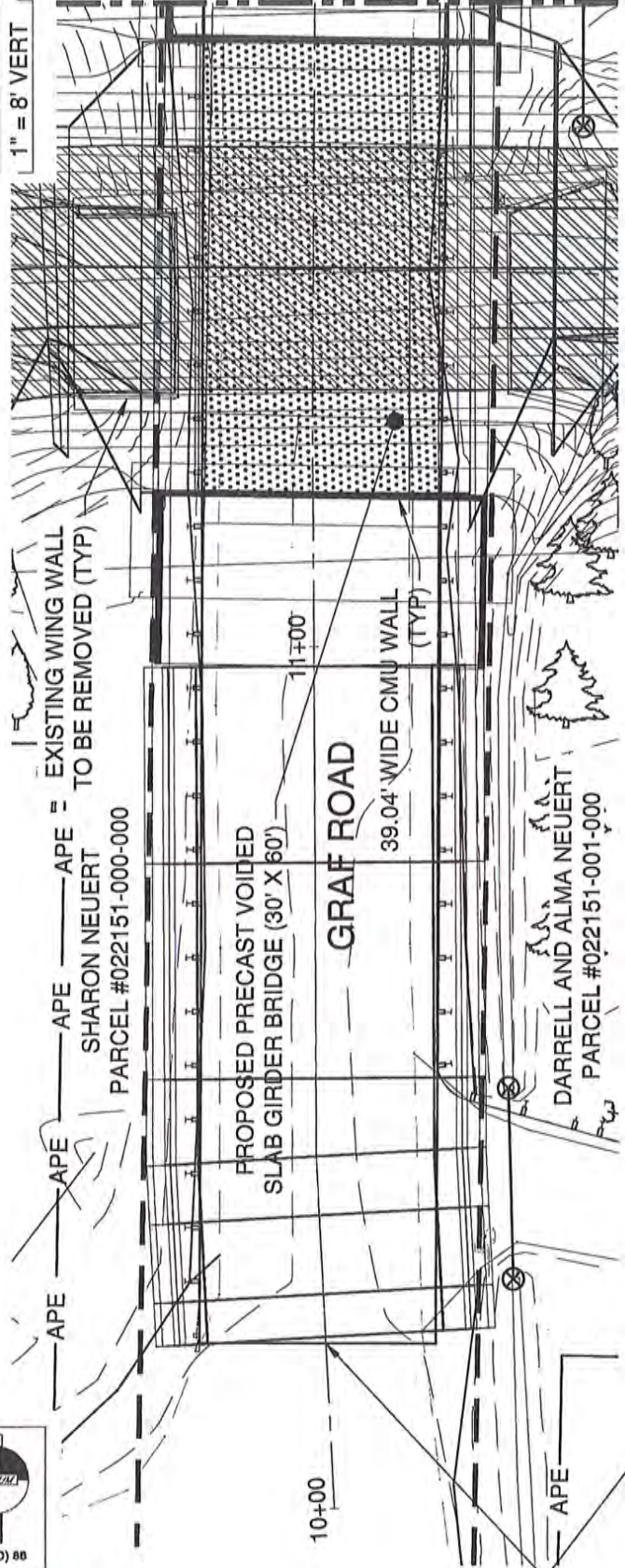
IN: (waterbody) SCAMMON CREEK
NEAR/AT: (city) CENTRALIA
COUNTY: LEWIS

ADJACENT PROPERTY OWNERS: DATUM: NAVD88
 1. PARCEL#022151-000-000 MOXNESS, CHAD & ASHLEY
 2. PARCEL#022151-001-000 DARRELL AND ALMA NEUERT
 3. PARCEL#022141-000-000 TRACY & MARSHA WITCHY

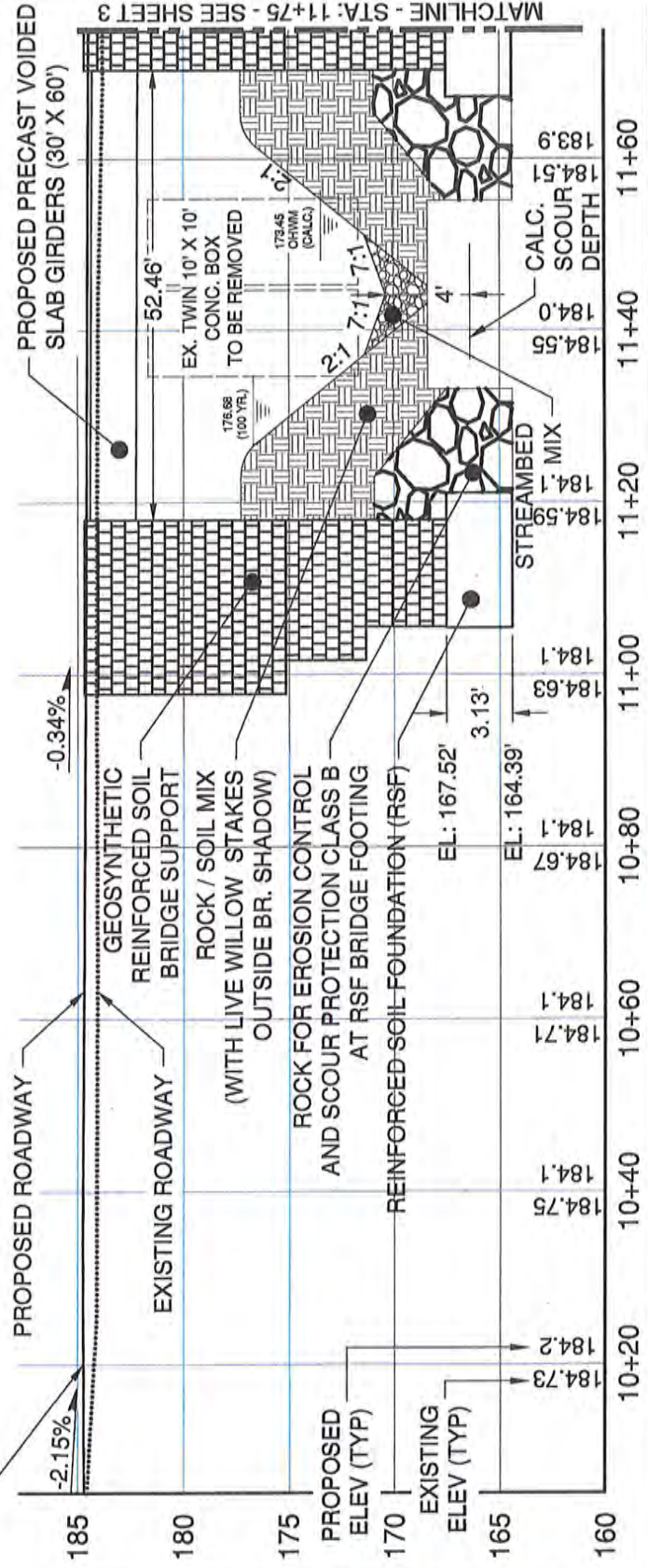


1" = 20' HORIZ
1" = 8' VERT

MATCHLINE - STA. 11+75 - SEE SHEET 3



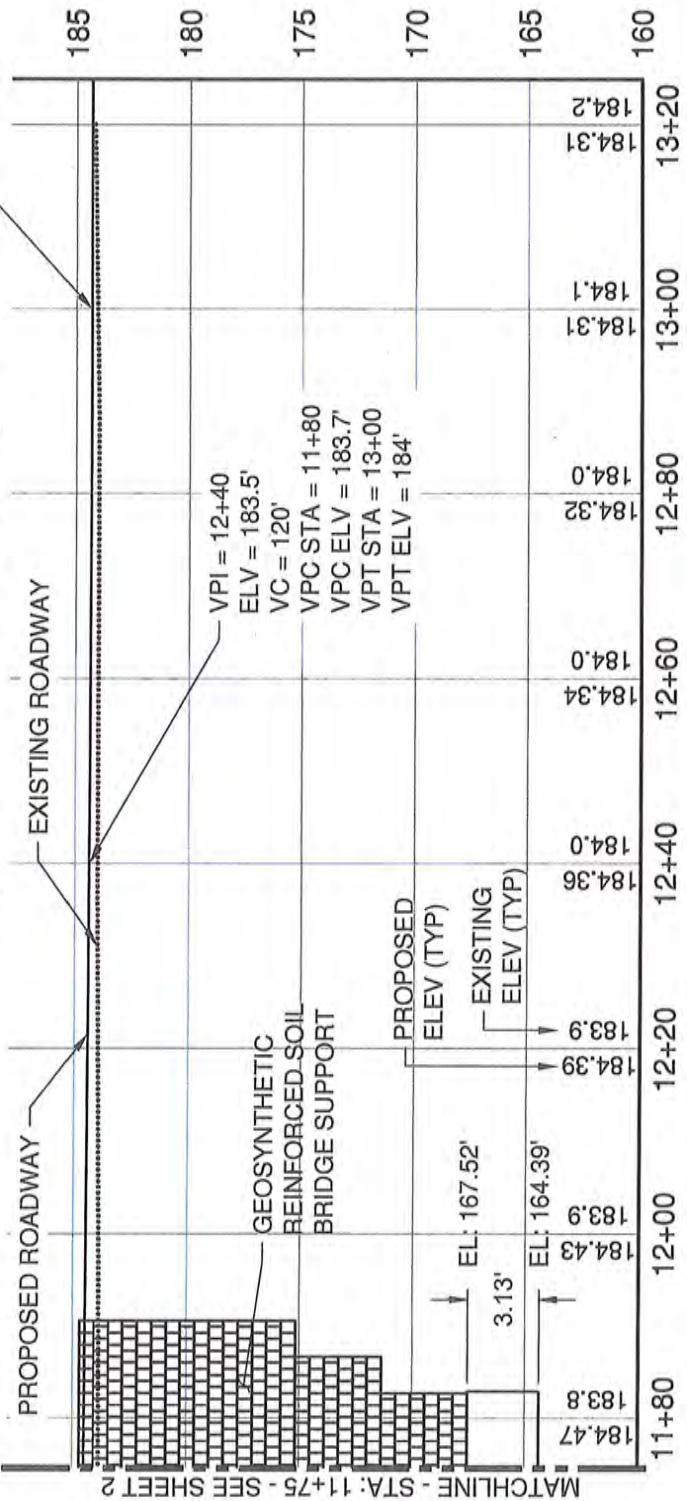
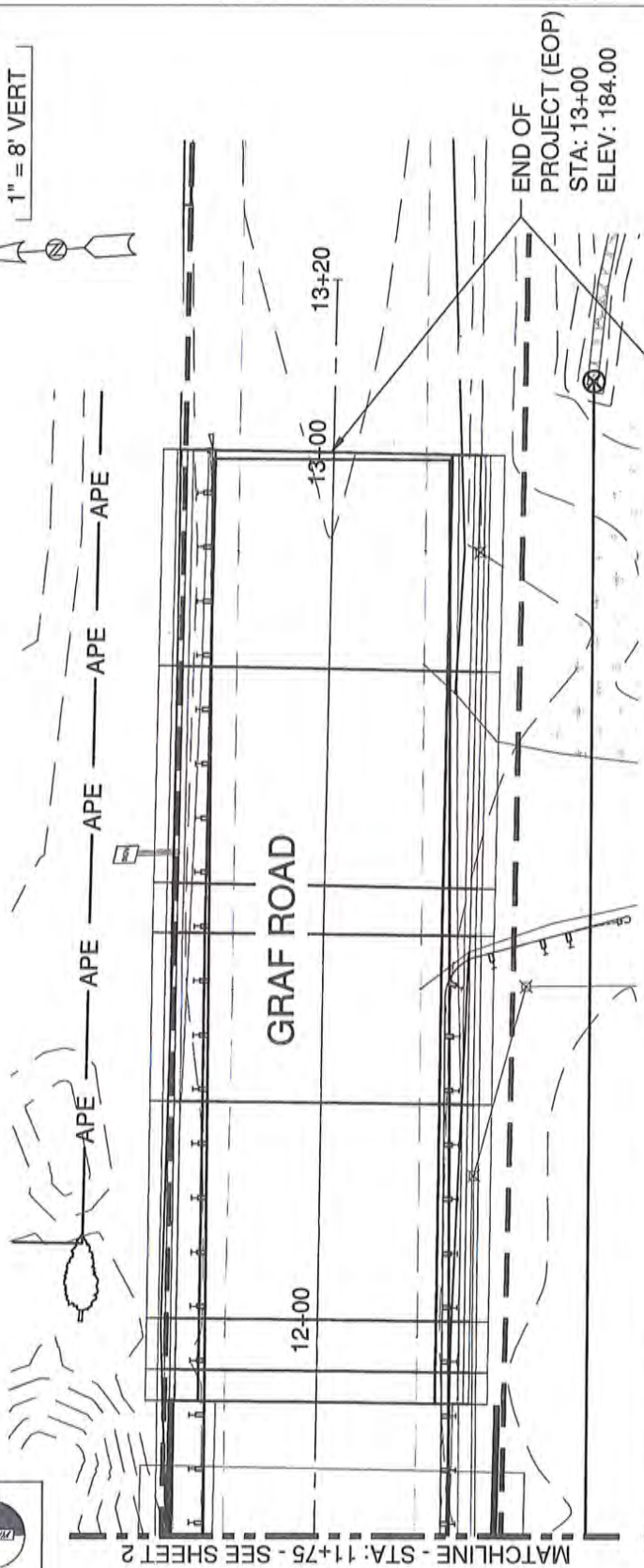
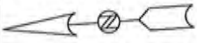
BEGINNING OF PROJECT (BOP)
STA: 10+20
ELEV: 184.25



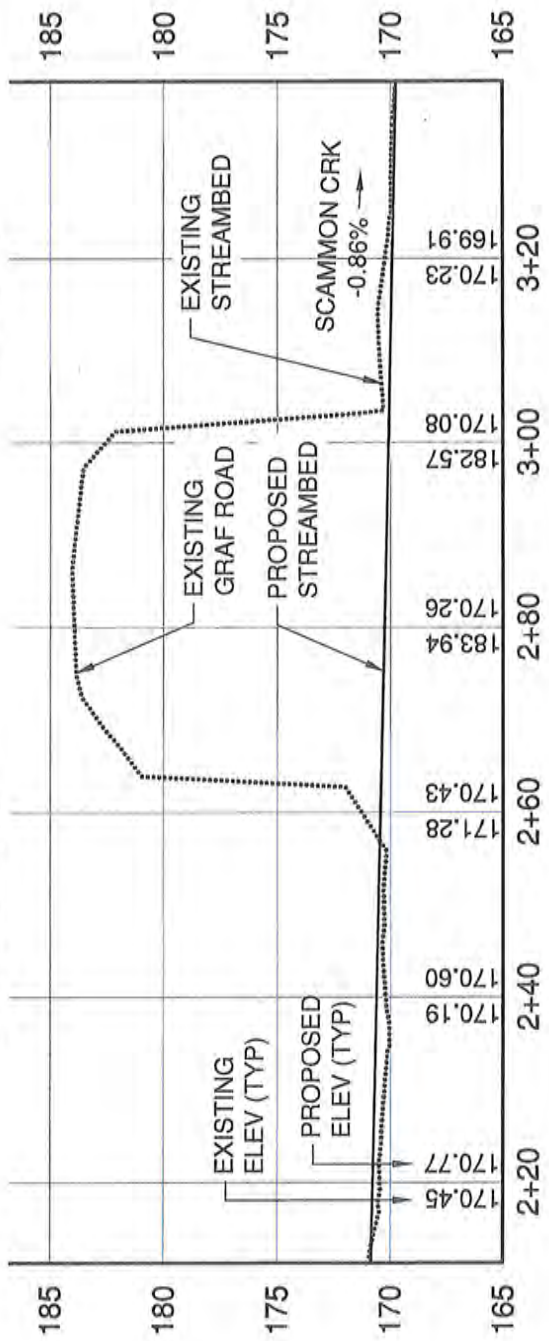
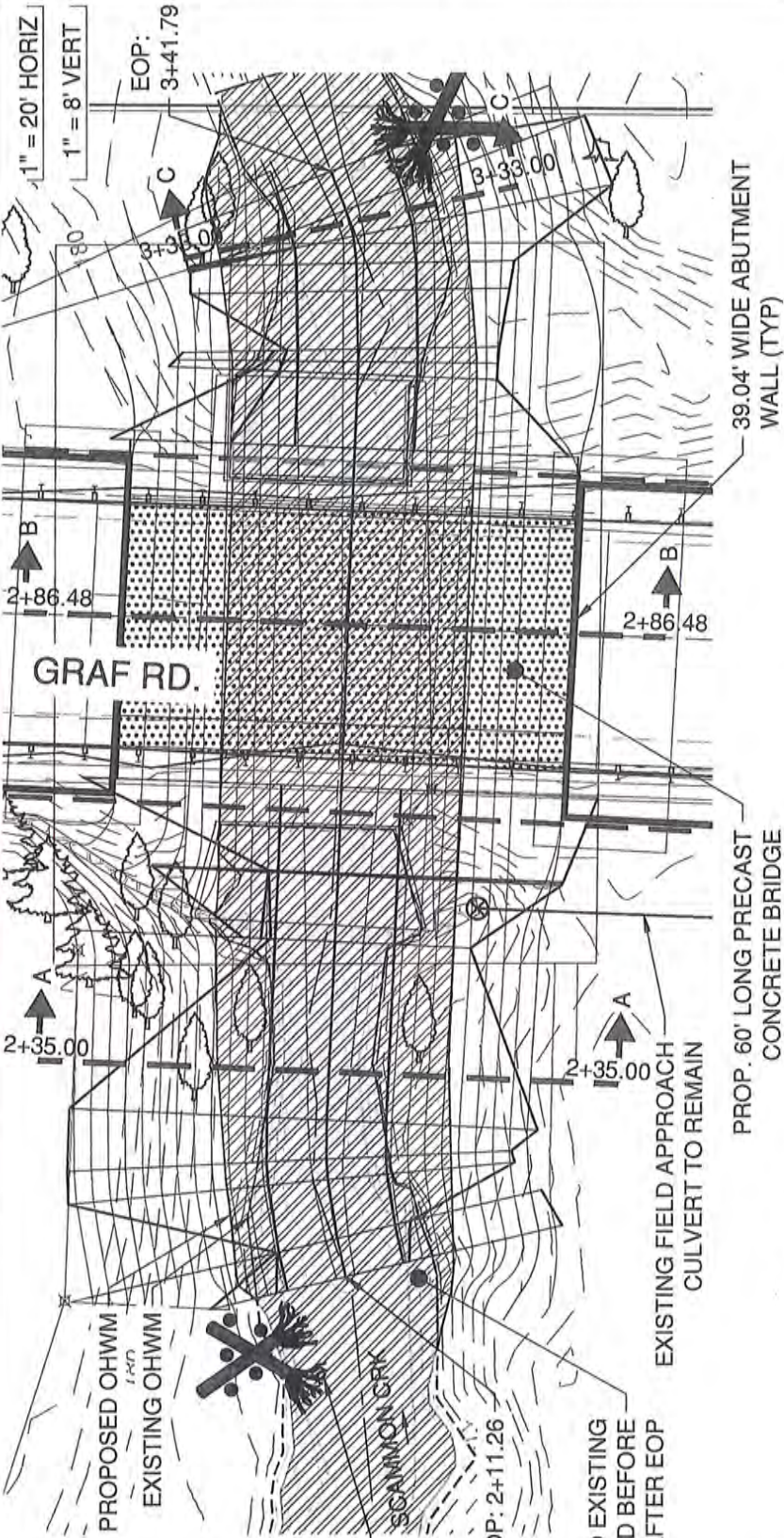
MATCHLINE - STA. 11+75 - SEE SHEET 3

REFERENCE NUMBER: *NWS-2016-490*
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 2 OF 8 DATE: 05/12/2016

1" = 20' HORIZ
1" = 8' VERT



REFERENCE NUMBER: NWS-2016-490
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 3 OF 8 DATE: 05/12/2016



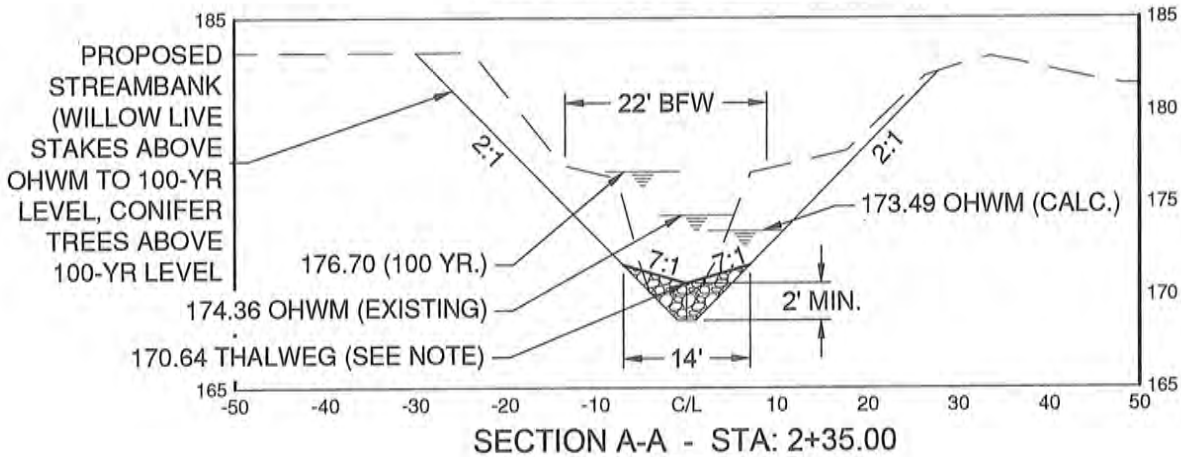
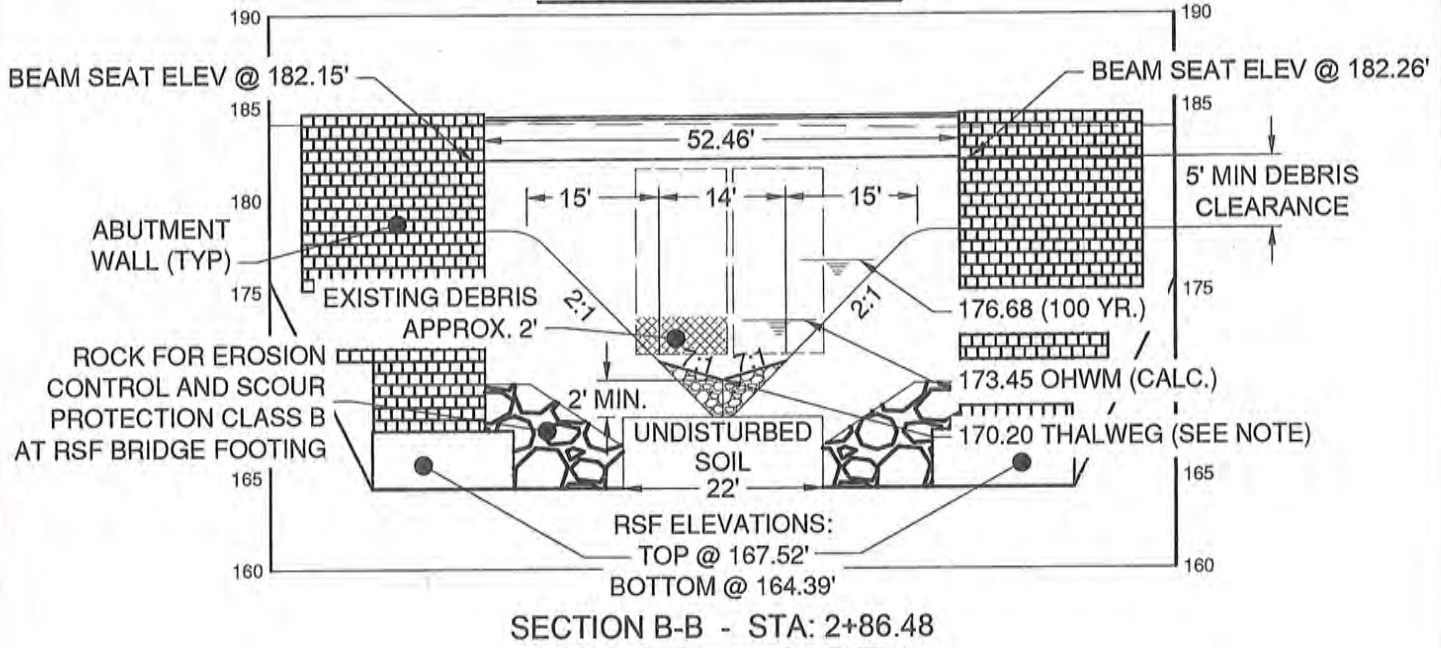
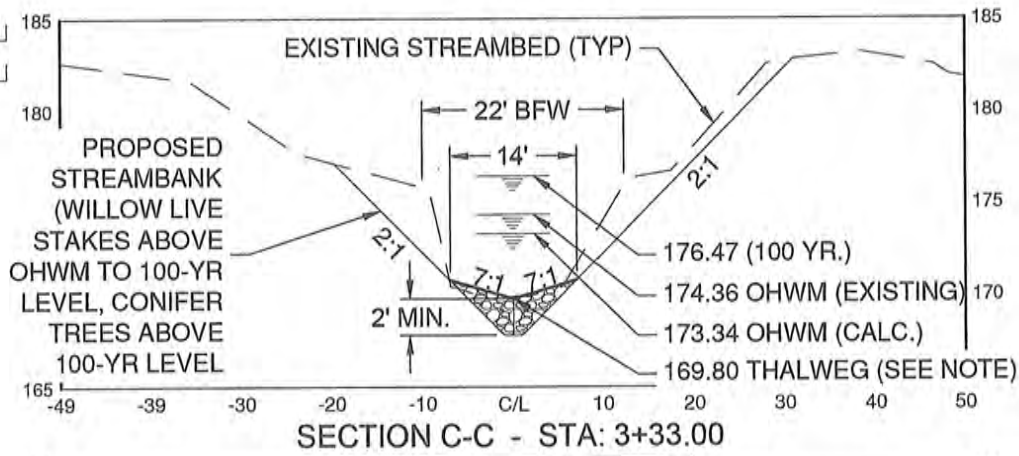
ANCHORED LARGE WOODY DEBRIS (SEE DETAIL ON PAGE 6 OF 8)



