

Contract Provisions and Plans

For Construction of:

THE PRESSENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS PROJECT

#RCO 16-1730

SKAGIT COUNTY PARKS DEPARTMENT



SCOPE OF WORK

Pressentin Park Side Channel Restoration and Recreational Improvements Project #RCO 16-1730



This Contract provides for improvements at Pressentin Park. This work includes, but is not limited to; excavation and construction of a new side channel of the Skagit River in the floodplain; clearing and grubbing, construction access, and erosion control; embankment construction and compaction, capping along the terrace slope, coordination with cultural monitoring by others; log structure installation, wetland reconnection, and seeding; construction of new gravel surface ADA trail, portions of which will be constructed for occasional maintenance vehicle use; installation of three prefabricated bridges currently stockpiled at a nearby County pit; construction of a new bicycle only campground; construction of a new picnic shelter or two if funds allow, and concrete pads for future structures; installation of a new recreational waterline to the new picnic shelter; construction of a new Day Use area within the terrace cap, including earth mounds, asphalt and concrete trail surfaces, a mound slide and rock scramble, a bicycle rack, and concrete pads for future structures; and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the 2020 Standard Specifications.

Schedule: All work is to be completed between April 1 and October 15. The project shall be physically completed within 112 working days. No work shall occur within the Ordinary High Water (OHW) of the Skagit River before July 15 or after August 15 as required by the Department of the Army Nationwide Permit (NWP) 27 issued by the U.S. Army Corps of Engineers and the Hydraulic Project Approval (HPA) permit issued by the Washington Department of Fish and Wildlife, included in the Contract Documents.

Measurement & Payment: Each item will be per the bid proposal.

**Presentin Park Side Channel Restoration and
Recreational Improvements Project
#RCO 16-1730**

**2021
Skagit County
Department of Parks and Recreation
Mount Vernon, Washington 98273-5625**

NOTICE TO ALL PLAN HOLDERS

Copies of the plans and specifications are available at Skagit County Parks and Recreation, 1730 Continental Place, Mount Vernon, WA 98273-5625. Telephone: (360) 416-1350. You may receive the bid information electronically; copies of the plans and specifications are available at: <http://www.skagitcounty.net/rfp>

APPROVED:




Brian Adams
Parks and Recreation Department Director

PLANS AND SPECIFICATIONS APPROVED:

**BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON**



Lisa Janicki, Chair



Peter Browning, Commissioner

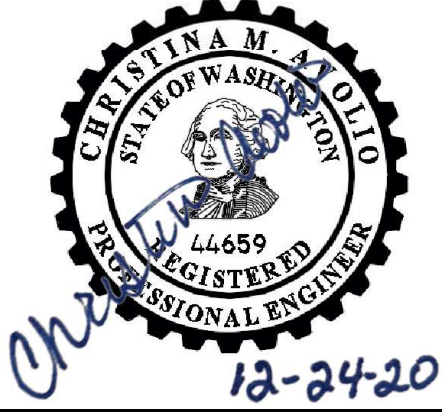

Ron Wesen, Commissioner

PRESSENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS

SPECIAL PROVISIONS SPECIFICATIONS

CERTIFICATION

I hereby certify that these contract documents were prepared by me or under my direct supervision, and that I am a duly registered Professional Engineer or Licensed Landscape Architect under the laws of the State of Washington.

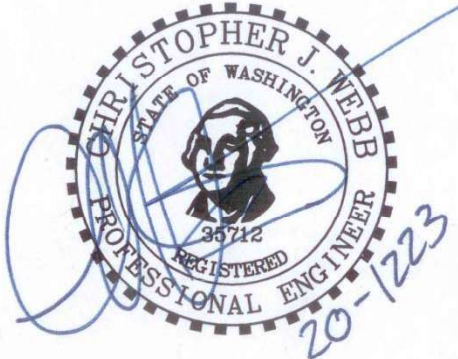
<p>Christina Avolio, P.E. Herrera Environmental Consultants 2200 6th Avenue, Suite 1100 Seattle, WA 98121</p> <p>Sections: 2-01, 2-03, 2-05, 2-09, 6-20, 8-01.3(1), 8-05, 9-13, 9-14.1, 9-14.6, 9-37, 9-38</p> <hr/> <p>Senior Project Engineer for side channel, log structure designs, and responsible for associated sections of this document.</p>	
<p>Kate Forester, P.L.A. Herrera Environmental Consultants 1001 SE Water Avenue Suite 290 Portland, OR 97214</p> <p>Sections: 2.01, 2.03.2, 2-06, Division 4, Division 5, 8-01.3(2), 8-01.3(4), 8-02, 8-19, 9-01, 9-14.2, 9-14.4, 9-14.5, 9-33.1</p> <hr/> <p>Landscape Architect for recreational improvements, seeding plan designs, and responsible for associated sections of this document.</p>	

PRESSENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS

SPECIAL PROVISIONS SPECIFICATIONS

CERTIFICATION

I hereby certify that these contract documents were prepared by me or under my direct supervision, and that I am a duly registered Professional Engineer or Licensed Landscape Architect under the laws of the State of Washington.


<p>Chris Webb, P.E. Herrera Environmental Consultants 2200 6th Avenue, Suite 1100 Seattle, WA 98121</p> <p>Sections: Division 7, 9-30.1, 9-33.1</p> <hr/> <p>Associate Engineer for water line design and for associated sections of this document.</p>	
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PRESSENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS

SPECIAL PROVISIONS SPECIFICATIONS

CERTIFICATION

I hereby certify that these contract documents were prepared by me or under my direct supervision, and that I am a duly registered Professional Engineer or Licensed Landscape Architect under the laws of the State of Washington.

<p>Erik Andersen, P.E. Aspect Consulting, LLC 907 Harris Street, Suite 301 Bellingham, WA 98225</p> <p>Sections: 6-20, 6-21</p> <hr/> <p>Geotechnical Engineer for geosynthetic reinforced soil (GRS) bridge abutment design as detailed in Special Provision Section 6-21, and for GRS-related provisions of bridge structures Special Provision Section 6-20</p>	 <p>12/28/2020</p>
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NOTICE OF CALL FOR BIDS

NOTICE IS HEREBY GIVEN by SKAGIT COUNTY that sealed bids will be received and publicly opened in the Commissioners' Hearing Room, 1800 Continental Place, Mount Vernon, WA 98273 on **Monday, February 8, 2021 at the hour of 3:30 p.m.**, or as soon thereafter as possible, for the following construction work:

Attendance will be remote by computer, tablet or smartphone:

<https://global.gotomeeting.com/join/220727813> or by telephone: 1 (646) 749-3122 - Access Code: 220 727 813.

PROJECT DESCRIPTION: Pressentin Park Side Channel Restoration and Recreational Improvements Project #RCO 16-1730

This Contract provides for improvements at Pressentin Park. This work includes, but is not limited to; excavation and construction of a new side channel of the Skagit River in the floodplain; clearing and grubbing, construction access, and erosion control; embankment construction and compaction, capping along the terrace slope, coordination with cultural monitoring by others; log structure installation, wetland reconnection, and seeding; construction of new gravel surface ADA trail, portions of which will be constructed for occasional maintenance vehicle use; installation of three prefabricated bridges currently stockpiled at a nearby County pit; construction of a new bicycle only campground; construction of a new picnic shelter or two if funds allow; and concrete pads for future structures; installation of a new recreational water line to the new picnic shelter; construction of a new Day Use area within the terrace cap, including earth mounds, asphalt and concrete trail surfaces, a mound slide and rock scramble, a bicycle rack, and concrete pads for future structures; and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the 2020 Standard Specifications.

All work is to be completed between April 1 and October 15. The project shall be physically completed within 112 working days. No work shall occur within the Ordinary High Water (OHW) of the Skagit River before July 15 or after August 15 as required by project permits.. The Engineer's Estimate Range is \$2,145,043 to \$2,700,000.

Contractor and all subcontractors shall have a contractor's license to work in the State of Washington.

Information, copies of maps, plans, specifications, and addenda for this project will be available on-line beginning **January 14, 2021** at <http://www.skagitcounty.net/rfp> or obtained at Skagit County Parks Department, 1730 Continental Place, Mount Vernon, WA 98273-5625; (360) 416-1350. Contractors who download plans and specifications are advised to e-mail mahenry@co.skagit.wa.us to be added to plan holders list to receive any addenda that may be issued.

An optional, non-mandatory pre-bid meeting will be held Wednesday, January 20, at 10:00 a.m. at the **Pressentin Park Trailhead, 59924 State Route 20, Marblemount, WA**. All technical questions regarding this project are to be submitted **no later than 4:30 p.m., Friday, January 22, 2021** in writing to Brian Adams, Project Manager, or by e-mail to briana@co.skagit.wa.us with the subject line reading, "**Pressentin Park Project #RCO 16-1730**". All project specific questions and response to answers for this project will be available on-line as received. **All Addenda will be posted on-line for this project by 5:00 p.m. Monday, January 25, 2021.** If further Addenda are required, the bid opening may be postponed.

All bid envelopes must be plainly marked on the outside, "**Sealed Bid for Presentin Park Project #RCO 16-1730**". Sealed bids shall be received by one of the following delivery methods before **Monday, February 8, 2021 at the hour of 3:30 p.m.** Proposals are to be submitted on the forms provided in the Bid Proposal Packet. Incomplete proposals and proposals received after the time fixed for the opening cannot be considered. Oral, telephonic, telegraphic, electronic or faxed proposals will not be accepted. All bidding shall be based upon compliance with the Contract Provisions and Plans.

1. **Hand delivered:** Bids delivered in person shall be received only at the office of the SKAGIT COUNTY COMMISSIONERS, Reception Desk, 1800 Continental Place, Suite 100, Mount Vernon, WA 98273-5625.
2. **Via mail:** Bids shall be mailed to the SKAGIT COUNTY COMMISSIONERS, 1800 Continental Place, Suite 100, Mount Vernon, WA 98273-5625.

BID GUARANTY: No bid will be considered unless accompanied by a surety company bid bond, or a certified or cashier's check payable to the order of Skagit County for a sum not less than five percent (5%) of the total amount of the bid. A Contract Bond covering performance and payment will be required with the contract. Washington State Prevailing Wage Rates apply to this contract and bidders are advised to consider this charge when tabulating bids.

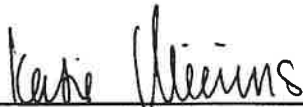
Skagit County reserves the right to reject any or all bids, and the right to waive any informalities or irregularities in any bid or in any bidding and to further award the Project to the lowest, responsive, responsible bidder whose bid complies with all of the prescribed formalities, as it best serves the interest of Skagit County. After the date and hour set for the opening of bids, no bidder may withdraw its bid unless the award of the contract is delayed for a period exceeding sixty (60) calendar days following bid opening. All bidders agree to be bound by their bids until the expiration of this stated time period.

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

For questions regarding Skagit County's Title VI Program, you may contact the Public Works Department's Title VI Liaison, Bobbi Fisher, P.E., at (360) 416-1400

The Board of Skagit County Commissioners reserves the right to reject any or all bids.

NOTICE GIVEN BY ORDER OF THE BOARD OF SKAGIT COUNTY COMMISSIONERS this 11 day of January, 2021.



Clerk of the Board

Published: Skagit Valley Herald – January 14, January 21 and January 28, 2021

CONTRACT DOCUMENTS, GENERAL CONDITIONS, AND SPECIAL PROVISION SPECIFICATIONS

PRESSENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS PROJECT



Prepared for



Skagit County Parks and Recreation
1730 Continental Place
Mount Vernon, WA 98273

Prepared by

Herrera Environmental Consultants Inc.
2200 Sixth Avenue, Suite 1100
Seattle, Washington 98121

December 2020

1 **PRESENTIN PARK SIDE CHANNEL RESTORATION**
2 **AND RECREATIONAL IMPROVEMENTS PROJECT**

3 **SPECIAL PROVISIONS**

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33		Prevention Plan (CSWPPP)	
34	Appendix G:	Cultural Resources Monitoring Plan	
35	Appendix H:	Geotechnical Analysis Results	
36	Appendix I:	Skagit County Inspection Forms	
37	Appendix J:	Prefabricated Bridge Plans	
38	Appendix K:	Vicinity Map and Contract Plans	
39	Appendix L:	Picnic Shelter Special Provisions	

SPECIAL PROVISIONS

The following Special Provisions are made a part of this contract and supersede any conflicting provisions of the 2020 Standard Specifications for Road, Bridge and Municipal Construction and the foregoing Amendments to the Standard Specifications.

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

(date)	General Special Provision
(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
Bold & Underlined	Indicates a minor addition to a Special Provision
(Regions ¹ date)	Region Special Provision
(BSP date)	Bridges and Structures Special Provision
(date APWA GSP)	Local Agency General Special Provision, which has been approved by the APWA Div. 1 Subcommittee.
(date SkagitR)	Skagit County General Special Provision
(date SkagitF)	Skagit County Ferry General Special Provision

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

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

Regions ¹	
NWR	Northwest Region
WSF	Washington State Ferries Division

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

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

Skagit County General Special Provisions are only applicable in Skagit County Public Works contracts.

Skagit County Ferry General Special Provisions are only applicable in Skagit County Ferry Public Works contracts.

INTRODUCTION TO THE SPECIAL PROVISIONS

(August 14, 2013 APWA GSP)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2020 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The project-specific Special Provisions are not labeled as such. The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

(March 8, 2013 APWA GSP)
(April 1, 2013 WSDOT GSP)
(May 1, 2013 SkagitR GSP)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- *Standard Specifications for Road, Bridge and Municipal Construction*, WSDOT/APWA, current edition
- *Skagit County Development Guidelines & Improvement Standards*

Contractor shall obtain copies of these publications, at Contractor's own expense.

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**DIVISION 1
GENERAL REQUIREMENTS**

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25

DESCRIPTION OF WORK

26 (March 13, 1995)

27 This Contract provides for the improvement of Presentin Park. This work includes, but is
28 not limited to: excavation and construction of a new side channel of the Skagit River in the
29 floodplain; clearing and grubbing, construction access, and erosion control; embankment
30 construction and compaction, capping along the terrace slope, coordination with cultural
31 monitoring by others; log structure installation, wetland reconnection, and seeding;
32 construction of new gravel surface ADA trail, portions of which will be constructed for
33 occasional maintenance vehicle use; installation of three prefabricated bridges currently
34 stockpiled at a nearby County pit; construction of a new bicycle only campground;
35 construction of a new picnic shelter or two if funds allow, and concrete pads for future
36 structures; installation of a new recreational waterline to the new picnic shelter; construction
37 of a new Day Use area within the terrace cap, including earth mounds, asphalt and concrete
38 trail surfaces, a mound slide and rock scramble, a bicycle rack, and concrete pads for future
39 structures; and other work, all in accordance with the attached Contract Plans, these
40 Contract Provisions, and the 2020 Standard Specifications.

41
42
43
44

1-01 DEFINITIONS AND TERMS

45
46
47
48

1-01.3 Definitions

49 (January 4, 2016 APWA GSP)

50 Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace
51 them with the following:

52
53
54
55

Dates

56
57
58
59

Bid Opening Date

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

61
62
63
64

Award Date

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

67
68
69
70

Contract Execution Date

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

72
73
74
75

Notice to Proceed Date

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

77
78
79
80

Substantial Completion Date

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

86
87
88
89

Physical Completion Date

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

93
94
95
96

Completion Date

97 The day all the Work specified in the Contract is completed and all the obligations
98 of the Contractor under the contract are fulfilled by the Contractor. All

1 documentation required by the Contract and required by law must be furnished by
2 the Contractor before establishment of this date.

3 **Final Acceptance Date**

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

5
6 Section 1-01.3 is supplemented with the following:
7

8 All references in the Standard Specifications, Amendments, or WSDOT General Special
9 Provisions, to the terms “Department of Transportation”, “Washington State
10 Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”,
11 “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.

12
13 All references to the terms “State” or “state” shall be revised to read “Contracting
14 Agency” unless the reference is to an administrative agency of the State of Washington,
15 a State statute or regulation, or the context reasonably indicates otherwise.

16
17 All references to “State Materials Laboratory” shall be revised to read “Contracting
18 Agency designated location”.

19
20 All references to “final contract voucher certification” shall be interpreted to mean the
21 Contracting Agency form(s) by which final payment is authorized, and final completion
22 and acceptance granted.

23
24 **Additive**

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

28
29 **Alternate**

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

33
34 **Biologist**

35 Shall consist of a biologist from the Contracting Agency.

36
37 **Business Day**

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

40
41 **Contract Bond**

42 The definition in the Standard Specifications for “Contract Bond” applies to whatever
43 bond form(s) are required by the Contract Documents, which may be a combination of a
44 Payment Bond and a Performance Bond.

45
46 **Contract Documents**

47 See definition for “Contract”.

48
49 **Contract Specifications or Specifications**

50 Shall mean the prescribed directions, requirements, explanations, terms and provisions
51 pertaining to the various features of the work to be done, or manner and method of

1 performance, and the manner and method of measurements and payments. They also
2 include directions, requirements, and explanations as set forth on the Plans.
3

4 **Contract Time**

5 The period of time established by the terms and conditions of the Contract within which
6 the Work must be physically completed.
7

8 **Future Phase**

9 Work shown and referenced as “Future Phase” on the Contract Plans is anticipated to
10 be developed in a future project and not included in this Construction Contract.
11

12 **Landscape Architect**

13 Shall be the Landscape Architect of record for the Contract Plans.
14

15 **Notice of Award**

16 The written notice from the Contracting Agency to the successful Bidder signifying the
17 Contracting Agency’s acceptance of the Bid Proposal.
18

19 **Notice to Proceed**

20 The written notice from the Contracting Agency or Engineer to the Contractor
21 authorizing and directing the Contractor to proceed with the Work and establishing the
22 date on which the Contract time begins.
23

24 **Not in Contract**

25 Work shown and referenced as “Not in Contract” on the Contract Plans is part of the
26 overall permitted project, but to be constructed by others, and not included in this
27 Construction Contract.
28

29 **Owner**

30 The Contracting Agency or entity that is a part of this contract, contracting under the
31 official name set forth in the Contract Form/Agreement Form.
32

33 **Owner’s Representative or Project Officer**

34 The designated representative of the Owner or Contracting Agency authorized to act on
35 the behalf of the Owner or Contracting Agency with respect to the Project.
36

37 **Traffic**

38 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs,
39 and equestrian traffic.
40

41 **1-02 BID PROCEDURES AND CONDITIONS**

42
43 **Prequalification of Bidders**

44 Section 1-02.1 is replaced with the following:
45

46 **1-02.1 Qualifications of Bidder**

47 *(January 24, 2011 APWA GSP)*
48

49 Before award of a public works contract, a bidder must meet at least the minimum
50 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified
51 to be awarded a parks department project.
52

1 Section 1-02.1 is supplemented with the following:

2
3 (*****)

4 Bid acceptance shall be based on the following requirements:

- 5
6 1. The enclosed Supplemental Bidders Responsibility Criteria, including for Criteria 8
7 and 9 described in Section 1-02.14, shall be filled out completely and returned with
8 the Bid Proposal.
9

10 Add the following new section:

11
12 (*****)

13 **1-02.1(1) Supplemental Qualifications Criteria**

14
15 In addition, the Contracting Agency has established Contracting Agency-specific and/or
16 project-specific supplemental criteria, in accordance with RCW 39.04.350(3), for
17 determining Bidder responsibility, including the basis for evaluation and the deadline for
18 appealing a determination that a Bidder is not responsible. These criteria are contained
19 in Section 1-02.14 Option C of these Special Provisions.
20

21 **1-02.2 Plans and Specifications**

22 *(June 27, 2011 APWA GSP)*

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

25
26 Information as to where Bid Documents can be obtained or reviewed can be found in
27 the Call for Bids (Advertisement for Bids) for the work.
28

29 After award of the contract, plans and specifications will be issued to the Contractor at
30 no cost as detailed below:
31

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	4	Furnished automatically upon award.
Contract Provisions	4	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

32
33 Additional plans and Contract Provisions may be obtained by the Contractor from the
34 source stated in the Call for Bids, at the Contractor's own expense.
35

36 **1-02.5 Proposal Forms**

37 *(July 31, 2017 APWA GSP)*

38
39 Delete this section and replace it with the following:

40
41 The Proposal Form will identify the project and its location and describe the work. It will
42 also list estimated quantities, units of measurement, the items of work, and the
43 materials to be furnished at the unit bid prices. The bidder shall complete spaces on the
44 proposal form that call for, but are not limited to, unit prices; extensions; summations;
45 the total bid amount; signatures; date; and, where applicable, retail sales taxes and
46 acknowledgment of addenda; the bidder's name, address, telephone number, and
47 signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of
48 Washington Contractor's Registration Number; and a Business License Number, if

1 applicable. Bids shall be completed by typing or shall be printed in ink by hand,
2 preferably in black ink. The required certifications are included as part of the Proposal
3 Form.

4
5 The Contracting Agency reserves the right to arrange the proposal forms with alternates
6 and additives, if such be to the advantage of the Contracting Agency. The bidder shall
7 bid on all alternates and additives set forth in the Proposal Form unless otherwise
8 specified.

9
10 **1-02.6 Preparation of Proposal**
11 *(July 11, 2018 APWA GSP)*

12
13 Supplement the second paragraph with the following:

- 14
15 4. If a minimum bid amount has been established for any item, the unit or lump sum
16 price must equal or exceed the minimum amount stated.
17
18 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be
19 initialed by the signer of the bid.