TRANSITION TO EXISTING STREAMBED BEFORE BOP AND AFTER EOP

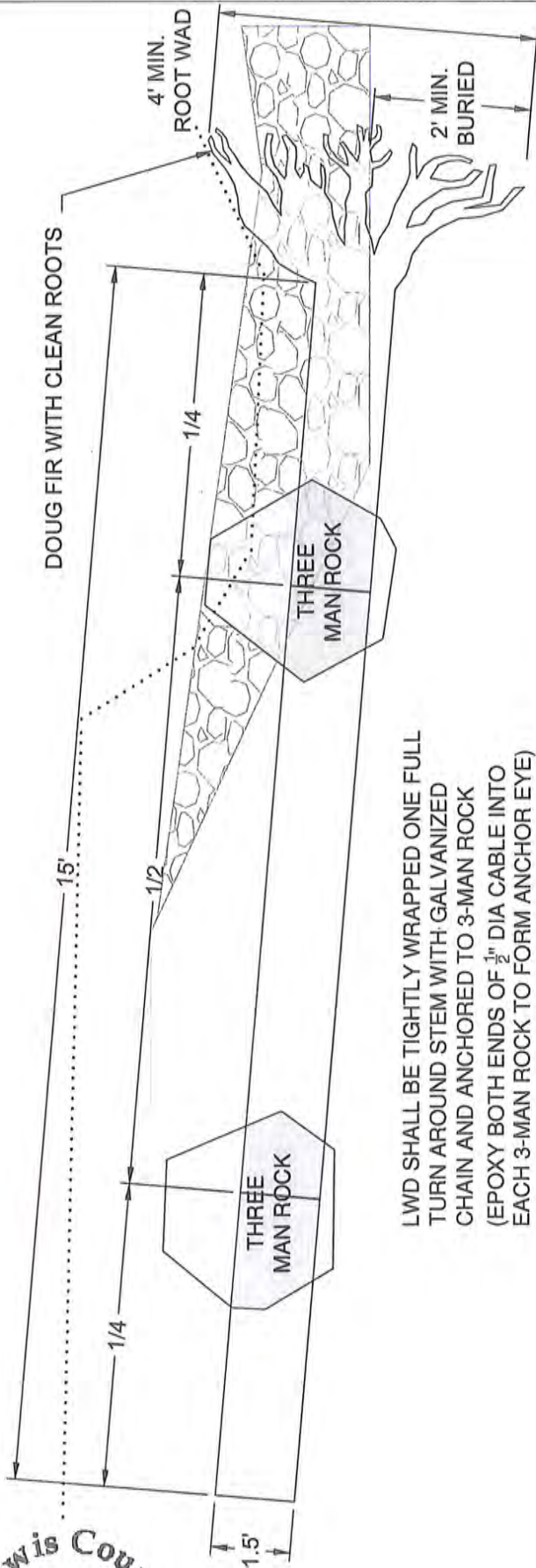
REFERENCE NUMBER: NWS-2016-490
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 4 OF 8 DATE: 05/12/2016

1" = 20' HORIZ
1" = 10' VERT



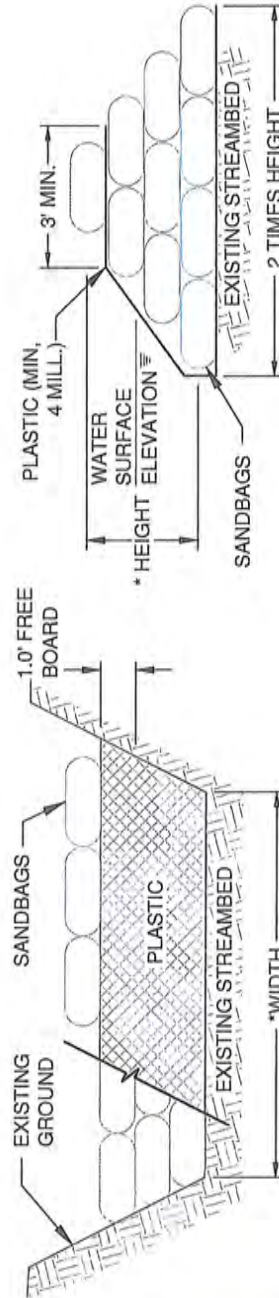
NOTE:
THALWEG INCLUDES A MEANDERING 0.5' DEEP LOW FLOW NOTCH (NOT DEPICTED)

REFERENCE NUMBER: *NWS-2016-490*
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 5 OF 8 DATE: 05/12/2016



LWD SHALL BE TIGHTLY WRAPPED ONE FULL TURN AROUND STEM WITH GALVANIZED CHAIN AND ANCHORED TO 3-MAN ROCK (EPOXY BOTH ENDS OF 1/2" DIA CABLE INTO EACH 3-MAN ROCK TO FORM ANCHOR EYE)

LARGE WOODY DEBRIS
 NOT TO SCALE



* WIDTH OF COFFER DAM SHALL BE DETERMINED BY THE EXISTING BANK OF THE STREAM AT THE TIME OF CONSTRUCTION.

COFFER DAM - PROFILE VIEW
 NOT TO SCALE

* HEIGHT OF COFFER DAM SHALL BE DETERMINED BY THE WATER SURFACE ELEVATION AT THE TIME OF CONSTRUCTION.

COFFER DAM - SECTION VIEW
 NOT TO SCALE

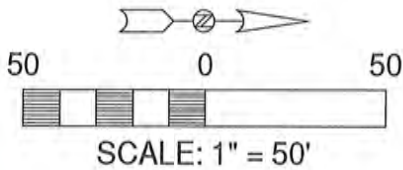
NOTES:

1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
3. PROVIDE 1.0' FREEBOARD.

REFERENCE NUMBER: NWS-2016-490
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 6 OF 8 DATE: 05/12/2016

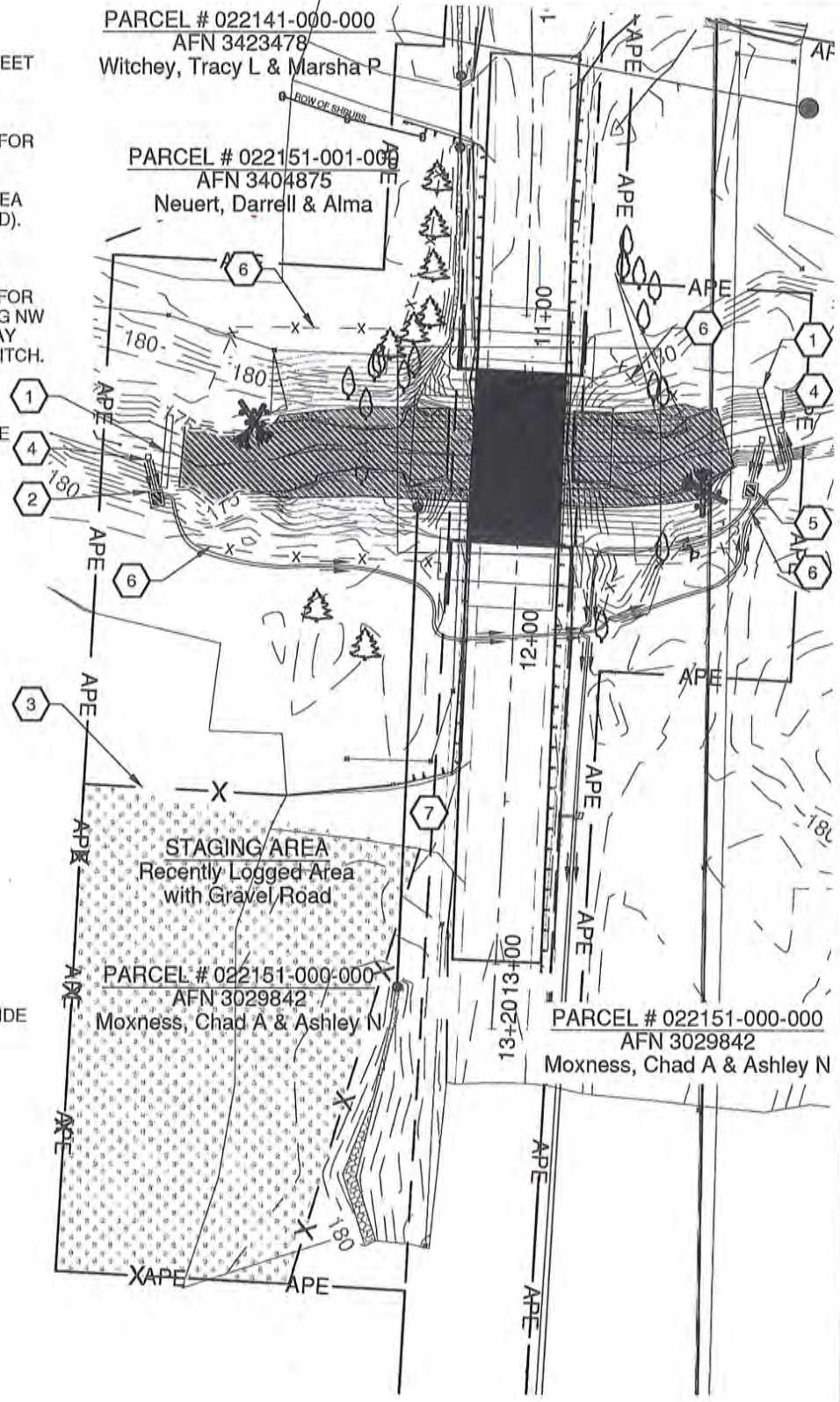
CONSTRUCTION NOTES:

- 1 INSTALL COFFER DAM PER DETAILS ON SHEET 6 OF 8 AS STAKED IN THE FIELD BY THE ENGINEER.
- 2 INSTALL SPILL CONTAINED PUMP SYSTEM FOR STREAM BY-PASS.
- 3 INSTALL SILT FENCE AROUND STAGING AREA AS DIRECTED BY THE ENGINEER (DEPICTED).
- 4 FISH SCREEN PER WDFW REQUIREMENTS.
- 5 INSTALL SPILL CONTAINED PUMP SYSTEM FOR WORK WATER. PUMP WORK WATER ALONG NW DITCH APPROXIMATELY 300' TO DRAIN AWAY FROM PROJECT THROUGH GRASS LINED DITCH.
- 6 HIGH VISIBILITY FENCE
- 7 QUARRY SPALL CONSTRUCTION ENTRANCE



APE NOTE:

APE EXTENDS 1500' WITHIN EXISTING 40' WIDE RIGHT-OF-WAY IN ALL DIRECTIONS FOR CONSTRUCTION SIGN PLACEMENT.



Department of Public Works

REFERENCE NUMBER: NWS-2016-490
 APPLICANT NAME: LEWIS COUNTY
 PROPOSED PROJECT: SCAMMON CREEK
 BARRIER REMOVAL
 LOCATION: MP 1.01 GRAF ROAD
 SHEET 7 OF 8 DATE: 05/12/2016

SUMMARY OF QUANTITIES

Culvert Replacement (Sta 2+11.26 to 3+41.79) Quantities Below OHWM

Streambed Mix (Fill)	151 CY
Soil/Rock Mix (Fill)	74 CY
Sandbags for Cofferdams (Temporary Fill)	12 CY
Total Fill Quantity Below OHWM	237 CY
Total Excavation Quantity Below OHWM	642 CY

Culvert Replacement (Sta 2+11.26 to 3+41.79) Between OHWM and 100 Year Flood Elevation

Soil/Rock Mix (Fill)	117 CY
Total Fill Quantity Between OHWM and 100 Year Flood Elevation	117 CY
Total Excavation Quantity Between OHWM and 100 Year Flood Elevation	144 CY

Culvert Replacement (Sta 2+11.26 to 3+41.79) Above 100 Year Flood Elevation

Total Fill Quantity Outside 100 Year Flood Elevation	2696 CY
Total Excavation Outside 100 Year Flood Elevation	3164 CY

Culvert Replacement (Sta 2+11.26 to 3+41.79) Project Quantities

All Excavation	3950 CY
Fill (Streambed Mix, Soil/Rock Mix, Sandbags, Buried Scour Protection, HMA, etc.)	3050 CY



US Army Corps
of Engineers®
Seattle District

NATIONWIDE PERMIT 27

Terms and Conditions

Effective Date: June 15, 2012



-
- A. Description of Authorized Activities
 - B. Corps National General Conditions for all NWP
 - C. Corps Seattle District Regional General Conditions
 - D. Corps Regional Specific Conditions for this NWP
 - E. State 401 Certification General Conditions
 - F. State 401 Certification Specific Conditions for this NWP
 - G. EPA 401 Certification General Conditions
 - H. EPA 401 Certification Specific Conditions for this NWP
 - I. Coastal Zone Management Consistency Response for this NWP
-

In addition to any special condition that may be required on a case-by-case basis by the District Engineer, the following terms and conditions must be met, as applicable, for a Nationwide Permit authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

27. Aquatic Habitat Restoration, Establishment, and Enhancement Activities. Activities in waters of the United States associated with the restoration, enhancement, and establishment of tidal and non-tidal wetlands and riparian areas, the restoration and enhancement of non-tidal streams and other non-tidal open waters, and the rehabilitation or enhancement of tidal streams, tidal wetlands, and tidal open waters, provided those activities result in net increases in aquatic resource functions and services.

To the extent that a Corps permit is required, activities authorized by this NWP include, but are not limited to: the removal of accumulated sediments; the installation, removal, and maintenance of small water control structures, dikes, and berms, as well as discharges of dredged or fill material to restore appropriate stream channel configurations after small water control structures, dikes, and berms, are removed; the installation of current deflectors; the enhancement, restoration, or establishment of riffle and pool stream structure; the placement of in-stream habitat structures; modifications of the stream bed and/or banks to restore or establish stream meanders; the backfilling of artificial channels; the removal of existing drainage structures, such as drain tiles, and the filling, blocking, or reshaping of drainage ditches to restore wetland hydrology; the installation of structures or fills necessary to establish or re-establish wetland or stream hydrology; the construction of small nesting islands; the construction of open water areas; the construction of oyster habitat over unvegetated bottom in tidal waters; shellfish seeding; activities needed to reestablish vegetation, including plowing or discing for seed bed preparation and the planting of appropriate wetland species; re-establishment of submerged aquatic vegetation in areas where those plant communities previously existed; re-establishment of tidal wetlands in tidal waters where those wetlands previously existed; mechanized land clearing to remove non-native invasive, exotic, or nuisance vegetation; and other related activities. Only native plant species should be planted at the site.

This NWP authorizes the relocation of non-tidal waters, including non-tidal wetlands and streams, on the project site provided there are net increases in aquatic resource functions and services.

Except for the relocation of non-tidal waters on the project site, this NWP does not authorize the conversion of a stream or natural wetlands to another aquatic habitat type (e.g., stream to wetland or vice versa) or uplands. Changes in wetland plant communities that occur when wetland hydrology is more fully restored during wetland rehabilitation activities are not considered a conversion to another aquatic

habitat type. This NWP does not authorize stream channelization. This NWP does not authorize the relocation of tidal waters or the conversion of tidal waters, including tidal wetlands, to other aquatic uses, such as the conversion of tidal wetlands into open water impoundments.

Compensatory mitigation is not required for activities authorized by this NWP since these activities must result in net increases in aquatic resource functions and services.

Reversion. For enhancement, restoration, and establishment activities conducted: (1) In accordance with the terms and conditions of a binding stream or wetland enhancement or restoration agreement, or a wetland establishment agreement, between the landowner and the U.S. Fish and Wildlife Service (FWS), the Natural Resources Conservation Service (NRCS), the Farm Service Agency (FSA), the National Marine Fisheries Service (NMFS), the National Ocean Service (NOS), U.S. Forest Service (USFS), or their designated state cooperating agencies; (2) as voluntary wetland restoration, enhancement, and establishment actions documented by the NRCS or USDA Technical Service Provider pursuant to NRCS Field Office Technical Guide standards; or (3) on reclaimed surface coal mine lands, in accordance with a Surface Mining Control and Reclamation Act permit issued by the Office of Surface Mining Reclamation and Enforcement (OSMRE) or the applicable state agency, this NWP also authorizes any future discharge of dredged or fill material associated with the reversion of the area to its documented prior condition and use (i.e., prior to the restoration, enhancement, or establishment activities). The reversion must occur within five years after expiration of a limited term wetland restoration or establishment agreement or permit, and is authorized in these circumstances even if the discharge occurs after this NWP expires. The five-year reversion limit does not apply to agreements without time limits reached between the landowner and the FWS, NRCS, FSA, NMFS, NOS, USFS, or an appropriate state cooperating agency. This NWP also authorizes discharges of dredged or fill material in waters of the United States for the reversion of wetlands that were restored, enhanced, or established on prior-converted cropland or on uplands, in accordance with a binding agreement between the landowner and NRCS, FSA, FWS, or their designated state cooperating agencies (even though the restoration, enhancement, or establishment activity did not require a section 404 permit). The prior condition will be documented in the original agreement or permit, and the determination of return to prior conditions will be made by the Federal agency or appropriate state agency executing the agreement or permit. Before conducting any reversion activity the permittee or the appropriate Federal or state agency must notify the district engineer and include the documentation of the prior condition. Once an area has reverted to its prior physical condition, it will be subject to whatever the Corps Regulatory requirements are applicable to that type of land at the time. The requirement that the activity results in a net increase in aquatic resource functions and services does not apply to reversion activities meeting the above conditions. Except for the activities described above, this NWP does not authorize any future discharge of dredged or fill material associated with the reversion of the area to its prior condition. In such cases a separate permit would be required for any reversion.

Reporting. For those activities that do not require pre-construction notification, the permittee must submit to the district engineer a copy of: (1) The binding stream enhancement or restoration agreement or wetland enhancement, restoration, or establishment agreement, or a project description, including project plans and location map; (2) the NRCS or USDA Technical Service Provider documentation for the voluntary stream enhancement or restoration action or wetland restoration, enhancement, or establishment action; or (3) the SMCRA permit issued by OSMRE or the applicable state agency. The report must also include information on baseline ecological conditions on the project site, such as a delineation of wetlands, streams, and/or other aquatic habitats. These documents must be submitted to the district engineer at least 30 days prior to commencing activities in waters of the United States authorized by this NWP.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing any activity (see general condition 31), except for the following activities:

(1) Activities conducted on non-Federal public lands and private lands, in accordance with the terms and conditions of a binding stream enhancement or restoration agreement or wetland enhancement,

restoration, or establishment agreement between the landowner and the U.S. FWS, NRCS, FSA, NMFS, NOS, USFS or their designated state cooperating agencies;

(2) Voluntary stream or wetland restoration or enhancement action, or wetland establishment action, documented by the NRCS or USDA Technical Service Provider pursuant to NRCS Field Office Technical Guide standards; or

(3) The reclamation of surface coal mine lands, in accordance with an SMCRA permit issued by the OSMRE or the applicable state agency.

However, the permittee must submit a copy of the appropriate documentation to the district engineer to fulfill the reporting requirement. (Sections 10 and 404)

Note: This NWP can be used to authorize compensatory mitigation projects, including mitigation banks and in-lieu fee projects. However, this NWP does not authorize the reversion of an area used for a compensatory mitigation project to its prior condition, since compensatory mitigation is generally intended to be permanent.

B. CORPS NATIONAL GENERAL CONDITIONS FOR ALL NWPs

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR § 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.
6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).
7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.
8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.
9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).
10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.
11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.
12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.
13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.
14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.
15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.
16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not

adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which “may affect” a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have “no effect” on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take” provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where “take” means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take” means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any “take” permits required under the U.S. Fish and Wildlife Service’s regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such “take” permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the

undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332. (1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment. (2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered. (3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be

approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include: (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions; (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and (c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either: (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information: (1) Name, address and telephone numbers of the prospective permittee; (2) Location of the proposed project; (3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans); (4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate; (5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required.

As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan. (6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and (7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP's and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. (2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP's, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination

will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to intermittent or ephemeral streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51 or 52, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in minimal adverse effects. When making minimal effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

2. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

3. If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (a) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific conditions that state the mitigation requirements. The authorization will include the

necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

Further Information

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

C. CORPS SEATTLE DISTRICT REGIONAL GENERAL CONDITIONS

1. Aquatic Resources Requiring Special Protection. Activities resulting in a loss of waters of the United States in a mature forested wetland, bog, bog-like wetland, aspen-dominated wetland, alkali wetland, wetlands in a dunal system along the Washington coast, vernal pools, camas prairie wetlands, estuarine wetlands, and wetlands in coastal lagoons cannot be authorized by a NWP, except by the following NWPs:

NWP 3 – Maintenance
NWP 20 – Oil Spill Cleanup
NWP 32 – Completed Enforcement Actions
NWP 38 – Cleanup of Hazardous and Toxic Waste

In order to use one of the above-referenced NWPs in any of the aquatic resources requiring special protection, you must submit a pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 31 (Pre-Construction Notification) and obtain written approval before commencing work.

2. Commencement Bay. The following NWPs may not be used to authorize activities located in the Commencement Bay Study Area (see Figure 1 at www.nws.usace.army.mil, select Regulatory Permits then Permit Guidebook, then Nationwide Permits) requiring Department of the Army authorization:

NWP 12 – Utility Line Activities (substations)
NWP 13 – Bank Stabilization
NWP 14 – Linear Transportation Projects
NWP 23 – Approved Categorical Exclusions
NWP 29 – Residential Developments
NWP 39 – Commercial and Institutional Developments
NWP 40 – Agricultural Activities
NWP 41 – Reshaping Existing Drainage Ditches
NWP 42 – Recreational Facilities
NWP 43 – Stormwater Management Facilities

3. New Bank Stabilization Prohibition Areas in Tidal Waters of Puget Sound. Activities involving new bank stabilization in tidal waters in Water Resource Inventory Areas (WRIAs) 8, 9, 10, 11, and 12 (within

the specific area identified on Figure 2 at www.nws.usace.army.mil, select Regulatory Permits then Permit Guidebook, then Nationwide Permits) cannot be authorized by a NWP.

4. Bank Stabilization. Any project including new or maintenance bank stabilization activities requires pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 31 for Pre-Construction Notification. This requirement does not apply to maintenance work exempt by [33 CFR 323.4 \(a\)\(2\)](#). Each notification must also include the following information:

a. Need for the work, including the cause of the erosion and the threat posed to structures, infrastructure, and/or public safety. The notification must also include a justification for the need to place fill or structures waterward of the line of the Corps' jurisdiction (typically, the ordinary high water mark or mean higher high water mark).

b. Current and expected post-project sediment movement and deposition patterns in and near the project area. In tidal waters, describe the location and size of the nearest bluff sediment sources (feeder bluffs) to the project area and current and expected post-project nearshore drift patterns in the project area.

c. Current and expected post-project habitat conditions, including the presence of fish, wildlife and plant species, submerged aquatic vegetation, spawning habitat, and special aquatic sites (e.g., vegetated shallows, riffle and pool complexes, or mudflats) in the project area.

d. In rivers and streams, an assessment of the likely impact of the proposed work on upstream, downstream and cross-stream properties (at a minimum the area assessed should extend from the nearest upstream bend to the nearest downstream bend of the watercourse). Discuss the methodology used for determining effects. The Corps reserves the right to request an increase in the reach assessment area to fully address the relevant ecological reach and associated habitat.

e. For new bank stabilization activities in rivers and streams, describe the type and length of existing bank stabilization within 300 feet up and downstream of the project area. In tidal areas, describe the type and length of existing bank stabilization within 300 feet along the shoreline on both sides of the project area.

f. Demonstrate the proposed project incorporates the least environmentally damaging practicable bank protection methods. These methods include, but are not limited to, the use of bioengineering, biotechnical design, root wads, large woody material, native plantings, and beach nourishment in certain circumstances. If rock must be used due to site erosion conditions, explain how the bank stabilization structure incorporates elements beneficial to fish. If the Corps determines you have not incorporated the least environmentally damaging practicable bank protection methods and/or have not fully compensated for impacts to aquatic resources, you must submit a compensatory mitigation plan to compensate for impacts to aquatic resources.

g. A planting plan using native riparian plant species unless the applicant demonstrates a planting plan is not appropriate or not practicable.

5. Crossings of Waters of the United States. Any project including installing, replacing, or modifying crossings of waters of the United States, such as culverts, requires pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 31 for Pre-Construction Notification. This requirement does not apply to maintenance work exempt by [33 CFR 323.4 \(a\)\(2\)](#). Each notification must also include the following information:

- a. Need for the crossing.
- b. Crossing design criteria and design methodology.
- c. Rationale behind using the specific design method for the crossing.

6. Cultural Resources and Human Burials. Permittees must immediately stop work and notify the District Engineer within 24 hours if, during the course of conducting authorized work, human burials, cultural resources, or historic properties, as identified by the National Historic Preservation Act, are discovered. Failure to stop work in the area of discovery until the Corps can comply with the provisions of 33 CFR 325 Appendix C, the National Historic Preservation Act, and other pertinent laws and regulations could result in a violation of state and federal laws. Violators are subject to civil and criminal penalties.

7. Essential Fish Habitat. An activity which may adversely affect essential fish habitat, as identified under the Magnuson-Stevens Fishery Conservation and Management Act (MSA), may not be authorized by NWP until essential fish habitat requirements have been met by the applicant and the Corps. Non-federal permittees shall notify the District Engineer if essential fish habitat may be affected by, or is in the vicinity of, a proposed activity and shall not begin work until notified by the District Engineer that the requirements of the essential fish habitat provisions of the MSA have been satisfied and the activity is authorized. The notification must identify the type(s) of essential fish habitat (e.g., Pacific salmon, groundfish, and/or coastal-pelagic species) managed by a Fishery Management Plan that may be affected. Information about essential fish habitat is available at www.nwr.noaa.gov/.

8. Vegetation Protection and Restoration. Permittees must clearly mark all construction area boundaries before beginning work. The removal of native vegetation in riparian areas and wetlands, and the removal of submerged aquatic vegetation in estuarine and tidal areas must be avoided and minimized to the maximum extent practicable. Areas subject to temporary vegetation removal shall be replanted with appropriate native species by the end of the first planting season following the disturbance except as waived by the District Engineer. If an aquaculture area is permitted to impact submerged aquatic vegetation under NWP 48, the aquaculture area does not need to be replanted with submerged aquatic vegetation.