20
21 Delete the last two paragraphs, and replace them with the following:

22
23 If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any
24 Subcontractor to perform those items of work.

25
26 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
27 Compliance form, provided by the Contracting Agency. Failure to return this certification
28 as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for
29 Award. A Contractor Certification of Wage Law Compliance form is included in the
30 Proposal Forms.

31
32 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

33
34 A bid by a corporation shall be executed in the corporate name, by the president or a
35 vice president (or other corporate officer accompanied by evidence of authority to sign).

36
37 A bid by a partnership shall be executed in the partnership name, and signed by a
38 partner. A copy of the partnership agreement shall be submitted with the Bid Form if any
39 UDBE requirements are to be satisfied through such an agreement.

40
41 A bid by a joint venture shall be executed in the joint venture name and signed by a
42 member of the joint venture. A copy of the joint venture agreement shall be submitted
43 with the Bid Form if any UDBE requirements are to be satisfied through such an
44 agreement.

45
46 Section 1-02.6 is supplemented with the following:

47
48 (August 3, 2015)

49 **Cumulative Alternates Bidding**

50 The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as
51 part of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of
52 the Alternate(s).

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Bid Proposal

The Bid Proposal includes the following:

1. Base Bid
The Base Bid shall include constructing all items included in the Proposal *except* those items contained in the Alternate(s).
2. Alternate(s)
 - a. Alternate A1
Based on constructing (** Meadow Picnic Shelter **)
The Bid items for Alternate A1 are as listed in the Bid Proposal.
 - b. Alternate A2
Based on constructing (** Orchard Picnic Shelter **)
The Bid items for Alternate A2 are as listed in the Bid Proposal.

Bidding Procedures

To be considered responsive the Bidder shall submit a price on each and every Bid item included in the Base Bid and all Alternate(s.)

The successful Bidder will be the Bidder submitting the lowest responsible Bid for the highest order Preference that is within the amount of available funds for the project. Available funds will be announced immediately prior to the opening of Bids. The following are listed in order from highest to lowest Preference:

1. Preference 1: Lowest total for Base Bid plus Alternate A1 plus Alternate A2.
2. Preference 2: Lowest total for Base Bid plus Alternate A1.
3. Preference 3: Lowest total for Base Bid.

The Contracting Agency may, at their discretion, award a Contract for the Base Bid, without any additional Alternates, in the event that all Bids exceed the available funds announced. In any case, the award will be subject to the requirements of Section 1-03.

1-02.7 Bid Deposit

(March 8, 2013 APWA GSP)

1 Supplement this section with the following:
2

3 Bid bonds shall contain the following:

- 4 1. Contracting Agency-assigned number for the project;
- 5 2. Name of the project;
- 6 3. The Contracting Agency named as obligee;
- 7 4. The amount of the bid bond stated either as a dollar figure or as a percentage
8 which represents five percent of the maximum bid amount that could be awarded;
- 9 5. Signature of the bidder's officer empowered to sign official statements. The
10 signature of the person authorized to submit the bid should agree with the
11 signature on the bond, and the title of the person must accompany the said
12 signature;
- 13 6. The signature of the surety's officer empowered to sign the bond and the power of
14 attorney.

15
16 If so stated in the Contract Provisions, bidder must use the bond form included in the
17 Contract Provisions.

18
19 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
20

21 **1-02.9 Delivery of Proposal**

22 *(July 14, 2016 SkagitR)*
23

24 Delete Section 1-02.9 and replace it with the following:
25

26 Each proposal shall be submitted in a sealed envelope, with the Project Name and
27 Project Number as stated in the Call for Bids clearly marked on the outside of the
28 envelope, or as otherwise required in the Bid Documents, to ensure proper handling
29 and delivery.
30

31 The Contracting Agency will not open or consider any Bid Proposal that is received after
32 the time specified in the Call for Bids for receipt of Bid Proposals, or received in a
33 location other than that specified in the Call for Bids.
34

35 **1-02.10 Withdrawing, Revising, or Supplementing Proposal**

36 *(July 23, 2015 APWA GSP)*
37

38 Delete this section, and replace it with the following:
39

40 After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may
41 withdraw, revise, or supplement it if:
42

- 43 1. The Bidder submits a written request signed by an authorized person and
44 physically delivers it to the place designated for receipt of Bid Proposals, and
- 45 2. The Contracting Agency receives the request before the time set for receipt of
46 Bid Proposals, and
- 47 3. The revised or supplemented Bid Proposal (if any) is received by the
48 Contracting Agency before the time set for receipt of Bid Proposals.
49

1 If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received
2 before the time set for receipt of Bid Proposals, the Contracting Agency will return the
3 unopened Proposal package to the Bidder. The Bidder must then submit the revised or
4 supplemented package in its entirety. If the Bidder does not submit a revised or
5 supplemented package, then its bid shall be considered withdrawn.
6

7 Late revised or supplemented Bid Proposals or late withdrawal requests will be date
8 recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed
9 requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.
10

11 **1-02.12 Public Opening Of Proposal**

12 *(July 14, 2016 SkagitR)*
13

14 Section 1-02.12 is supplemented with the following:
15

16 Sealed bids shall be received at the time and location specified in the Call for Bids, unless
17 modified by addenda.
18

19 **1-02.13 Irregular Proposals**

20 *(October 1, 2020 APWA GSP)*
21

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

- 24 1. A Proposal will be considered irregular and will be rejected if:
 - 25 a. The Bidder is not prequalified when so required;
 - 26 b. The authorized Proposal form furnished by the Contracting Agency is not used
27 or is altered;
 - 28 c. The completed Proposal form contains any unauthorized additions, deletions,
29 alternate Bids, or conditions;
 - 30 d. The Bidder adds provisions reserving the right to reject or accept the award, or
31 enter into the Contract;
 - 32 e. A price per unit cannot be determined from the Bid Proposal;
 - 33 f. The Proposal form is not properly executed;
 - 34 g. The Bidder fails to submit or properly complete a Subcontractor list, if
35 applicable, as required in Section 1-02.6;
 - 36 h. The Bidder fails to submit or properly complete a Disadvantaged Business
37 Enterprise Certification, if applicable, as required in Section 1-02.6;
 - 38 i. The Bidder fails to submit written confirmation from each DBE firm listed on the
39 Bidder's completed DBE Utilization Certification that they are in agreement with
40 the bidder's DBE participation commitment, if applicable, as required in Section
41 1-02.6, or if the written confirmation that is submitted fails to meet the
42 requirements of the Special Provisions;
 - 43 j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable,
44 as required in Section 1-02.6, or if the documentation that is submitted fails to
45 demonstrate that a Good Faith Effort to meet the Condition of Award was made;
 - 46 k. The Bidder fails to submit a DBE Bid Item Breakdown form, if applicable, as
47 required in Section 1-02.6, or if the documentation that is submitted fails to meet
48 the requirements of the Special Provisions;
 - 49 l. The Bidder fails to submit DBE Trucking Credit Forms, if applicable, as required
50 in Section 1-02.6, or if the documentation that is submitted fails to meet the
51 requirements of the Special Provisions;

- 1 m. The Bid Proposal does not constitute a definite and unqualified offer to meet the
- 2 material terms of the Bid invitation; or
- 3 n. More than one Proposal is submitted for the same project from a Bidder under
- 4 the same or different names.
- 5
- 6 2. A Proposal may be considered irregular and may be rejected if:
- 7 a. The Proposal does not include a unit price for every Bid item;
- 8 b. Any of the unit prices are excessively unbalanced (either above or below the
- 9 amount of a reasonable Bid) to the potential detriment of the Contracting
- 10 Agency;
- 11 c. Receipt of Addenda is not acknowledged;
- 12 d. A member of a joint venture or partnership and the joint venture or partnership
- 13 submit Proposals for the same project (in such an instance, both Bids may be
- 14 rejected); or
- 15 e. If Proposal form entries are not made in ink.
- 16

17 **1-02.14 Disqualification of Bidders**

18 *(May 17, 2018 APWA GSP, Option C)*

19

20 Delete this section and replace it with the following:

21

22 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory

23 bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet

24 Supplemental Criteria 1-7 in this Section:

25

26 The Contracting Agency will verify that the Bidder meets the mandatory bidder

27 responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence

28 that the Bidder meets Supplemental Criteria 3-9 shall be provided by the Bidder as

29 stated later in this Section.

30

31 **1. Delinquent State Taxes**

- 32
- 33 A. Criterion: The Bidder shall not owe delinquent taxes to the Washington State
 - 34 Department of Revenue without a payment plan approved by the Department
 - 35 of Revenue.
 - 36
 - 37 B. Documentation: The Bidder, if and when required as detailed below, shall sign
 - 38 a statement (on a form to be provided by the Contracting Agency) that the
 - 39 Bidder does not owe delinquent taxes to the Washington State Department of
 - 40 Revenue, or if delinquent taxes are owed to the Washington State Department
 - 41 of Revenue, the Bidder must submit a written payment plan approved by the
 - 42 Department of Revenue, to the Contracting Agency by the deadline listed
 - 43 below.
 - 44

45 **2. Federal Debarment**

- 46
- 47 A. Criterion: The Bidder shall not currently be debarred or suspended by the
 - 48 Federal government.
 - 49
 - 50 B. Documentation: The Bidder shall not be listed as having an “active exclusion”
 - 51 on the U.S. government’s “System for Award Management” database
 - 52 (www.sam.gov).

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3. **Subcontractor Responsibility**

- A. Criterion: The Bidder’s standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder’s subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also “responsible” subcontractors as defined by RCW 39.06.020.
- B. Documentation: The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Claims Against Retainage and Bonds**

- A. Criterion: The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:
 - Name of project
 - The owner and contact information for the owner;
 - A list of claims filed against the retainage and/or payment bond for any of the projects listed;
 - A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

5. **Public Bidding Crime**

- A. Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.
- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

6. **Termination for Cause / Termination for Default**

- 1 A. Criterion: The Bidder shall not have had any public works contract terminated
2 for cause or terminated for default by a government agency in the five years
3 prior to the bid submittal date, unless there are extenuating circumstances and
4 such circumstances are deemed acceptable to the Contracting Agency.
5
6 B. Documentation: The Bidder, if and when required as detailed below, shall sign
7 a statement (on a form to be provided by the Contracting Agency) that the
8 Bidder has not had any public works contract terminated for cause or
9 terminated for default by a government agency in the five years prior to the bid
10 submittal date; or if Bidder was terminated, describe the circumstances.

11
12 **7. Lawsuits**

- 13
14 A. Criterion: The Bidder shall not have lawsuits with judgments entered against
15 the Bidder in the five years prior to the bid submittal date that demonstrate a
16 pattern of failing to meet the terms of contracts, unless there are extenuating
17 circumstances and such circumstances are deemed acceptable to the
18 Contracting Agency.
19
20 B. Documentation: The Bidder, if and when required as detailed below, shall sign
21 a statement (on a form to be provided by the Contracting Agency) that the
22 Bidder has not had any lawsuits with judgments entered against the Bidder in
23 the five years prior to the bid submittal date that demonstrate a pattern of
24 failing to meet the terms of contracts, or shall submit a list of all lawsuits with
25 judgments entered against the Bidder in the five years prior to the bid
26 submittal date, along with a written explanation of the circumstances
27 surrounding each such lawsuit. The Contracting Agency shall evaluate these
28 explanations to determine whether the lawsuits demonstrate a pattern of
29 failing to meet of terms of construction related contracts.
30

31 **8. Bidder's Prior Work Experience Constructing Stream, River, or Floodplain**
32 **Restoration**

- 33
34 A. Criterion: The Bidder or its subcontractor(s) shall demonstrate that the
35 Superintendent, Foreman, and Equipment Operator for side channel
36 construction work have prior experience on a minimum of three projects of
37 similar size and scope to the subject project from within the five years prior to
38 the bid submittal date. If a subcontractor is used to meet this Criterion, the
39 Bidder shall be responsible for retaining the subcontractor for the duration of
40 the side channel construction.
41
42 B. Documentation: The Bidder or its subcontractor(s), if and when required as
43 detailed below, shall submit a list of at least three projects completed in the
44 five years prior to the bid submittal date that have had channel construction of
45 similar size and scope and include for each project the following information:
46
 - A written description of the work elements that must include:
 - Operating equipment and installing engineered wood or log
48 structures (with a cumulative total of at least 30 pieces of large
49 woody debris or logs) within identified ordinary high water lines
50 of a stream, river, or lake.
 - The installation of a temporary streamflow bypass.
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- Successful compliance with the requirements of a Hydraulic Project Approval (HPA) permit written by the Washington Department of Fish and Wildlife.
- For each of the three (3) qualifying projects, identify the following:
 - Name of the project and how it meets each of the additional requirements identified above
 - The Hydraulic Project Approval control number
 - Initial contract time (start and end dates), and final contract time (actual end dates)
 - The initial contract value
 - The final contract value
 - Name and telephone number of project owner
 - Name and telephone number of the owner’s project manager or other person who can verify the Contractor’s experience

The same projects may be used to meet Criteria 8 and 9 if the project had both channel construction and park construction of similar size and scope.

9. **Bidder’s Prior Work Experience Constructing Park Projects**

- A. Criterion: The Bidder or its subcontractor(s) shall have prior experience on a minimum of three projects of similar size and scope to the subject project from within the five years prior to the bid submittal date. If a subcontractor is used to meet this Criterion, the Bidder shall be responsible for retaining the subcontractor for the duration of construction of recreational park elements.
- B. Documentation: The Bidder or its subcontractor(s), if and when required as detailed below, shall submit a list of at least three parks construction projects completed in the five years prior to the bid submittal date that have had park construction of similar size and scope and include for each project the following information:
 - Name of project
 - The owner and contact information for the owner;
 - A written description of the project scope or portions of the project scope as they relate to park construction.

The same projects may be used to meet Criteria 8 and 9 if the project had both culvert replacement and soldier pile wall construction of similar size and scope.

As evidence that the Bidder meets the Supplemental Bidder Responsibility Criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets the Supplemental Criteria together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with the Supplemental Responsibility Criteria. The Contracting Agency reserves the right to request further documentation as needed from the low bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder’s compliance with the mandatory and

1 supplemental criteria, and to use that information in their evaluation. The Contracting
2 Agency may consider mitigating factors in determining whether the Bidder complies
3 with the requirements of the Supplemental Criteria.
4

5 The basis for evaluation of Bidder compliance with these mandatory and Supplemental
6 Criteria shall include any documents or facts obtained by Contracting Agency (whether
7 from the Bidder or third parties) including but not limited to: (i) financial, historical, or
8 operational data from the Bidder; (ii) information obtained directly by the Contracting
9 Agency from others for whom the Bidder has worked, or other public agencies or
10 private enterprises; and (iii) any additional information obtained by the Contracting
11 Agency which is believed to be relevant to the matter.
12

13 If the Contracting Agency determines the Bidder does not meet the bidder responsibility
14 criteria above and is therefore not a responsible Bidder, the Contracting Agency shall
15 notify the Bidder in writing, with the reasons for its determination. If the Bidder
16 disagrees with this determination, it may appeal the determination within two (2)
17 business days of the Contracting Agency's determination by presenting its appeal and
18 any additional information to the Contracting Agency. The Contracting Agency will
19 consider the appeal and any additional information before issuing its final determination.
20 If the final determination affirms that the Bidder is not responsible, the Contracting
21 Agency will not execute a contract with any other Bidder until at least two business days
22 after the Bidder determined to be not responsible has received the Contracting
23 Agency's final determination.
24

25 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders
26 with concerns about the relevancy or restrictiveness of the Supplemental Bidder
27 Responsibility Criteria may make or submit requests to the Contracting Agency to
28 modify the criteria. Such requests shall be in writing, describe the nature of the
29 concerns, and propose specific modifications to the criteria. Bidders shall submit such
30 requests to the Contracting Agency no later than five (5) business days prior to the bid
31 submittal deadline and address the request to the Project Engineer or such other
32 person designated by the Contracting Agency in the Bid Documents.
33

34 **1-02.15 Pre Award Information** 35 *(August 14, 2013 APWA GSP)* 36

37 Revise this section to read:
38

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

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

1
2 **1-03 AWARD AND EXECUTION OF CONTRACT**
3

4 **1-03.1(1) Identical Bid Totals**

5 *(January 4, 2016 APWA GSP)*
6

7 Revise this section to read:
8

9 After opening Bids, if two or more lowest responsive Bid totals are exactly equal, then
10 the tie-breaker will be the Bidder with an equal lowest bid, that proposed to use the
11 highest percentage of recycled materials in the Project, per the form submitted with the
12 Bid Proposal. If those percentages are also exactly equal, then the tie-breaker will be
13 determined by drawing as follows: Two or more slips of paper will be marked as follows:
14 one marked "Winner" and the other(s) marked "unsuccessful". The slips will be folded to
15 make the marking unseen. The slips will be placed inside a box. One authorized
16 representative of each Bidder shall draw a slip from the box. Bidders shall draw in
17 alphabetic order by the name of the firm as registered with the Washington State
18 Department of Licensing. The slips shall be unfolded and the firm with the slip marked
19 "Winner" will be determined to be the successful Bidder and eligible for Award of the
20 Contract. Only those Bidders who submitted a Bid total that is exactly equal to the
21 lowest responsive Bid, and with a proposed recycled materials percentage that is
22 exactly equal to the highest proposed recycled materials amount, are eligible to draw.
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
30 available for signature by the successful bidder on the first business day following
31 award. The number of copies to be executed by the Contractor will be determined by
32 the Contracting Agency.
33

34 Within twenty one (21) calendar days after the award date, the successful bidder shall
35 return the signed Contracting Agency-prepared contract, an insurance certification as
36 required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-
37 03.4. Before execution of the contract by the Contracting Agency, the successful bidder
38 shall provide any pre-award information the Contracting Agency may require under
39 Section 1-02.15.
40

41 Until the Contracting Agency executes a contract, no proposal shall bind the
42 Contracting Agency nor shall any work begin within the project limits or within
43 Contracting Agency-furnished sites. The Contractor shall bear all risks for any work
44 begun outside such areas and for any materials ordered before the contract is executed
45 by the Contracting Agency.
46

47 If the bidder experiences circumstances beyond their control that prevents return of the
48 contract documents within the calendar days after the award date stated above, the
49 Contracting Agency may grant up to a maximum of ten (10) additional calendar days
50 for return of the documents, provided the Contracting Agency deems the circumstances
51 warrant it.
52

1 **1-03.4 Contract Bond**
2 *(July 23, 2015 APWA GSP)*

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

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

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

36
37 **1-03.7 Judicial Review**
38 *(November 30, 2018 APWA GSP)*

39
40 Revise this section to read:

41
42 Any decision made by the Contracting Agency regarding the Award and execution of
43 the Contract or Bid rejection shall be conclusive subject to the scope of judicial review
44 permitted under Washington Law. Such review, if any, shall be timely filed in the
45 Superior Court of the county where the Contracting Agency headquarters is located,
46 provided that where an action is asserted against a county, RCW 36.01.050 shall
47 control venue and jurisdiction.

48
49 **1-04 SCOPE OF THE WORK**

1 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**
2 **Specifications, and Addenda**

3 *(March 13, 2012 APWA GSP)*

4
5 Revise the second paragraph to read:

6
7 Any inconsistency in the parts of the contract shall be resolved by following this order of
8 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 9 1. Addenda,
- 10 2. Proposal Form,
- 11 3. Special Provisions,
- 12 4. Contract Plans,
- 13 5. Amendments to the Standard Specifications,
- 14 6. Standard Specifications,
- 15 7. Contracting Agency's Standard Plans or Details (if any), and
- 16 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

17
18 **1-05 CONTROL OF WORK**

19
20 **1-05.4 Conformity with and Deviations from Plans and Stakes**

21 Section 1-05.4 is supplemented with the following:

22
23 *(August 7, 2017)*

24 **Contractor Surveying - Habitat**

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

27
28 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
29 stakes, slope stakes, and grades necessary for the construction of the side channel,
30 stream banks, log structures, seeding areas, as well as installation of the pre-fabricated
31 bridges. Except for the survey control data to be furnished by the Contracting Agency,
32 calculations, surveying, and measuring required for setting and maintaining the
33 necessary lines and grades shall be the Contractor's responsibility.

34
35 The Contractor shall inform the Engineer when monuments are discovered that were
36 not identified in the Plans and construction activity may disturb or damage the
37 monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected
38 throughout the length of the project or be replaced at the Contractors expense.

39
40 Detailed survey records shall be maintained, including a description of the work
41 performed on each shift, the methods utilized, and the control points used. The record
42 shall be adequate to allow the survey to be reproduced. A copy of each day's record
43 shall be provided to the Engineer within three working days after the end of the shift.

44
45 The meaning of words and terms used in this provision shall be as listed in "Definitions
46 of Surveying and Associated Terms" current edition, published by the American
47 Congress on Surveying and Mapping and the American Society of Civil Engineers.

48
49 The survey work shall include but not be limited to the following:
50

- 1 2. Verify the primary horizontal and vertical control furnished by the Contracting
2 Agency, and expand into secondary control by adding stakes and hubs as well
3 as additional survey control needed for the project. Provide descriptions of
4 secondary control to the Contracting Agency. The description shall include
5 coordinates and elevations of all secondary control points.
6
- 7 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks
8 on centerline or on offsets to centerline at all log structure survey control point
9 locations and at points on the alignments spaced no further than 25 feet.
10
- 11 3. Establish the seeding area boundaries, based on the final Clearing and
12 Clearing and Grubbing limits, or as otherwise shown in the Plans.
13
- 14 4. Establish side channel and stream bank grading limits, placing slope stakes at
15 centerline increments not more than 50 feet apart. Establish offset reference to
16 all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are
17 used to provide grade control, then slope stakes may be omitted at the
18 discretion of the Contractor.
19
- 20 5. Establish side channel and bank surface elevations by placing stakes at the top
21 of subgrade and at the top of each course of surfacing. Subgrade and surfacing
22 stakes shall be set at horizontal intervals not greater than 25 feet. Stakes shall
23 be placed at all locations where the stream channel slope changes and at
24 additional points such that the transverse spacing of stakes is not more than 12
25 feet. If GPS Machine Controls are used to provide grade control, then roadbed
26 and surfacing stakes may be omitted at the discretion of the Contractor.
27
- 28 6. Establish intermediate elevation benchmarks as needed to check work
29 throughout the project.
30
- 31 7. For all other types of construction included in this provision, provide staking and
32 layout as necessary to adequately locate, construct, and check the specific
33 construction activity.
34
- 35 8. Contractor shall determine if changes are needed to the creek profiles or
36 sections shown in the Contract Plans in order to tie channel and bank grades in
37 to existing grades at the upstream and downstream limits of the project. The
38 Contractor shall submit these changes to the Engineer for review and approval
39 10 days prior to the beginning of work.
40

41 The Contractor shall provide the Contracting Agency copies of any calculations and
42 staking data when requested by the Engineer.
43

44 To facilitate the establishment of these lines and elevations, the Contracting Agency will
45 provide the Contractor with primary survey control information consisting of descriptions
46 of two primary control points used for the horizontal and vertical control, as well as the
47 information from the side channel centerline control table and the log survey control
48 point tables included in the Contract Plans.
49

50 Primary control points will be described by reference to the project alignment and the
51 coordinate system and elevation datum utilized by the project. In addition, the

1 Contracting Agency will supply horizontal coordinates for the beginning and ending
2 points and for each Point of Intersection (PI) on each alignment included in the project.

3
4 The Contractor shall ensure a surveying accuracy within the following tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
5		
6		
7	Slope stakes	±0.10 feet
8	Subgrade grade stakes set	±0.10 feet
9	0.04 feet below grade	±0.01 feet
10		±0.5 feet
11		(parallel to alignment)
12		±0.1 feet
13		(normal to alignment)
14	Stationing on side channel	±0.1 feet
15	Alignment on side channel	±0.05 feet
16		
17	Stationing on engineered log structures	±0.1 feet
18	Alignment on engineered log structures	±0.05 feet
19		
20		
21	Surfacing grade stakes	±0.01 feet
22		±0.5 feet
23		(parallel to alignment)
24		±0.1 feet
25		(normal to alignment)

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

28
29 When staking engineered log structure and stream channel alignment and stationing,
30 the Contractor shall perform independent checks from different secondary control to
31 ensure that the points staked are within the specified survey accuracy tolerances.

32
33 The Contractor may calculate additional coordinates for the stream channel alignment.
34 The Contracting Agency will verify any additional coordinates prior to issuing approval
35 to the Contractor for commencing with the work. The Contracting Agency will require up
36 to seven calendar days from the date the data is received.

37
38 Contract work to be performed using contractor-provided stakes shall not begin until the
39 stakes are approved by the Contracting Agency. Such approval shall not relieve the
40 Contractor of responsibility for the accuracy of the stakes.

41
42 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
43 needed that are not described in the Plans, then those stakes shall be marked, at no
44 additional cost to the Contracting Agency as ordered by the Engineer.

45
46 **Payment**

47 Payment will be made for the following bid item when included in the proposal:

48 "Habitat Surveying", lump sum.
49
50

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

5
6 *(August 7, 2017)*

7 **Contractor Surveying - Recreation**

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

10
11 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
12 stakes, slope stakes, and grades necessary for the construction of the recreational
13 project elements, including the day use area, trails, campground, surfacing, paving, and
14 furnishings. Except for the survey control data to be furnished by the Contracting
15 Agency, calculations, surveying, and measuring required for setting and maintaining the
16 necessary lines and grades shall be the Contractor's responsibility.

17
18 The Contractor shall inform the Engineer when monuments are discovered that were
19 not identified in the Plans and construction activity may disturb or damage the
20 monuments. All monuments noted on the plans "DO NOT DISTURB" shall be protected
21 throughout the length of the project or be replaced at the Contractors expense.

22
23 Detailed survey records shall be maintained, including a description of the work
24 performed on each shift, the methods utilized, and the control points used. The record
25 shall be adequate to allow the survey to be reproduced. A copy of each day's record
26 shall be provided to the Engineer within three working days after the end of the shift.

27
28 The meaning of words and terms used in this provision shall be as listed in "Definitions
29 of Surveying and Associated Terms" current edition, published by the American
30 Congress on Surveying and Mapping and the American Society of Civil Engineers.

31
32 The survey work shall include but not be limited to the following:

- 33
- 34 1. Verify the primary horizontal and vertical control furnished by the Contracting
35 Agency, and expand into secondary control by adding stakes and hubs as well
36 as additional survey control needed for the project. Provide descriptions of
37 secondary control to the Contracting Agency. The description shall include
38 coordinates and elevations of all secondary control points.
 - 39 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks
40 on centerline or on offsets to centerline at all control points and at points on
41 the alignments spaced no further than 50 feet.
 - 42 3. Establish the seeding area boundaries, based on the final Clearing and
43 Clearing and Grubbing limits, or as otherwise shown in the Plans .
 - 44 4. Establish recreational improvement grading limits, placing slope stakes at
45 centerline increments not more than 50 feet apart. Establish offset reference
46 to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are
47 used to provide grade control, then slope stakes may be omitted at the
48 discretion of the Contractor
- 49
50
51
52

- 1 5. Establish the horizontal and vertical location of all water features, placing
- 2 offset stakes to all structures and pipes at a horizontal interval not greater than
- 3 25 feet.
- 4
- 5 6. Establish intermediate elevation benchmarks as needed to check work
- 6 throughout the project.
- 7
- 8 7. For all other types of construction included in this provision, provide staking
- 9 and layout as necessary to adequately locate, construct, and check the
- 10 specific construction activity.
- 11
- 12 8. Contractor shall determine if changes are needed to the profiles or sections
- 13 shown in the Contract Plans in order to tie into existing features, such as a
- 14 smooth transition from new pavement to existing pavement. The Contractor
- 15 shall submit these changes to the Engineer for review and approval 10 days
- 16 prior to the beginning of work.
- 17

18 The Contractor shall provide the Contracting Agency copies of any calculations and

19 staking data when requested by the Engineer.

20

21 To facilitate the establishment of these lines and elevations, the Contracting Agency will

22 provide the Contractor with primary survey control information consisting of descriptions

23 of two primary control points used for the horizontal and vertical control, as well as the

24 information from the trail centerline alignments and other survey control point tables

25 included in the Contract Plans.

26

27 Primary control points will be described by reference to the project alignment and the

28 coordinate system and elevation datum utilized by the project. In addition, the

29 Contracting Agency will supply horizontal coordinates for the beginning and ending

30 points and for each Point of Intersection (PI) on each alignment included in the project.

31

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

	<u>Vertical</u>	<u>Horizontal</u>
34 Slope stakes	±0.10 feet	±0.10 feet
35 Subgrade grade stakes set		
36 0.04 feet below grade	±0.01 feet	±0.5 feet
37		(parallel to alignment)
38		±0.1 feet
39		(normal to alignment)
40		
41		
42 Stationing on road/trails	N/A	±0.1 feet
43 Alignment on road/trails	N/A	±0.05 feet
44 Surfacing grade stakes	±0.01 feet	±0.5 feet
45		(parallel to alignment)
46		±0.1 feet
47		(normal to alignment)
48		

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

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

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

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

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

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

26 **Payment**

27 Payment will be made for the following bid item when included in the proposal:

29 "Recreation Surveying", lump sum.

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

36 **Bridge and Structure Surveys**

37 *(July 23, 2015 APWA GSP, Option 2)*

39 For all structural work such as bridges and retaining walls, the Contractor shall retain as a part of Contractor's organization an experienced team of surveyors.

42 The Contractor shall provide all surveys required to complete the structure, except the following primary survey control which will be provided by the Engineer:

- 44 1. Centerline or offsets to centerline of the structure.
- 45 2. Stations of abutments and pier centerlines.
- 46 3. A sufficient number of bench marks for levels to enable the Contractor to set grades at reasonably short distances.
- 47
- 48 4. Monuments and control points as shown in the Plans.

50 The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the

1 primary control points provided by the Engineer. Survey work shall be within the
2 following tolerances:

3		
4	Stationing	± 0.01 foot
5	Alignment	± 0.01 foot (between successive points)
6	Superstructure Elevations	± 0.01 foot (from plan elevations)
7	Substructure Elevations	± 0.05 foot (from plan elevations)
8		

9 During the progress of the work, the Contractor shall make available to the Engineer all
10 field books including survey information, footing elevations, cross sections and
11 quantities.

12
13 The Contractor shall be fully responsible for the close coordination of field locations and
14 measurements with appropriate dimensions of structural members being fabricated.

15
16 Section 1-05.4 is supplemented with the following:

17
18 (*****)

19 All costs for bridge and structure surveys shall be included in the other bid items of
20 work, and no separate payment will be made.

21
22 Section 1-05.4 is supplemented with the following:

23
24 (*****)

25 **Contractor Surveying – ADA Features**

26 27 **ADA Feature Staking Requirements**

28 The Contractor shall be responsible for setting, maintaining, and resetting all
29 alignment stakes, and grades necessary for the construction of the ADA features.
30 Calculations, surveying, and measuring required for setting and maintaining the
31 necessary lines and grades shall be the Contractor's responsibility. The Contractor
32 shall build the ADA features within the specifications in the Standard Plans and
33 contract documents.

34 35 **ADA Feature As-Built Measurements**

36 The Contractor shall be responsible for providing electronic As-Built records of all
37 ADA feature improvements completed in the Contract.

38
39 The survey work shall include but not be limited to completing the measurements,
40 recording the required measurements and completing other data fill-ins found on
41 the ADA Measurement Forms, and transmitting the electronic Forms to the
42 Engineer. The ADA Measurement Forms are found at the following website
43 location:

44
45 <http://www.wsdot.wa.gov/Design/ADAGuidance.htm>

46
47 In the instance where an ADA Feature does not meet accessibility requirements, all
48 work to replace non-conforming work and then to measure, record the as-built
49 measurements, and transmit the electronic Forms to the Engineer shall be
50 completed at no additional cost to the Contracting Agency, as ordered by the
51 Engineer.
52

1 All costs for ADA Feature surveying shall be included in the other bid items of work,
2 and no separate payment will be made.
3

4 **1-05.7 Removal of Defective and Unauthorized Work**

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

7 Supplement this section with the following:
8

9 If the Contractor fails to remedy defective or unauthorized work within the time specified
10 in a written notice from the Engineer, or fails to perform any part of the work required by
11 the Contract Documents, the Engineer may correct and remedy such work as may be
12 identified in the written notice, with Contracting Agency forces or by such other means
13 as the Contracting Agency may deem necessary.
14

15 If the Contractor fails to comply with a written order to remedy what the Engineer
16 determines to be an emergency situation, the Engineer may have the defective and
17 unauthorized work corrected immediately, have the rejected work removed and
18 replaced, or have work the Contractor refuses to perform completed by using
19 Contracting Agency or other forces. An emergency situation is any situation when, in
20 the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might
21 cause serious risk of loss or damage to the public.
22

23 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
24 remedying defective or unauthorized work, or work the Contractor failed or refused to
25 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer
26 from monies due, or to become due, the Contractor. Such direct and indirect costs shall
27 include in particular, but without limitation, compensation for additional professional
28 services required, and costs for repair and replacement of work of others destroyed or
29 damaged by correction, removal, or replacement of the Contractor's unauthorized work.
30

31 No adjustment in contract time or compensation will be allowed because of the delay in
32 the performance of the work attributable to the exercise of the Contracting Agency's
33 rights provided by this Section.
34

35 The rights exercised under the provisions of this section shall not diminish the
36 Contracting Agency's right to pursue any other avenue for additional remedy or
37 damages with respect to the Contractor's failure to perform the work as required.
38

39 **Final Inspection**

40
41 Section 1-05.11 is deleted and replaced with the following:
42

43 **1-05.11 Final Inspections and Operational Testing**

44 *(October 1, 2005 APWA GSP)*
45

46 **1-05.11(1) Substantial Completion Date**
47

48 When the Contractor considers the work to be substantially complete, the Contractor
49 shall so notify the Engineer and request the Engineer establish the Substantial
50 Completion Date. The Contractor's request shall list the specific items of work that
51 remain to be completed in order to reach physical completion. The Engineer will
52 schedule an inspection of the work with the Contractor to determine the status of

1 completion. The Engineer may also establish the Substantial Completion Date
2 unilaterally.

3
4 If, after this inspection, the Engineer concurs with the Contractor that the work is
5 substantially complete and ready for its intended use, the Engineer, by written notice to
6 the Contractor, will set the Substantial Completion Date. If, after this inspection the
7 Engineer does not consider the work substantially complete and ready for its intended
8 use, the Engineer will, by written notice, so notify the Contractor giving the reasons
9 therefor.

10
11 Upon receipt of written notice concurring in or denying substantial completion,
12 whichever is applicable, the Contractor shall pursue vigorously, diligently and without
13 unauthorized interruption, the work necessary to reach Substantial and Physical
14 Completion. The Contractor shall provide the Engineer with a revised schedule
15 indicating when the Contractor expects to reach substantial and physical completion of
16 the work.

17
18 The above process shall be repeated until the Engineer establishes the Substantial
19 Completion Date and the Contractor considers the work physically complete and ready
20 for final inspection.

21 22 **1-05.11(2) Final Inspection and Physical Completion Date**

23
24 When the Contractor considers the work physically complete and ready for final
25 inspection, the Contractor by written notice, shall request the Engineer to schedule a
26 final inspection. The Engineer will set a date for final inspection. The Engineer and the
27 Contractor will then make a final inspection and the Engineer will notify the Contractor
28 in writing of all particulars in which the final inspection reveals the work incomplete or
29 unacceptable. The Contractor shall immediately take such corrective measures as are
30 necessary to remedy the listed deficiencies. Corrective work shall be pursued
31 vigorously, diligently, and without interruption until physical completion of the listed
32 deficiencies. This process will continue until the Engineer is satisfied the listed
33 deficiencies have been corrected.

34
35 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
36 written notice listing the deficiencies, the Engineer may, upon written notice to the
37 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
38 Section 1-05.7.

39 The Contractor will not be allowed an extension of contract time because of a delay in
40 the performance of the work attributable to the exercise of the Engineer's right
41 hereunder.

42
43 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
44 Contracting Agency, in writing, of the date upon which the work was considered
45 physically complete. That date shall constitute the Physical Completion Date of the
46 contract, but shall not imply acceptance of the work or that all the obligations of the
47 Contractor under the contract have been fulfilled.

48 49 **1-05.11(3) Operational Testing**

50
51 It is the intent of the Contracting Agency to have at the Physical Completion Date a
52 complete and operable system. Therefore when the work involves the installation of

1 machinery or other mechanical equipment; street lighting, electrical distribution or signal
2 systems; irrigation systems; buildings; or other similar work it may be desirable for the
3 Engineer to have the Contractor operate and test the work for a period of time after final
4 inspection but prior to the physical completion date. Whenever items of work are listed
5 in the Contract Provisions for operational testing they shall be fully tested under
6 operating conditions for the time period specified to ensure their acceptability prior to
7 the Physical Completion Date. During and following the test period, the Contractor shall
8 correct any items of workmanship, materials, or equipment which prove faulty, or that
9 are not in first class operating condition. Equipment, electrical controls, meters, or other
10 devices and equipment to be tested during this period shall be tested under the
11 observation of the Engineer, so that the Engineer may determine their suitability for the
12 purpose for which they were installed. The Physical Completion Date cannot be
13 established until testing and corrections have been completed to the satisfaction of the
14 Engineer.

15
16 The costs for power, gas, labor, material, supplies, and everything else needed to
17 successfully complete operational testing, shall be included in the unit contract prices
18 related to the system being tested, unless specifically set forth otherwise in the
19 proposal.

20
21 Operational and test periods, when required by the Engineer, shall not affect a
22 manufacturer's guaranties or warranties furnished under the terms of the contract.

23
24 **1-05.13 Superintendents, Labor and Equipment of Contractor**

25 *(August 14, 2013 APWA GSP)*

26
27 Delete the sixth and seventh paragraphs of this section.

28
29 **1-05.14 Cooperation With Other Contractors**

30
31 Section 1-05.14 is supplemented with the following:

32
33 *(March 13, 1995)*

34 **Other Contracts Or Other Work**

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

38
39 *** Delivery and stockpiling of owner-supplied wood materials for engineered log
40 structures, including logs, racking, and slash by a separate contractor employed by
41 the Owner. ***

42
43 *(March 13, 1995)*

44 The Contractor on this project shall coordinate in advance with the Contracting Agency
45 to determine and obtain approval for a schedule and a specific on-site location for
46 stockpiling owner-supplied wood materials for engineered log structures.

47
48 **1-05.15 Method of Serving Notices**

49 *(March 25, 2009 APWA GSP)*

50
51 Revise the second paragraph to read:

1 All correspondence from the Contractor shall be directed to the Project Engineer. All
2 correspondence from the Contractor constituting any notification, notice of protest,
3 notice of dispute, or other correspondence constituting notification required to be
4 furnished under the Contract, must be in paper format, hand delivered or sent via mail
5 delivery service to the Project Engineer's office. Electronic copies such as e-mails or
6 electronically delivered copies of correspondence will not constitute such notice and will
7 not comply with the requirements of the Contract.

8
9 Add the following new section:

10
11 **1-05.16 Water and Power**
12 *(October 1, 2005 APWA GSP)*

13
14 The Contractor shall make necessary arrangements, and shall bear the costs for power
15 and water necessary for the performance of the work, unless the contract includes
16 power and water as a pay item.

17
18 Add the following new section:

19
20 **1-05.18 Record Drawings**
21 *(March 8, 2013 APWA GSP)*

22
23 The Contractor shall maintain one set of full size plans for Record Drawings, updated
24 with clear and accurate red-lined field revisions on a daily basis, and within 2 business
25 days after receipt of information that a change in Work has occurred. The Contractor
26 shall not conceal any work until the required information is recorded.

27
28 This Record Drawing set shall be used for this purpose alone, shall be kept separate
29 from other Plan sheets, and shall be clearly marked as Record Drawings. These
30 Record Drawings shall be kept on site at the Contractor's field office, and shall be
31 available for review by the Contracting Agency at all times. The Contractor shall bring
32 the Record Drawings to each progress meeting for review.

33
34 The preparation and upkeep of the Record Drawings is to be the assigned responsibility
35 of a single, experienced, and qualified individual. The quality of the Record Drawings,
36 in terms of accuracy, clarity, and completeness, is to be adequate to allow the
37 Contracting Agency to modify the computer-aided drafting (CAD) Contract Drawings to
38 produce a complete set of Record Drawings for the Contracting Agency without further
39 investigative effort by the Contracting Agency.

40
41 The Record Drawing markups shall document all changes in the Work, both concealed
42 and visible. Items that must be shown on the markups include but are not limited to:

- 43
44
- 45 • Actual dimensions, arrangement, and materials used when different than
 - 46 shown in the Plans.
 - 47 • Changes made by Change Order or Field Order.
 - 48 • Changes made by the Contractor.
 - 49 • Accurate locations of storm sewer, sanitary sewer, water mains and other
 - 50 water appurtenances, structures, conduits, light standards, vaults, width of
 - 51 roadways, sidewalks, landscaping areas, building footprints, channelization
 - 52 and pavement markings, etc. Include pipe invert elevations, top of castings
 - (manholes, inlets, etc.).

1
2
3
4
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7

If the Contract calls for the Contracting Agency to do all surveying and staking, the Contracting Agency will provide the elevations at the tolerances the Contracting Agency requires for the Record Drawings.

When the Contract calls for the Contractor to do the surveying/staking, the applicable tolerance limits include, but are not limited to the following:

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

8
9

Making Entries on the Record Drawings:

10
11
12
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24

- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
- Additions - Red
- Deletions - Green
- Comments - Blue
- Dimensions - Graphite
- Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
- Date all entries.
- Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

25
26
27
28
29

The Contractor shall certify on the Record Drawings that said drawings are an accurate depiction of built conditions, and in conformance with the requirements detailed above. The Contractor shall submit final Record Drawings to the Contracting Agency. Contracting Agency acceptance of the Record Drawings is one of the requirements for achieving Physical Completion.

30
31
32

Payment will be made for the following bid items:

Habitat Record Drawings (Minimum Bid \$4,000)	Lump Sum
Recreation Record Drawings (Minimum Bid \$4,000)	Lump Sum

33
34
35
36
37
38

Payment for this item will be made on a prorated monthly basis for work completed in accordance with this section up to 75% of the lump sum bid. The final 25% of the lump sum item will be paid upon submittal and approval of the completed Record Drawings set prepared in conformance with these Special Provisions.

1 A minimum bid amount has been entered in the Bid Proposal for this item. The
2 Contractor must bid at least that amount.