9. Access. You must allow representatives of this office to inspect the authorized activity at any time deemed necessary to ensure the work is being, or has been, accomplished in accordance with the terms and conditions of your permit.

10. Contractor Notification of Permit Requirements. The permittee must provide a copy of the nationwide permit verification letter, conditions, and permit drawings to all contractors involved with the authorized work, prior to the commencement of any work in waters of the U.S.

D. CORPS REGIONAL SPECIFIC CONDITIONS FOR THIS NWP

1. For projects subject to pre-construction notification, the notification must explain why the loss is necessary and show how it would be fully offset by the beneficial impacts of the project. The notification must describe pre-project site conditions (including photographs), general wetland and other aquatic functions the site provides, benefits anticipated from project construction, and proposed maintenance and monitoring plans.

2. The permittee must submit a pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 31 (Pre-Construction Notification) for any proposed project located

in a Department of the Army permit compensatory mitigation site, Comprehensive Environmental Response, Compensation and Liability Act (Superfund) site, Resource Conservation and Recovery Act hazardous waste clean-up site, or Washington State Model Toxics Control Act clean-up site.

E. STATE 401 CERTIFICATION GENERAL CONDITIONS:

1. **For in-water construction activities.** Individual 401 review is required for projects or activities authorized under NWP that will cause, or be likely to cause or contribute to an exceedence of a State water quality standard (WAC 173-201A) or sediment management standard (WAC 173-204).

Note: State water quality standards are posted on Ecology's website:

<http://www.ecy.wa.gov/programs/wq/swqs/>. Click "Surface Water Criteria" for freshwater and marine water standards. Sediment management standards are posted on Ecology's website: <http://www.ecy.wa.gov/biblio/wac173204.html>. Information is also available by contacting Ecology's Federal Permit staff.

2. **Projects or Activities Discharging to Impaired Waters.** Individual 401 review is required for projects or activities authorized under NWP if the project or activity will occur in a 303(d) listed segment of a waterbody or upstream of a listed segment and may result in further exceedences of the specific listed parameter.

Note: To determine if your project or activity is in a 303(d) listed segment of a waterbody, visit Ecology's Water Quality Assessment webpage for maps and search tools,

<http://www.ecy.wa.gov/programs/wq/303d/2008/>. Information is also available by contacting Ecology's Federal Permit staff.

3. **Notification.** For projects or activities that will require Individual 401 review, applicants must provide Ecology with the same documentation provided to the Corps (as described in Corps Nationwide Permit General Condition 31, Pre-Construction Notification), including, when applicable:

- (a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, and any other Department of the Army permits used or intended to be used to authorize any part of the proposed project or any related activity.
- (b) Delineation of special aquatic sites and other waters of the United States. Wetland delineations must be prepared in accordance with the current method required by the Corps and shall include Ecology's Wetland Rating form. Wetland rating forms are subject to review and verification by Ecology staff.

Note: Wetland rating forms are available on Ecology's Wetlands website:

<http://www.ecy.wa.gov/programs/sea/wetlands/ratingsystems> or by contacting Ecology's Federal Permit staff.

- (c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted.

Mitigation plans submitted for Ecology review and approval shall be based on the guidance provided in Wetland Mitigation in Washington State, Parts 1 and 2 (Ecology Publications #06-06-011a and #06-06-011b).

- (d) Coastal Zone Management Program “Certification of Consistency” Form if the project is located within a coastal county (Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum, and Whatcom counties).

Note: CZM Certification of Consistency forms are available on Ecology’s Federal Permit website: <http://www.ecy.wa.gov/programs/sea/fed-permit/index.html> or by contacting Ecology’s Federal Permit staff.

- (e) Other applicable requirements of Corps Nationwide Permit General Condition 31, Corps Regional Conditions, or notification conditions of the applicable NWP.

Note: Ecology has 180 days from receipt of applicable documents noted above and a copy of the final authorization letter from the Corps providing coverage for a proposed project or activity under the NWP Program to issue a WQC and CZM consistency determination response. If more than 180 days pass after Ecology’s receipt of these documents, your requirement to obtain an individual WQC and CZM consistency determination response becomes waived.

4. **Aquatic resources requiring special protection.** Certain aquatic resources are unique, difficult-to-replace components of the aquatic environment in Washington State. Activities that would affect these resources must be avoided to the greatest extent possible. Compensating for adverse impacts to high value aquatic resources is typically difficult, prohibitively expensive, and may not be possible in some landscape settings.

Individual 401 review is required for activities in or affecting the following aquatic resources (and not prohibited by Regional Condition 1):

- (a) Wetlands with special characteristics (as defined in the Washington State Wetland Rating Systems for western and eastern Washington, Ecology Publications #04-06-025 and #04-06-015):
- Estuarine wetlands
 - Natural Heritage wetlands
 - Bogs
 - Old-growth and mature forested wetlands
 - Wetlands in coastal lagoons
 - Interdunal wetlands
 - Vernal pools
 - Alkali wetlands
- (b) Fens, aspen-dominated wetlands, camas prairie wetlands, and marine water with eelgrass (*Zostera marina*) beds (except for NWP 48).
- (c) Category 1 wetlands
- (d) Category II wetlands with a habitat score ≥ 29 points. This State General Condition does not apply to the following Nationwide Permits:

NWP 20 – Response Operations for Oil and Hazardous Substances
NWP 32 – Completed Enforcement Actions

- 5. Mitigation.** For projects requiring Individual 401 review, adequate compensatory mitigation must be provided for wetland and other water quality-related impacts of projects or activities authorized under the NWP Program.
- (a) Mitigation plans submitted for Ecology review and approval shall be based on the guidance provided in Wetland Mitigation in Washington State, Parts 1 and 2 (Ecology Publications #06-06-011a and #06-06-011b) and shall, at a minimum, include the following:
- i. A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.
 - ii. The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded)
 - iii. The rationale for the mitigation site that was selected
 - iv. The goals and objectives of the compensatory mitigation project
 - v. How the mitigation project will be accomplished, including construction sequencing, best management practices to protect water quality, proposed performance standards for measuring success and the proposed buffer widths
 - vi. How it will be maintained and monitored to assess progress towards goals and objectives. Monitoring will generally be required for a minimum of five years. For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.
 - vii. How the compensatory mitigation site will be legally protected for the long term.

Refer to Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Ecology Publication #06-06-011b) for guidance on developing mitigation plans.

Ecology encourages the use of alternative mitigation approaches, including advance mitigation and other programmatic approaches such as mitigation banks and programmatic mitigation areas at the local level. If you are interested in proposing use of an alternative mitigation approach, consult with the appropriate Ecology regional staff person. (see <http://www.ecy.wa.gov/programs/sea/wetlands/contacts.htm>)

Information on the state wetland mitigation banking program is available on Ecology’s website: <http://www.ecy.wa.gov/programs/sea/wetlands/mitigation/banking/index.html>

- 6. Temporary Fills.** Individual 401 review is required for any project or activity with temporary fill in wetlands or other waters of the State for more than 90 days, unless the applicant has received written approval from Ecology.

Note: This State General Condition does not apply to projects or activities authorized under NWP 33, Temporary Construction, Access, and Dewatering

- 7. Stormwater discharge pollution prevention:** All projects that involve land disturbance or impervious surfaces must implement prevention or control measures to avoid discharge of pollutants in stormwater runoff to waters of the state. For land disturbances during construction, the permittee must obtain and implement permits where required and follow Ecology’s current stormwater manual.

Note: Stormwater permit information is available at Ecology’s Water Quality website: <http://www.ecy.wa.gov/programs/wq/stormwater/index.html>. Ecology’s Stormwater Management and Design Manuals are available at: <http://www.ecy.wa.gov/programs/wq/stormwater/municipal/StrmwtrMan.html>. Information is also available by contacting Ecology’s Federal Permit staff.

8. State Certification for PCNs not receiving 45-day response. In the event the U.S. Army Corps of Engineers does not respond to a complete pre-construction notification within 45 days, the applicant must contact Ecology for Individual 401 review.

F. STATE 401 CERTIFICATION SPECIFIC CONDITIONS FOR THIS NWP: Certified subject to conditions. Permittee must meet [Ecology 401 General Conditions](#). Individual 401 review is required for projects or activities authorized under this NWP if:

1. The project or activity involves fill in tidal waters.
2. The project or activity affects ½ acre or more of wetlands.

G. EPA 401 CERTIFICATION GENERAL CONDITIONS:

A. Any activities in the following types of wetlands and waters of the United States will need to apply for an individual 401 certification: Mature forested wetlands, bogs, bog-like wetlands, wetlands in dunal systems along the Washington coast, coastal lagoons, vernal pools, aspen-dominated wetlands, alkali wetlands, camas prairie wetlands, estuarine wetlands, including salt marshes, and marine waters with eelgrass or kelp beds.

B. A 401 certification determination is based on the project or activity meeting established turbidity levels. The EPA will be using as guidance the state of Washington’s water quality standards [WAC 173-201a] and sediment quality standards [WAC 173-204]. Projects or activities that are expected to exceed these levels or that do exceed these levels will require an individual 401 certification.

The water quality standards allow for short-term turbidity exceedances after all necessary Best Management Practices have been implemented (e.g., properly placed and maintained filter fences, hay bales and/or other erosion control devices, adequate detention of runoff to prevent turbid water from flowing off-site, providing a vegetated buffer between the activity and open water, etc.), and only up to the following limits:

Wetted Stream Width at Discharge Point	Approximate Downstream Point for Determining Compliance
Up to 30 feet	50 feet
>30 to 100 feet	100 feet
>100 feet to 200 feet	200 feet
>200 feet	300 feet
LAKE, POND, RESERVOIR	Lesser of 100 feet or maximum surface dimension

C. 401 certification of projects and activities under NWPs will use Washington State Department of Ecology’s most recent stormwater manual or an EPA approved equivalent manual as guidance in meeting water quality standards.

D. For projects and activities requiring coverage under an NPDES permit, certification is based on compliance with the requirements of that permit. Projects and activities not in compliance with NPDES requirements will require individual 401 certification.

E. Individual 401 certification is required for projects or activities authorized under NWP's if the project will discharge to a waterbody on the list of impaired waterbodies (the 303(d) List) and the discharge may result in further exceedance of a specific parameter the waterbody is listed for. The EPA shall make this determination on a case-by-case basis.

For projects or activities that will discharge to a 303(d)-listed waterbody that does not have an approved Total Maximum Daily Load (TMDL) or an approved water quality management plan, the applicant must provide documentation for EPA approval showing that the discharge will not result in further exceedance of the listed contaminant or impairment.

For projects or activities that will discharge to a 303(d)-listed waterbody that does not have an approved TMDL, the applicant must provide documentation for EPA approval showing that the discharge is within the limits established in the TMDL. The current list of 303(d)-listed waterbodies in Washington State will be consulted in making this determination and is available on Ecology's web site at: www.ecy.wa.gov/programs/wq/303d/2012/index.html

The EPA may issue 401 certification for projects or activities that would result in further exceedance or impairment if mitigation is provided that would result in a net decrease in listed contaminants or less impairment in the waterbody. This determination would be made during individual 401 certification review.

F. For projects requiring individual 401 certification, applicants must provide the EPA with the same documentation provided to the Corps, (as described in Corps' National General Condition 31, Pre-Construction Notification), including, when applicable:

- (a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, any other U.S. Department of the Army permits used or intended to use to authorize any part of the proposed project or any related activity.
- (b) Delineation of special aquatic sites and other waters of the United States. Wetland delineations must be prepared in accordance with the current method required by the Corps.
- (c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted.
- (d) Other applicable requirements of Corps National General Condition 31, Corps Regional Conditions, or notification conditions of the applicable NWP.

A request for individual 401 certification- review is not complete until the EPA receives the applicable documents noted above and the EPA has received a copy of the final authorization letter from the Corps providing coverage for a proposed project or activity under the NWP Program.

G. No activity, including structures and work in navigable waters of the United States or discharges of dredged or fill material, may consist of unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.) and material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

H. An individual 401 certification is based on adequate compensatory mitigation being provided for aquatic resource and other water quality-related impacts of projects or activities authorized under the NWP Program.

A 401 certification is contingent upon written approval from the EPA of the compensatory mitigation plan for projects and activities resulting in any of the following:

- impacts to any aquatic resources requiring special protection (as defined in EPA General Condition A or Corps General Regional Condition 1)
- any impacts to tidal waters or non-tidal waters adjacent to tidal waters (applies to NWP 14)
- Or, any impacts to aquatic resources greater than ¼ acre.

Compensatory mitigation plans submitted to the EPA shall be based on the Joint Agency guidance provided in *Wetland Mitigation in Washington State, Parts 1 and 2* (Ecology Publication #06-06-011a and #06-06-011b) and shall, at a minimum, include the following:

- (1) A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.
- (2) The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded)
- (3) The rationale for the mitigation site that was selected
- (4) The goals and objectives of the compensatory mitigation project
- (5) How the mitigation project will be accomplished, including proposed performance standards for measuring success (including meeting planting success standard of 80 percent survival after five years), evidence for hydrology at the mitigation site, and the proposed buffer widths;
- (6) How it will be maintained and monitored to assess progress towards goals and objectives.
- (7) Completion and submittal of an “as-built conditions report” upon completion of grading, planting and hydrology establishment at the mitigation site;
- (8) Completion and submittal of monitoring reports at years 3 and 5 showing the results of monitoring for hydrology, vegetation types, and aerial cover of vegetation.
- (9) For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.
- (10) Documentation of legal site protection mechanism (covenant or deed restriction) to show how the compensatory mitigation site will be legally protected for the long-term.

I. An individual 401 certification is required for any activity where temporary fill will remain in wetlands or other waterbodies for more than 90 days. The 90 day period begins when filling activity starts in the wetland or other waterbody.

J. An individual 401 is required for any proposed project or activity in waterbodies on the most current list of the following Designated Critical Resource Waters (per Corps General Condition 22).

K. An individual 401 certification is required for any proposed project that would increase permanent, above-grade fill within the 100-year floodplain (including the floodway and the flood fringe).

[**Note:** The 100-year floodplain is defined as those areas identified as Zones A, A1-30, AE, AH, AO, A99, V, V1-30, and VE on the most current Federal Emergency Management Agency Flood Rate Insurance Maps, or areas identified as within the 100-year floodplain on applicable local Flood Management Program maps. The 100-year flood is also known as the flood with a 100-year recurrence interval, or as the flood with an exceedance probability of 0.01.]

H. EPA 401 CERTIFICATION SPECIFIC CONDITIONS FOR THIS NWP: Partially denied without prejudice. Permittee must meet [EPA 401 General Conditions](#). An individual 401 review is required for projects authorized under this NWP if:

1. The project or activities impact greater than ½ acre, or
2. Any activity in tidal wetlands or waters, or
3. Any project that involves shellfish seeding activities.

I. COASTAL ZONE MANAGEMENT CONSISTENCY RESPONSE FOR THIS NWP: Concur subject to the following condition: When individual 401 review by Ecology is triggered, a CZM Certification of Consistency form must be submitted for projects located within the 15 coastal counties (see State General 401 Condition 3 (Notification)).



HYDRAULIC PROJECT APPROVAL

Washington Department of
Fish & Wildlife
PO Box 43234
Olympia, WA 98504-3234
(360) 902-2200

Issued Date: June 20, 2016
Project End Date: September 30, 2018

Permit Number: 2016-5-72+01
FPA/Public Notice Number: N/A
Application ID: 7776

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Lewis County Public Works ATTENTION: Ann Weckback 2025 NE Kresky Ave Chehalis, WA 98532-2308	

Project Name: Scammon Creek Barrier Removal Project

Project Description: Lewis County Public Works will replace the existing double box culvert with a new bridge consisting of a geosynthetic reinforced soil (GRS) foundation and precast concrete deck. The proposed channel geometry incorporates a 14-ft channel bottom width and 2:1 side slopes to simulate Scammon Creek’s channel shape and provide a 25-ft wide channel at bankfull flows. At the time of construction a portion of Graf Rd will be closed. The staging area for the project will be located southeast of the project in an adjacent property owner’s field.

PROVISIONS

TIMING - PLANS - INVASIVE SPECIES CONTROL

- 1. TIMING LIMITATION:** You may begin the project on July 1, 2016 and you must complete the project by September 30, 2018. All work below the Ordinary High Water mark (OHW) must be constructed between July 1 and September 30. Work over the OHW for bridge installation may occur all year to the expiration of this permit.
- 2. APPROVED PLANS:** You must accomplish the work per plans and specifications submitted with the application and approved by the Washington Department of Fish and Wildlife, except as modified by this Hydraulic Project Approval. You must have a copy of these plans available on site during all phases of the project proposal.
- 3. INVASIVE SPECIES CONTROL:** Thoroughly clean all equipment and gear before arriving and leaving the job site to prevent the transport and introduction of aquatic invasive species. Properly dispose of any water and chemicals used to clean gear and equipment. You can find additional information in the Washington Department of Fish and Wildlife’s Invasive Species Management Protocols (November 2012), available online at <http://wdfw.wa.gov/publications/01490/wdfw01490.pdf>.

NOTIFICATION REQUIREMENTS

- 4. PRE- AND POST-CONSTRUCTION NOTIFICATION:** You, your agent, or contractor must contact the Washington Department of Fish and Wildlife by e-mail at HPAapplications@dfw.wa.gov; mail to Post Office Box 43234, Olympia, Washington 98504-3234; or fax to (360) 902-2946 at least three business days before starting work, and again within seven days after completing the work. The notification must include the permittee’s name, project location, starting date for work or date the work was completed, and the permit number. The Washington Department of Fish and Wildlife may conduct inspections during and after construction; however, the Washington Department of Fish and Wildlife will notify you or your agent before conducting the inspection.
- 5. PHOTOGRAPHS:** You, your agent, or contractor must take photographs of the job site before the work begins and after the work is completed. You must upload the photographs to the post-permit requirement page in the Aquatic Protection Permitting System (APPS) or mail them to Washington Department of Fish and Wildlife at Post Office Box 43234, Olympia, Washington 98504-3234 within 30-days after the work is completed.



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6. FISH KILL/ WATER QUALITY PROBLEM NOTIFICATION: If a fish kill occurs or fish are observed in distress at the job site, immediately stop all activities causing harm. Immediately notify the Washington Department of Fish and Wildlife of the problem. If the likely cause of the fish kill or fish distress is related to water quality, also notify the Washington Military Department Emergency Management Division at 1-800-258-5990. Activities related to the fish kill or fish distress must not resume until the Washington Department of Fish and Wildlife gives approval. The Washington Department of Fish and Wildlife may require additional measures to mitigate impacts.

STAGING, JOB SITE ACCESS, AND EQUIPMENT

7. Establish staging areas (used for equipment storage, vehicle storage, fueling, servicing, and hazardous material storage) in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.
8. Use existing roadways or travel paths.
9. Clearly mark boundaries to establish the limit of work associated with site access and construction.
10. Limit the removal of native bankline vegetation to the minimum amount needed to construct the project.
11. Retain all natural habitat features on the bed or banks including large woody material and boulders. You may move these natural habitat features during construction but you must place them near the preproject location before leaving the job site.
12. Remove soil or debris from the drive mechanisms (wheels, tires, tracks, etc.) and undercarriage of equipment prior to operating the equipment waterward of the ordinary high water line.
13. Check equipment daily for leaks and complete any required repairs in an upland location before using the equipment in or near the water.
14. Use environmentally acceptable lubricants composed of biodegradable base oils such as vegetable oils, synthetic esters, and polyalkylene glycols in equipment operated in or near the water.

CONSTRUCTION-RELATED SEDIMENT, EROSION AND POLLUTION CONTAINMENT

15. Protect all disturbed areas from erosion. Maintain erosion and sediment control until all work and cleanup of the job site is complete.
16. All erosion control materials that will remain onsite must be composed of 100% biodegradable materials.
17. Straw used for erosion and sediment control, must be certified free of noxious weeds and their seeds.
18. Stop all hydraulic project activities except those needed to control erosion and siltation, if flow conditions arise that will result in erosion or siltation of waters of the state.
19. Prevent project contaminants, such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials, from entering or leaching into waters of the state.
20. Deposit waste material from the project, such as construction debris, silt, excess dirt, or overburden, in an upland area above the limits of anticipated floodwater unless the material is approved by the Washington Department of Fish and Wildlife for reuse in the project.

CONSTRUCTION MATERIALS

21. Store all construction and deconstruction material in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state.
22. To prevent leaching, construct forms to contain any wet concrete. Place impervious material over wet concrete that will come in contact with waters of the state. Forms and impervious materials must remain in place until the concrete is cured.



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23. Do not use wood treated with oil-type preservatives (creosote, pentachlorophenol) in any hydraulic project. You may use wood treated with waterborne preservatives (ACZA, ACQ) provided the wood is approved by the Western Wood Preservers Institute for use in the aquatic environment. Any use of treated wood in the aquatic environment must follow guidelines and best management practices available at www.wwpinstitute.org.

FISH LIFE REMOVAL

24. All persons participating in capture and removal must have training, knowledge, and skills in the safe handling of fish life.

25. If electrofishing is conducted, a person with electrofishing training must be on-site to conduct or direct all electrofishing activities.

26. Capture and safely move fish life from the work area to the nearest suitable free-flowing water.

BRIDGE

27. Design and construct the bridge to pass water, ice, large wood, and associated woody material and sediment likely to move under the bridge during the 100-year flood flows.

28. Locate the waterward face of all bridge elements including abutments, piers, pilings, sills, foundations, aprons, wing walls, and approach material landward of the ordinary high water line.

29. If excavation or other construction activities take place waterward of the ordinary high water line, isolate the work area from the stream flow (if present) by using a cofferdam, bypass, or similar structure.

DEMOBILIZATION AND CLEANUP

30. Seed areas disturbed by construction activities with a native seed mix suitable for the site that has at least one quick-establishing plant species.

31. Remove temporary erosion and sediment control methods after job site is stabilized or within three months of project completion, whichever is sooner.

32. Upon completion of the project, remove all materials or equipment from the site and dispose of all excess spoils and waste materials in an upland area above the limits of anticipated floodwater.

IN-WATER WORK AREA ISOLATION USING A TEMPORARY BYPASS

33. Use the least-impacting feasible method to temporarily bypass water from the work area. Consider the physical characteristics of the site and the anticipated volume of water flowing through the work area.

34. Design the temporary bypass to minimize the length of the dewatered stream channel.

35. During all phases of bypass installation and decommissioning, maintain flows downstream of the project site to ensure survival of all downstream fish.

36. If the bypass is a pumped diversion, once started it must run continuously until it is no longer necessary to bypass flows. This requires back-up pumps on-site and twenty-four-hour monitoring for overnight operation.

37. If the diversion inlet is a pump diversion in a fish-bearing stream, the pump intake structure must have a fish screen installed, operated, and maintained in accordance with RCW 77.57.010 and 77.57.070. Screen the pump intake with one of the following:

- a) Perforated plate: 0.094 inch (maximum opening diameter);
- b) Profile bar: 0.069 inch (maximum width opening); or
- c) Woven wire: 0.087 inch (maximum opening in the narrow direction).

The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Maintain fish screens to prevent injury or entrapment of fish.

38. Isolate pump hose intakes with block nets so that fish cannot get near the intake.



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Application ID: 7776

LOCATION #1:	Site Name: Graf Road MP 1.01 MP 1.01 Graf Road, Centralia, WA 98531					
WORK START:	July 11, 2016			WORK END:	October 31, 2016	
<u>WRIA</u>	<u>Waterbody:</u>			<u>Tributary to:</u>		
23 - Upper Chehalis - Upstream of Porter	Scammon Creek			Chehalis River		
<u>1/4 SEC:</u>	<u>Section:</u>	<u>Township:</u>	<u>Range:</u>	<u>Latitude:</u>	<u>Longitude:</u>	<u>County:</u>
NE 1/4	13	14 N	03 W	46.706334	-122.993245	Lewis
<u>Location #1 Driving Directions</u>						
From I-5 take exit 81, Mellen Street, and travel west. Turn left onto Military Rd. Continue straight, Military Rd will become Graf Rd. Continue west 0.4 miles to the project site.						

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 unless this is a General HPA. If this is a General HPA you must use the Major Modification process described below. 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 did 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 APP ID 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 did 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 APP ID 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 if 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 may email your request for a major modification to HPAapplications@dfw.wa.gov, but must send a check or money order for payment by surface mail. 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.



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A. INFORMAL APPEALS: WAC 220-660-460 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 HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, 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 220-660-470 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 HPA Appeals Coordinator, Department of Fish and Wildlife, Habitat Program, 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 Scott.Brummer@dfw.wa.gov
Scott Brummer 360-785-0472

for Director
WDFW

Temporary Erosion and Sediment Control Plan

The Graf Road MP 1.01 (Scammon Creek RM 1.15) Barrier Removal Project involves the replacement of two existing culverts with a new bridge consisting of a geosynthetic reinforced soil (GRS) foundation and a precast concrete deck. As this project will not require coverage under the National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit (CSWGP) a formal Temporary Erosion and Sediment Control Plan has not been prepared for this project.

Lewis County is a member of the Regional Road Maintenance Endangered Species Act (ESA) Program. All roadway maintenance activities must utilize the best management practices outlined in the Regional Road Maintenance ESA Program Guidelines. Site specific BMPs which will be implemented as part of this project may include the following:

- Staking of project limits
- Installation of silt fence and/or high visibility silt fence
- Placement of sandbags or water bladders acting as a cofferdam to isolate the in-water work area
- Installation of biodegradable erosion control blanket
- In accordance with the temporary erosion control and sediment control (TESC) plan no soil will be left uncovered for more than 2 days during the wet season (October 1st to April 30th) or seven days during the dry season (May 1st to September 30th)
- Prior to project completion, exposed earth will be hydroseeded or covered with long term mulch.

Refer to the T.E.S.C. and Dewatering Plan sheet in the construction plans for locations of staging/stockpile areas and BMPs.

APPENDIX G

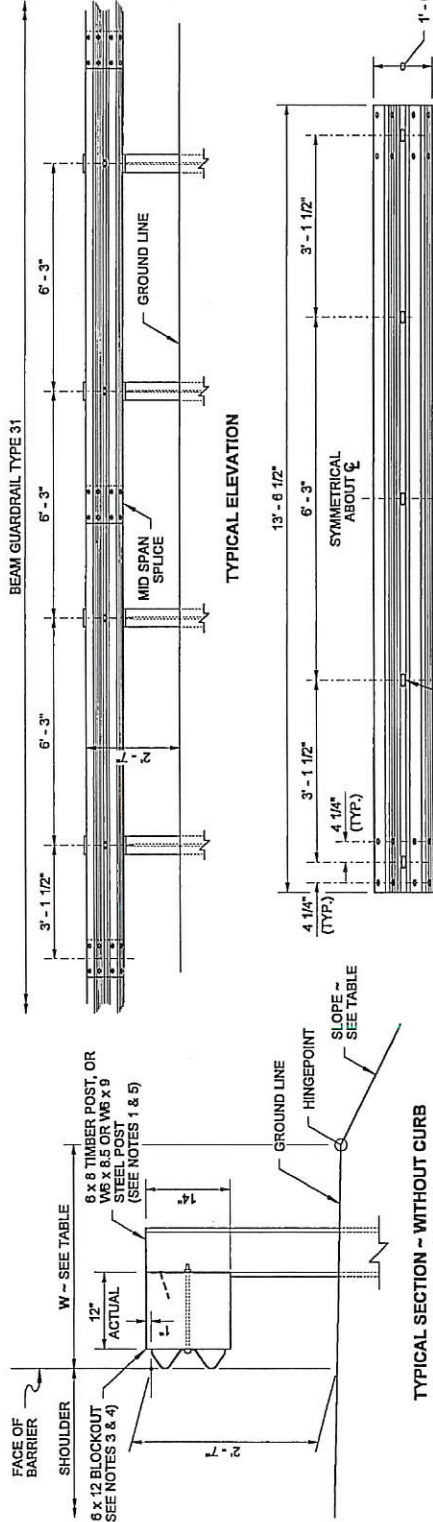
STANDARD PLANS

CONTRACT PLANS

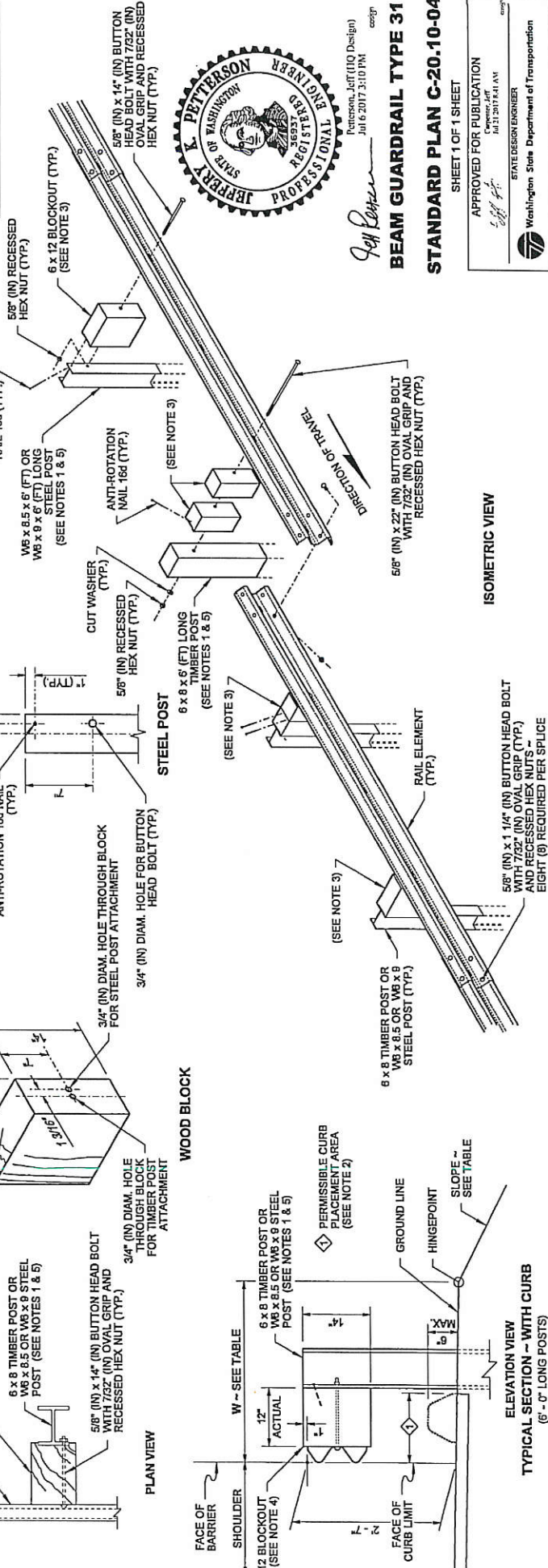
BEAM GUARDRAIL TYPE 31

NOTES

1. Refer to Standard Plan C-1b and C-20.11 for additional details not shown on this plan.
2. Extend shoulder pavement to provide a base for the extruded curb. See Contract Plans for exceptions to distances shown.
3. Use a single block or combination of blocks (no more than two (2) to achieve the actual 12" (in) offset. See Standard Specification Section 9-16.3(2). Wood blocks shall be secured to the posts with anti-rotation nails. If combination blocks are used, the adjacent blocks shall be toenailed with two 16d galvanized nails to prevent block rotation.
4. Wood blocks are shown. Blocks of an approved alternative material may be used. See Standard Specification Section 9-16.3(2).
5. All posts for any standard barrier run shall be of the same type: timber or steel.

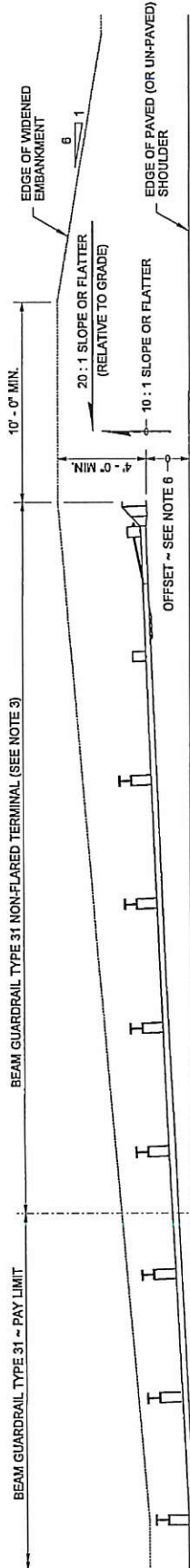


SLOPE \ EMBANKMENT TABLE		W (FT)
SLOPE		2.5 MIN.
2H : 1V OR FLATTER		4.0 MIN.
STEEPER THAN 2H : 1V BUT NOT STEEPER THAN 1H : 1V		



Jeffrey A. Peterson
 PROFESSIONAL ENGINEER
 STATE OF WASHINGTON
 No. 19527
 Exp. 12/31/2014
 Peterson, Jeff (110 Design)
 July 6 2017 3:10 PM
BEAM GUARDRAIL TYPE 31
STANDARD PLAN C-20.10-04

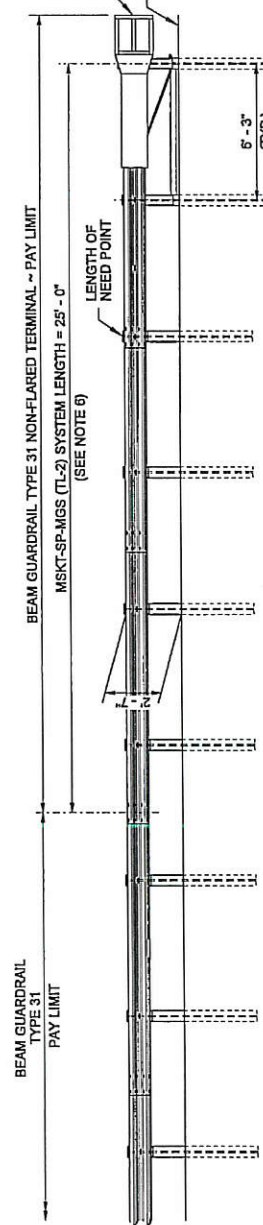
SHEET 1 OF 1 SHEET
 APPROVED FOR PUBLICATION
 5/28/17
 J.A.P.
 STATE DESIGN ENGINEER
 Washington State Department of Transportation



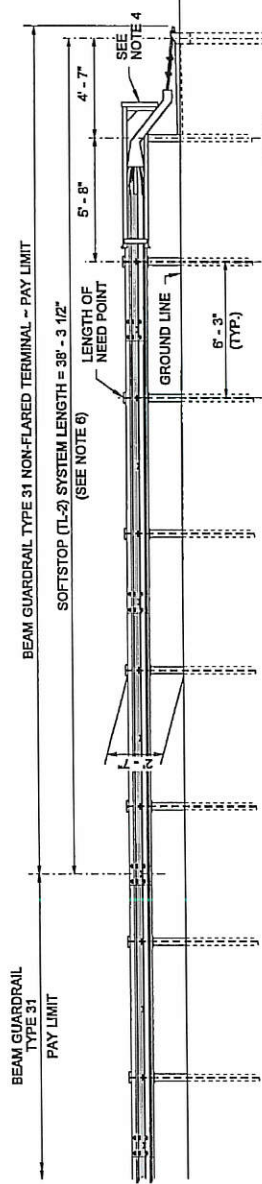
NOTES

1. The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
2. This terminal is MASH compliant at Test Level Two (TL-2) and may be used in applications with posted speeds of 45 mph or less.
3. An MSKT-SP-MGS (TL-2) as manufactured by Road Systems, Inc. or SOFTSTOP (TL-2), as manufactured by Trinity Highway Products, LLC shall be installed according to manufacturer's recommendations.
4. A reflectorized object marker shall be installed according to manufacturer's recommendations.
5. When snow load post washers and snow load rail washers are required by the Contract, the snow load rail washers shall not be installed within the terminal limits.
6. Terminal shall be installed at a widening, ensuring the end piece is entirely off the shoulder. While this terminal does not require an offset at the end, a flare is recommended. For the MSKT-SP-MGS (TL-2), a maximum flare of 25 : 1 or flatter over the length of the terminal is allowed with a maximum offset of 24' (ft) over 50' (ft).
7. For the SOFTSTOP (TL-2) a maximum flare of 38.29 : 1 or flatter is allowed over the system length of 38' - 3 1/2" with a maximum offset of 12' (ft) at the anchor post.
8. For terminal details, see WSDOT approved manufacturer's drawings. These terminals are supplied with steel posts only. They can be used with guardrail runs composed of steel or wood guardrail or wood guardrail posts.

PLAN VIEW
 (MSKT-SP-MGS (TL-2) SHOWN)



ELEVATION VIEW
 MSKT-SP-MGS (TL-2)
 (SEE NOTE 6)



ELEVATION VIEW
 SOFTSTOP (TL-2)
 (SEE NOTE 6)



JEFF PETERSON
 PROFESSIONAL ENGINEER
 STATE OF WASHINGTON
 License No. 16167
 July 16, 2017 3:14 PM

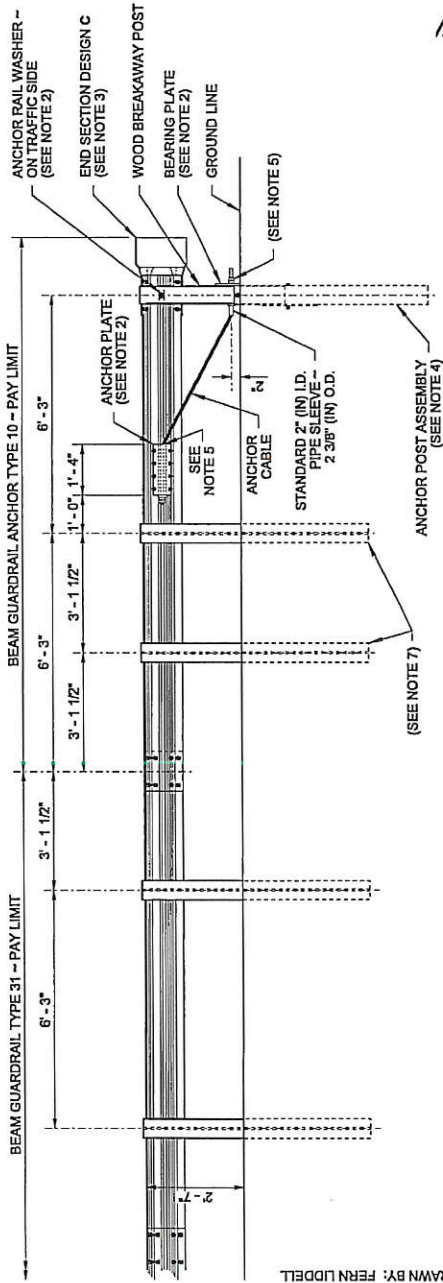
JEFF PETERSON
 BEAM GUARDRAIL TYPE 31
 NON-FLARED TERMINAL
 (POSTED SPEED
 45 MPH AND BELOW)
 STANDARD PLAN C-22-45-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
 JUL 21 2017 8:23 AM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

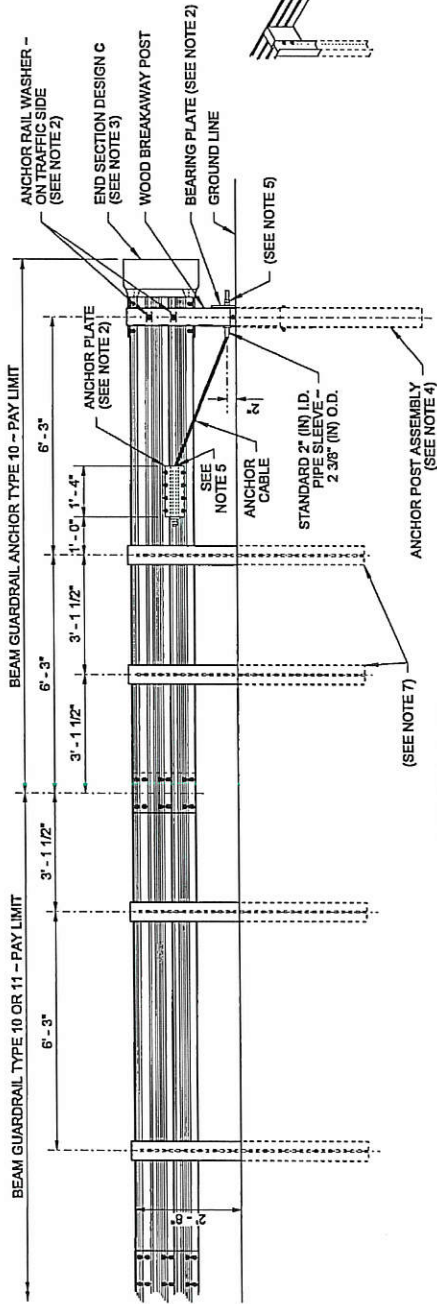
NOTES

1. For use on the end of guardrail runs when a crashworthy terminal is not required.
2. For additional details not shown, see Sheet 2 of this Plan.
3. For end section details, see Standard Plans C-7 and C-7a.
4. Use details for Wood Breakaway post shown on this plan and components shown on Standard Plan C-1b.
5. Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.
6. Wood blocks shown. Blocks of alternate material may be used. See Standard Specification, Section 9-16.3(2).
7. Posts shall match those of the connecting run; timber or steel.
8. Anchor plate may be constructed from 1/4" (in) plates welded to equal strength and dimensions as shown.
9. Eight 5/8" (in) x 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.

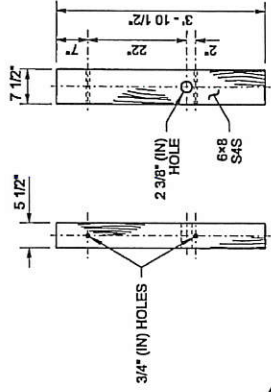


**ELEVATION VIEW
W-BEAM**

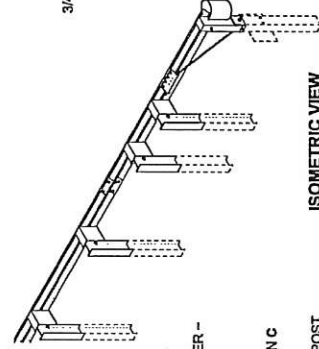
DRAWN BY: FERN LIDDELL



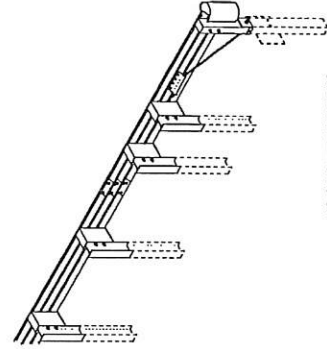
**ELEVATION VIEW
THRIE BEAM**



**WOOD BREAKAWAY
POST DETAIL**



ISOMETRIC VIEW



ISOMETRIC VIEW



Jeff Peterson
Peterson, Jeff (110 Design)
Jul 6 2017 3:15 PM
ceeg

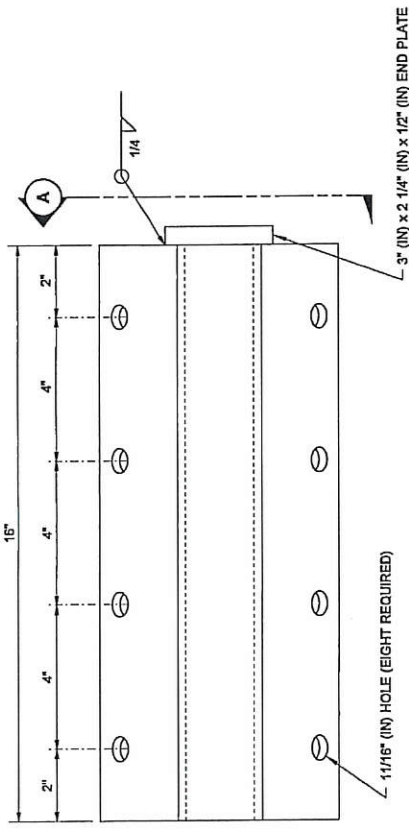
**BEAM GUARDRAIL (TYPE 31)
ANCHOR TYPE 10**

STANDARD PLAN C-23.60-04

SHEET 1 OF 2 SHEETS

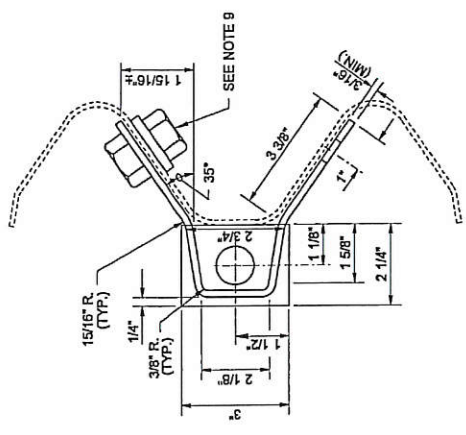
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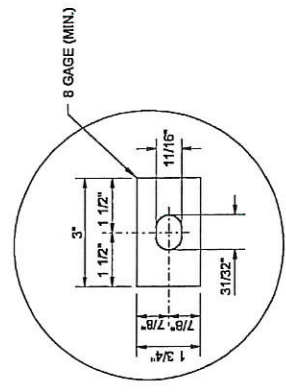


ELEVATION

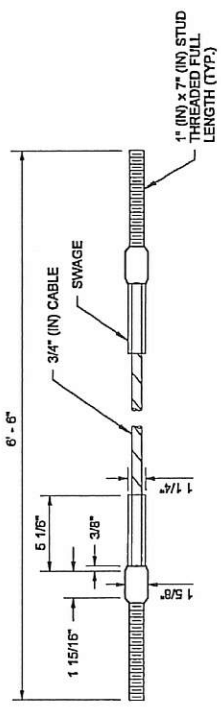
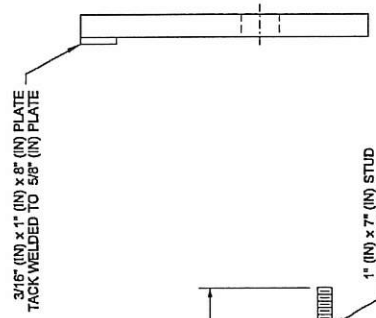
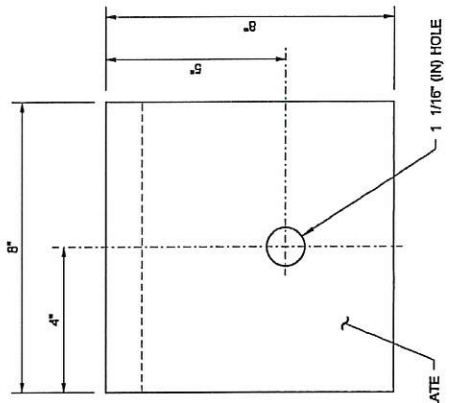
ANCHOR PLATE
(SEE NOTE 8)



SECTION A



ANCHOR RAIL WASHER



Jeff Petersen
 Petersen, Jeff (HQ Design)
 Engineer, PE
 Jul 6 2017 3:15 PM
 0000

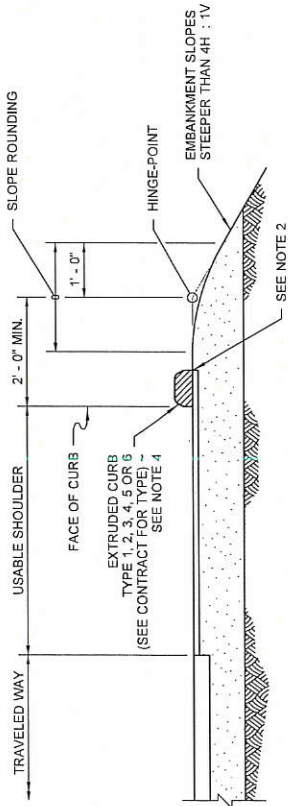
**BEAM GUARDRAIL (TYPE 31)
 ANCHOR TYPE 10**
STANDARD PLAN C-23.60-04

SHEET 2 OF 2 SHEETS

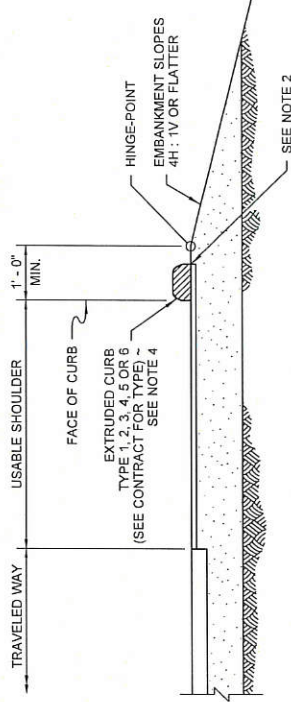
APPROVED FOR PUBLICATION
Jeff Petersen
 STATE DESIGN ENGINEER
 No. 39053
 Washington State Department of Transportation

NOTES

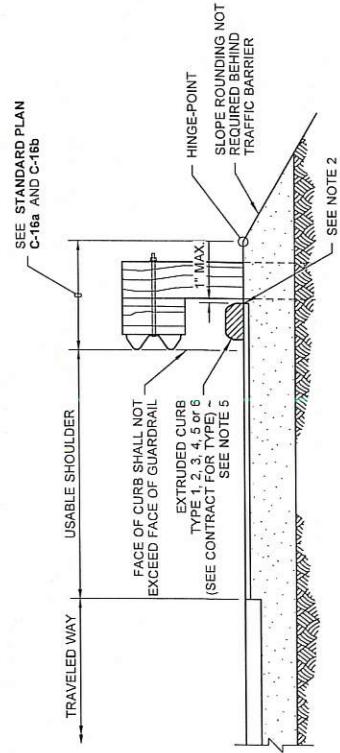
1. The installation of curb in areas with existing guardrail could require the removal and resetting of the guardrail or its components.
2. Extend shoulder pavement to provide a base for the extruded curb.
3. See Contract for exception to distances shown.
4. Type 3 and 6 curbs are not used on roadways with a posted speed greater than 40 mph.
5. Type 3 and 6 are not used under beam guardrail on roadways with a posted speed greater than 50 mph.
6. For extruded curb placement at Beam Guardrail Type 31, See **Standard Plan C-20-10**.
7. For extruded curb details, See **Standard Plan F-10.42**.