3
4 **1-06 CONTROL OF MATERIAL**

5
6 **1-06.4 Handling and Storing Materials**

7
8 Section 1-06 is supplemented with the following:

9
10 Contracting Agency-provided materials that are to be protected as described in this section
11 include the wood materials for engineered log structures delivered to the project site by a
12 contractor employed by the Contracting Agency as described in Section 1-05.14.

13
14 **1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

15
16 **1-07.1 Laws to be Observed**
17 *(October 1, 2005 APWA GSP)*

18
19 Supplement this section with the following:

20
21 In cases of conflict between different safety regulations, the more stringent regulation
22 shall apply.

23
24 The Washington State Department of Labor and Industries shall be the sole and
25 paramount administrative agency responsible for the administration of the provisions of
26 the Washington Industrial Safety and Health Act of 1973 (WISHA).

27
28 The Contractor shall maintain at the project site office, or other well known place at the
29 project site, all articles necessary for providing first aid to the injured. The Contractor
30 shall establish, publish, and make known to all employees, procedures for ensuring
31 immediate removal to a hospital, or doctor's care, persons, including employees, who
32 may have been injured on the project site. Employees should not be permitted to work
33 on the project site before the Contractor has established and made known procedures
34 for removal of injured persons to a hospital or a doctor's care.

35
36 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of
37 the Contractor's plant, appliances, and methods, and for any damage or injury resulting
38 from their failure, or improper maintenance, use, or operation. The Contractor shall be
39 solely and completely responsible for the conditions of the project site, including safety
40 for all persons and property in the performance of the work. This requirement shall
41 apply continuously, and not be limited to normal working hours. The required or implied
42 duty of the Engineer to conduct construction review of the Contractor's performance
43 does not, and shall not, be intended to include review and adequacy of the Contractor's
44 safety measures in, on, or near the project site.

45
46 **1-07.2 State Taxes**

47
48 Delete this section, including its sub-sections, in its entirety and replace with the following:

49
50 **1-07.2 State Sales Tax**
51 *(June 27, 2011 APWA GSP)*

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

6
7 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
8 contract amounts. In some cases, however, state retail sales tax will not be included.
9 Section 1-07.2(2) describes this exception.

10
11 The Contracting Agency will pay the retained percentage (or release the Contract Bond
12 if a FHWA-funded Project) only if the Contractor has obtained from the Washington
13 State Department of Revenue a certificate showing that all contract-related taxes have
14 been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to
15 the Contractor any amount the Contractor may owe the Washington State Department
16 of Revenue, whether the amount owed relates to this contract or not. Any amount so
17 deducted will be paid into the proper State fund.

18
19 **1-07.2(1) State Sales Tax — Rule 171**

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

30
31 **1-07.2(2) State Sales Tax — Rule 170**

32
33 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
34 existing buildings, or other structures, upon real property. This includes, but is not
35 limited to, the construction of streets, roads, highways, etc., owned by the state of
36 Washington; water mains and their appurtenances; sanitary sewers and sewage
37 disposal systems unless such sewers and disposal systems are within, and a part of, a
38 street or road drainage system; telephone, telegraph, electrical power distribution lines,
39 or other conduits or lines in or above streets or roads, unless such power lines become
40 a part of a street or road lighting system; and installing or attaching of any article of
41 tangible personal property in or to real property, whether or not such personal property
42 becomes a part of the realty by virtue of installation.

43
44 For work performed in such cases, the Contractor shall collect from the Contracting
45 Agency, retail sales tax on the full contract price. The Contracting Agency will
46 automatically add this sales tax to each payment to the Contractor. For this reason, the
47 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
48 contract amount subject to Rule 170, with the following exception.

49
50 Exception: The Contracting Agency will not add in sales tax for a payment the
51 Contractor or a subcontractor makes on the purchase or rental of tools, machinery,

1 equipment, or consumable supplies not integrated into the project. Such sales taxes
2 shall be included in the unit bid item prices or in any other contract amount.
3

4 **1-07.2(3) Services**

5
6 The Contractor shall not collect retail sales tax from the Contracting Agency on any
7 contract wholly for professional or other services (as defined in Washington State
8 Department of Revenue Rules 138 and 244).
9

10 **1-07.4(2) Health Hazards**

11
12 Section 1-07.4(2) is supplemented with the following:
13

14 **(May 13, 2020)**

15 **COVID-19 Health and Safety Plan (CHSP)**

16 The Contractor shall prepare a project specific COVID-19 health and safety plan
17 (CHSP). The CHSP shall be prepared and submitted as a Type 2 Working Drawing
18 prior to beginning physical Work. The CHSP shall be based on the most current
19 State and Federal requirements. If the State or Federal requirements are revised,
20 the CHSP shall be updated as necessary to conform to the current requirements.
21

22 The Contractor shall update and resubmit the CHSP as the work progresses and
23 new activities appear on the look ahead schedule required under Section 1-
24 08.3(2)D. If the conditions change on the project, or a particular activity, the
25 Contractor shall update and resubmit the CHSP. Work on any activity shall cease if
26 conditions prevent full compliance with the CHSP.
27

28 The CHSP shall address the health and safety of all people associated with the
29 project including State workers in the field, Contractor personnel, consultants,
30 project staff, subcontractors, suppliers and anyone on the project site, staging
31 areas, or yards.
32

33 **COVID-19 Health and Safety Plan (CHSP) Inspection**

34 The Contractor shall grant full and unrestricted access to the Engineer for CHSP
35 Inspections. The Engineer (or designee) will conduct periodic compliance
36 inspections on the project site, staging areas, or yards to verify that any ongoing
37 work activity is following the CHSP plan. If the Engineer becomes aware of a
38 noncompliance incident either through a site inspection or other means, the
39 Contractor will be notified immediately (within 1 hour). The Contractor shall
40 immediately remedy the noncompliance incident or suspend all or part of the
41 associated work activity. The Contractor shall satisfy the Engineer that the
42 noncompliance incident has been corrected before the suspension will end.
43

44 **1-07.5 Environmental Regulations**

45 *Section 1-07.5 is supplemented with the following:*
46

47 **(September 20, 2010)**

48 **Environmental Commitments**

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

1
2 Install and maintain sediment and erosion controls during construction at the site
3 until all disturbed soils have been revegetated or otherwise stabilized.
4

5 Work, reports, documentation, etc., as required per the NPDES Construction
6 Stormwater General Permit.
7

8 **(August 3, 2009)**

9 **Payment**

10 All costs to comply with this special provision for the environmental commitments and
11 requirements are incidental to the contract and are the responsibility of the Contractor.
12 The Contractor shall include all related costs in the associated bid prices of the
13 contract.
14

15 **1-07.5(2) State Department of Fish And Wildlife**

16 Section 1-07.5(2) is supplemented with the following:
17

18 (April 2, 2018)

19 The following Provisions summarize the requirements, in addition to those required
20 elsewhere in the Contract, imposed upon the Contracting Agency by the
21 Washington State Department of Fish and Wildlife. Throughout the work, the
22 Contractor shall comply with the following requirements:
23

24 (April 2, 2018)

25 The Contractor may begin Work below the Ordinary High Water Line
26 on July 15 and must complete all the Work by August 15.
27

28 (April 2, 2018)

29 All costs to comply with this special provision are incidental to the Contract and are
30 the responsibility of the Contractor. The Contractor shall include all related costs in
31 the associated bid prices of the Contract.
32

33 **1-07.5(3) State Department of Ecology**

34 Section 1-07.5(3) is supplemented with the following:
35

36 (April 2, 2018)

37 The following Provisions summarize the requirements, in addition to those required
38 elsewhere in the Contract, imposed upon the Contracting Agency by the Washington
39 State Department of Ecology. Throughout the work, the Contractor shall comply with the
40 following requirements:
41

42 (April 1, 2019)

43 Stormwater, dewatering water, or other authorized non-stormwater discharges that
44 has come into contact with pH modifying substances such as concrete rubble, cast
45 concrete or amended soils, need to be maintained between 6.5 – 8.5 standard
46 units (su). If pH exceeds 8.5 su, the Contractor shall immediately discontinue work
47 and initiate treatment to prevent discharges outside the acceptable range from
48 occurring. All neutralization methods used shall be in accordance with the permit.
49 Work may resume once treatment has been implemented and pH of the
50 stormwater or authorized non-stormwater discharge is between 6.5 - 8.5 su or it
51 can be demonstrated that high pH waters will not discharge to surface waters.
52

1 Stormwater, dewatering water, and other authorized non-stormwater discharges
2 are monitored weekly for compliance with the turbidity benchmark (25
3 nephelometric turbidity units (ntu)) and the phone reporting trigger value (250 ntu)
4 by the Contracting Agency. When the turbidity benchmark is breached, the best
5 management practices (BMPs) installed on-site are not working adequately and
6 need to be adapted, maintained or more BMPs shall be installed. When the
7 turbidity phone reporting trigger value is breached, immediate action is required in
8 order to lower the turbidity to ≤ 25 ntu or to eliminate the discharge. Daily follow-up
9 discharge samples will be collected at all locations where a discharge of 250 ntu or
10 higher was collected unless the discharge was stopped or eliminated.

11 12 **1-07.5(5) U.S. Army Corps of Engineers**

13 *Section 1-07.5(5) is supplemented with the following:*

14
15 (April 2, 2018)

16 The following Provisions summarize the requirements, in addition to those required
17 elsewhere in the Contract, imposed upon the Contracting Agency by the U.S. Army
18 Corps of Engineers. Throughout the work, the Contractor shall comply with the
19 following requirements:

20
21 (February 25, 2013)

22 Temporary structures and dewatering of areas under the jurisdiction of
23 the U.S. Army Corps of Engineers must maintain normal downstream
24 flows and prevent upstream and downstream flooding to the maximum
25 extent practicable.

26
27 (August 3, 2009)

28 Heavy equipment working in wetlands or mudflats must be placed on
29 mats or other measures taken to minimize soil disturbance as
30 approved by the Engineer.

31
32 (August 3, 2009)

33 The Contractor shall dispose of all creosoted timber, creosote piling
34 and associated debris as shown in the Plans in accordance with
35 current federal, state, and local regulations and provisions, and
36 following Best Management Practices. Disposal shall be made in a
37 landfill which meets the liner and leachate standards of the Minimum
38 Functional Standards, Chapter 173-304 WAC. The Contractor shall
39 provide receipts from the disposal facility to the Engineer. If the
40 material is transported to a transfer station, the Contractor shall obtain
41 documentation indicating that final disposal will comply with the
42 standards referenced above.

43
44 (April 2, 2018)

45 All costs to comply with this special provision are incidental to the Contract and are
46 the responsibility of the Contractor. The Contractor shall include all related costs in
47 the associated bid prices of the Contract.

48 **1-07.7 Load Limits**

49
50 Section 1-07.7 is supplemented with the following:

51
52 (March 13, 1995)

1 If the sources of materials provided by the Contractor necessitates hauling over roads
2 other than State Highways, the Contractor shall, at the Contractor's expense, make all
3 arrangements for the use of the haul routes.
4

5 **1-07.9 Wages**

6 7 **1-07.9(1) General**

8 Section 1-07.9(1) is supplemented with the following:
9

10 (January 6, 2020)

11 The State rates incorporated in this contract are applicable to all construction activities
12 associated with this contract.
13

14 **1-07.9(5) Required Documents**

15 Section 1-07.9(5) is revised to read:
16

17 **(January 6, 2020)**

18 **General**

19 All "Statements of Intent to Pay Prevailing Wages", "Affidavits of Wages Paid" and
20 Certified Payrolls, including a signed Statement of Compliance for Federal-aid
21 projects, shall be submitted to the Engineer using the State L&I online Prevailing
22 Wage Intent & Affidavit (PWIA) system.
23

24 **Intents and Affidavits**

25 On forms provided by the Industrial Statistician of State L&I, the Contractor shall
26 submit to the Engineer the following for themselves and for each firm covered
27 under RCW 39.12 that will or has provided Work and materials for the Contract:
28

- 29 1. The approved "Statement of Intent to Pay Prevailing Wages" State L&I's
30 form number F700-029-000. The Contracting Agency will make no
31 payment under this Contract until this statement has been approved by
32 State L&I and reviewed by the Engineer.
33
- 34 2. The approved "Affidavit of Prevailing Wages Paid", State L&I's form
35 number F700-007-000. The Contracting Agency will not grant Completion
36 until all approved Affidavit of Wages paid for the Contractor and all
37 Subcontractors have been received by the Engineer. The Contracting
38 Agency will not release to the Contractor any funds retained under RCW
39 60.28.011 until "Affidavit of Prevailing Wages Paid" forms have been
40 approved by State L&I and all of the approved forms have been submitted
41 to the Engineer for every firm that worked on the Contract.
42

43 The Contractor is responsible for requesting these forms from State L&I and for
44 paying any fees required by State L&I.
45

46 **Certified Payrolls**

47 Certified payrolls are required to be submitted by the Contractor for themselves, all
48 Subcontractors and all lower tier subcontractors. The payrolls shall be submitted
49 weekly on all Federal-aid projects and no less than monthly on State funded
50 projects.
51

52 **Penalties for Noncompliance**

1 The Contractor is advised, if these payrolls are not supplied within the prescribed
2 deadlines, any or all payments may be withheld until compliance is achieved. In
3 addition, failure to provide these payrolls may result in other sanctions as provided
4 by State laws (RCW 39.12.050) and/or Federal regulations (29 CFR 5.12).
5

6 **1-07.13 Contractor's Responsibility for Work**

7

8 **1-07.13(4) Repair of Damage**

9 Section 1-07.13(4) is revised to read:

10
11 (August 6, 2001)

12 The Contractor shall promptly repair all damage to either temporary or permanent
13 work as directed by the Engineer. For damage qualifying for relief under Sections
14 1-07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with
15 Section 1-04.4. Payment will be limited to repair of damaged work only. No
16 payment will be made for delay or disruption of work.
17

18 **1-07.16 Protection and Restoration of Property**

19

20 **1-07.16(4) Archaeological and Historical Objects**

21 Section 1-07.16(4) is supplemented with the following:

22
23 (December 6, 2004)

24 The project area potentially contains archaeological or historical objects that may
25 have significance from a historical or scientific standpoint. To protect these objects
26 from damage or destruction, the Contracting Agency, at its discretion and expense,
27 may monitor the Contractor's operations, conduct various site testing and perform
28 recovery and removal of such objects when necessary.
29

30 The Contractor may be required to conduct its operations in a manner that will
31 accommodate such activities, including the reserving of portions of the work area
32 for site testing, exploratory operations and recovery and removal of such objects as
33 directed by the Engineer. If such activities are performed by consultants retained
34 by the Contracting Agency, the Contractor shall provide them adequate access to
35 the project site.
36

37 Added work necessary to uncover, fence, dewater, or otherwise protect or assist in
38 such testing, exploratory operations and salvaging of the objects as ordered by the
39 Engineer shall be paid by force account as provided in Section 1-09.6. If the
40 discovery and salvaging activities require the Engineer to suspend the Contractor's
41 work, any adjustment in time will be determined by the Engineer pursuant to
42 Section 1-08.8.
43

44 To provide a common basis for all bidders, the Contracting Agency has entered an
45 amount for the item "Archaeological and Historical Salvage" in the Proposal to
46 become a part of the total bid by the Contractor.
47

48 **1-07.17 Utilities and Similar Facilities**

49 Section 1-07.17 is supplemented with the following:

50
51 (April 2, 2007)

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

3
4 The following addresses and telephone numbers of utility companies known or
5 suspected of having facilities within the project limits are supplied for the Contractor's
6 convenience:
7

8 (*****)
9 Frontier Communications Northwest
10 Contact: Bret Murdock
11 595 Pease Road Burlington, WA 98233
12 Office: (360) 707-0641
13 bret.t.murdock@ftr.com
14

15 Public Utility District No. 1 of Skagit County
16 Contact: Mike Demers
17 demers@skagitpud.org
18 1415 Freeway Drive Mount Vernon, WA. 98273
19 Office and Emergency: (360) 424-7104
20

21 Puget Sound Energy
22 Contact: Jane Major
23 1660 Park Lane, Burlington, WA 98233
24 (360) 766-5571
25 jane.major@pse.com
26

27 Quest Local Network
28 Contact: Gary for locates (206) 473-0736 or Scott (360) 441-2913
29

30 Comcast
31 Contact: Bill Inama
32 400 Sequoia Drive, Bellingham, WA 98226
33 (360) 527-8243
34 Binama@cable.comcast.com
35

36 Wave Broadband
37 Contact: Tim Davidson
38 115 South Maple Ave., LaConner, WA 98257
39 (206) 391-8679
40

41 Cascade Natural Gas
42 Contact: Matthew Johnson
43 Field Operations Coordinator
44 1520 S 2nd Street
45 Mount Vernon, WA 98273
46 (360) 336-3910
47 Matthew.Johnson@cngc.com
48

49 Utility Location Center (One Call Center) (800) 424-5555
50 ***
51

1 The Contractor shall attend a mandatory utility preconstruction meeting with the
2 Engineer, all affected Subcontractors, and all utility owners and their Contractors prior
3 to beginning onsite work.
4

5 **1-07.18 Public Liability and Property Damage Insurance**

6
7 Delete this section in its entirety, and replace it with the following:
8

9 **1-07.18 Insurance**

10 *(January 4, 2016 APWA GSP)*

11
12 **1-07.18(1) General Requirements**

- 13
14 A. The Contractor shall procure and maintain the insurance described in all
15 subsections of section 1-07.18 of these Special Provisions, from insurers with a
16 current A. M. Best rating of not less than A-: VII and licensed to do business in the
17 State of Washington. The Contracting Agency reserves the right to approve or
18 reject the insurance provided, based on the insurer's financial condition.
19
20 B. The Contractor shall keep this insurance in force without interruption from the
21 commencement of the Contractor's Work through the term of the Contract and for
22 thirty (30) days after the Physical Completion date, unless otherwise indicated
23 below.
24
25 C. If any insurance policy is written on a claims made form, its retroactive date, and
26 that of all subsequent renewals, shall be no later than the effective date of this
27 Contract. The policy shall state that coverage is claims made, and state the
28 retroactive date. Claims-made form coverage shall be maintained by the
29 Contractor for a minimum of 36 months following the Completion Date or earlier
30 termination of this Contract, and the Contractor shall annually provide the
31 Contracting Agency with proof of renewal. If renewal of the claims made form of
32 coverage becomes unavailable, or economically prohibitive, the Contractor shall
33 purchase an extended reporting period ("tail") or execute another form of
34 guarantee acceptable to the Contracting Agency to assure financial responsibility
35 for liability for services performed.
36
37 D. The Contractor's Automobile Liability, Commercial General Liability and Excess or
38 Umbrella Liability insurance policies shall be primary and non-contributory
39 insurance as respects the Contracting Agency's insurance, self-insurance, or self-
40 insured pool coverage. Any insurance, self-insurance, or self-insured pool
41 coverage maintained by the Contracting Agency shall be excess of the Contractor's
42 insurance and shall not contribute with it.
43
44 E. The Contractor shall provide the Contracting Agency and all additional insureds
45 with written notice of any policy cancellation, within two business days of their
46 receipt of such notice.
47
48 F. The Contractor shall not begin work under the Contract until the required insurance
49 has been obtained and approved by the Contracting Agency
50
51 G. Failure on the part of the Contractor to maintain the insurance as required shall
52 constitute a material breach of contract, upon which the Contracting Agency may,

1 after giving five business days' notice to the Contractor to correct the breach,
2 immediately terminate the Contract or, at its discretion, procure or renew such
3 insurance and pay any and all premiums in connection therewith, with any sums so
4 expended to be repaid to the Contracting Agency on demand, or at the sole
5 discretion of the Contracting Agency, offset against funds due the Contractor from
6 the Contracting Agency.
7

8 H. All costs for insurance shall be incidental to and included in the unit or lump sum
9 prices of the Contract and no additional payment will be made.
10

11 **1-07.18(2) Additional Insured**

12
13 All insurance policies, with the exception of Workers Compensation, and of Professional
14 Liability and Builder's Risk (if required by this Contract) shall name the following listed
15 entities as additional insured(s) using the forms or endorsements required herein:

- 16 • the Contracting Agency and its officers, elected officials, employees, agents,
17 and volunteers, including Reichardt and Ebe Engineering, Inc. and Herrera
18 Environmental Consultants, Inc.
19

20 The above-listed entities shall be additional insured(s) for the full available limits of
21 liability maintained by the Contractor, irrespective of whether such limits maintained by
22 the Contractor are greater than those required by this Contract, and irrespective of
23 whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4)
24 describes limits lower than those maintained by the Contractor.
25

26 For Commercial General Liability insurance coverage, the required additional insured
27 endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing
28 operations and CG 20 37 10 01 for completed operations.
29

30 **1-07.18(3) Subcontractors**

31
32 The Contractor shall cause each Subcontractor of every tier to provide insurance
33 coverage that complies with all applicable requirements of the Contractor-provided
34 insurance as set forth herein, except the Contractor shall have sole responsibility for
35 determining the limits of coverage required to be obtained by Subcontractors.
36

37 The Contractor shall ensure that all Subcontractors of every tier add all entities listed in
38 1-07.18(2) as additional insureds, and provide proof of such on the policies as required
39 by that section as detailed in 1-07.18(2) using an endorsement as least as broad as
40 ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed
41 operations.
42

43 Upon request by the Contracting Agency, the Contractor shall forward to the
44 Contracting Agency evidence of insurance and copies of the additional insured
45 endorsements of each Subcontractor of every tier as required in 1-07.18(4) Verification
46 of Coverage.
47

48 **1-07.18(4) Verification of Coverage**

49
50 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
51 endorsements for each policy of insurance meeting the requirements set forth herein
52 when the Contractor delivers the signed Contract for the work. Failure of Contracting

1 Agency to demand such verification of coverage with these insurance requirements or
2 failure of Contracting Agency to identify a deficiency from the insurance documentation
3 provided shall not be construed as a waiver of Contractor's obligation to maintain such
4 insurance.