EXTRUDED CURB WITH SLOPE ROUNDING



EXTRUDED CURB WITHOUT SLOPE ROUNDING



EXTRUDED CURB AT BEAM GUARDRAIL



Scott Zeller
 Jun 24, 2016 7:18 AM
 28680

**EXTRUDED CURB
 PLACEMENT**

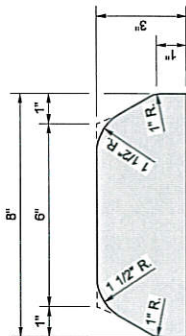
STANDARD PLAN F-10.40-03

SHEET 1 OF 1 SHEET

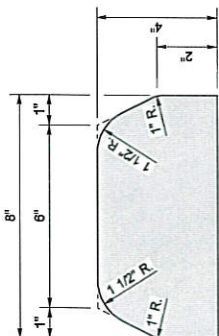
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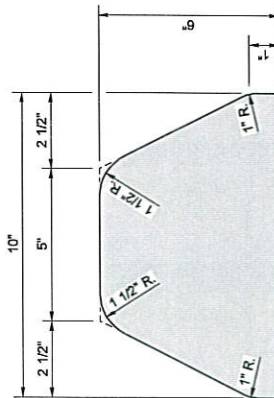
Washington State Department of Transportation



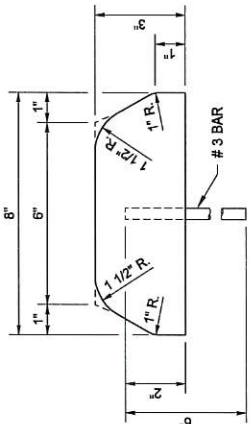
TYPE 1
(HOT MIX ASPHALT)



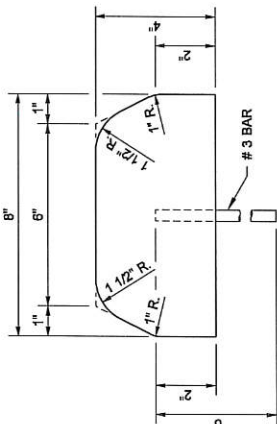
TYPE 2
(HOT MIX ASPHALT)



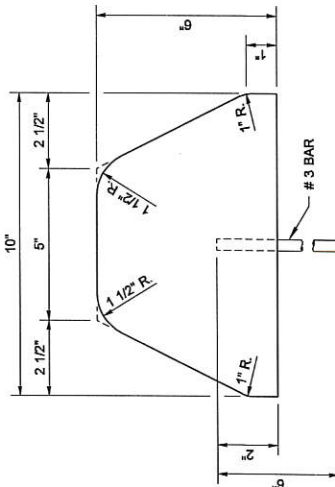
TYPE 3
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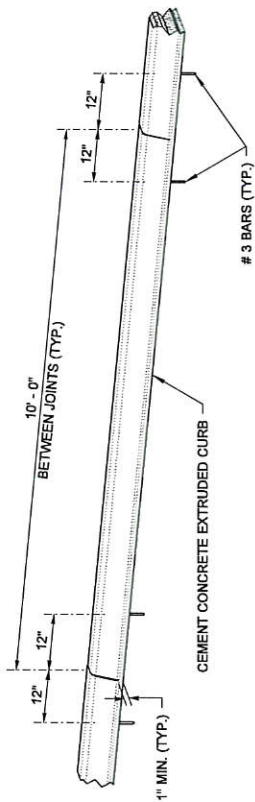
TYPE 4
(CEMENT CONCRETE)



TYPE 5
(CEMENT CONCRETE)

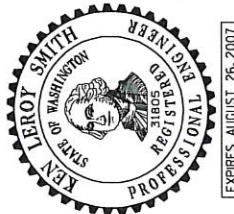


TYPE 6
(CEMENT CONCRETE)



SPACING OF ANCHOR BARS
(FOR TYPES 4, 5, AND 6)

NOTE
JOINTS MAY BE FORMED DURING INSTALLATION USING A RIGID DIVIDER OR SAWCUT AFTER CONCRETE CURES TO MINIMUM STRENGTH.



EXTRUDED CURB

STANDARD PLAN F-10-42-00

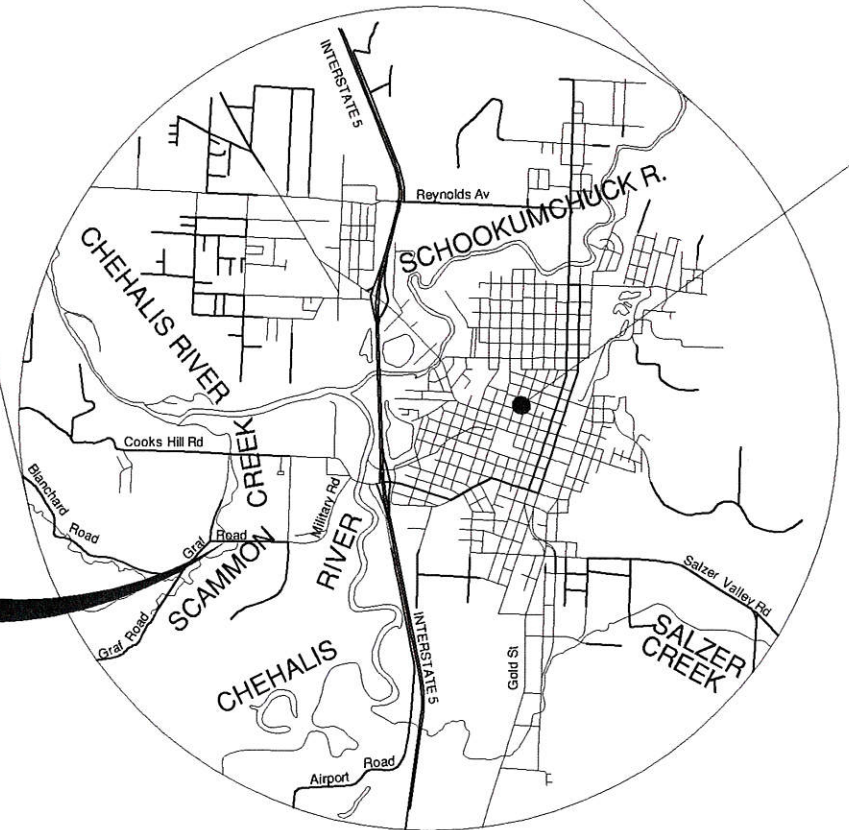
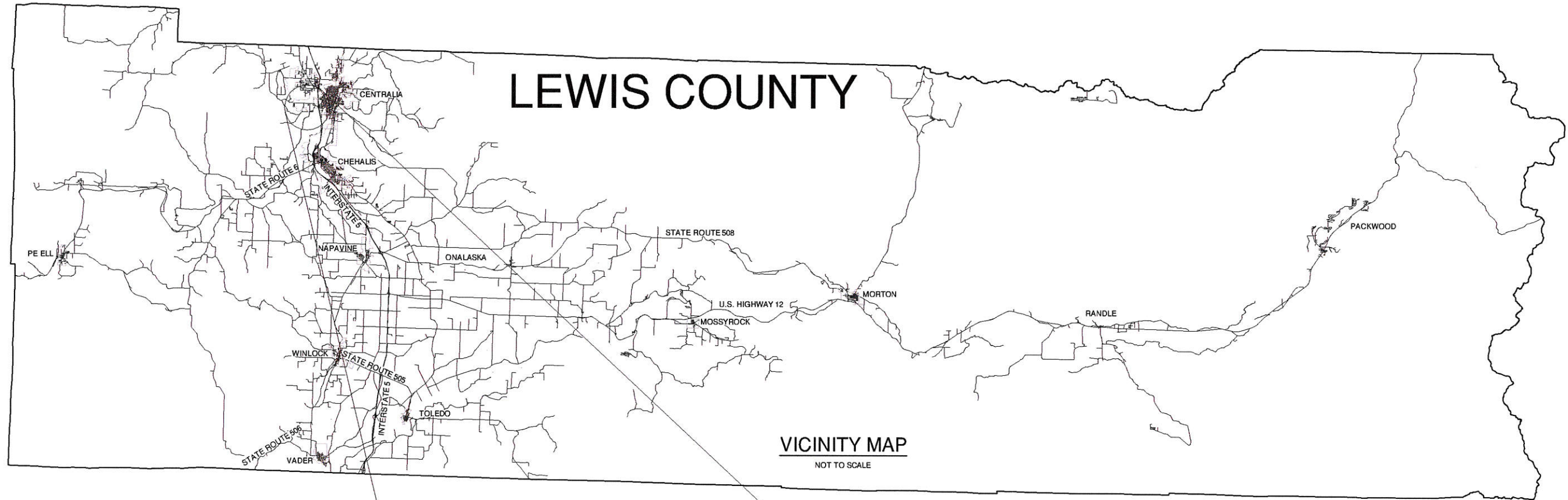
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Ken L. Smith
 STATE DESIGN ENGINEER
 DATE 01-23-07
 Washington State Department of Transportation

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS APPROVED FOR PUBLICATION IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

GRAF ROAD M.P. 1.01 BARRIER REMOVAL PROJECT - CMP 1531

(SCAMMON CREEK RM 1.15 BARRIER REMOVAL, WCRI PROJECT: 14-1267)



PROJECT LOCATION
GRAF RD M.P. 1.01

CITY OF
CENTRALIA

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:
[Signature] 1-8-18
County Engineer Date

COMMISSIONERS:
EDNA FUND, DISTRICT 1
ROBERT C. JACKSON, DISTRICT 2
GARY STAMPER, DISTRICT 3



**ENGINEERING-
DESIGN SECTION**

SHEET INDEX	
NO.	DESCRIPTION
1	VICINITY MAP AND SHEET INDEX
2	SUMMARY OF QUANTITIES
3	LEGEND
4	T.E.S.C. AND TEMPORARY STREAM DIVERSION PLAN
5	STRUCTURAL EARTH WALL EXCAVATION PLAN AND PROFILE
6	STRUCTURAL EARTH WALL PLAN AND PROFILE
7	STRUCTURAL EARTH WALL AND BRIDGE DETAILS
8	ROAD PLAN AND PROFILE
9	ROAD DETAILS
10	GUARDRAIL PLAN
11	STREAM PLAN AND PROFILE
12	STREAM CROSS SECTIONS
13	LARGE WOODY DEBRIS DETAILS
14	PLANTING PLAN AND DETAILS
15	RIGHT OF WAY MAP
16	TRAFFIC CONTROL PLAN

SEC. 13 TWP. 14N. RNG. 3W. W.M.

LAND LINES ARE APPROXIMATE

ITEM NUMBER	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0025	CLEARING AND GRUBBING	0.32	ACRE
3	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
GRADING				
4	0310	ROADWAY EXCAVATION INCL. HAUL	105	C.Y.
5	4006	STRUCTURE EXCAVATION CLASS A INCL. HAUL	3650	C.Y.
6	S.P.	TEMPORARY ACCESS ROAD	LUMP SUM	LUMP SUM
DRAINAGE				
7	1093	STREAMBED MIX	280	TON
8	S.P.	ROCK/SOIL MIX	450	C.Y.
9	S.P.	ROCK FOR EROSION AND SCOUR PROTECTION CLASS B	700	TON
10	3075	TEMPORARY STREAM DIVERSION	LUMP SUM	LUMP SUM
BRIDGE				
11	7169	STRUCTURAL EARTH WALL	3720	S.F.
12	7568	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	1547	C.Y.
13	4300	SUPERSTRUCTURE - GRAF ROAD MP 1.01 BRIDGE	LUMP SUM	LUMP SUM
SURFACING				
14	5100	CRUSHED SURFACING BASE COURSE	790	TON
15	5120	CRUSHED SURFACING TOP COURSE	225	TON
16	S.P.	SHOULDER FINISHING	30	TON
HOT MIX ASPHALT				
17	5767	HMA CL. 3/8 IN. PG 64-22	244	TON
18	5874	HMA FOR APPROACH CL. 3/8 IN. PG 64-22	10	TON
EROSION CONTROL AND ROADSIDE PLANTING				
19	6490	EROSION/WATER POLLUTION CONTROL	CALCULATED	CALCULATED
20	S.P.	LARGE WOODY DEBRIS	4	EACH
21	S.P.	STREAMSIDE MITIGATION PLANTING	LUMP SUM	LUMP SUM
22	6403	ESC LEAD	15	DAY
23	6414	SEEDING AND MULCHING	0.5	ACRE
24	6468	STABILIZED CONSTRUCTION ENTRANCE	150	S.Y.
25	6630	HIGH VISIBILITY FENCE	350	L.F.
26	6635	HIGH VISIBILITY SILT FENCE	530	L.F.
27	6455	BIODEGRADABLE EROSION CONTROL BLANKET	708	S.Y.
TRAFFIC				
28	6719	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	2	EACH
29	6727	EXTRUDED CURB (TYPE 2 OR 5)	275	L.F.
30	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
31	6757	BEAM GUARDRAIL TYPE 31	130	L.F.
32	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
OTHER ITEMS				
33	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
34	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	ESTIMATE	DOLLAR
35	7728	MINOR CHANGE	CALCULATED	CALCULATED
36	7736	SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN	LUMP SUM	LUMP SUM

Lewis County
 Department of Public Works
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : RTL
 DRAWN BY : WSR
 CHECKED BY :
 DATE : 01/08/2018

NO.	DATE	REVISION	BY	APP.

**GRAF ROAD MP 1.01
 CULVERT REPLACEMENT**

COUNTY MAINTENANCE PROJECT NO: 1531
SUMMARY OF QUANTITIES

SHEET
2 OF **16**












Rodney Troy Lakey, P.E.
 Senior Engineer
 Design/ENV.
 Date: Jan 8, 2018





LEGEND














EXISTING FEATURES

-  CONIFER TREE
-  DECIDUOUS TREE
-  EDGE OF ROAD
-  SHOULDER
-  DITCH
-  EDGE OF STREAM
-  EXISTING CULVERT
-  INDEX CONTOUR LINES
-  CONTOUR LINES

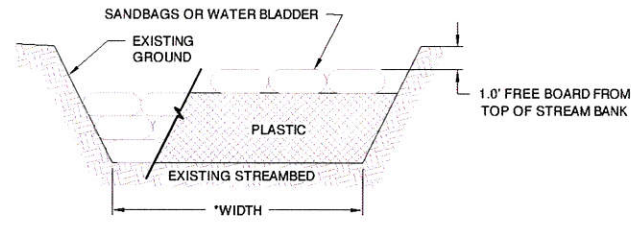
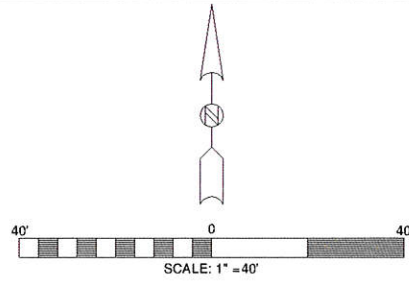
SURVEY SYMBOLS

-  SECTION LINE
-  RIGHT OF WAY

NEW CONSTRUCTION

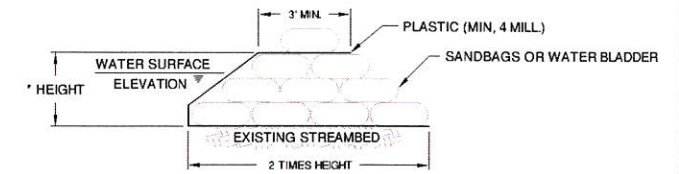
-  AREA OF POTENTIAL EFFECT (APE) - NO CONSTRUCTION ACTIVITY OUTSIDE THIS BOUNDARY
-  CENTERLINE
-  HIGH VISIBILITY FENCE
-  HIGH VISIBILITY SILT FENCE
-  HMA
-  GUARDRAIL LANDING / SHOULDER ROCK
-  CUT LIMIT
-  FILL LIMIT
-  DITCH
-  LARGE WOODY DEBRIS
-  INDEX CONTOUR LINES
-  CONTOUR LINES
-  CMU BLOCK

NO.	DATE	REVISION	BY	APP.



* WIDTH OF COFFER DAM SHALL BE DETERMINED BY THE EXISTING BANK OF THE STREAM AT THE TIME OF CONSTRUCTION.

NOTES:
 1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
 2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
 3. PROVIDE 1.0' FREEBOARD.

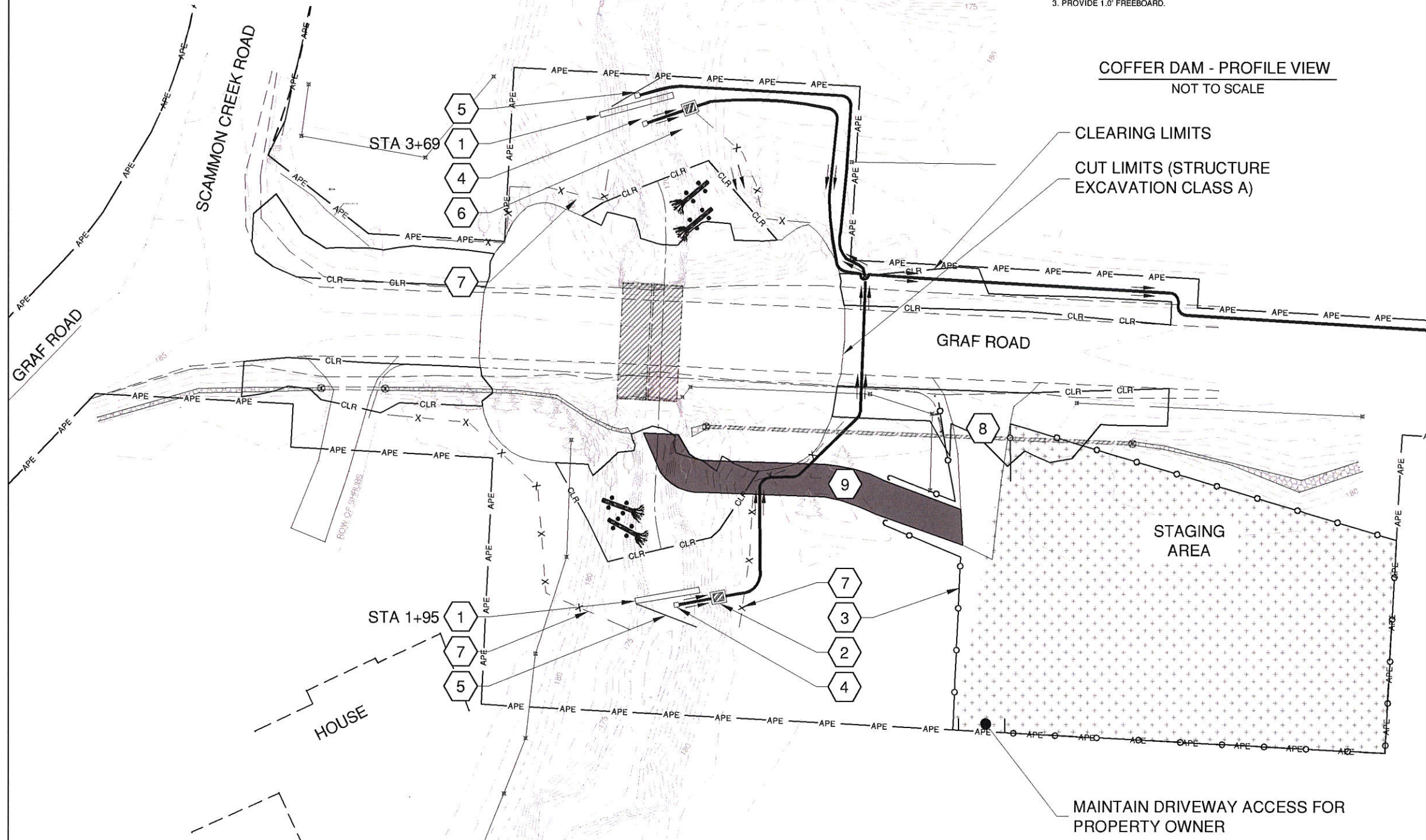


* HEIGHT OF COFFER DAM SHALL BE DETERMINED BY THE WATER SURFACE ELEVATION AT THE TIME OF CONSTRUCTION.

NOTES:
 1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
 2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
 3. PROVIDE 1.0' FREEBOARD.

COFFER DAM - PROFILE VIEW
NOT TO SCALE

COFFER DAM - SECTION VIEW
NOT TO SCALE



NOTES:
 1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
 2. INSTALL COFFER DAM AND DEWATER SITE PRIOR TO CONSTRUCTION.
 3. PROVIDE 1.0' FREEBOARD.

CONSTRUCTION NOTES:

- 1 INSTALL COFFERDAM PER DETAILS ABOVE AT STREAM STATIONS 1+95 AND 3+69.
- 2 INSTALL SPILL CONTAINED PUMP SYSTEM FOR TEMPORARY STREAM DIVERSION.
- 3 INSTALL HIGH VISIBILITY SILT FENCE AROUND STAGING AREA AS DIRECTED BY THE ENGINEER.
- 4 PUMP INTAKE SCREEN OVER ALL INTAKE AND OUTLET HOSES PER WDFW REQUIREMENTS.
- 5 FISH DIVERSION SCREEN UPSTREAM OF BYPASS INTAKE AND DOWNSTREAM OF BYPASS OUTLET PER HPA PROVISIONS, 30° ANGLE FROM PERPENDICULAR.
- 6 INSTALL SPILL CONTAINED PUMP SYSTEM FOR DEWATERING. PUMP WORK WATER ALONG NE DITCH APPROXIMATELY 200' TO DRAIN AWAY FROM PROJECT THROUGH GRASS LINED DITCH, WITH STRAW WADDLES PLACED EVERY 25' WITHIN COUNTY RIGHT OF WAY.
- 7 HIGH VISIBILITY FENCE AS DIRECTED BY THE ENGINEER.
- 8 STABILIZED CONSTRUCTION ENTRANCE AT STAGING AREA ENTRANCE.
- 9 TEMPORARY ACCESS ROAD.

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 Department of Public Works
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : RTL
 DRAWN BY : WSR
 CHECKED BY :
 DATE : 01/08/2018

NO.	DATE	REVISION	BY	APP.

GRAF ROAD MP 1.01
CULVERT REPLACEMENT

COUNTY MAINTENANCE PROJECT NO: 1531
 T.E.S.C. AND DEWATERING PLAN

SHEET
 4 OF 16

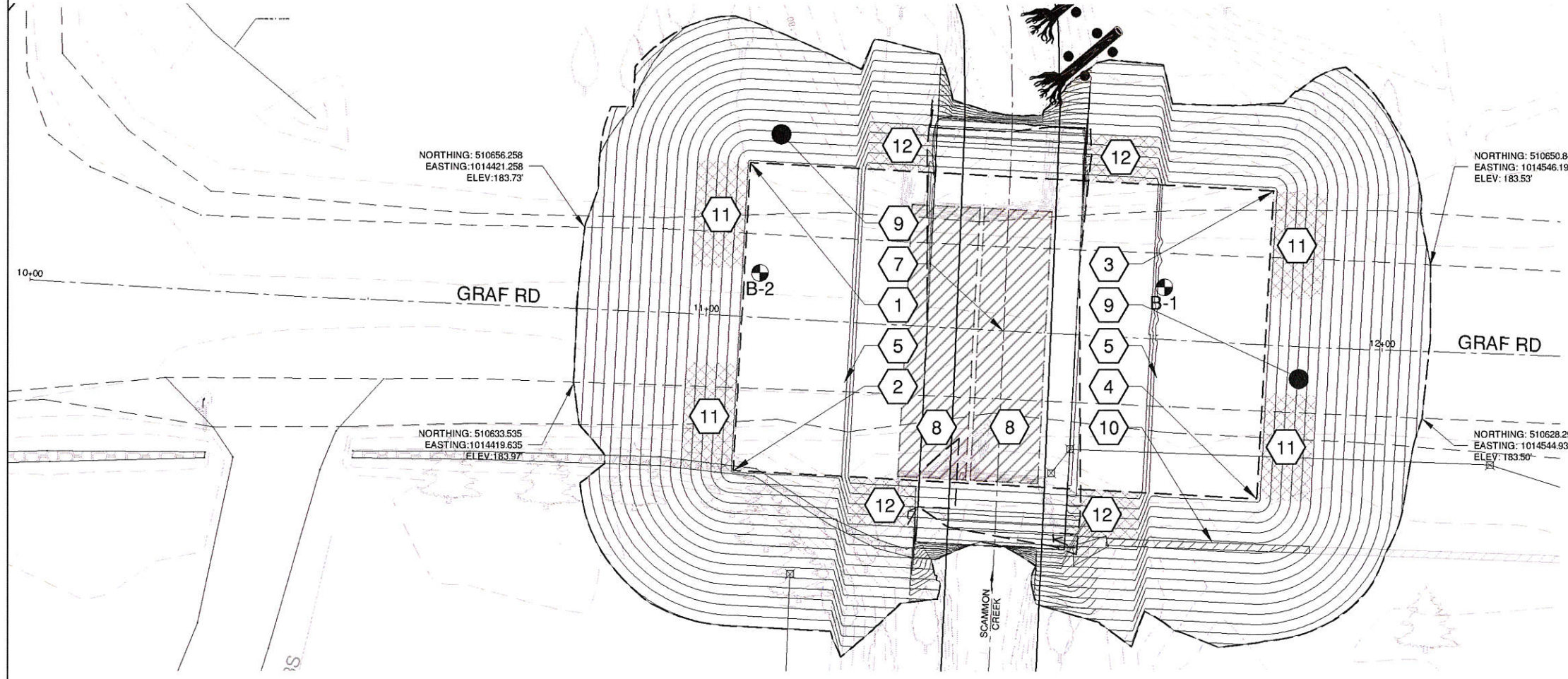
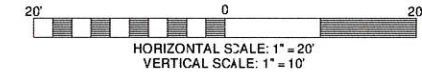


Rodney Troy Lakey, P.E.
 Senior Engineer
 Design/ENV.
 Date: Jan 8, 2018



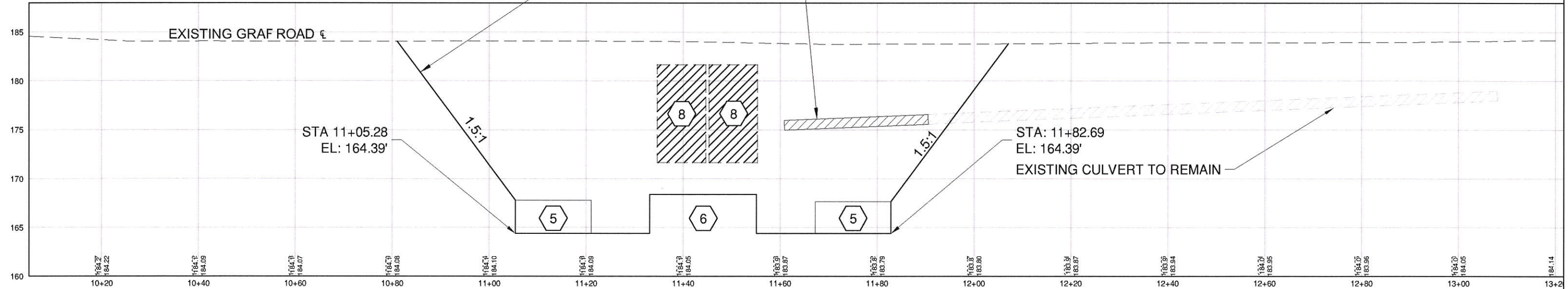
SEC. 13 TWP. 14N. RNG. 3W. W.M.

LAND LINES ARE APPROXIMATE



CONSTRUCTION NOTES:

- 1 BOTTOM OF CUT: N: 510665.801 E: 1014445.651 ELEV: 164.39' STA: 11+05.26 22.65 LT
- 2 BOTTOM OF CUT: N: 510620.573 E: 1014443.226 ELEV: 164.39' STA: 11+05.26 22.65 RT
- 3 BOTTOM OF CUT: N: 510661.657 E: 1014522.948 ELEV: 164.39' STA: 11+82.70 22.65 LT
- 4 BOTTOM OF CUT: N: 510616.428 E: 1014520.523 ELEV: 164.39' STA: 11+82.70 22.65 RT
- 5 ROAD STA 11+05.26 TO 11+20.39 AND 11+67.07 TO 11+82.70, INSTALL REINFORCED SOIL FOUNDATIONS PER DETAILS ON SHEET 6.
- 6 22' W x 4' H AREA ALONG STREAM CENTERLINE TO REMAIN UNDISTURBED.
- 7 ROAD ϵ STA 11+43.98 CROSSES STREAM ϵ STA 2+84.91 (STREAM ϵ PERPENDICULAR TO ROAD ϵ).
- 8 EXISTING 10' x 10' CONCRETE BOX CULVERTS TO BE REMOVED.
- 9 STRUCTURE EXCAVATION CLASS A INCL. HAUL
- 10 REMOVE EXISTING 12 IN. DIA CULVERT ROAD STA 11+60.91 RT TO 11+90.35 RT.
- 11 EXCAVATION FOR WINGWALL REINFORCED SOIL FOUNDATION (RSF)
- 12 EXCAVATION FOR ROCK FOR EROSION CONTROL & SCOUR PROTECTION AT TERMINALS



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Department of Public Works
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DRAWN BY : WSR
CHECKED BY :
DATE : 01/08/2018

NO.	DATE	REVISION	BY	APP.

GRAF ROAD MP 1.01
CULVERT REPLACEMENT

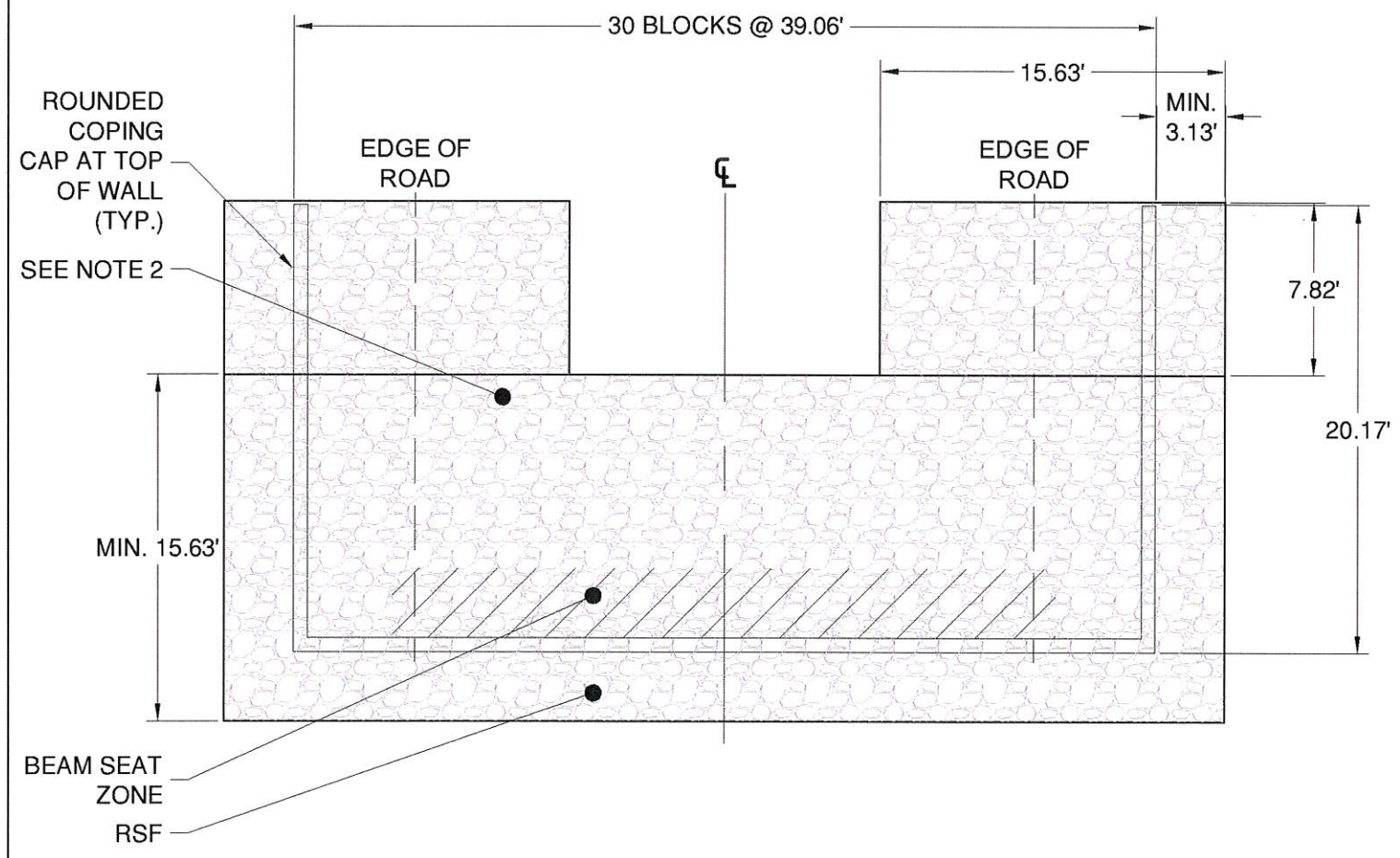
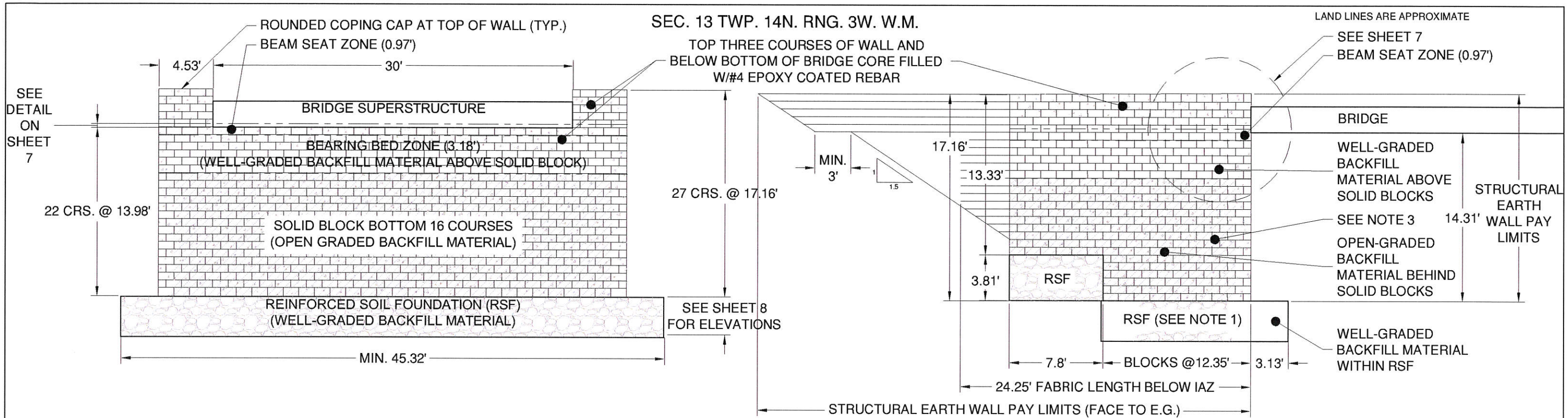
COUNTY MAINTENANCE PROJECT NO: 1531
STRUCTURAL EARTH WALL
EXCAVATION PLAN AND PROFILE

SHEET
5 OF 16



Rodney Troy Lakay, P.E.
Senior Engineer
Design/ENV.
Date: Jan 8, 2018





NOTES:

- CONSTRUCTION CONSISTS OF STANDARD CMU BLOCK (NOMINAL 8" x 8" x 16") WITH NO MORTAR. FIRST 16 COURSES ALONG WALL FACE ARE SOLID CMI BLOCK (DEPICTED WITH HATCHING). SEE SHEET 9 FOR FABRIC PLACEMENT DETAILS.
- REINFORCED SOIL FOUNDATION (RSF)
 - ENCAPSULATE RSF IN GEOTEXTILE WITH 1' OVERLAPS FACING DOWNSTREAM.
 - CONSTRUCT IN LIFTS NO MORE THAN 0.5' COMPACTED HEIGHT.
 - FINAL GRADING AND COMPACTION MUST OCCUR BEFORE ENCAPSULATING THE TOP TO PREVENT DAMAGE TO GEOTEXTILE.
 - INTEGRATED APPROACH
 - ONLY BEGIN PLACEMENT OF GEOTEXTILE AND BACKFILL MATERIAL IN INTEGRATED APPROACH AFTER PLACEMENT OF BRIDGE SUPERSTRUCTURE.
 - 0.17' COVER OVER LAST LAYER OF GEOTEXTILE TO PREVENT DAMAGE FROM PAVEMENT PLACEMENT.
 - LIFTS CAN CHANGE HEIGHT TO MATCH EXISTING APPROACHES, BUT SHALL NOT EXCEED 0.5'.
 - GEOTEXTILE FABRIC PLACEMENT
 - PULL TIGHT AND LAY FLAT BEFORE PLACING BACKFILL MATERIAL.
 - ANY SPLICES MUST BE STAGGERED AT LEAST 2' APART.
 - FABRIC MUST COVER 85% OF FULL BLOCK WIDTH TO THE FRONT OF THE BLOCK. FOR CORE FILLING, CUT OR BURN AFTER NEXT COURSE IS PLACED.
 - MATERIALS
 - GEOTEXTILE FABRIC
 - REQUIRED ULTIMATE TENSILE STRENGTH = 4,800 lb/ft PER ASTM D 4595
 - TENSILE STRENGTH @ 2% STRAIN = 1,370 lb/ft
 - REINFORCED SOIL FOUNDATION
 - WILL USE WELL-GRADED BACKFILL MATERIAL
 - BACKFILL
 - ALL MATERIAL SHALL MEET GRADATION OUTLINED IN THE SPECIAL PROVISIONS FOR OPEN-GRADED AND WELL-GRADED MATERIAL

Lewis County
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
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 DRAWN BY : WSR
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 DATE : 01/08/2018

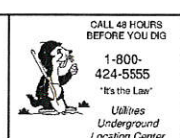
NO.	DATE	REVISION	BY	APP.

GRAF ROAD MP 1.01
 CULVERT REPLACEMENT

COUNTY MAINTENANCE PROJECT NO: 1531

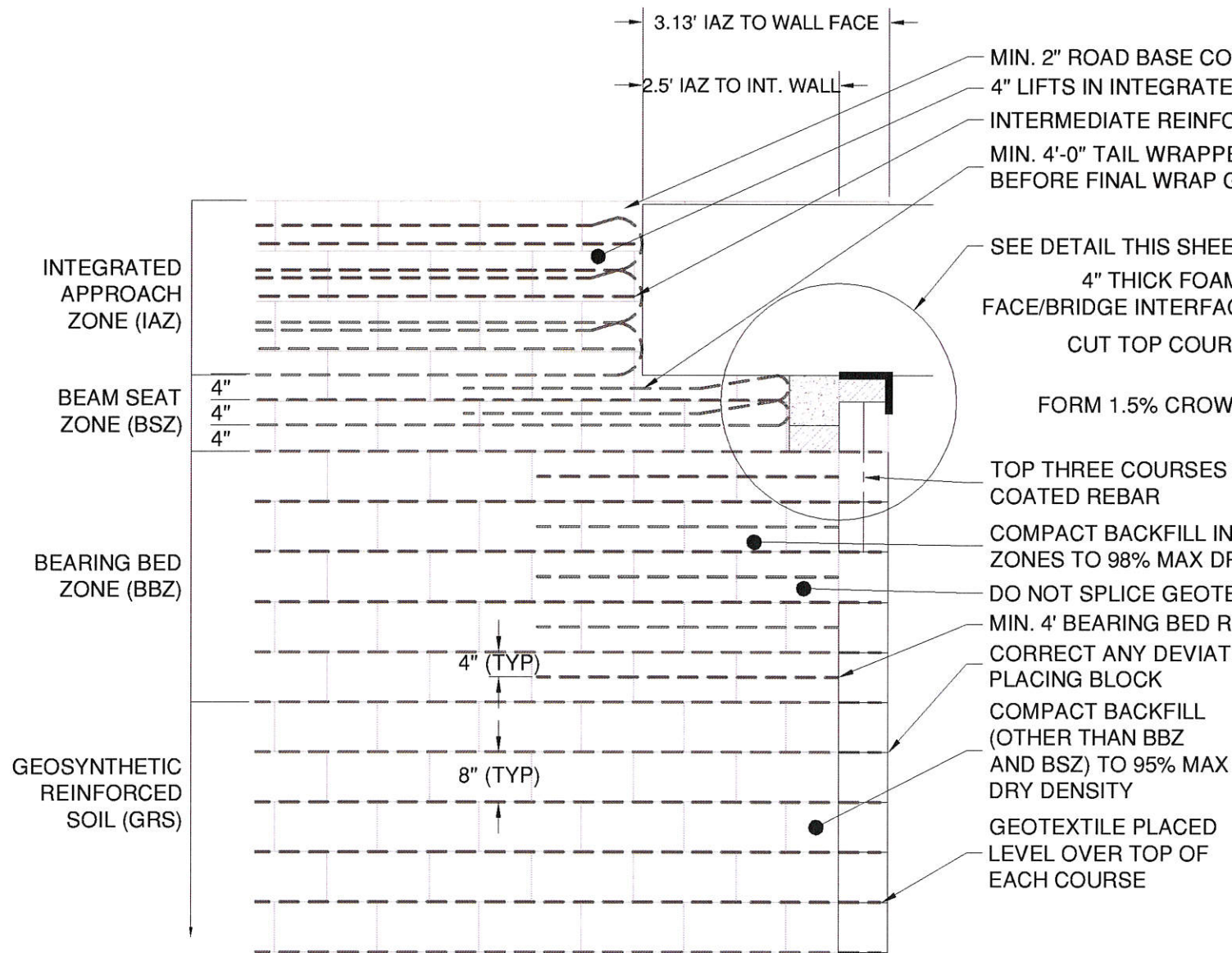
STRUCTURAL EARTH WALL
 PLAN AND PROFILE

SHEET
 6 OF 16

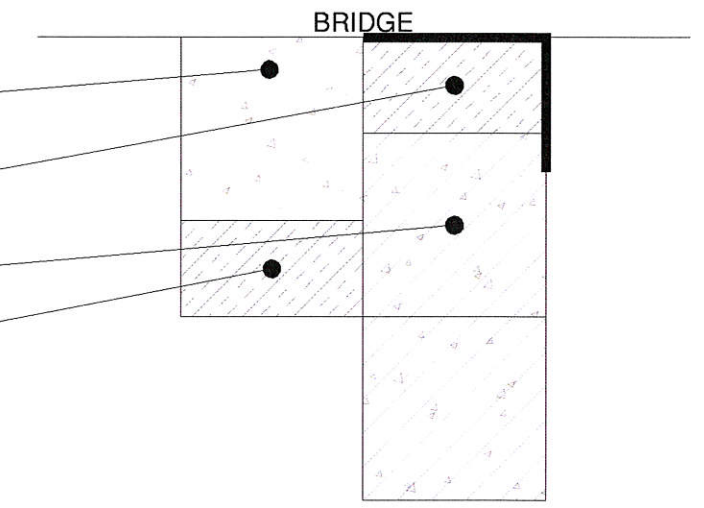


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 Senior Engineer
 Design/ENV.
 Date: Jan 8, 2018



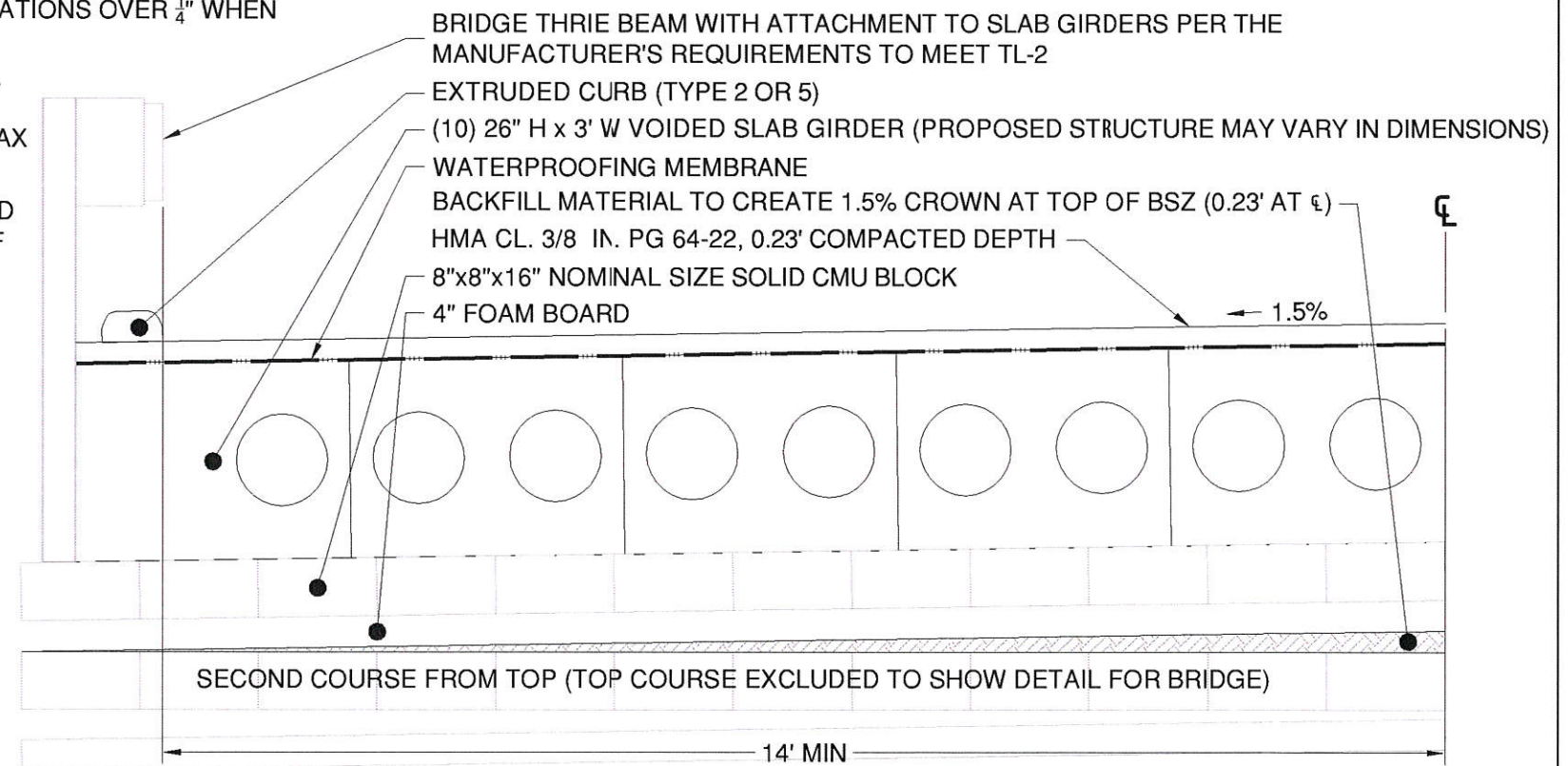


MIN. 2" ROAD BASE COVERAGE TO PROTECT GEOTEXTILE
 4" LIFTS IN INTEGRATED APPROACH ZONE (6 LIFTS @ 4" = 24")
 INTERMEDIATE REINFORCEMENT LAYERS BETWEEN LIFTS
 MIN. 4'-0" TAIL WRAPPED OVER EACH LIFT (6'-0" MAX IN BEAM SEAT), BEFORE FINAL WRAP GRADING MAY BE REQUIRED ON BEAM SEAT
 SOLID CMU USED ON BEARING SEAT
 SEE DETAIL THIS SHEET
 4" THICK FOAM BOARD AND ALUMINUM FLASHING AT WALL FACE/BRIDGE INTERFACE WITH CONSTRUCTION ADHESIVE APPLIED
 CUT TOP COURSE CMU ALONG CROWN SLOPE TO MAINTAIN 3" GAP UNDER BRIDGE
 FORM 1.5% CROWN WITH BACKFILL MATERIAL UNDER 4" THICK FOAM BOARD (SEE DETAIL BELOW)



BEAM SEAT DETAIL (TYPICAL)
 NOT TO SCALE

TOP THREE COURSES OF WALL CORE FILLED W/#4 EPOXY COATED REBAR
 COMPACT BACKFILL IN BEARING BED AND BEAM SEAT ZONES TO 98% MAX DRY DENSITY
 DO NOT SPLICE GEOTEXTILE IN BEARING BED ZONE
 MIN. 4' BEARING BED REINFORCEMENT LENGTH (TYP.)
 CORRECT ANY DEVIATIONS OVER 1/4" WHEN PLACING BLOCK
 COMPACT BACKFILL (OTHER THAN BBZ AND BSZ) TO 95% MAX DRY DENSITY
 GEOTEXTILE PLACED LEVEL OVER TOP OF EACH COURSE



BRIDGE SECTION (TYPICAL)
 NOT TO SCALE

GENERAL NOTES:

- DESIGN SPECIFICATIONS
 - DESIGN FROM GEOSYNTHETIC REINFORCED SOIL INTEGRATED BRIDGE SYSTEM INTERIM IMPLEMENTATION GUIDE, FHWA-HR-11-026, JANUARY 2011 (ERRATA MAY 24, 2012).
- INSTALLATION NOTES
 - NO TRACKED EQUIPMENT NEAR GEOTEXTILES.
 - WHEELED EQUIPMENT WILL ONLY BE USED IF IT IS RUBBER-TIRED AND A 6" BASE IS PLACED OVER GEOTEXTILE.
 - ONLY HAND-OPERATED COMPACTION EQUIPMENT IS ALLOWED WITHIN 3'-0" OF WALL FACE.
 - VERTICAL WALL FACE BATTER = 0°
 - DURING BRIDGE SUPERSTRUCTURE INSTALLATION, THE CRANE MAY BE PLACED ON THE GRS ABUTMENT IF THE OUTRIGGER PADS SHALL BE SIZED FOR LESS THAN 4,000psf NEAR THE FACE OF THE ABUTMENT WALL.
 - A LAYER OF GEOTEXTILE FABRIC CAN BE PLACED ON BEAM SEAT BEFORE SUPERSTRUCTURE PLACEMENT.
 - DO NOT SLIDE OR DRAG SUPERSTRUCTURE ON BEAM SEAT DURING PLACEMENT.

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 CHEHALIS WA 98532
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 FAX # (360) 740-2719

DESIGNED BY : RTL
 DRAWN BY : WSR
 CHECKED BY :
 DATE : 01/08/2018

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GRAF ROAD MP 1.01
 CULVERT REPLACEMENT

COUNTY MAINTENANCE PROJECT NO: 1531
 STRUCTURAL EARTH WALL AND
 BRIDGE DETAILS

SHEET
 7 OF 16

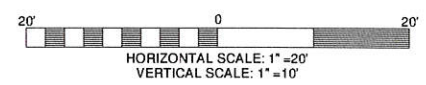
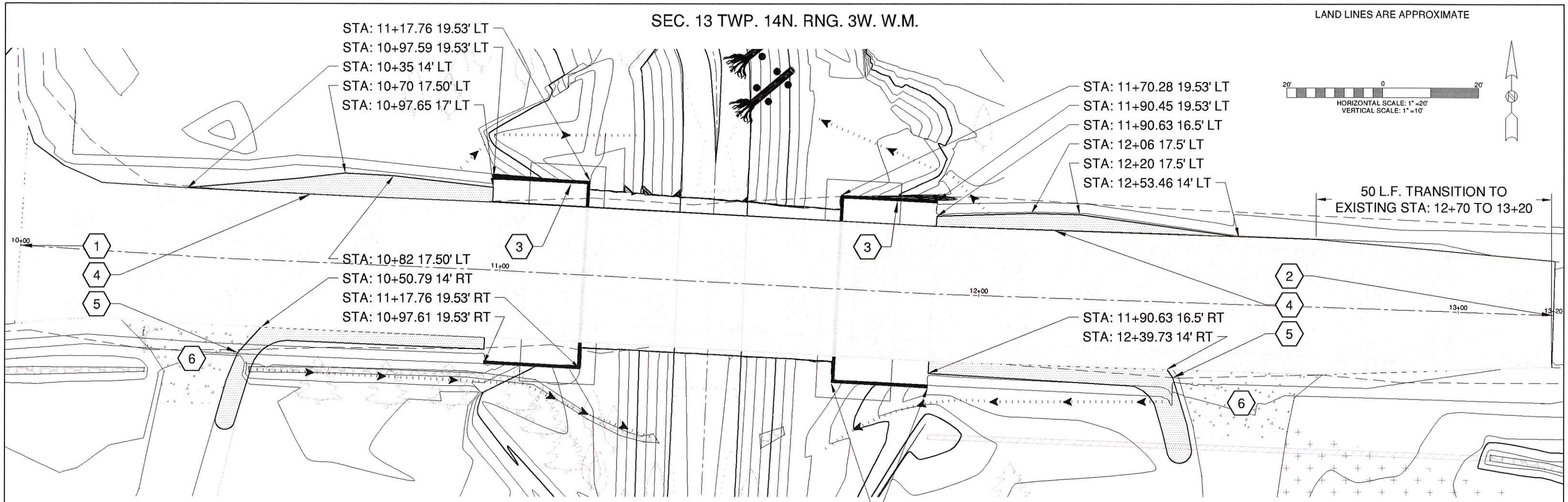


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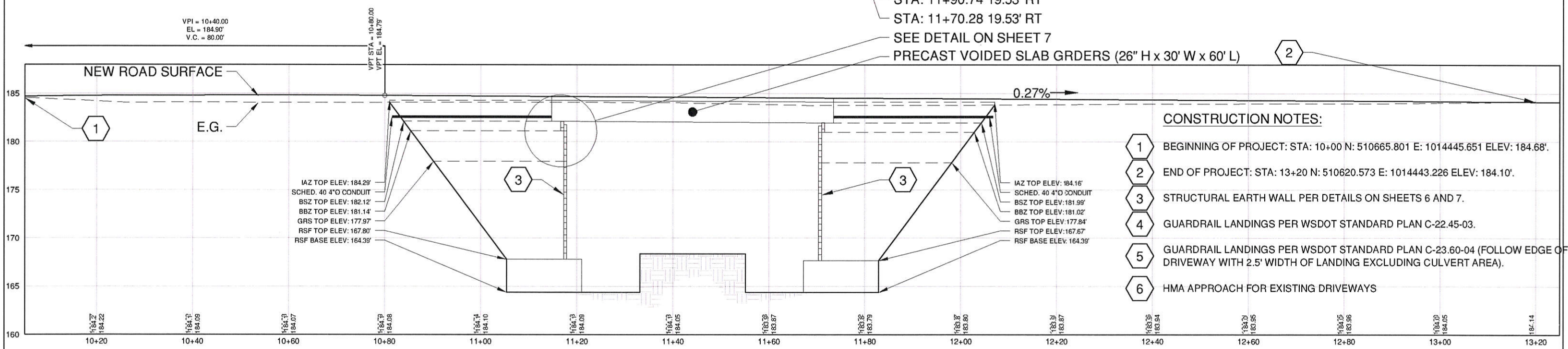


SEC. 13 TWP. 14N. RNG. 3W. W.M.