5
6 Verification of coverage shall include:

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

16
17 Upon request by the Contracting Agency, the Contractor shall forward to the
18 Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk
19 insurance is required on this Project, a full and certified copy of that policy is required
20 when the Contractor delivers the signed Contract for the work.

21 22 **1-07.18(5) Coverages and Limits**

23
24 The insurance shall provide the minimum coverages and limits set forth below.
25 Contractor's maintenance of insurance, its scope of coverage, and limits as required
26 herein shall not be construed to limit the liability of the Contractor to the coverage
27 provided by such insurance, or otherwise limit the Contracting Agency's recourse to any
28 remedy available at law or in equity.

29
30 All deductibles and self-insured retentions must be disclosed and are subject to
31 approval by the Contracting Agency. The cost of any claim payments falling within the
32 deductible or self-insured retention shall be the responsibility of the Contractor. In the
33 event an additional insured incurs a liability subject to any policy's deductibles or self-
34 insured retention, said deductibles or self-insured retention shall be the responsibility of
35 the Contractor.

36 37 **1-07.18(5)A Commercial General Liability**

38
39 Commercial General Liability insurance shall be written on coverage forms at least
40 as broad as ISO occurrence form CG 00 01, including but not limited to liability
41 arising from premises, operations, stop gap liability, independent contractors,
42 products-completed operations, personal and advertising injury, and liability
43 assumed under an insured contract. There shall be no exclusion for liability arising
44 from explosion, collapse or underground property damage.

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

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

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Such policy must provide the following minimum limits:
\$1,000,000 Each Occurrence
\$2,000,000 General Aggregate
\$2,000,000 Products & Completed Operations Aggregate
\$1,000,000 Personal & Advertising Injury each offence
\$1,000,000 Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

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

Such policy must provide the following minimum limit:
\$1,000,000 Combined single limit each accident

1-07.18(5)C Workers' Compensation

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

1-07.18(5)K Professional Liability

(January 4, 2016 APWA GSP)

The Contractor and/or its Subcontractor(s) and/or its design consultant providing construction management, value engineering, or any other design-related non-construction professional services shall provide evidence of Professional Liability insurance covering professional errors and omissions.

Such policy shall provide the following minimum limits:
\$1,000,000 per claim and annual aggregate

If the scope of such design-related professional services includes work related to pollution conditions, the Professional Liability insurance shall include coverage for Environmental Professional Liability.

If insurance is 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.

1-07.23 Public Convenience and Safety

1-07.23(1) Construction Under Traffic

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

(February 3, 2020)

Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent

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Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

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

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

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

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

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

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10
40 mph	15
45 to 50 mph	20
55 to 60 mph	30
65 mph or greater	35

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Minimum Work Zone Clear Zone Distance

1-07.24 Rights of Way
(July 23, 2015 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

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Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

Each property owner shall be given 48 hours notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

1-08.0(1)Preconstruction Conference
(October 10, 2008 APWA GSP)

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

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

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

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

Add the following new section:

1-08.0(2) Hours of Work
(December 8, 2014 APWA GSP)

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

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

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

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

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

1-08.3 Progress Schedule

1-08.3(2) Progress Schedule Types

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

(August 1, 2011)

1 Type A Progress Schedules are required on all projects that do not contain the bid
2 item for Type B or Type C Progress Schedules. Type B or Type C Progress
3 Schedules are required on all projects that contain the bid item for Type B or Type
4 C Progress Schedule. Weekly Look-Ahead Schedules and Schedule Updates are
5 required on all projects.
6

7 **1-08.3(2)A Type A Progress Schedule**

8 *(March 13, 2012 APWA GSP)*
9

10 Revise this section to read:

11
12 The Contractor shall submit 4 copies of a Type A Progress Schedule no later than
13 at the preconstruction conference, or some other mutually agreed upon submittal
14 time. The schedule may be a critical path method (CPM) schedule, bar chart, or
15 other standard schedule format. Regardless of which format used, the schedule
16 shall identify the critical path. The Engineer will evaluate the Type A Progress
17 Schedule and approve or return the schedule for corrections within 15 calendar
18 days of receiving the submittal.
19

20 **1-08.4 Prosecution of Work**

21
22 Delete this section and replace it with the following:
23

24 **1-08.4 Notice to Proceed and Prosecution of Work**

25 *(July 23, 2015 APWA GSP)*
26

27 Notice to Proceed will be given after the contract has been executed and the contract
28 bond and evidence of insurance have been approved and filed by the Contracting
29 Agency. The Contractor shall not commence with the work until the Notice to Proceed
30 has been given by the Engineer. The Contractor shall commence construction activities
31 on the project site within ten days of the Notice to Proceed Date, unless otherwise
32 approved in writing. The Contractor shall diligently pursue the work to the physical
33 completion date within the time specified in the contract. Voluntary shutdown or slowing
34 of operations by the Contractor shall not relieve the Contractor of the responsibility to
35 complete the work within the time(s) specified in the contract.
36

37 When shown in the Plans, the first order of work shall be the installation of high visibility
38 fencing to delineate all areas for protection or restoration, as described in the Contract.
39 Installation of high visibility fencing adjacent to the roadway shall occur after the
40 placement of all necessary signs and traffic control devices in accordance with 1-
41 10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to
42 inspect the fence. No other work shall be performed on the site until the Contracting
43 Agency has accepted the installation of high visibility fencing, as described in the
44 Contract.
45

46 **1-08.5 Time for Completion**

47 *(November 30, 2018 APWA GSP, Option B)*
48

49 Revise the third and fourth paragraphs to read:
50

1 Contract time shall begin on the first working day following the 10th calendar day after
2 the Notice to Proceed date. If the Contractor starts work on the project at an earlier
3 date, then contract time shall begin on the first working day when onsite work begins.
4

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

22 Revise the sixth paragraph to read:
23

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

- 28 1. The physical work on the project must be complete; and
- 29 2. The Contractor must furnish all documentation required by the contract and
30 required by law, to allow the Contracting Agency to process final acceptance of
31 the contract. The following documents must be received by the Project
32 Engineer prior to establishing a completion date:
 - 33 a. Certified Payrolls (per Section 1-07.9(5)).
 - 34 b. Material Acceptance Certification Documents
 - 35 c. Monthly Reports of Amounts Credited as DBE Participation, as
36 required by the Contract Provisions.
 - 37 d. Final Contract Voucher Certification
 - 38 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the
39 Contractor and all Subcontractors
 - 40 f. A copy of the Notice of Termination sent to the Washington State
41 Department of Ecology (Ecology); the elapse of 30 calendar days
42 from the date of receipt of the Notice of Termination by Ecology;
43 and no rejection of the Notice of Termination by Ecology. This
44 requirement will not apply if the Construction Stormwater General
45 Permit is transferred back to the Contracting Agency in
46 accordance with Section 8-01.3(16).
 - 47 g. Property owner releases per Section 1-07.24

48
49 Section 1-08.5 is supplemented with the following:
50

51 (March 13, 1995)

52 This project shall be physically completed within 112 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
8 Contract, the Engineer may determine that the work is Substantially Complete. The
9 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
10 overruns in Contract time occurring after the date so established, the formula for
11 liquidated damages shown above will not apply. For overruns in Contract time
12 occurring after the Substantial Completion Date, liquidated damages shall be assessed
13 on the basis of direct engineering and related costs assignable to the project until the
14 actual Physical Completion Date of all the Contract Work. The Contractor shall
15 complete the remaining Work as promptly as possible. Upon request by the Project
16 Engineer, the Contractor shall furnish a written schedule for completing the physical
17 Work on the Contract.
18

19 **1-09 MEASUREMENT AND PAYMENT**

20
21 **1-09.2 Weighing Equipment**
22

23 **1-09.2(1) General Requirements for Weighing Equipment**

24 *(July 23, 2015 APWA GSP, Option 2)*
25

26 Revise item 4 of the fifth paragraph to read:
27

- 28 4. Test results and scale weight records for each day's hauling operations are
29 provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027,
30 Scaleman's Daily Report, unless the printed ticket contains the same information
31 that is on the Scaleman's Daily Report Form. The scale operator must provide AM
32 and/or PM tare weights for each truck on the printed ticket.
33

34 **1-09.2(5) Measurement**

35 *(May 2, 2017 APWA GSP)*
36

37 Revise the first paragraph to read:
38

39 **Scale Verification Checks** – At the Engineer's discretion, the Engineer may perform
40 verification checks on the accuracy of each batch, hopper, or platform scale used in
41 weighing contract items of Work.
42

43 **1-09.6 Force Account**

44 *(October 10, 2008 APWA GSP)*
45

46 Supplement this section with the following:
47

48 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
49 all items to be paid per force account, only to provide a common proposal for Bidders.
50 All such dollar amounts are to become a part of Contractor's total bid. However, the
51 Contracting Agency does not warrant expressly or by implication, that the actual amount

1 of work will correspond with those estimates. Payment will be made on the basis of the
2 amount of work actually authorized by Engineer.

3 4 **1-09.9 Payments**

5 *(March 13, 2012 APWA GSP)*

6
7 Delete the first four paragraphs and replace them with the following:

8
9 The basis of payment will be the actual quantities of Work performed according to the
10 Contract and as specified for payment.

11
12 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
13 Preconstruction Conference, to enable the Project Engineer to determine the Work
14 performed on a monthly basis. A breakdown is not required for lump sum items that
15 include a basis for incremental payments as part of the respective Specification.
16 Absent a lump sum breakdown, the Project Engineer will make a determination based
17 on information available. The Project Engineer's determination of the cost of work shall
18 be final.

19
20 Progress payments for completed work and material on hand will be based upon
21 progress estimates prepared by the Engineer. A progress estimate cutoff date will be
22 established at the preconstruction conference.

23
24 The initial progress estimate will be made not later than 30 days after the Contractor
25 commences the work, and successive progress estimates will be made every month
26 thereafter until the Completion Date. Progress estimates made during progress of the
27 work are tentative, and made only for the purpose of determining progress payments.
28 The progress estimates are subject to change at any time prior to the calculation of the
29 final payment.

30
31 The value of the progress estimate will be the sum of the following:

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

41
42 Progress payments will be made in accordance with the progress estimate less:

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

47
48 Progress payments for work performed shall not be evidence of acceptable
49 performance or an admission by the Contracting Agency that any work has been

1 satisfactorily completed. The determination of payments under the contract will be final
2 in accordance with Section 1-05.1.

3
4 **1-09.11(3) Time Limitation and Jurisdiction**

5 *(November 30, 2018 APWA GSP)*

6
7 Revise this section to read:

8
9 For the convenience of the parties to the Contract it is mutually agreed by the parties
10 that any claims or causes of action which the Contractor has against the Contracting
11 Agency arising from the Contract shall be brought within 180 calendar days from the
12 date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency;
13 and it is further agreed that any such claims or causes of action shall be brought only in
14 the Superior Court of the county where the Contracting Agency headquarters is
15 located, provided that where an action is asserted against a county, RCW 36.01.050
16 shall control venue and jurisdiction. The parties understand and agree that the
17 Contractor's failure to bring suit within the time period provided, shall be a complete bar
18 to any such claims or causes of action. It is further mutually agreed by the parties that
19 when any claims or causes of action which the Contractor asserts against the
20 Contracting Agency arising from the Contract are filed with the Contracting Agency or
21 initiated in court, the Contractor shall permit the Contracting Agency to have timely
22 access to any records deemed necessary by the Contracting Agency to assist in
23 evaluating the claims or action.

24
25 **1-09.13(3)A Administration of Arbitration**

26 *(November 30, 2018 APWA GSP)*

27
28 Revise the third paragraph to read:

29
30 The Contracting Agency and the Contractor mutually agree to be bound by the
31 decision of the arbitrator, and judgment upon the award rendered by the arbitrator
32 may be entered in the Superior Court of the county in which the Contracting
33 Agency's headquarters is located, provided that where claims subject to arbitration
34 are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction
35 of the Superior Court. The decision of the arbitrator and the specific basis for the
36 decision shall be in writing. The arbitrator shall use the Contract as a basis for
37 decisions.

38
39 **1-10 TEMPORARY TRAFFIC CONTROL**

40
41 **1-10.2 Traffic Control Management**

42
43 **1-10.2(1) General**

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

45
46 (January 3, 2017)

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

50
51 The Northwest Laborers-Employers Training Trust
52 27055 Ohio Ave.

1 Kingston, WA 98346
2 (360) 297-3035
3
4 Evergreen Safety Council
5 12545 135th Ave. NE
6 Kirkland, WA 98034-8709
7 1-800-521-0778
8

9 The American Traffic Safety Services Association
10 15 Riverside Parkway, Suite 100
11 Fredericksburg, Virginia 22406-1022
12 Training Dept. Toll Free (877) 642-4637
13 Phone: (540) 368-1701
14

15 **1-10.4 Measurement**

16
17 **1-10.4(1) Lump Sum Bid for Project (No Unit Items)**

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

19 (August 2, 2004)

20 The proposal contains the item "Project Temporary Traffic Control", lump sum. The
21 provisions of Section 1-10.4(1) shall apply.
22
23

24 **1-10.5 Payment**

25
26 **1-10.5(1) Lump Sum Bid for Project (No Unit Items)**

27 *(January 23, 2006 APWA GSP)*
28

29 Revise the pay item name to read:

30 "Project Temporary Traffic Control, lump sum."
31

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**DIVISION 2
EARTHWORK**

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2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

Section 2-01.1 is supplemented with the following:

(*****)

Clearing and grubbing limits will be as shown in the Contract Plans or as staked by the Engineer.

Area to be cleared and grubbed is approximately 5 acres.

Area to be cleared is approximately 3 acres.

Section 2-01.1 is supplemented with the following:

(*****)

“Salvage” means carefully removing trees and brush identified in the field by the Engineer for removal and reuse with rootwads and as many branches intact as possible.

(*****)

Add the following new section:

2-01.1(1) Protection of Existing Vegetation

The Contractor shall protect existing vegetation during clearing and grubbing of work areas as described below.

The Contractor shall minimize clearing and grubbing within the clearing and grubbing limits as approved by the Engineer, only clearing and grubbing to the minimum extent necessary to perform work. The Contractor shall not disturb or damage existing plant material beyond the clearing and grubbing limits and shall contact the Engineer if there is any conflict between the Contract Plans and field conditions. All costs for protecting the existing vegetation from damage shall be included in the Bid item “Clearing and Grubbing” and no separate payment will be made.

The Contractor shall be responsible for the protection of tops, major branches, trunks, and roots of existing trees, shrubs and other plants that are beyond the clearing and grubbing limits. Existing trees to remain in place and that are potentially subject to construction damage shall be flagged, boxed, fenced, or otherwise protected before any work is started in the vicinity of the trees per Section 1-07.16(2). The Contractor shall verify with the Engineer before removing any interfering branches and shall remove all verified interfering branches without injury to the tree trunks. Any grading or other earthwork shown on the Contract Plans near trees that are to be saved shall not occur within the drip line of the tree canopy to protect the tree’s root system unless approved otherwise by the Engineer.

1 All tree removal within the Terrace Sensitive Area shall cut the tree or stump down to
2 ground level without subsurface disturbance. No stump removal, digging, or grinding
3 shall occur within the Terrace Sensitive Area.
4

5 **Regulated noxious weeds:** The Contractor shall have on-site at all times during
6 construction current copies of the Washington State Noxious Weed List and Monitor List
7 (<http://www.nwcb.wa.gov>) and the Skagit County noxious weed list
8 (<http://www.skagitcounty.net/Departments/NoxiousWeeds/weedchart.htm>).
9

10 **2-01.2(2) Disposal Method No. 2 – Waste Site**

11 Section 2-01.2(2) is supplemented with the following:
12

13 (*****)

14 No waste site has been provided for the disposal of excess material. The Contractor
15 shall make his or her own arrangements for obtaining waste sites in accordance with
16 Section 2-03.3(7)C Contractor-Provided Disposal Site of the Standard Specifications.
17 All costs involved shall be considered incidental to and included in the unit contract
18 prices for other bid items in this contract. All waste generated or encountered under this
19 Contract must be managed per all applicable local, state and federal regulations and
20 law.
21

22 **2-01.3(1) Clearing**

23 Section 2-01.3(1) is supplemented with the following:
24

25 (*****)

- 26 1. The Contractor shall flag the clearing limits for each Engineered Log Structure
27 (ELS) and Bridge and verify clearing limits with Contracting Agency or
28 Engineer prior to clearing. The Contractor shall clear each ELS and Bridge
29 site and surrounding staked area as approved by Contracting Agency or
30 Engineer and as specified in these Contract Specifications to perform the work
31 such as ELS or Bridge construction and staging of log materials required for
32 construction.
- 33 2. When existing woody debris and logs are present within the disturbance
34 extents for construction of an ELS, the Contractor shall salvage and stockpile
35 the existing woody debris for incorporation into the ELS as directed by the
36 Engineer.
- 37 3. Reuse all felled trees, branches and limbs generated during felling activities,
38 and other wood debris generated during clearing and other construction
39 activities meeting the requirements for “racking material” and “slash material”,
40 as defined in Section 9-38 Wood Material for Engineered Log Structures, in
41 the construction of the Engineered Log Structures. Slash and racking material
42 shall be free of non-native species, invasive species, noxious weeds, and
43 other unwanted vegetation as determined by the Engineer. All non-native and
44 invasive species vegetative material cleared by the Contractor shall be
45 managed per Section 8-02.3(2)B Weed and Pest Control Plan in these Special
46 Provisions. All Engineer approved slash material generated during
47 construction shall remain on site and be placed in locations designated on the
48 Contract Plans and as designated by the Engineer. Salvage and temporary
49 stockpiling of slash material is included in the bid item “Clearing and
50 Grubbing”. Placement of the slash material within the Engineered Log
51 Structures is included in the individual bid items for Engineered Log
52 Structures.

1 4. The Contractor shall stockpile slash material. The Contractor shall supply the
2 Engineer or Owner with an inventory and an approximation of the volume in
3 cubic yards of compacted slash material prior to placement in its final location.
4

5 (*****)

6 Add the following new section:
7

8 **2-01.3(1)A Selective Tree Removal and Salvage**
9

10 Selective tree removal, salvage, and stockpiling shall be included in the bid item
11 "Clearing and Grubbing". To provide a common proposal to all bidders, an
12 inventory of the trees designated for removal and salvage is included in the
13 Contract Plans. The actual number of trees designated for removal and salvage
14 may vary from the inventory included in the Contract Plans.
15

16 Prior to clearing operations, the Contractor shall flag all trees over 15 feet high, or
17 8-inch diameter or greater (measured at breast height), within and adjacent to the
18 clearing and grubbing limits shown on the Contract Plans. The Contractor shall
19 notify the Engineer after flagging is completed and arrange a meeting prior to the
20 removal of any existing trees on the project. At this meeting the Contractor and
21 Engineer shall inspect and agree upon which trees can be removed.
22

23 If the Contractor removes or damages any existing trees not designated for
24 removal due to the Contractor's operation, such tree(s) shall be restored or
25 replaced by the Contractor to a condition similar or equal to that existing before
26 such damage or removal. Any tree designated for salvage that is significantly
27 damaged in the opinion of the Engineer for any reason related to the Contractor's
28 operations while removing the tree shall be replaced with a tree like the tree
29 significantly damaged, to be imported and installed at the expense of the
30 Contractor.
31

32 All replacements shall be inspected and approved by the Engineer prior to
33 Engineered Log Structure construction and site planting work.
34

35 The Contractor shall not treat salvaged trees with preservatives, stains,
36 insecticides, or chemicals of any kind. The Contractor shall handle salvaged trees
37 in a manner that does not crack or break the logs or root wads. If salvaged trees
38 are to be temporarily stored in a location other than their final placement location,
39 they shall be protected from damage during construction activities in a location that
40 shall not be subjected to potential inundation by river water or groundwater prior to
41 their final placement.
42

43 Trees to be salvaged shall be taken down uncut with rootwads attached and shall
44 not be cut or altered during felling activities without prior approval by the Engineer.
45 Limbs, branches and upper stems broken during felling and handling activities shall
46 be added to the slash stockpile for reuse in Engineered Log Structures. During
47 felling, handling, and placement activities, the Contractor shall minimize damage to
48 the salvaged tree and minimize removal of limbs and branches to maintain as
49 much of the original length and canopy as possible. The Contractor shall obtain
50 approval from the Engineer prior to removing large interfering branches from
51 salvaged trees and shall remove the minimum necessary to safely fell, handle and
52 place the tree in its final location within the Engineered Log Structure. Sizes of

1 felled salvaged trees following placement in their final location shall conform to the
2 dimensions described for “racking material” in the Contract Plans.

3
4 The Engineer reserves the right to inspect felled trees and reject any salvaged
5 trees that compromise the integrity of their intended use.