LAND LINES ARE APPROXIMATE



VPI = 10+40.00
EL = 184.90'
V.C. = 80.00'



- CONSTRUCTION NOTES:**
- 1 BEGINNING OF PROJECT: STA: 10+00 N: 510665.801 E: 1014445.651 ELEV: 184.68'.
 - 2 END OF PROJECT: STA: 13+20 N: 510620.573 E: 1014443.226 ELEV: 184.10'.
 - 3 STRUCTURAL EARTH WALL PER DETAILS ON SHEETS 6 AND 7.
 - 4 GUARDRAIL LANDINGS PER WSDOT STANDARD PLAN C-22.45-03.
 - 5 GUARDRAIL LANDINGS PER WSDOT STANDARD PLAN C-23.60-04 (FOLLOW EDGE OF DRIVEWAY WITH 2.5' WIDTH OF LANDING EXCLUDING CULVERT AREA).
 - 6 HMA APPROACH FOR EXISTING DRIVEWAYS

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CULVERT REPLACEMENT

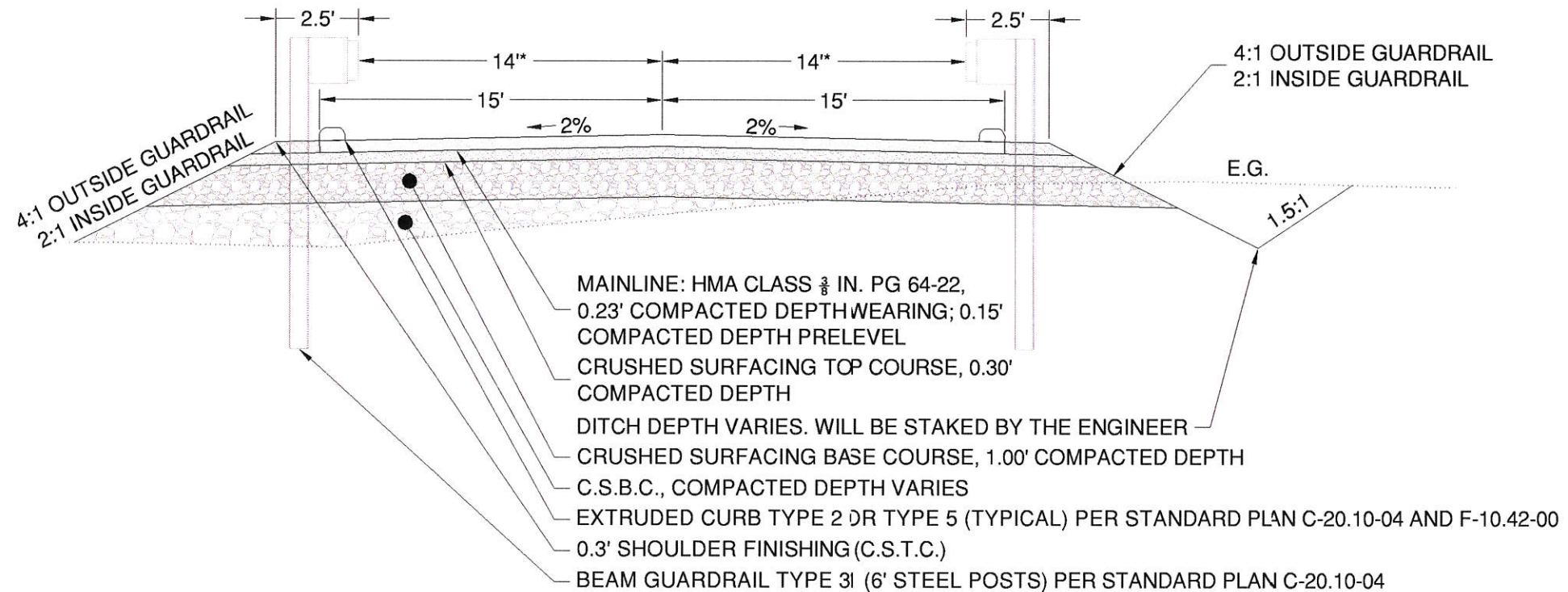
COUNTY MAINTENANCE PROJECT NO: 1531
ROAD PLAN AND PROFILE

SHEET
8 OF 16



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Senior Engineer
Design/ENV.
Date: Jan 8, 2018



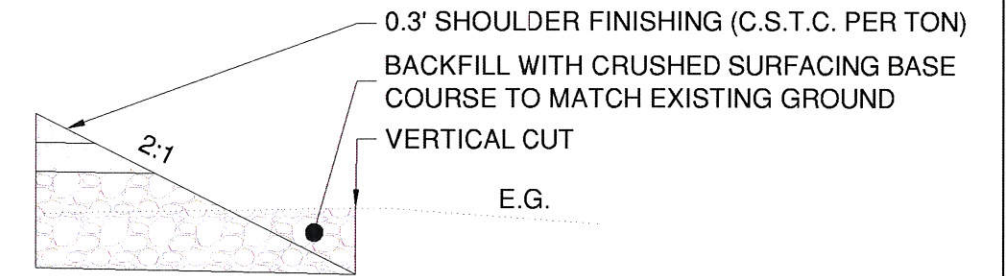


- MAINLINE: HMA CLASS $\frac{3}{8}$ IN. PG 64-22, 0.23' COMPACTED DEPTH WEARING; 0.15' COMPACTED DEPTH PRELEVEL
- CRUSHED SURFACING TOP COURSE, 0.30' COMPACTED DEPTH
- DITCH DEPTH VARIES. WILL BE STAKED BY THE ENGINEER
- CRUSHED SURFACING BASE COURSE, 1.00' COMPACTED DEPTH
- C.S.B.C., COMPACTED DEPTH VARIES
- EXTRUDED CURB TYPE 2 OR TYPE 5 (TYPICAL) PER STANDARD PLAN C-20.10-04 AND F-10.42-00
- 0.3' SHOULDER FINISHING (C.S.T.C.)
- BEAM GUARDRAIL TYPE 3I (6' STEEL POSTS) PER STANDARD PLAN C-20.10-04

* WIDTH VARIES AT GUARDRAIL LANDINGS AND TRANSITIONS TO EXISTING ROADWAY

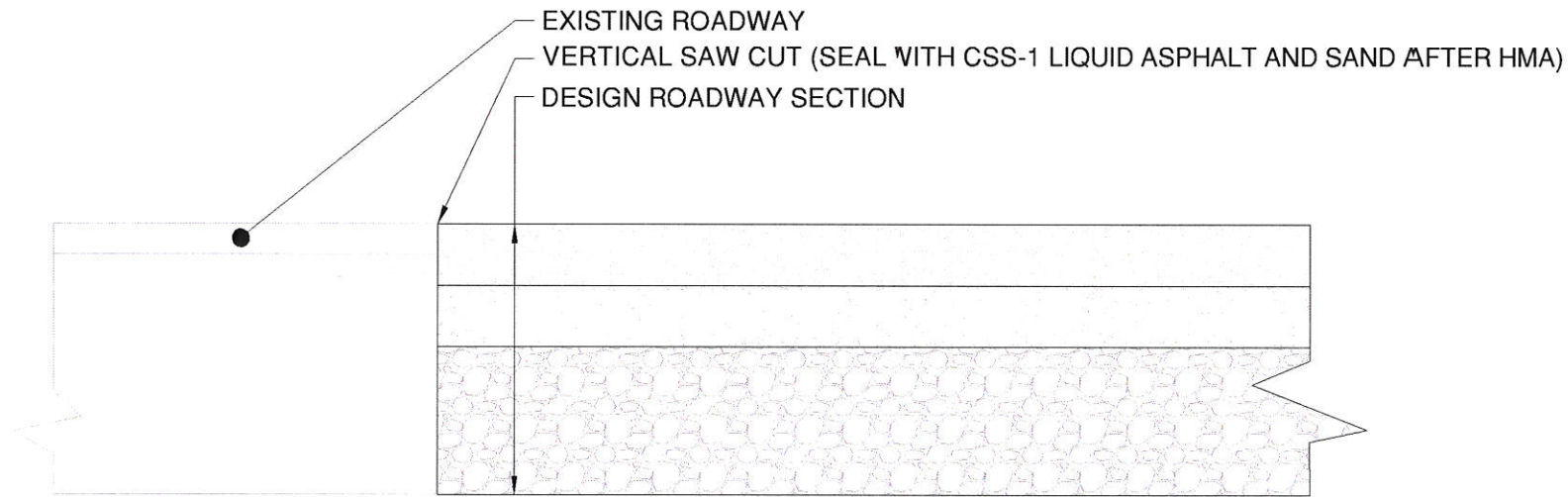
ROADWAY SECTION

NOT TO SCALE



SUBGRADE VERTICAL CUT

NOT TO SCALE

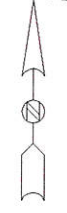
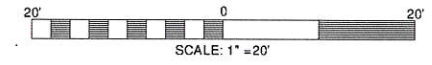
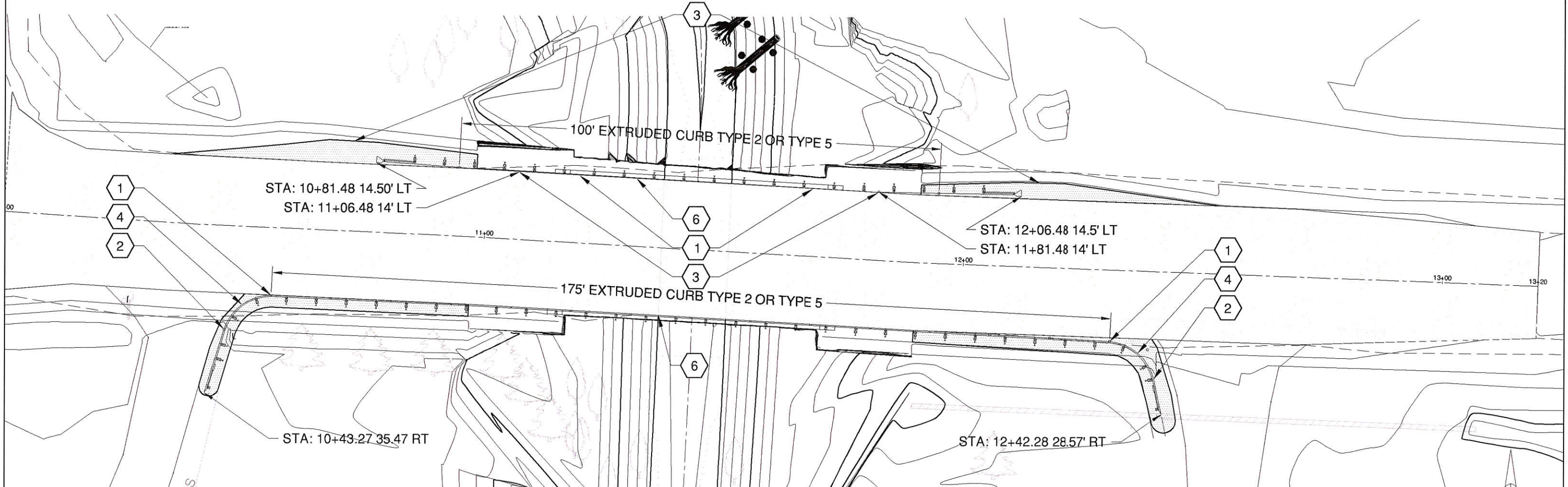


PAVEMENT BUTT JOINT

NOT TO SCALE

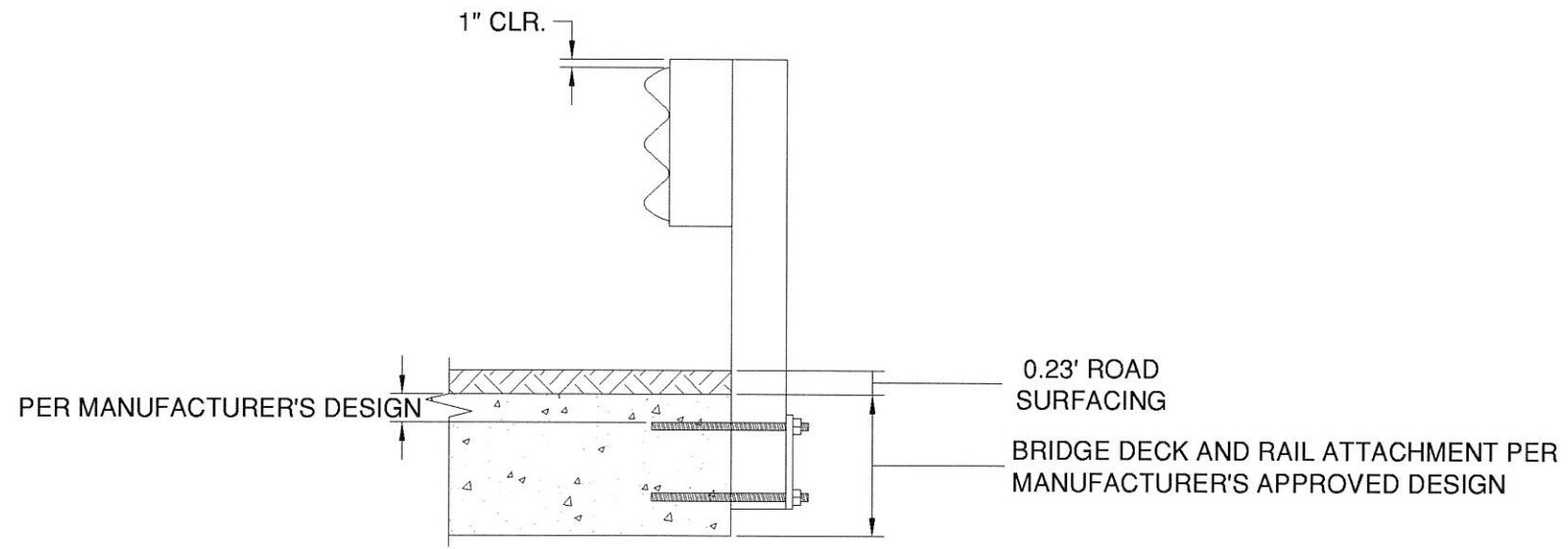
NO.	DATE	REVISION	BY	APP.





CONSTRUCTION NOTES:

- 1 BEAM GUARDRAIL TYPE 31
- 2 BEAM GUARDRAIL TYPE 31 ANCHOR TYPE 10 (PER STANDARD PLAN C-23.60-04)
- 3 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (PER STANDARD PLAN C-22.45-03)
- 4 BEAM GUARDRAIL TYPE 31 10' RADIUS (1 PIECE)
- 5 SHOULDER/GUARDRAIL LANDING LIMITS
- 6 BRIDGE RAIL (INCLUDED IN SUPERSTRUCTURE)



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**GRAF ROAD MP 1.01
CULVERT REPLACEMENT**

COUNTY MAINTENANCE PROJECT NO: 1531

GUARDRAIL PLAN

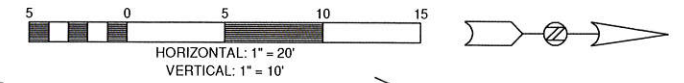
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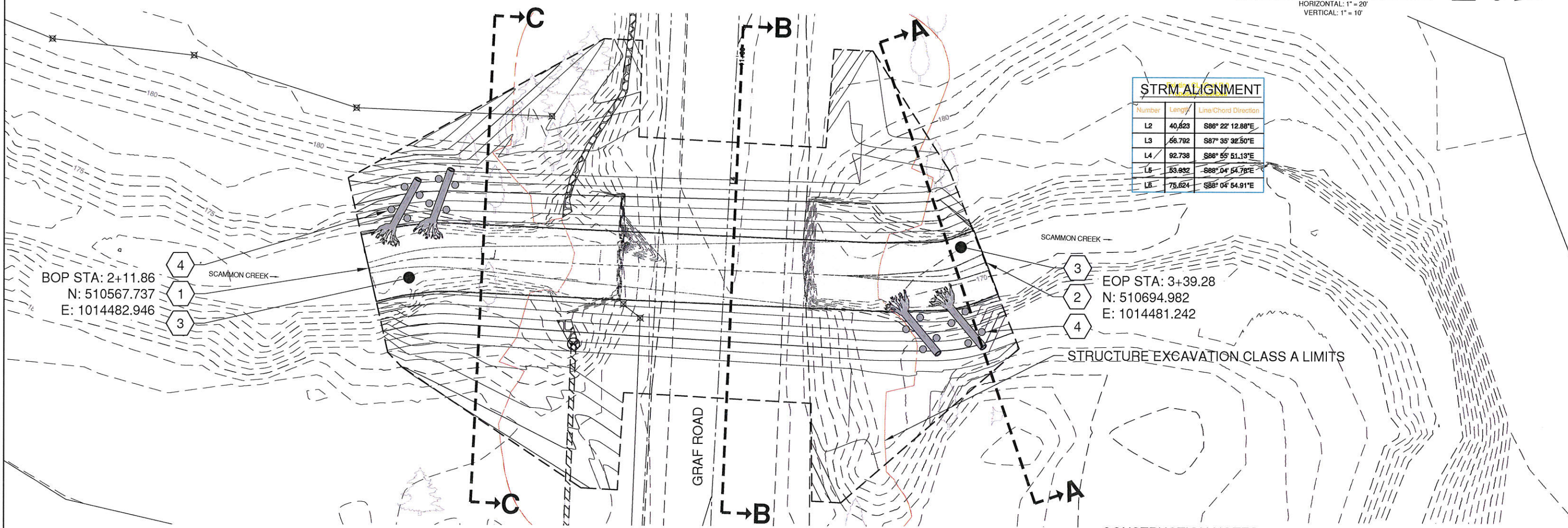
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Senior Engineer
Design/ENV.

Date: Jan 8, 2018





STRM ALIGNMENT		
Number	Length	Line-Chord Direction
L2	40.823	S86° 22' 12.88"E
L3	66.792	S87° 35' 32.50"E
L4	92.738	S86° 55' 51.13"E
L5	53.832	S88° 04' 54.78"E
L6	75.624	S88° 04' 54.91"E



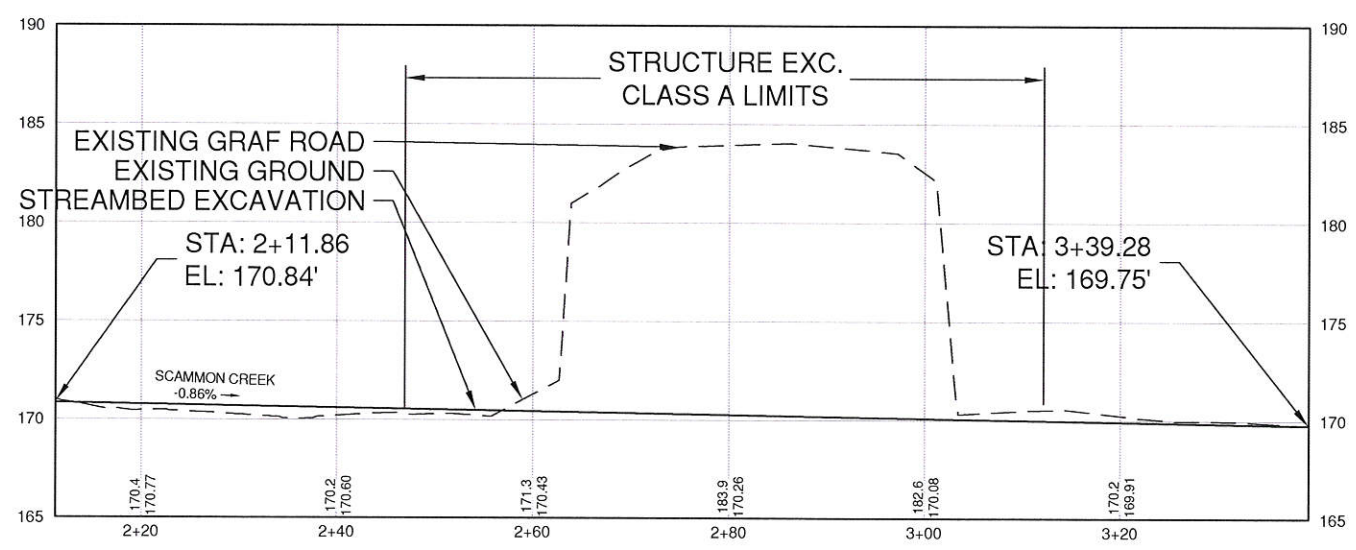
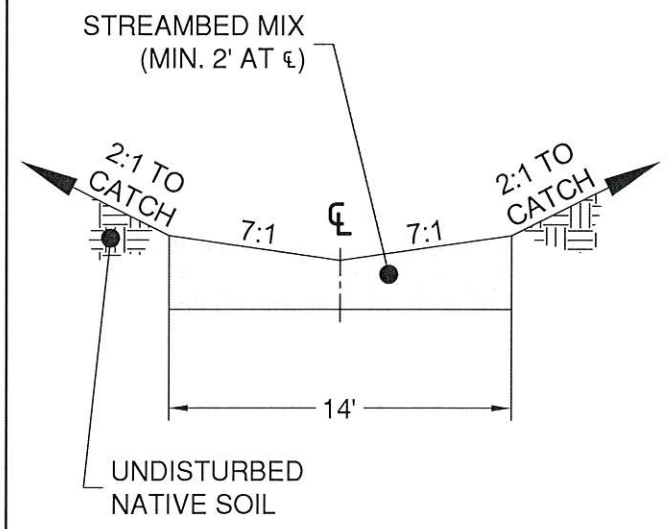
BOP STA: 2+11.86
N: 510567.737
E: 1014482.946

EOP STA: 3+39.28
N: 510694.982
E: 1014481.242

STRUCTURE EXCAVATION CLASS A LIMITS

CONSTRUCTION NOTES:

- NEW ROAD CONTOURS OMITTED THIS SHEET TO AVOID CLUTTER.
- 1 BEGINNING OF PROJECT STA: 2+11.86 N: 510567.737 E: 1014482.946 EL: 170.84'
- 2 END OF PROJECT STA: 3+39.28 N: 510694.982 E: 1014481.242 EL: 169.74'
- 3 STREAMBED MIX
- 4 LARGE WOODY DEBRIS PER DETAILS SHEET 13

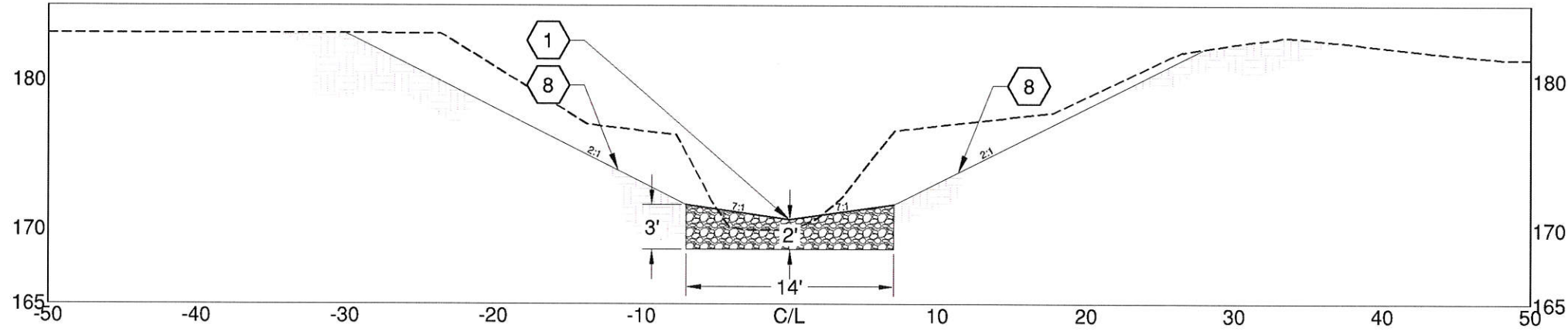
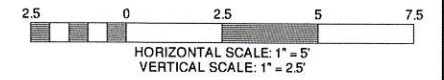


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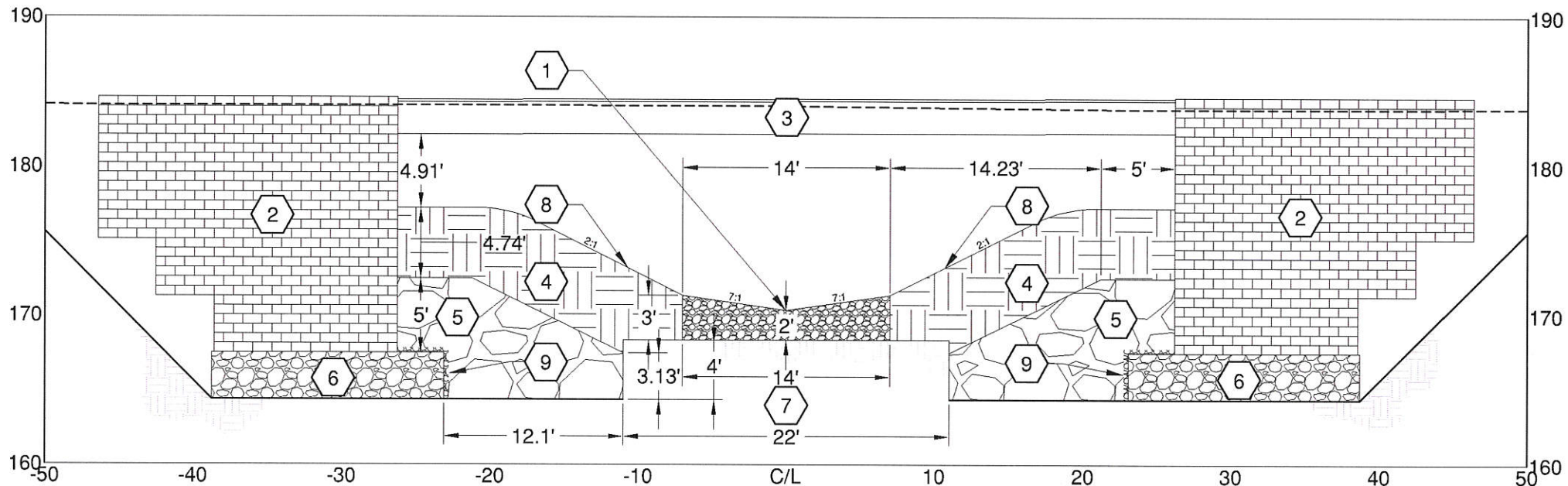


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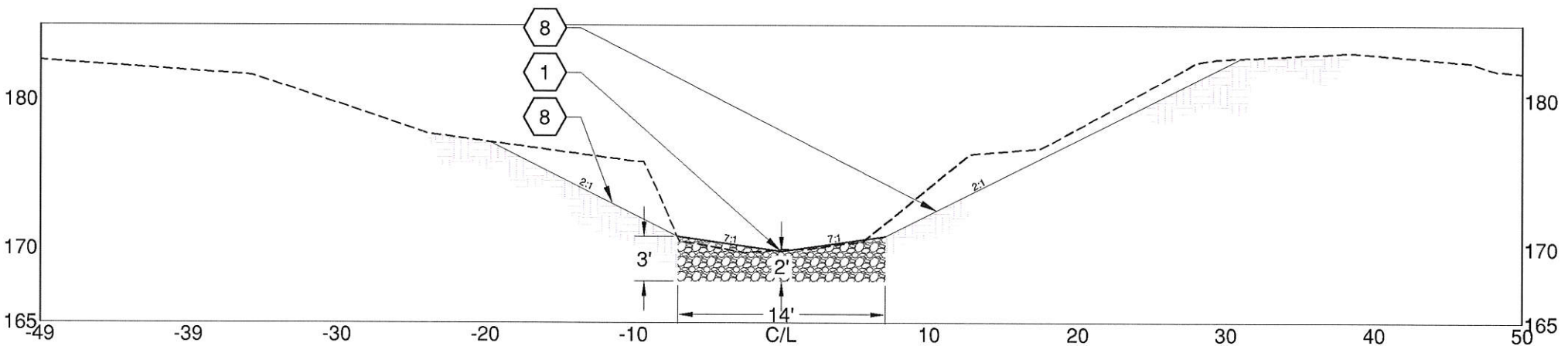
LAND LINES ARE APPROXIMATE



SECTION A-A
STATION 2+35



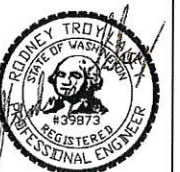
SECTION B-B
STATION 2+86.48

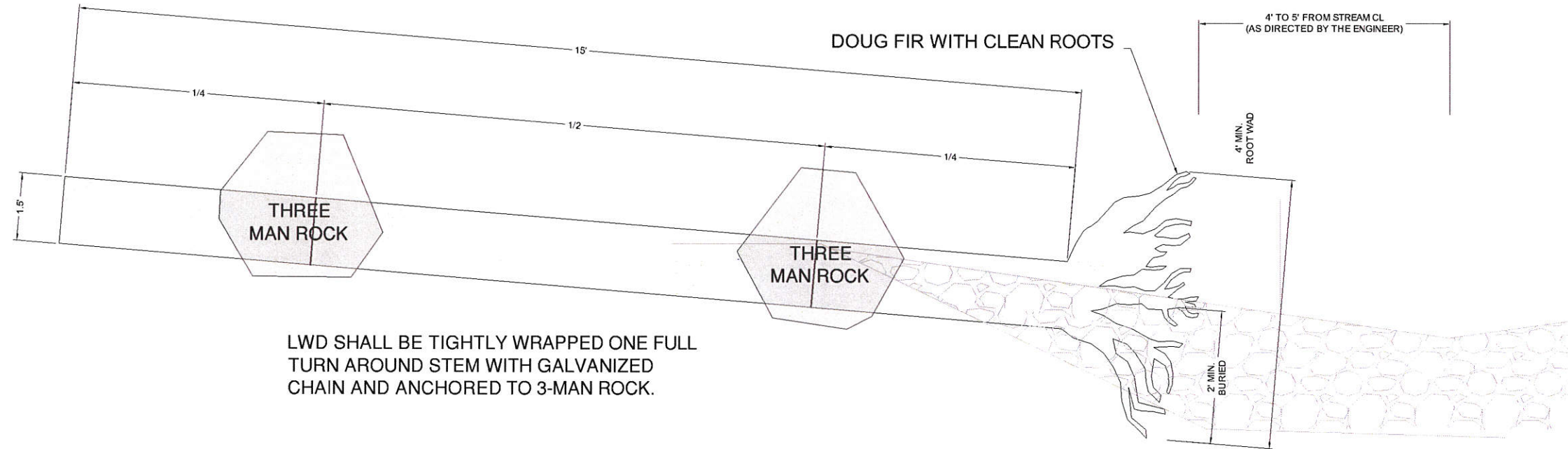


SECTION C-C
STATION 3+33

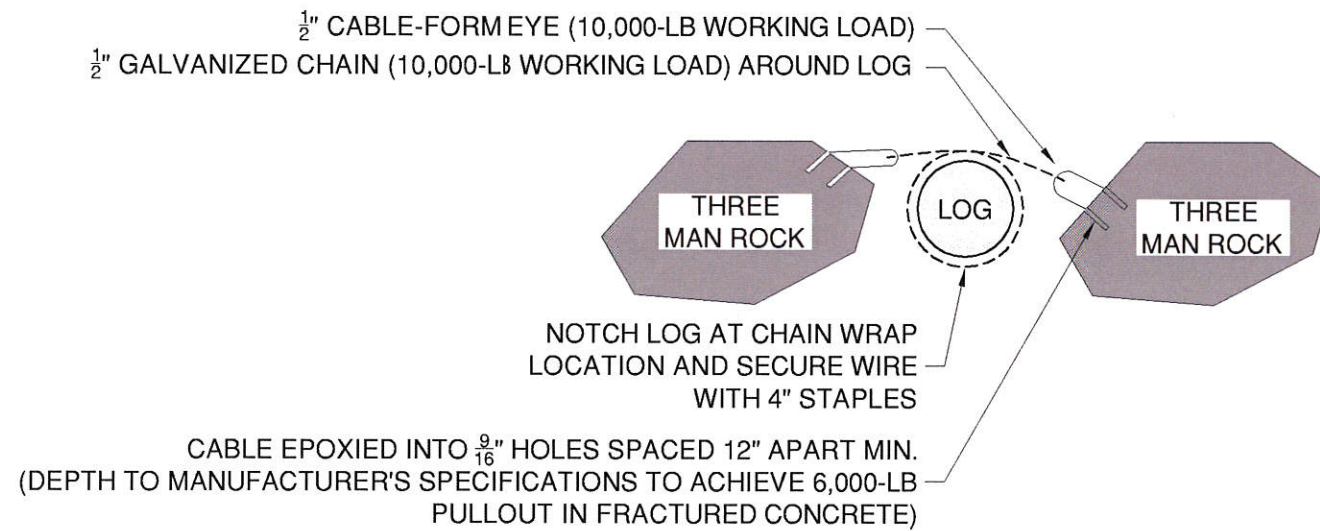
- 1 STREAMBED MIX MIN. 2' WITH A MEANDERING 0.5' LOW FLOW NOTCH (NOT DEPICTED).
- 2 GRS-IBS ABUTMENT PER DETAILS ON SHEETS 6 & 7.
- 3 2.17' T x 30' W x 60' L BRIDGE SUPERSTRUCTURE.
- 4 ROCK/SOIL MIX (WITH LIVE WILLOW STAKES OUTSIDE BRIDGE SHADOW).
- 5 ROCK FOR EROSION CONTROL AND SCOUR PROTECTION CLASS B AT RSF BRIDGE FOOTING.
- 6 RSF:
TOP ELEV: SEE SHEET 8
BOTTOM ELEV: 164.39'
- 7 UNDISTURBED SOIL.
- 8 BIODEGRADABLE EROSION CONTROL BLANKET AT 2:1 SLOPES, AS DIRECTED BY THE ENGINEER.
- 9 0.3' FILTER BLANKET BETWEEN RSF AND ROCK FOR EROSION CONTROL.

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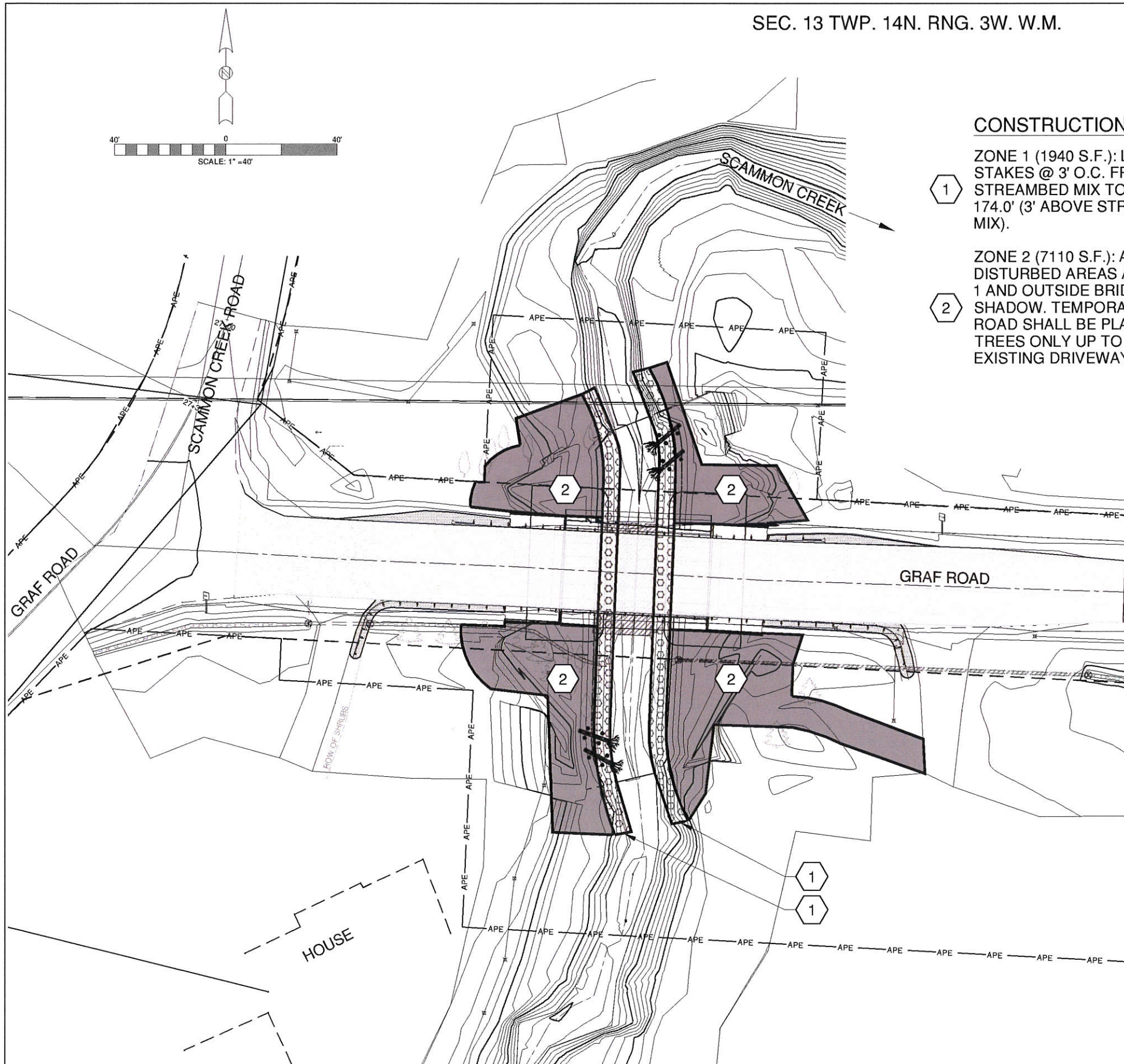
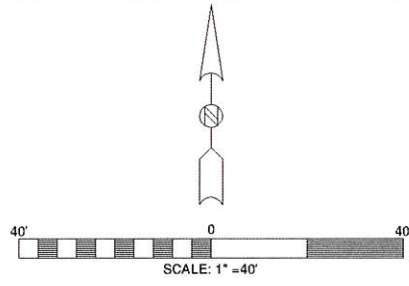
LARGE WOODY DEBRIS
NOT TO SCALE



CHAIN / CABLE INSTALLATION
NOT TO SCALE

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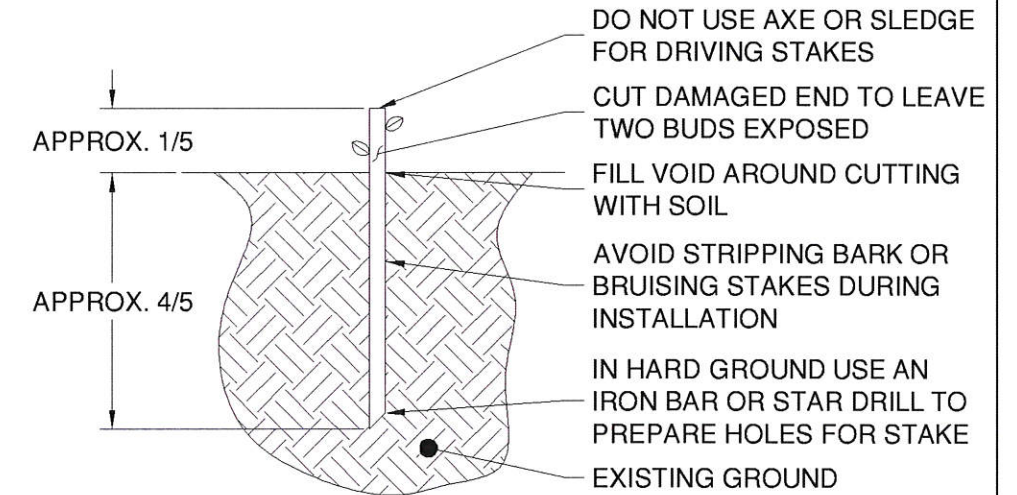




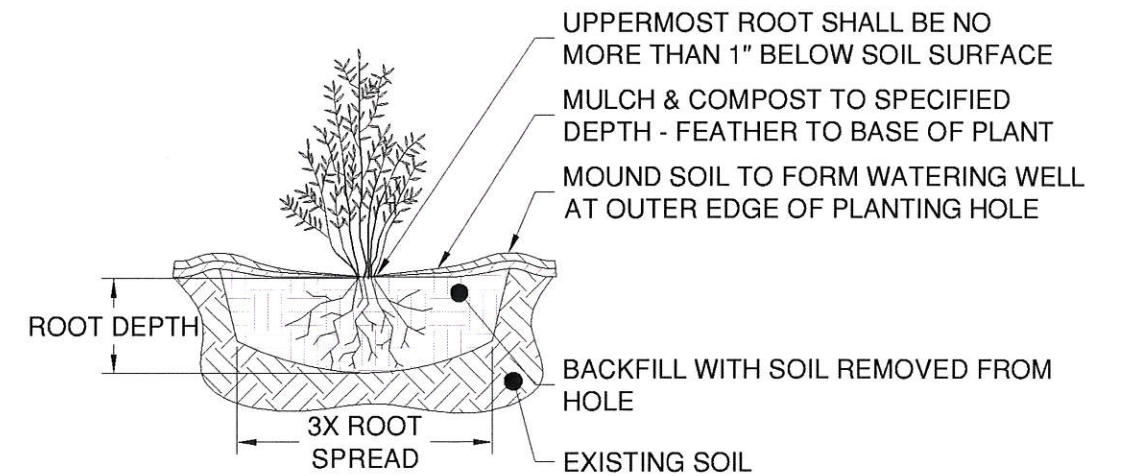
CONSTRUCTION NOTES:

① ZONE 1 (1940 S.F.): LIVE WILLOW STAKES @ 3' O.C. FROM STREAMBED MIX TO ELEVATION 174.0' (3' ABOVE STREAMBED MIX).

② ZONE 2 (7110 S.F.): ALL DISTURBED AREAS ABOVE ZONE 1 AND OUTSIDE BRIDGE SHADOW. TEMPORARY ACCESS ROAD SHALL BE PLANTED WITH TREES ONLY UP TO THE EXISTING DRIVEWAY.



LIVE STAKE INSTALLATION
NOT TO SCALE


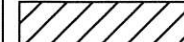
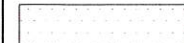



TREE AND SHRUB PLANTING
NOT TO SCALE

DESIGNED BY :	NO.	DATE	REVISION	BY	APP.
RTL					
WSR					

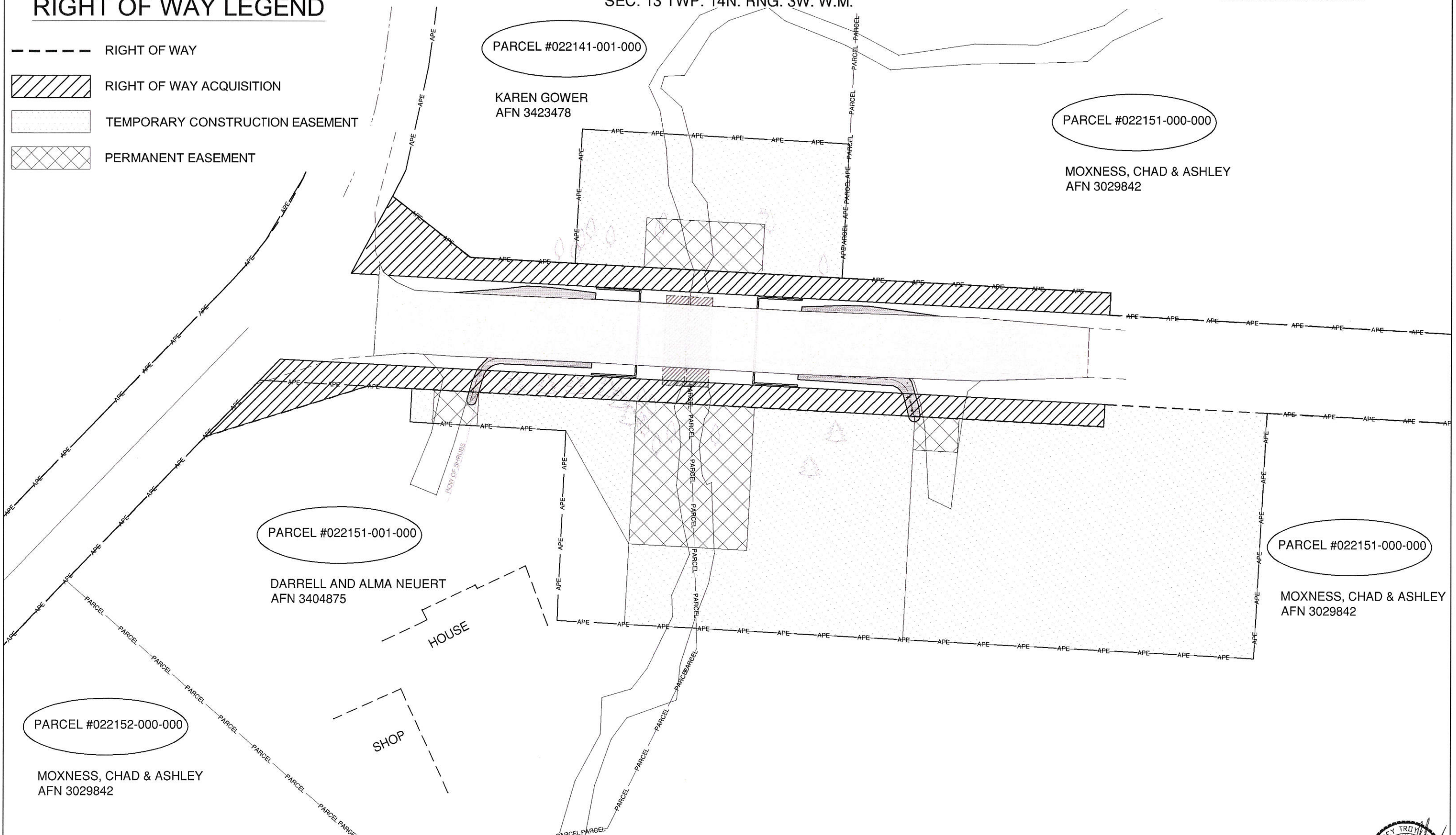


RIGHT OF WAY LEGEND

-  RIGHT OF WAY
-  RIGHT OF WAY ACQUISITION
-  TEMPORARY CONSTRUCTION EASEMENT
-  PERMANENT EASEMENT

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LAND LINES ARE APPROXIMATE



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**GRAF ROAD MP 1.01
 CULVERT REPLACEMENT**

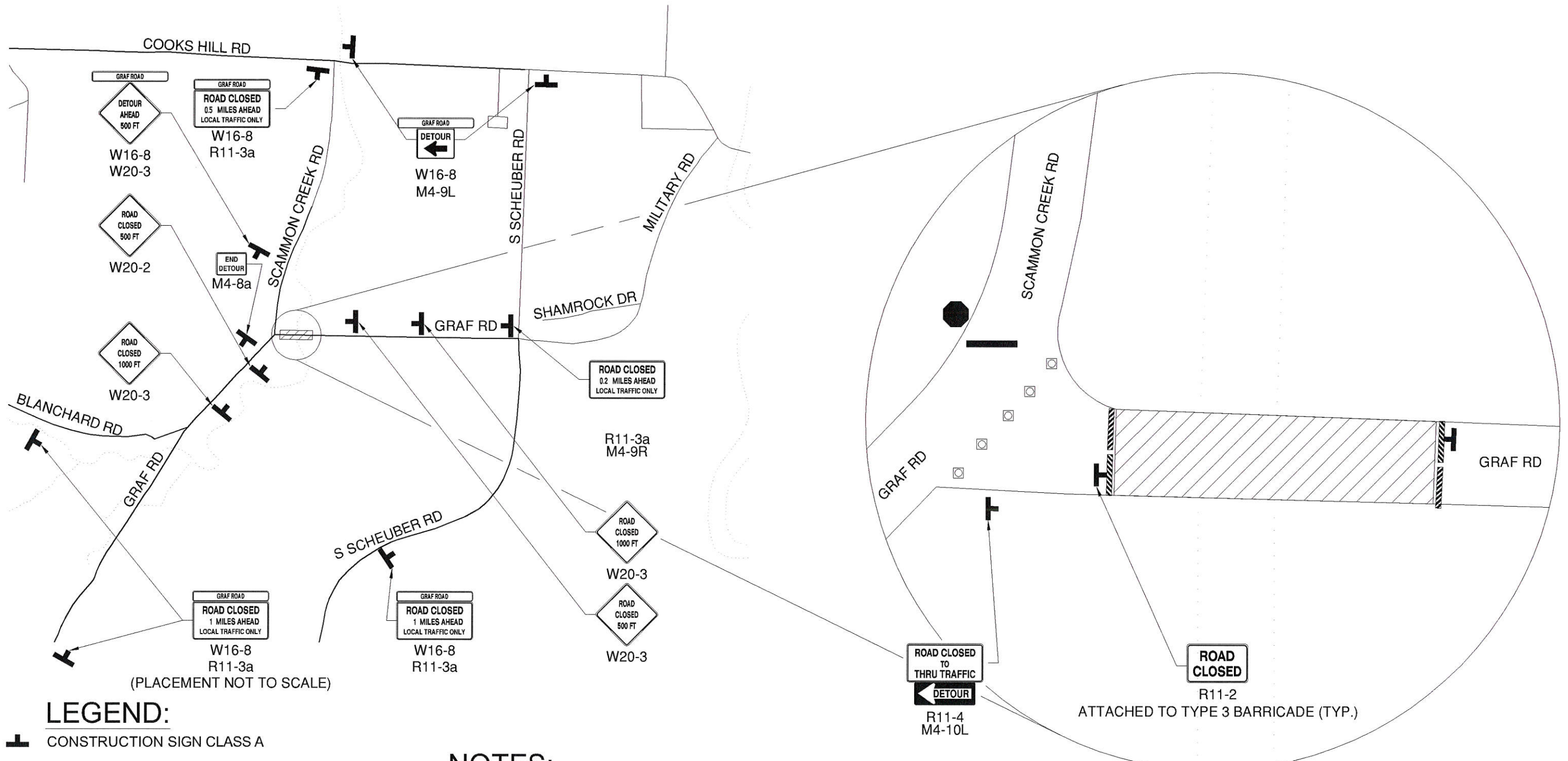
COUNTY MAINTENANCE PROJECT NO: 1531
 RIGHT OF WAY MAP

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



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LEGEND:

-  CONSTRUCTION SIGN CLASS A
-  TYPE 3 BARRICADE
-  28" TRAFFIC CONE (@ 40' SPACING MAX.)
-  WORK AREA
-  EXISTING STOP SIGN AND STOP BAR TO REMAIN

NOTES:

1. ALL WORK SHALL COMPLY WITH THE LATEST VERSION OF THE MUTCD AND OTHER APPLICABLE PROVISIONS.
2. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST AND SHALL BE PLACED PROGRESSIVELY TOWARD WORK AREA.
3. CONSTRUCTION SIGNAGE SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.

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