6
7 **2.01.3(2) Grubbing**

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

9
10 (*****)

11 Grubbing of the area designated for “Clearing and Grubbing” shall include removal of
12 root material down to a maximum depth of 6-inches. On-site handling and temporary
13 stockpiling of grubbed material is included in the bid item “Clearing and Grubbing”. All
14 non-native and invasive species vegetative material grubbed by the Contractor shall be
15 managed per Section 8-02.3(2)B Weed and Pest Control Plan of these Special
16 Provisions.

17
18 **2-01.4 Measurement**

19 Section 2-01.4 is supplemented with the following:

20 (*****)

21 “Clearing” shall be measured per acre of the area cleared but not grubbed within the
22 designated and approved Clearing Limits.

23
24 **2-01.5 Payment**

25 Section 2-01.5 is supplemented with the following:

26 (*****)

27 “Clearing”, per acre.

28
29 **2-03 ROADWAY EXCAVATION AND EMBANKMENT**

30
31 **2-03.1 Description**

32 Section 2-03.1 is supplemented with the following:

33
34 (*****)

35 Excavation necessary to construct the ELSs is specified in Sections 2-09 and 8-05 of
36 these Special Provisions.

37
38 Excavation Including Haul includes all excavation work necessary to construct the trails,
39 vehicle access roads, sidewalks, and cement concrete pads to the proposed sections
40 and finished lines and grades specified in the Contract Plans, and to haul away and
41 dispose of the excavated material that cannot otherwise be used onsite.

42
43 (*****)

44 Add the following new section:

45
46 **2-03.2 Materials**

47
48 Materials excavated on site shall be segregated into two general categories: material for
49 salvage, and material for disposal. The Engineer will identify materials suitable for salvage

1 or disposal. "Haul" will include those materials determined by the Engineer to be designated
2 for offsite disposal because those materials either 1) are deemed unsuitable for onsite
3 usage, or 2) are in excess of what is required for salvage for reuse as Selected Materials.
4 The Contractor is responsible for hauling off site only excess material or that material
5 deemed unsuitable for salvage by the Engineer. The remaining excavated material not
6 hauled offsite or stockpiled will be reused for construction under this contract. Channel
7 Excavation shall include the excavation and handling of the following classes of selected
8 materials shown on the Contract Plans:

- 9
- 10 1. Native Alluvium (Streambed Sediment)
 - 11 2. Embankment Fill
 - 12 3. Topsoil Type B
 - 13 4. Light Loose Riprap
- 14

15 Excavated Native Alluvium shall meet the requirements of Section 9-03.11(1) (Streambed
16 Sediments). Should a shortage of Native Alluvium or Streambed Sediment, or Topsoil Type
17 B occur, and the Contractor has wasted or otherwise disposed of salvageable material, the
18 Contractor shall furnish Streambed Sediment per Section 9-03.11(1) in place of Native
19 Alluvium and/or Topsoil Type A per Section 9-14.1(3) in place of Topsoil Type B at no
20 expense to the Contracting Agency.

21

22 Topsoil Type B shall meet the requirements of Section 9-14.2(2). Material shall be salvaged
23 from areas to be planted where earth work occurs. Material shall be salvaged from a
24 maximum depth of 1 foot. Stockpiled material shall be protected and kept in a fertile, healthy
25 condition prior to placement. Stockpiles shall be no higher than 3 feet above the surface on
26 which they are placed. Prior to placement of Topsoil Type B, test and amend according to
27 Section 8-02.3(5).

28

29 Embankment Fill for use in areas receiving embankment fill as shown on the Contract Plans
30 shall consist of Topsoil Type B and excavated native floodplain material from channel
31 excavation activities. Embankment fill shall contain no deleterious material, minimal amounts
32 of clay, no frozen lumps, and limited organic material no greater than 3 inches in length.

33

34 Bid tab quantities do not include salvage and reuse of Light Loose Riprap. Salvage and
35 reuse of these materials will require adjustments to the quantities in the contract documents.

36 **2-03.3 Construction Requirements**

37 **2-03.3(7) Disposal of Surplus Material**

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

39

40

41 (*****)

42 (March 13, 1995)

43 No waste site has been provided for the disposal of surplus material not otherwise
44 identified for salvage or reuse as described herein. The Contractor shall make his
45 or her own arrangements for obtaining waste sites in accordance with this Section
46 of the Standard Specifications. All costs involved shall be considered incidental to
47 and included in the unit contract prices for other bid items in this contract. All waste
48 generated or encountered under this Contract must be managed per all applicable
49 local, state and federal regulations and law.

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2-03.3(14) Embankment Construction

2-03.3(14)C Compacting Earth Embankments

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

(*****)

Unless otherwise noted herein, the Contractor shall use Method B for compaction of earth embankments to construct the new Pressentin Park side channel and streambanks and in areas of fill placement as shown on the Contract Plans.

Placement and compaction of embankment fill for the Day Use Area and the Terrace Cap near the Day Use Area, and for all embankment fill within the Terrace Sensitive Area shall be as described in Section 2-06.4 Terrace Sensitive Area Protection and Capping.

Method D - Method D compaction shall include the use of the underside of an excavator bucket and applying pressure and impact to compact material to the satisfaction of the Engineer. The Contractor shall use Method D compaction for all cut embankment slopes for the side channel section and for the Engineered Log Structures as shown on the Contract Plans. The Contractor shall also use Method D compaction for the placement of streambed materials including Native Alluvium and Streambed Sediment for the channel bed of the side channel and to minimize void space around the logs and larger rock to the satisfaction of the Engineer.

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

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

(*****)

Excavation and backfilling may begin after the installation of any necessary Temporary Erosion and Sediment Control and water management BMPs as specified on the Contract Plans or in the project permits. Channel Excavation shall include the excavation, segregating, temporary stockpiling and onsite handling requirements of all earthwork excavation including channel excavation, bank excavation, and all related earthworks, excluding structure excavation, to establish the new Pressentin Park side channel and streambank grades as shown on the Contract Plans.

Upon Physical Completion of the Work, excavated material remaining and not required for salvage or reuse as directed by the Engineer or as described in these Special Provisions shall be disposed of by the Contractor per the bid item “Channel Excavation Incl. Haul” and in accordance with Section 2-03.3(7)B of the Standard Specifications.

2-03.4 Measurement

Section 2-03.4 is supplemented with the following:

(*****)

“Excavation Including Haul”, per cubic yard.

“Embankment Compaction – Terrace Cap Near Day Use Area”, per cubic yard.

- 1 “Embankment Compaction – Orchard Grading (East)”, per cubic yard.
- 2
- 3 “Embankment Compaction – Meadow Grading (West)”, per cubic yard.
- 4
- 5 “Embankment Compaction – Day Use Area”, per cubic yard.
- 6
- 7 “Embankment Compaction – Raised Grass Tent Pads”, per cubic yard.
- 8
- 9 “Embankment Compaction – Vehicle Access Roads and Trails”, per cubic yard.

10
11 **2-03.5 Payment**

12 Section 2-03.5 is supplemented with the following:

13
14 **(*****)**

15 The unit cost per cubic yard for “Excavation Including Haul”, shall be full compensation for
16 furnishing all labor, materials, tools, equipment, disposal, and incidentals as shown in the
17 Contract Plans.

18
19 The unit cost per cubic yard for “Embankment Compaction – Terrace Cap Near Day Use
20 Area”, shall be full compensation for furnishing all labor, materials, tools, equipment, and
21 incidentals, and for completing all work involved in placing, staking, and compacting soil, for
22 construction of embankments as shown in the Contract Plans.

23
24 The unit cost per cubic yard for “Embankment Compaction – Orchard Grading (East)”, shall
25 be full compensation for furnishing all labor, materials, tools, equipment, and incidentals,
26 and for completing all work involved in placing, staking, and compacting soil, for construction
27 of embankments as shown in the Contract Plans.

28
29 The unit cost per cubic yard for “Embankment Compaction – Meadow Grading (West)”, shall
30 be full compensation for furnishing all labor, materials, tools, equipment, and incidentals,
31 and for completing all work involved in placing, staking, and compacting soil, for construction
32 of embankments as shown in the Contract Plans.

33
34 The unit cost per cubic yard for “Embankment Compaction – Day Use Area”, shall be full
35 compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for
36 completing all work involved in placing, staking, and compacting soil, for construction of
37 embankments as shown in the Contract Plans.

38
39 The unit cost per cubic yard for “Embankment Compaction – Raised Grass Tent Pads”, shall
40 be full compensation for furnishing all labor, materials, tools, equipment, and incidentals,
41 and for completing all work involved in placing, staking, and compacting soil, for construction
42 of embankments as shown in the Contract Plans.

43
44 The unit cost per cubic yard for “Embankment Compaction – Vehicle Access Roads and
45 Trails”, shall be full compensation for furnishing all labor, materials, tools, equipment, and
46 incidentals, and for completing all work involved in placing, staking, and compacting soil, for
47 construction of embankments as shown in the Contract Plans.

48
49 **2-06 SUBGRADE PREPARATION**

50
51 **2-06.1 Description**

52 Section 2-06.1 is supplemented with the following:

**PRESENTIN PARK SIDE CHANNEL RESTORATION AND
RECREATIONAL IMPROVEMENTS RCO 16-1730
Skagit County – December 2020**

1
2 (*****)

3 This work also consists of protecting the Terrace Sensitive Area including placing High
4 Visibility Construction Geotextile prior to placing the soil cap and subsequent construction
5 and development for the Day Use and Alternative Trailhead areas.
6

7 **2-06.3(2) Subgrade for Pavement**

8 Section 2-06.3(2) is replaced with the following:
9

10 (*****)

11 Before any paving is placed, the Contractor shall bring the Subgrade to the required
12 line, grade, and cross-section. The Contractor shall compact the Subgrade to a depth of
13 4 inches to 95 percent of maximum density as determined by the compaction control
14 tests for granular materials.
15

16 The Contractor shall maintain the Subgrade in the required condition until the pavement
17 is placed. The Contractor may remove material just before paving if the Contract Plans
18 require thicker areas of pavement.
19

20 (*****)

21 Add the following new section.
22

23 **2-06.4 Terrace Sensitive Area Protection and Capping**

24
25 This section applies to all work occurring within the Terrace Sensitive Area as shown on the
26 Contract Plans, including the Temporary Construction Access across the Terrace Sensitive
27 Area, the Day Use and Nature Play Area, the gravel Maintenance Access Road from the
28 Alternative Trail Head, and the ADA gravel trail. Prior to any work occurring within the
29 Terrace Sensitive Area, a continuous layer of high visibility fence material with a minimum
30 12-inch overlap where adjacent rolls are placed, meeting the requirements of Section 9-
31 14.6(8) for the high visibility fence material, shall be placed along the existing surface in all
32 areas that will receive fill material.
33

34 Fill material used for capping the existing terrace and terrace slope will be laid so as not to
35 disturb existing soils within these areas. Fill shall be placed and compacted in 6-inch lifts,
36 with placement beginning from the northern edge of the fill material nearest Highway 20,
37 moving south out along the terrace. Equipment will operate only on placed fill material and
38 not over existing soil surface. Limit compaction in landscaped areas to 85 percent of the
39 maximum density to support healthy vegetation growth. Additional fill compaction will be
40 necessary under paths and site furnishings constructed within fill material but will be site
41 specific.
42

43 **2-07 WATERING**

44 (*****)

45 Add the following new section.
46
47

48 **2-07.2 Performance Standards**

- 49 1. No visible emissions, associated with transport, handling, construction, or storage
50 activities, beyond the Site boundaries shall occur.
- 51 2. Prevent visible particulate matter from being deposited upon public roadways,
52 sidewalks, or adjacent building facades as a direct result of operations.

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2-07.3 Construction Requirements

Section 2-07.3 is revised to read:

(*****)

The Contractor shall apply water by means of tank trucks equipped with spray bars. Spray controls shall ensure that the water flows evenly and in the amounts required to achieve the performance standards in Section 2-07.2. Provide dust control during summer time earthwork activities, as required to abate dust nuisance on and about the site, that is a result of construction activities. The Engineer may direct the Contractor to apply additional water to reduce evaporation losses in periods of hot weather.

This work will be incidental to Erosion Control and Water Pollution Prevention.

2-09 STRUCTURE EXCAVATION

2-09.1 Description

Section 2-09.1 is supplemented with the following:

(*****)

Excavation and backfilling may begin after the installation of any necessary Temporary Erosion and Sediment Control and water management BMPs as specified on the Contract Plans or in the project permits. Work covered under this specification consists of all the labor, materials, and equipment necessary to achieve a finished grade in all Engineered Log Structure (ELS) excavation and backfill locations. Structure Excavation consists of excavating, segregating, stockpiling and handling channel Native Alluvium and channel bank material, backfilling and compacting locally excavated, non-imported material for construction of the ELSs.

Dewatering for inspecting the structure foundation is not required. The Contractor may place the lower logs “in-the-wet” to minimize water management provided the work area is completely isolated from flow of the river and the water is contained within the structure excavation extents per Section 8-05. If working below the water surface, the Contractor shall account for the buoyancy of the wood during placement to ensure the logs are placed in accordance with the layers shown in the Contract Plans.

2-09.3 Construction Requirements

2-09.3(1)E Backfilling

Section 2-09.3(1)E is deleted in its entirety and replaced with the following:

(*****)

Backfilling of ELSs shall be conducted per Section 8-05 of these Special Provisions.

2-09.3(2) Classification of Structure Excavation

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

(*****)

All excavation associated with ELS structures, per Section 8-05, will be classified as Class B.

1 **2-09.4 Measurement**
2 Section 2-09.4 is supplemented with the following:
3
4 (*****)
5 No specific unit of measurement shall apply for Structure Excavation. Structure Excavation
6 will not be measured.
7
8 **2-09.5 Payment**
9 Section 2-09.5 is supplemented with the following:
10
11 (*****)
12 The cost for Structure Excavation shall be incidental to construction of engineered log
13 structures per Section 8-05 of these Special Provisions.
14
15 **2-12 CONSTRUCTION GEOSYNTHETIC**
16
17 **2-12.2 Materials**
18 Section 2-12.2 is supplemented with the following:
19
20 (*****)
21 Materials for High Visibility Fence Material shall meet the requirements for the high visibility
22 fence portion of Section 9-14.6(8) High Visibility Fencing.
23
24 **2-12.3 Construction Requirements**
25
26 **2-12.3(2) Separation**
27 Section 2-12.3(2) is supplemented with the following:
28
29 (*****)
30 High Visibility Fence Material shall be used as an indicator layer for existing ground in
31 areas of fill placement within the Terrace Sensitive Area as described in Section 2-06.4.
32 High Visibility Fence Material shall be placed on the existing ground and overlapped a
33 minimum of 12-inches prior to the placement of embankment fill.
34
35 **2-12.4 Measurement**
36 Section 2-12.4 is supplemented with the following:
37
38 (*****)
39 “High Visibility Fence Material” will be measured by the square yard for the ground surface
40 area actually covered.
41
42 **2-12.5 Payment**
43 Section 2-12.5 is supplemented with the following:
44
45 (*****)
46 “High Visibility Fence Material”, per square yard.
47
48

**DIVISION 4
BASES**

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4-04 BALLAST AND CRUSHED SURFACING

4-04.2 Materials

Section 4-04.2, delete the first sentence and replace with the following:

(*****)

Materials shall meet the requirements of these Special Provisions and the following section:

Crushed Surfacing 9-03.9(3)

4-04.4 Measurement

Section 4-04.4, the first sentence of the second paragraph is revised to read:

(*****)

“Crushed Surfacing Top Course: 3/8” – 0” shall be measured by the cubic yard.

4-04.5 Payment

Section 4-04.5, delete the second paragraph and replace with the following:

(*****)

“Crushed Surfacing Top Course: 3/8” – 0” per cubic yard.

**DIVISION 6
STRUCTURES**

(*****)

Add the following new section:

6-20 BRIDGE STRUCTURES

6-20.1 Description

This section relates to all construction and incidental items used in installation of the Prefabricated Pedestrian Bridges (Bridges 1 and 3) and the Prefabricated Vehicle Bridge (Bridge 2) at the locations and in conformity with the lines and dimensions shown in the Contract Plans, with the exception of the geosynthetic reinforced soil (GRS) abutments, that are described in Section 6-21 of these Special Provisions. The Contractor shall transport the Prefabricated Bridges from the County storage yard at Parcel P46173, 60862 Cascade River Road, Marblemount, WA 98267-9772, and install the entire new bridge systems in accordance with the lines and grades as specified on the Contract Plans. Architectural style shall generally match that illustrated on the Contract Plans. This work will include but is not limited to design by licensed professional engineers to meet all local, state and federal codes, laws and requirements (including ADA), and submittals supporting permitting for construction. This work does not include the furnishing and installation of protective fencing, bollards, or signage, which will be completed by the Owner after construction for this project's contract is complete.

6-20.2 Materials

Materials required to assemble and install the Prefabricated Pedestrian Bridges (Bridges 1 and 3) and the Prefabricated Vehicle Bridge (Bridge 2), to furnish, prepare and place reinforced concrete bridge footings and approach fill to meet final grades, and to install scour protection rock and alluvium backfill, shall meet the requirements specified by the bridge manufacturer and included in Appendix J, the requirements stated on the Contract Plans, and the following:

1. The fully engineered and prefabricated, clear span steel bridges to be transported from County storage yard stated above and installed at locations identified on the Contract Plans. Bridges shall meet dimensions, width, elevations, and slopes shown on the Contract Plans. Bridge spans shall be as shown on the Contract Plans and shall accommodate abutment and scour protection construction without protrusion into the designed channel. Channel dimensions are shown on the Contract Plans. The Contractor is responsible for providing shop drawings for bridge approaches and reinforced concrete bridge footing designs for review and approval by the Engineer at least two weeks prior to the start of bridge and associated construction.
2. The bridge manufacturer is responsible for the structural design of the concrete deck. Minimum material requirements for the concrete and reinforcing are specified on the prefabricated bridge plans included in Appendix J.
3. Additional material requirements, such as bearing plates and anchor bolts, necessary for the installation of the previously procured prefabricated bridges, are also included in Appendix J.
4. Materials used for Scour Protection Rock shall meet the requirements of Section 9-13.1(3) Light Loose Riprap.

- 1 5. Alluvium backfill material of the Scour Protection Rock shall be salvaged from
2 onsite Channel Excavation work and shall conform to the material requirements of
3 Streambed Sediment per Section 9-03.11(1) or as approved by the Engineer.
- 4 6. Materials required to prepare and install the GRS abutments as shown on the
5 Contract Plans are described in Section 6-21 of these Special Provisions.
- 6 7. Materials to construct the bridge approaches shall be salvaged from onsite
7 Channel Excavation work and shall conform to the material requirements of
8 Common Borrow per Section 9-03.14(3) or as approved by the Engineer.
- 9 8. Approach surfacing also functioning as ADA Gravel Surface Trails shall be
10 "Crushed Surfacing Top Course: 3/8" – 0" as shown on the Contract Plans and
11 described in Section 9-03.9(3) herein.
12

13 **6-20.3 Construction Requirements**

14
15 The Contractor is responsible for permitting and installation of two (2) prefabricated
16 pedestrian bridges and one (1) prefabricated vehicle bridge including delivery,
17 earthwork, foundations, abutments, scour protection, bridge surfacing, and finish
18 grading. This work is subject to the following requirements:
19

- 20 1. The Contractor shall phase and sequence construction as needed to construct the
21 bridges and abutments within the in-stream work window specified by project
22 permits and referenced in these Contract Specifications.
- 23 2. The Contractor shall transport two (2) pre-manufactured pedestrian bridges and
24 one (1) prefabricated vehicle bridge from the County storage yard and install the
25 same.
- 26 3. Contractor shall provide any supplier design information to the Contracting Agency
27 and County for compliance with building permits obtained by the Contracting
28 Agency and included in Appendix E. The Contractor shall coordinate with the
29 Contracting Agency to schedule all necessary inspections for compliance with
30 permits and Skagit County code requirements. Skagit County inspection forms are
31 provided in Appendix I of these Special Provisions.
- 32 4. Bridge approaches shall meet all ADA requirements.
- 33 5. Contractor shall install the 4000 psi concrete deck wearing surface per the bridge
34 manufacturer's specifications included in Appendix J.
- 35 6. Bridge and foundation design and installation shall result in no direct contact
36 between the structural steel elements of the bridge and the ground surface (soil).
- 37 7. All execution of earthwork, foundation preparation, drainage, foundations,
38 abutments, connections, approaches, and finish grading will be the responsibility of
39 the Contractor. Structural design elements shall be on Contractor Construction
40 Plans stamped by a licensed engineer(s) in the State of Washington submitted to
41 the Engineer for review and approval at least two weeks prior to the start of bridge
42 and associated construction.
- 43 8. Contractor is responsible for designing and building the reinforced concrete bridge
44 footings to bear on the prepared GRS abutment surfaces described in Section 6-
45 21. Geotechnical information is provided in supporting engineering documentation
46 in Appendix H for reference, but it is ultimately the responsibility of the Contractor
47 to confirm, augment, and design the bridge foundations accordingly. For bidding
48 purposes, a bearing capacity of 3,000 pounds per square foot shall be assumed for
49 foundation design.
50

51 **6-20.3(1) Preparation**

52

1 The Contractor shall provide all materials and equipment necessary to prepare the
2 bridge foundations, and install the bridge, abutments, and scour protection. The
3 Contractor shall be responsible for coordinating the delivery of the bridges from the
4 County storage yard and off-loading of the bridges at the project site or other temporary
5 location(s) specified by the Contractor, and shall perform all transport and handling
6 required to install the structure as specified. The Contractor is responsible for
7 preventing any damage to the bridges in the process of moving them from the County
8 storage yard to placing them in their final locations at the project site.
9

10 **6-20.3(2) General Installation**

- 11
- 12 A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for
13 installing metal fabrications. Set metal fabrications accurately in location,
14 alignment, and elevation; with edges and surfaces level, plumb, true, and free of
15 rack; and measured from established lines and levels.
16
- 17 B. Fit exposed connections accurately together to form hairline joints. Weld
18 connections that are not to be left as exposed joints but cannot be shop welded
19 because of shipping size limitations. Do not weld, cut, or abrade surfaces of
20 exterior units that have been hot-dip galvanized after fabrication and are for bolted
21 or screwed field connections.
22
- 23 C. Field Welding: Field welding shall be the minimum required for installation of a
24 shop-fabricated bridge. Welding is to comply with the following requirements:
25
- 26 1. Use materials and methods that minimize distortion and develop strength and
27 corrosion resistance of base metals.
 - 28 2. Obtain fusion without undercut or overlap.
 - 29 3. Remove welding flux immediately.
 - 30 4. At exposed connections, finish exposed welds and surfaces smooth and
31 blended so no roughness shows after finishing and contour of welded surface
32 matches that of adjacent surface.
33
- 34 D. Provide anchorage devices and fasteners where metal fabrications are required to
35 be fastened to in-place construction. Provide threaded fasteners for use with
36 concrete inserts, toggle bolts, through bolts, lag screws, and other connectors.
37
- 38 a. Provide temporary bracing or anchors in formwork for items that are to be built
39 into concrete or similar construction.
40

41 **6-20.3(3) Installing Miscellaneous Framing and Supports**

42 Install framing and supports to comply with requirements of items being supported,
43 including manufacturers' written instructions and requirements indicated on Shop
44 Drawings.
45
46

47 **6-20.3(4) Installing Bearing and Leveling Plates**

- 48
- 49 A. Clean concrete bearing surfaces of bond-reducing materials and roughen to
50 improve bond to surfaces. Clean bottom surface of plates.
51

- 1 B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing
2 members have been positioned and plumbed, tighten anchor bolts. Do not remove
3 wedges or shims but, if protruding, cut off flush with edge of bearing plate before
4 packing with grout.
5

6 **6-20.3(5) Adjusting and Cleaning**

7

- 8 A. Touchup Painting: The Contractor shall be responsible for inspecting and
9 examining shop painted surfaces for bare or marred spots. Immediately after
10 erection, clean field welds, bolted connections, and abraded areas. Paint uncoated
11 and abraded areas with the same material as used for shop painting to comply with
12 SSPC-PA 1 for touching up shop-painted surfaces.
13

14 b. Apply by brush or spray to provide a minimum 3.0-mil dry film thickness.
15

- 16 B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas
17 and repair galvanizing to comply with ASTM A 780.
18

19 **6-20.3(6) Site Quality Control**

20

21 Bridge installation work will be reviewed for acceptance in parts agreeable to the
22 Contracting Agency, provided work offered for review is complete.
23

24 **6-20.4 Measurement**

25

26 No specific unit of measurement will apply to the lump sum item for Install Pedestrian
27 Bridge #1 (83.5 ft); however, measurement will be for the sum total of all costs to permit,
28 transport, and install Pedestrian Bridge #1 to the requirements in these Contract
29 Specifications, including furnishing and placement of approach fill and the reinforced
30 concrete bridge footings, as well as placement of scour protection rock and alluvium backfill
31 as shown on the Contract Plans and described herein.
32

33 No specific unit of measurement will apply to the lump sum item for Install Vehicle Bridge #2
34 (78.5 ft); however, measurement will be for the sum total of all costs to permit, transport, and
35 install Vehicle Bridge #2 to the requirements in these Contract Specifications, including
36 furnishing and placement of approach fill and the reinforced concrete bridge footings, as well
37 as placement of scour protection rock and alluvium backfill as shown on the Contract Plans
38 and described herein.
39

40 No specific unit of measurement will apply to the lump sum item for Install Pedestrian Bridge
41 #3 (58.5 ft); however, measurement will be for the sum total of all costs to permit, transport,
42 and install Pedestrian Bridge #3 to the requirements in these Contract Specifications,
43 including furnishing and placement of approach fill and the reinforced concrete bridge
44 footings, as well as placement of scour protection rock and alluvium backfill as shown on the
45 Contract Plans and described herein..
46

47 **6-20.5 Payment**

48

49 "Install Pedestrian Bridge #1 (83.5 ft)", lump sum.
50

51 "Install Vehicle Bridge #2 (78.5 ft)", lump sum.
52

1 "Install Pedestrian Bridge #3 (58.5 ft)", lump sum.

2 (*****)

3 Add the following new section:

4

5 **6-21 GEOSYNTHETIC REINFORCED SOIL ABUTMENTS**

6

7 **6-21.1 Description**

8

9 This section relates to all construction and incidental items used to construct geosynthetic
10 reinforced soil (GRS) abutments for Bridges 1, 2, and 3. The GRS abutments include pre-
11 cast concrete block fascia, biaxial geosynthetic reinforcement, and select imported
12 reinforced zone structural fill. The GRS abutments are U-shaped in plan view and they
13 extend from the prepared subgrade elevation up to foundation subgrade elevation for each
14 bridge.

15

16 The Contractor is responsible to design and build the reinforced concrete bridge foundations
17 to bear on the prepared GRS abutment surface. The Contractor is also responsible to
18 furnish and install any additional block fascia and approach fill to backfill the bridge
19 foundations and complete the trail approaches to suit final grades.

20

21 **6-21.2 Materials**

22

23 Materials required to prepare and install the GRS abutments as shown on the Contract
24 Plans include:

25

- 26 1. Block Fascia shall consist of 8-inch tall, nominally 18-inch wide, and at least 12-
27 inch deep, pre-cast concrete blocks manufactured specifically for use as a retaining
28 wall fascia. Acceptable blocks include but are not limited to: Keystone Compac;
29 and Allan Block AB Stones. Other blocks that meet these requirements will be
30 considered by the Engineer. Contractor shall submit proposed block type for review
31 and approval by the Engineer at least two weeks prior to the start of GRS abutment
32 construction. Manufacturer-specific corner units and capping units are required as
33 necessary to build the abutments as shown in the Contract Plans.
- 34 2. Geosynthetic reinforcement shall consist of biaxial woven polypropylene
35 geosynthetic, with wide width tensile strength of at least 4,800 pounds per foot in
36 both directions, and a roll width of at least 12 feet. Two products that meet this
37 requirement are Nilex 2044, and US Fabrics US 4800. Other geosynthetics
38 meeting these requirements will be considered by the Engineer. Contractor shall
39 submit proposed geosynthetic material at least two weeks prior to the start of GRS
40 abutment construction.
- 41 3. Reinforced zone structural backfill shall consist of clean chipped quarry rock, with a
42 maximum particle size of ¾-inch, and locally referred to as "¾-inch clear chips".
43 One nearby quarry that can supply this material is Beaver Lake Quarry near Mount
44 Vernon, Washington. Contractor shall submit one 25-pound sample of the
45 proposed reinforced zone structural material, and identify the material supplier and
46 stockpile location, at least two weeks prior to the start of GRS abutment
47 construction.
- 48 4. Leveling pad material, if needed, shall consist of reinforced zone structural backfill
49 as described herein.

50

1 **6-21.3 Construction Requirements**
2

3 The Contractor is responsible to construct the GRS abutments as shown in the Contract
4 Plans, and per the following requirements:
5

- 6 1. The GRS abutment fill pads will be U-Shaped in plan view, and sized to
7 accommodate the reinforced concrete bridge footings. There must be at least 8
8 inches of clear horizontal space between the inside face of blocks and the exterior
9 faces of the reinforced concrete bridge footing. The top of the GRS abutment shall
10 be considered to coincide with the base of footing. The Contractor is responsible
11 for the design and construction of the reinforced concrete bridge footing as
12 described in Section 6-20.
- 13 2. Depending on the pre-cast concrete wall block that is selected by the Contractor,
14 and approved by the Engineer, the block fascia may have a slight batter, or it may
15 be vertical. The Contractor is responsible for the proper layout of the GRS
16 abutment.
- 17 3. The GRS abutments shall have burial/embedment depths of at least 2 feet (3
18 courses of blocks) below adjacent exterior finished grade. The subgrade at the
19 base of each GRS abutment must be cleared of vegetation, topsoil, and other
20 deleterious matter, and shall be approved the Engineer prior to any fill or block
21 placement.
- 22 4. A leveling pad may be appropriate directly below the blocks to provide a flat and
23 uniform surface upon which to place blocks per block manufacturer's
24 recommendations. If needed, leveling pad material should consist of imported,
25 reinforced zone backfill, as specified herein.
- 26 5. The biaxial geosynthetic shall be placed at 8-inch vertical spacing, to coincide with
27 each course of block. The geosynthetic shall extend from wall face to wall face in
28 the direction perpendicular to the bridge longitudinal axis. In the direction parallel
29 to the bridge axis, the geosynthetic shall extend back at least 12 feet from the face
30 of block, or the total height of wall, whichever is longer.
- 31 6. The geosynthetic shall be mechanically secured to each block course using
32 fiberglass pins or other approved means. Successive courses of block shall be
33 secured to one another using fiberglass pins, pre-cast concrete interlocks, or other
34 approved means.
- 35 7. Reinforced zone backfill shall consist of ¾-inch clear quarry rock chips, and shall
36 be placed and compacted, in 8-inch lifts, to a dense/unyielding condition using
37 lightweight walk-behind vibratory equipment.
- 38 8. The prepared GRS abutments will be suitable of supporting a design allowable
39 bearing capacity of 3,000 pounds per square foot for each bridge. This allowable
40 bearing capacity shall be assumed for reinforced concrete foundation design by the
41 Contractor.
42

43 **6-21.4 Measurement**
44

45 Measurement of the GRS abutments shall be lump sum per bridge and shall include but not
46 be limited to modular blocks, geosynthetic, reinforced zone backfill, and any other work or
47 materials necessary to construct a complete abutment.. Any additional modular blocks and
48 structural backfill that is necessary to bury the bridge foundations, and complete the
49 approach grade, is considered incidental.
50

51 **6-21.5 Payment**
52

- 1 "Furnish and Install GRS Abutments for Pedestrian Bridge #1," lump sum.
- 2
- 3 "Furnish and Install GRS Abutments for Vehicle Bridge #2," lump sum.
- 4
- 5 "Furnish and Install GRS Abutments for Pedestrian Bridge #3," lump sum.
- 6

1
2 **DIVISION 7**
3 **DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS,**
4 **WATER MAINS, AND CONDUITS**

5 **7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS**

6
7 **7-05.4 Measurement**

8 Section 7-05.4 is supplemented with the following:

9
10 (*****)

11 Measurement of Gravel Backfill for Drywells will be by the volume placed within the neatline
12 limits for Gravel Backfill for Drywells shown in the Contract Plans.

13
14 **7-05.5 Payment**

15 Section 7-05.5 is supplemented with the following:

16
17 (*****)

18 "Gravel Backfill for Drywells", per cubic yard.

19
20 **7-09 WATER MAINS**

21
22 **7-09.2 Materials**

23 Section 7-09.2 is supplemented with the following:

24
25 (*****)

26 1 1/2" Polyethylene Water Service	9-30.1(7)
27 Construction Geotextile for Soil Stabilization	9-33.1

28 Yard Hydrant shall be Murdock compression hydrant with ADA paddle handle or
29 equivalent, approved by Engineer.

30
31
32 **7-09.3(1) Construction Requirements**

33 Section 7-09.3(1) is supplemented with the following:

34
35 (*****)

36 Earthwork within the Terrace Sensitive Area shown on the Contract Plans shall be in
37 accordance with the Cultural Resources Monitoring Plan included in Appendix D to
38 these Contract Specifications.

39
40 **7-09.4 Measurement**

41 Section 7-09.4 is supplemented with the following:

42
43 (*****)

44 Measurement of 1 1/2" Polyethylene Water Service will be by the linear foot of pipe laid and
45 tested and shall be measured along the pipe through fittings, valves, and couplings.

46
47 Yard Hydrant shall be measured per each.

48
49 **7-09.5 Payment**

50 Section 7-09.5 is supplemented with the following:

51

1 (*****)
2 The unit Contract price per linear foot for 1 ½” Polyethylene Water Service shall be full pay
3 for all Work to complete the installation for the water service, including but not limited to,
4 removal of structures and obstructions, trench excavation and haul, laying and jointing pipe
5 and fittings, installation of valves and valve boxes, bank run gravel and borrow for trench
6 backfill, backfilling, warning tape, testing, disinfecting the service, flushing, dechlorination of
7 water used for flushing, and cleanup.
8
9 “Yard Hydrant” per each shall be full pay for all work to furnish and install the yard hydrant in
10 place on the water service, including trenching, jointing, drain rock, bleed fitting, backfilling,
11 painting, disinfecting, hydrostatic testing, and cleanup.

**DIVISION 8
MISCELLANEOUS CONSTRUCTION**

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.1 Description

Section 8-01.1 is supplemented with the following:

(*****)

This work shall consist of installing Temporary Erosion and Sediment Control (TESC) and water management Best Management Practices (BMPs) as shown on the Contract Plans and in accordance with these Special Provisions, and all federal, state, and local regulations and permit requirements and as directed by the Engineer or Contracting Agency. The Contractor shall be responsible for all temporary erosion and sediment control and water management measures during construction and until the Notice of Termination is issued to meet all federal, state, local and permit requirements. The Contracting Agency will be responsible for monitoring and measuring turbidity as specified in applicable permits.

(*****)

The following is added at the end of this section:

This Work includes seeking coverage under the Washington State NPDES Construction Stormwater General Permit, including submittal of a Transfer of Coverage Form.

8-01.3 Construction Requirements

8-01.3(1) General

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

(*****)

All equipment used for in-water work within the existing ordinary high water (OHW) level of the Skagit River shall use only biodegradable vegetable-based hydraulic fluids. Equipment used outside of the existing OHW is not required to use biodegradable vegetable-based hydraulic fluids.

Equipment used for this project shall be free of external petroleum-based products while working near any surface water or wetland. Accumulation of soils or debris shall be removed from the drive mechanisms (wheels, tracks, tires, etc.) and undercarriage of equipment prior to working below the OHW. Equipment shall be checked at the beginning of each work shift for leaks, and any repairs shall be completed prior to commencing work activities. No equipment shall be stored overnight within 100 feet of any wetted channel.

8-01.3(1)A Submittals

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

(*****)

The Contract Plans include TESC, water management, flow bypass, and fish exclusion requirements that represent the minimum required measures. Actual measures will depend on the Contractor's means and methods and construction

1 sequencing. The Contractor shall submit the following erosion and water pollution
2 control plans:

- 3
- 4 1. TESC Plan: This plan shall include all upland (landward of the Ordinary High
5 Water (OHW) level shown on the Contract Plans) erosion and sediment
6 control methods such as stabilized construction entrances, bark mulch, hog
7 fuel or other ground surfacing for stabilizing access roads, berms or ditches to
8 control surface runoff, silt fence, straw wattles, and the placement of
9 temporary or permanent seeding and mulching for erosion control. The
10 Contractor shall prepare a Stormwater Water Pollution Prevention Plan
11 (SWPPP) as part of the TESC plan that addresses the requirements of the
12 project's NPDES Permit.
- 13
- 14 2. Flow Bypass and Fish Exclusion (FBFE) Plan: This plan shall address all work
15 in close proximity and below the Ordinary High Water (OHW) Line of the
16 Skagit River including installing silt booms, bypassing side channel flow with
17 pumping or gravity bypass pipe, dewatering the work area within the OHW,
18 and installing and maintaining all fish exclusion and water quality best
19 management practices to be consistent with project permits and these
20 Contract Specifications.

21

22 **8-01.3(1)C Water Management**

23 Section 8-01.3(1)C is supplemented with the following:

24

25 (*****)

26 Contractor shall provide and maintain TESC measures as required to protect the
27 Skagit River during construction. If turbidity or sediment from the work area is
28 found to be affecting the Skagit River or adjacent side channels, sloughs, or
29 streams, which constitutes a violation of any water quality requirements or permit
30 conditions, or as determined by the Engineer, the Contractor shall:

- 31
- 32 1. Stop work immediately to allow dissipation of turbidity or sediment until
33 water quality returns to within the required parameters.
- 34 2. Conduct an inspection of all TESC BMPs to identify any potential
35 problems. Immediately repair and/or replace any BMP found to not be
36 effective.
- 37 3. Augment existing BMPs as necessary.
- 38 4. Alter work methods and/or means as necessary to prevent any further
39 occurrences of violations in water quality.
- 40 5. After performing all of the above, work activities may be continued
41 provided water quality conditions are met.

42

43 (*****)

44 Add the following new section:

45

46 **8-01.3(1)F Work Area Isolation, Dewatering, and Fish Handling**

47

48 Portions of work on this project are located within the wetted river channel or side
49 channel. It shall be the sole responsibility of the Contractor to manage all surface
50 water and groundwater, and to divert all water around the work areas to completely
51 isolate the work areas from the Skagit River. All work area isolation, dewatering,
52 and fish handling materials, equipment, and labor will be incidental to other bid

1 items. Work area isolation and any water management for the work areas
2 necessary during ELS construction and inspection shall be incidental to the
3 construction of each ELS. Information about the modeled peak flow rates and
4 water surface elevations for the Skagit River can be found in the “Technical
5 Memorandum - Hydraulic Analysis for the Pressentin Park Side Channel
6 Restoration Phase 2 Design” included in Appendix B. A schematic of the work area
7 isolation is shown on the Contract Plans as a guide providing the minimum
8 requirements.
9

10 Groundwater can be expected and should be anticipated to be encountered at any
11 time the existing ground is disturbed within the project area. Likewise, dewatering
12 may be needed to perform work in and around the existing river channel for the
13 construction of ELSs adjacent to the river channel. If dewatering is necessary,
14 waters removed from construction work areas shall be pumped to upland
15 dewatering areas approved by the Engineer. Removed waters shall not be
16 discharged back to the Skagit River or any other surface water body unless
17 approved by the Engineer or the Contracting Agency. The Contractor may place
18 the lower logs of the ELSs “in-the-wet” to minimize water management costs
19 provided the work area is completely isolated from fish and river flow and the water
20 is contained within the structure excavation extents. Dewatering for the purpose of
21 inspecting the structure foundation is not required. If working below the water
22 surface, the Contractor shall account for the buoyancy of the wood during
23 placement to ensure that water is not forced or pushed outward of the isolated
24 work area into the Skagit River.
25

26 The Contractor shall be responsible for all labor, materials, equipment, and
27 maintenance for the work area isolation, construction of temporary push up dams,
28 temporary flow by-pass channels, and fish exclusion and fish handling.
29

30 Any device used for diverting water or excluding fish shall be equipped with a fish
31 guard to prevent passage of fish into the diversion device pursuant to RCW
32 77.57.010 and 77.57.070. Pump intakes shall be screened with 3/32-inch mesh to
33 prevent fish from entering the system. The screened intake shall consist of a
34 facility with enough surface area to ensure that the flow velocity through the screen
35 is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent
36 injury or entrapment to juvenile fish and the screen shall remain in place whenever
37 water is withdrawn from the Skagit River. All costs for providing and maintaining
38 screens shall be incidental to the bid items of the associated construction activity.
39

40 **8-01.3(2) Temporary Seeding and Mulching**

41 **8-01.3(2)B Temporary Seeding**

42 Section 8-01.3(2)B is supplemented with the following:
43

44 (*****)

45 **Hydroseeding Operation**

46 Perform hydroseeding according to the following;
47

48 Two-Step Operation – use the two-step method for all hydroseeding
49 operations:
50
51

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52

Step 1 – Apply seed and tracer. If hydromulch is used as a tracer, apply it at a rate of 500 pounds per acre. Thoroughly mix seeds when more than one kind is to be used.

Step 2 – Apply mulch and tackifier. Hydromulch, if used as a tracer in Step 1, will be included as part of the specified hydromulch rate.

8-01.3(2)D Temporary Mulching

Replace Section 8-01.3(2)D with the following new section:

(*****)

Hydromulch From Cellulose or Wood Fiber

Furnish mulch Materials free of all weed or plant seeds and containing no substance detrimental to plant life. Furnish mulch meeting the following requirements:

Cellulose fiber from virgin wood or paper product from the QPL. Furnish wood processed so the fibers remain uniformly suspended under agitation in water and the fibers have moisture-absorption and percolation properties. Ship hydromulch in packages of uniform weight, ± 5 percent, and labeled with the manufacturer’s name and air-dry weight. Include enough green dye tracer so applied mulch is easily visible.

Apply hydromulch at the manufacturer’s recommended rate for the given ground slope.

Wood Strand Mulch

Wood strand mulch for use as hog fuel in areas for construction of the Temporary Construction Access Road shall be applied by hand or blower over areas that are hand seeded. Wood strand mulch shall be applied within 48 hours after seeding. Wood strand mulch shall be applied uniformly at a rate of 7,500 pounds per acre such that the soil surface is covered at a minimum of 50 percent.

(*****)

Add the following new sections:

8-01.3(2)D1 Straw Mulch

Any straw mulch used within the straw wattles or for covering exposed earth as a temporary erosion control measure shall be derived from harvested wheat or alfalfa plant stalk (no hay from a grass source). The straw shall be seasoned (an air-dried condition) free from noxious weeds, seeds or other undesirable materials prior to loading and delivery to the site. The straw shall be suitable for spreading by mechanical means or by hand methods as a temporary erosion control measure.

The Contractor shall be responsible for providing and placing the straw in areas noted on the Contract Plans and as directed by the Engineer.

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8-01.3(9)A1 Fencing

Section 8-01.3(9)A1 is supplemented with the following:

(*****)

When High Visibility Fence (HVF) is called for in the Contract Plans within the Terrace Sensitive Area to provide a visual indicator layer prior to the placement of embankment fill, only the high visibility fence material, and not the posts, shall be placed on top of existing ground so as not to disturb the soil. This work is described in Section 2-06.4 and Section 2-12 herein and shall be included in the bid item for “High Visibility Fence Material”.

8-01.4 Measurement

Section 8-01.4 is supplemented with the following:

(*****)

“Hog Fuel”, per cubic yard.

“Hydroseeding”, per acre

8-01.5 Payment

Section 8-01.5 is supplemented with the following:

(*****)

The unit cost per cubic yard for “Hog Fuel”, shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for completing all work involved in delivering, placing, wood strand mulch for construction of temporary construction access roads as shown in the Contract Plans.

The unit cost per cubic yard for “Hydroseeding”, shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for completing all work involved in delivering and placing hydroseeding and hydromulch as shown in the Contract Plans.

8-02 ROADSIDE RESTORATION

8-02.1 Description

(*****)

Section 8-02.1 has the following added to the beginning of the section:

This work consists of planting area preparation and seeding. Plant materials for the side channel and 100-foot planting buffer for the side channel are not included in this Contract and will be conducted by others following construction. Park improvement and Erosion and Sediment Control planting is included within this contract.

8-02.3 Construction Requirements

8-02.3(2)Work Plans

8-02.3(2)B Weed and Pest Control Plan

Section 8-02.3(2)B has the following inserted at the beginning of this section:

1 (*****)
2 All work to prepare, submit, and implement the Weed and Pest Control Plan shall
3 be incidental to and included in the other bid items of work. Prior to drafting the
4 Weed and Pest Control Plan, the Contractor shall meet on site with the Engineer to
5 discuss target weeds and unwanted vegetation on site and the methods for
6 controlling the species. Target weeds may include County-listed noxious weeds or
7 naturalized non-native plants. Methods for controlling each unwanted species shall
8 be proposed in the Weed and Pest Control Plan. The Weed and Pest Control Plan
9 shall include a narrative describing methods and timing of control efforts.
10 Additionally, a hand-marked plan sheet shall be included to show locations of
11 described methods and corresponding schedule for each location. Work shall not
12 commence until the Weed and Pest Control Plan has been approved in writing by
13 the Engineer.

14
15 The **Weed and Pest Control Plan** shall identify how the Contractor will address
16 the following requirements:

- 17
18 1. The Contractor shall submit the Weed and Pest Control Plan within 30 days of
19 contract start date.
20 2. The Contractor shall visually inspect all landscape zones monthly, or as
21 determined by the Engineer to identify potential pest problems. Pest problems
22 include insect, disease, and weed infestations. The presence of a pest does
23 not necessarily mean there is a problem. The Contractor shall keep written
24 records of pests identified and zones where problems may be developing and
25 submit these records to the Engineer upon request. The Contractor shall
26 identify areas where non-chemical integrated pest management control
27 methods shall be implemented.

28
29 **8-02.3(3) Weed and Pest Control**

30
31 **8-02.3(3)A Chemical Pesticides**

32
33 This section is replaced with the following:

34
35 (*****)
36 **Pesticides:** Pesticides include all herbicides, insecticides, fungicides, and various
37 other substances used to control pests. Presentin Park is a pesticide free
38 management area. Notify the County of all positive pest identifications. Contractor
39 will not apply any pesticides unless approved and instructed by Skagit County.

40
41 **8-02.3(3)C Project Area Weed and Pest Control**

42
43 This section is supplemented with the following:

44 (*****)
45 All plant species listed as noxious weeds in Skagit County will be controlled within
46 the project limits. The site may also include other invasive and competitive
47 vegetation, as determined by the Engineer, which shall be controlled as ordered by
48 the Engineer.

49
50 Noxious weeds and pest vegetation on this project may include, but is not limited
51 to, the following:

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1. Himalayan blackberry (*Rubus discolor*, *R. procerus* or *R. armeniacus*),
2. Reed canarygrass (*Phalaris arundinacea*),
3. Tansy ragwort (*Jacobaea vulgaris*)

This list of pest vegetation is not a complete list of weeds to be controlled within the project limits. The site may also include other unwanted invasive or competitive vegetation, as determined by the Engineer, which shall be controlled as recommended by the Washington State Noxious Weed Program (<http://www.nwcb.wa.gov/>) or as ordered by the Engineer. The Contractor shall identify all target weeds, specific to the site, to be controlled in the Weed and Pest Control Plan in accordance with Section 8-02.3(2).

All weeds and invasive plants contained within the clearing limits as shown on the Contract Plans shall be removed per Section 2-01(Clearing, Grubbing, and Roadside Cleanup).

8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation

Protect existing native vegetation during all seeding area preparation. Seeding will occur only within bare areas and around existing native vegetation.

Erosion Control Seed Mixes shall be seeded according to Section 8-02.3(5)A.

Park Seed Mix within Day Use Area shall be seeded according to Section 8-02.3(5)B.

8-02.3(5)A Seeding Area Preparation

This Section is supplemented with the following:

(*****)

Do not cultivate soil within the drip line of any mature trees or areas of existing vegetation to be retained, as indicated in the Drawings. Any exposed tree roots in cut slopes shall be neatly pruned at the finished grade and the cuts treated with an approved sealer. Do not drive over cultivated soils with heavy equipment prior to seeding.

For areas where fill material will be placed and erosion control seeding will occur, prepare seeding areas as follows:

1. Submit seeding areas soils for testing and provide a Soil Fertility and Soil Amendment Report. Prior to planting, furnish a soil fertility analysis of existing soils performed by a certified testing lab. Prior to planting, adjust soil amendment and fertilizer applications to establish native vegetation cover as recommended by the soil amendment report and as approved by the County. For sampling method, take five samples per acre of each soil type. Mix the samples into one test sample containing approximately 1 quart of soil for each soil type. Furnish map of soil test locations and soil fertility test results that provide information on available nutrient content and fertility status of the soil.
2. Amend onsite soils according to recommendations of Soil Fertility and Soil Amendment Report, using fertilizers and amendments consistent with Section 8-02.3(6)B.

- 1 3. Erosion Control seeded areas shall be prepared according to Section 8-
2 02.3(5)A.

3
4 **8-02.3(9) Seeding, Fertilizing, and Mulching**

5
6 **8-02.3(9)B Seeding and Fertilizing**

7 Section 8-02.3(9)B is replaced with the following:

8 (*****)

9 The Contractor shall prepare the seeding areas for Erosion Control
10 Meadow Seed Mix, Erosion Control Riparian Shade Seed Mix, and
11 Park Seed Mix in accordance with Section 8-02.3(5)A and apply seed
12 at the rate and mix specified in these Special Provisions. The
13 Contractor shall notify the Engineer within 5 days in advance of any
14 seeding operation and shall not begin the Work until areas prepared or
15 designated for seeding have been accepted. Following the Engineer's
16 acceptance, seeding of the accepted ground surfaces shall begin
17 immediately.

18
19 Seeding shall not be done during windy weather or when the ground is
20 frozen, or excessively wet.

21
22 **8-02.3(9)C Seeding with Fertilizers and Mulches**

23 This Section is supplemented with the following:

24 (*****)

25 Fertilizer

26 Fertilizer shall meet the requirements of Section 9.14.4

27
28 Supplement fertilizer application with ProGanics soil amendment, or
29 similar amendment product, at a rate between 3,500 and 5,000 pounds
30 per acre. Soil amendment application rate shall be adjusted according
31 to Soil Fertility and Soil Amendment Report per Section 8.02(3)5 and
32 manufacturer's recommendations.

33
34 **8-02.3(9)E Protection and Care of Seeded Areas**

35 This section is supplemented with the following:

36 (*****)

37 The Establishment Period for all seeded areas shall be 1 year. During
38 the 1 year Establishment Period the Contractor shall be responsible for
39 all necessary maintenance to establish seeded areas.

40
41 Maintain Erosion Control seeded areas in a satisfactory condition until
42 final acceptance by the Engineer or Contracting Agency.

43
44 All seeded areas not in a healthy growing condition, meeting at least
45 90 percent groundcover at the end of the Establishment Period, as
46 determined by the Engineer, shall be reseeded by hand sowing with
47 original seed mix. Such replacement shall be made during the
48

1 appropriate seeding season and in accordance with the measurement
2 and payment section of this Contract Document.

3
4 If in the opinion of the Engineer, repeat seeding or repair is necessary
5 due to Contractor's negligence, carelessness or failure to provide
6 maintenance, then the Work shall be at the Contractor's sole expense.

7
8 Repeat seeding or repair required due to factors determined by the
9 Engineer to be beyond the control of the Contractor shall be paid for
10 under the appropriate contract pay items.

11
12 **8-02.3(10)C Lawn Establishment**

13 Section 8-02.3(10) is supplemented with the following

14
15 (*****)
16 Maintenance for Park Seed Mix within Day Use Area shall be according to this
17 Section.

18
19 **8-02.4 Measurement**

20 Section 8-02.4 is supplemented with the following

21 (*****)
22
23 Seeding, Fertilizing, and Mulching – Erosion Control Seeding will be measured by the acre or
24 by ground slope measurement or through the use of design data.

25
26 Seeding, Fertilizing, and Mulching - Park Seed Mix will be measured by the acre or by
27 ground slope measurement or through the use of design data.

28
29 Engineered Wood Fiber Mulch, per cubic yard

30
31 **8-02.5 Payment**

32 Section 8-02.5 is supplemented with the following

33 (*****)
34
35 “Seeding, Fertilizing, and Mulching” per acre.

36
37 “Seeding, Fertilizing, and Mulching - Park Seed Mix”, per acre.

38
39 “Engineered Wood Fiber Mulch”, per cubic yard

40
41 **8-04 CURBS, GUTTERS, AND SPILLWAYS**

42
43 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

44 Section 8-04.3(1) is supplemented with the following

45 (*****)
46
47 This work consists of constructing the Cement Concrete Curbs at the locations and in
48 conformity with the lines, elevations, dimensions and orientations shown on the
49 Contract Plans. Furnish all labor, materials, tools, equipment, and services necessary to
50 complete this work in accordance with the Contract Plans, these Special Provisions,
51 and the Standard Specifications.

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8-04.4 Measurement

Section 8-04.4 is supplemented with the following

(*****)

All curbs will be measured by the linear foot along the line and slope of the completed curbs, including bends.

8-04.5 Payment

Section 8-04.5 is supplemented with the following

(*****)

Payment will be made for Cement Concrete Curb, per linear foot

(*****)

Add the following new section:

8-05 ENGINEERED LOG STRUCTURES

8-05.1 Description

This work consists of constructing Engineered Log Structures (ELs) at the locations and in conformity with the lines, elevations, dimensions and orientations shown on the Contract Plans, or as established by the Engineer during construction. Detailed drawings and layering plans for the ELs are provided on the Contract Plans. Their exact location may be adjusted by the Engineer based on site conditions at the time of construction.

Some slash material and racking logs may be obtained by approved project clearing. These adjustments have been made to the bid item quantities.

8-05.2 Materials

Materials used in constructing each ELS shall meet the requirements of the following sections:

- Light Loose Riprap 9-13.1(3)
- Rock for Rock Walls and Chinking Material 9-13.7(1)
- Wood Material for Engineered Log Structures 9-38

Specifications for chain and associated hardware are included on the Contract Plans.

Furnish and deliver to the project site (and use owner-supplied and reuse salvaged material as applicable) for construction of each ELS (as applicable) the following: all Type R and Type L key logs; all racking logs; all slash material; all log lashing material and associated hardware; all ballast rock, chain and associated hardware to construct the ballast rock anchors; and all riprap needed for the scour aprons for Inlet ELS Type 1, N1-1 and N1-2. Coordinate with the Owner for delivery of all ELS construction materials furnished by the Owner (all Type R and Type L key logs, 283 racking logs and 714 CY slash). Load, transport and unload all Contractor furnished material to the staging area closest to the work area as shown on the Contract Plans.

1 Prioritize using salvaged logs from onsite clearing approved by the Engineer for use in the
2 Habitat ELSs before using other Owner-supplied imported logs. All other Type R and Type L
3 key logs will be Owner-supplied and delivered to the project site as coordinated with the
4 Contractor. Purchase or procure separately at no additional cost to the Contracting Agency
5 additional key logs, racking logs, slash material or other material required due to breakage,
6 misuse or loss caused by the Contractor beyond a reasonable amount. Incorporate any
7 slash material obtained via salvage from project site clearing activities into the ELSs.

8
9 Move onto the Temporary Construction Access Road for the Contracting Agency's future use
10 all surplus key logs, racking logs or slash material left over after completing the Project. All
11 remaining surplus materials shall become the property of the Contractor and be removed
12 from the site. The costs associated with moving, handling, and staging these materials shall
13 be included in the bid item price for Mobilization.

14 15 **8-05.3 Construction Requirements**

16 17 **8-05.3(1) General**

18
19 Do not commence construction of an ELS until:

- 20 1. The location of the ELS vertical logs are staked by the Contractor and
21 approved by the Engineer;
- 22 2. 100% of the ELS work area has been isolated from active flow of the river
23 where applicable, and fish exclusion activities have been completed within the
24 isolated area;
- 25 3. all necessary temporary erosion and sediment control measures, flow bypass
26 measures, and fish exclusion controls are installed, operational and properly
27 maintained;
- 28 4. all work area access routes, and material stockpile and staging areas are
29 established,
- 30 5. all ELS construction materials have been approved.

31
32 Construct each ELS in accordance with the Contract Plans and these Special
33 Provisions. The Contract Plans include log orientations in a sequence of vertical layers.
34 Place wood and backfill material for each layer as detailed in the Contract Plans, or as
35 otherwise designated by the Engineer to adjust for varying log diameters and shapes
36 and site conditions.

37 38 **8-05.3(2) Excavation**

39
40 Complete excavation for ELS construction in accordance with Section 2-09 of the
41 Standard Specifications and as modified in these Special Provisions. Design, furnish,
42 and install all temporary shoring needed to complete ELS excavation and to isolate the
43 excavation from actively flowing waters. Remove shoring when the ELS is complete. All
44 excavation associated with the ELSs will be classified as Structure Excavation Class B
45 per Section 2-09. Pumping or draining excavated areas for the purpose of inspecting
46 the excavation foundation (i.e., the bottom of the excavation) is not required. Manage
47 water in the excavation as needed to ensure the ELSs are constructed as shown on the
48 Contract Plans and that water quality permit requirements are not violated. All
49 excavation necessary for ELS construction shall be included in and be incidental to
50 construction of the ELS and will not be measured and paid for separately. Topsoil,
51 sands, gravels, cobbles, boulders and ground water will be encountered during ELS
52 excavation.

1
2 Excavated materials suitable for use as backfill or Selected Material shall be
3 segregated and temporarily stockpiled for future placement as Selected Material as
4 specified in Section 2-03. Excavated materials deemed by the Engineer as unsuitable
5 for use as Selected Material shall be combined with other unsuitable excavation
6 material and disposed of off-site as directed by the Engineer. For bidding purposes,
7 this unsuitable material generated from the Class B structure excavation shall be
8 included in the bid item "Channel Excavation Including Haul".
9

10 **8-05.3(3) Placement of Materials**

11
12 Following excavation, complete wood and backfill material placement, log lashing
13 installation, and ballast rock anchor placement for each ELS, as applicable, as shown
14 on the Contract Plans, and as described below.
15

16 For ELSs with vertical logs, install the vertical logs first before placing the remaining
17 wood material or backfill material. Place the key logs in each layer in direct contact with
18 the upstream side of the vertical logs unless noted otherwise in the Contract Plans.
19 Where key logs do not contact vertical logs, said key logs shall be placed such that
20 direct contact is made with other key logs in a manner that the upper (higher elevation)
21 key log acts to pin down the lower key log. Place key logs with ends protruding outside
22 of the ELS core to help hold racking logs tightly against the ELS.
23

24 Coordinate with the Engineer before placing racking logs, salvaged logs and slash
25 material for each layer in the ELSs. Place racking logs, salvaged logs, slash material,
26 and backfill material consisting primarily of ballast rock and Selected Material around
27 the key logs for each layer per the ELS details and layering plans included on the
28 Contract Plans. Ballast rock and Selected Material shall be compacted using Method D
29 (per Section 2-03.3(14)C of these Special Provisions) to minimize voids and to ensure
30 no void spaces exceed 2 inches. Place slash material along the top and waterward face
31 of each ELS at the interface of the backfill material and the racking logs to prevent
32 bleeding of the finer backfill material out of the ELS. No ballast rock anchors shall be
33 visible along the waterward face of the ELSs following placement of racking logs, slash
34 material and native alluvium backfill. Ensure that Contractor-provided ballast rock does
35 not damage or overload chain and hardware during ballast rock anchor placement.
36

37 Logs in the lower layers of each ELS may be placed "in-the-wet", but only after the ELS
38 work area is completely isolated from surface flow of adjacent open water per the
39 approved FBFE Plan and fish have been removed from the work area. When working
40 below the water surface, account for the buoyancy of the wood material during
41 placement to ensure it is placed at the locations and in conformity with the elevations,
42 dimensions, and orientations shown on the Contract Plans. If dewatering is required to
43 place logs in the ELS it shall be incidental to the construction of the ELS.
44

45 Chain and hardware for log lashing and ballast rock anchors shall meet the
46 manufacturer's specifications for installation. Chain lashing shall be maintained in a
47 tensioned state following installation. Ensure all chain lashings are in contact with the
48 sapwood; no portion of the chain shall be in contact with bark.
49

50 Inlet ELS Type 1, N1-1 and N1-2, shown on the Contract Plans, include constructing a
51 scour apron under and around the periphery of the ELS using Light Loose Riprap.
52 Place riprap to the dimensions and elevations shown on the Contract Plans or as

1 designated by the Engineer. Fill and compact voids in large riprap stones with smaller
2 riprap stones and native excavated spoils in such a way that results in a well graded
3 and compacted mass.
4

5 Placement of the ELS construction materials described in this section shall be included
6 in and be incidental to construction of each ELS and will not be measured and paid for
7 separately.
8

9 **8-05.3(4) ELS Inspection**

10
11 The Engineer will inspect the vertical log installation and placement of each layer of key
12 logs of an ELS including all lashings and ballast rock anchor placement before placing
13 racking logs, slash material and backfill material. The Engineer will also inspect
14 placement of racking logs and slash material. Provide 48 hours advance notice before
15 any required inspection. Make all adjustments in the log placements or other
16 components as designated by the Engineer. The Contractor shall anticipate that
17 adjustment to orientation and arrangement will be needed because of irregularities of
18 natural logs, and that additional payment for such adjustments will not be made. If
19 dewatering is required to allow inspection it shall be considered incidental to the
20 construction of the ELS.
21

22 **8-05.3(5) Wood Material Inspection, Storage, and Handling**

23
24 Coordinate with the Owner and Engineer to have all wood material furnished by the
25 Contractor inspected and approved before its delivery to the project site staging area.
26 All Owner-supplied wood material to be delivered to the project site shall be inspected
27 and approved by the Engineer prior to placement in an ELS. The Contractor may
28 deliver imported wood material to the project site staging area before the Engineer's
29 acceptance of this material; however, any wood material not accepted by the Engineer
30 after delivery because of damage or nonconformity with these Contract Specifications
31 shall be removed from the project site at the Contractor's own expense. Wood material
32 salvaged from onsite clearing activities may be placed in an ELS if it conforms to
33 Section 9-38 of these Special Provisions and is approved by the Engineer.
34

35 Deck/stack separately and store in the Contractor's staging area all wood materials for
36 inspection by the Engineer before placing them in the ELSs. Paint on all key logs the
37 log type identification in a place easily visible for inspection by the Engineer using lead-
38 free, blaze-orange, survey marking paint.
39

40 Take special care when storing and handling all wood materials to protect them from
41 damage. Replace at no expense to the Contracting Agency any wood material
42 damaged during storage and handling activities. The Engineer may reject wood
43 material because of damage or nonconformity with these Special Provisions.
44

45 **8-05.3(6) Branding and Tagging Type R and Type L Key Logs**

46
47 In accordance with the Revised Code of Washington (RCW) 77.85.050, brand and tag
48 each Type R and Type L key log before installing it in the ELS. Place the tag on the
49 smallest end of each Type R and Type L key log. Furnish branding hammers, tags, and
50 fasteners. Tag fasteners shall be stainless steel or galvanized. Submit samples of tags
51 and fasteners to the Engineer for approval before placement. Coordinate with Engineer

1 or Contracting Agency before purchasing tags to establish a log identification
2 numbering system that will be stamped into the tags by the tag supplier.

3
4 **8-05.4 Measurement**

5
6 ELSs will be measured per each installed in accordance with the requirements of the
7 Contract Plans and these Special Provisions. Approximate construction quantities for each
8 ELS are included on the Contract Plans. Actual excavation quantities will vary for each ELS
9 based on the Contractor's excavation and construction means and methods, and the type,
10 location, and elevation of each ELS.

11
12 **8-05.5 Payment**

13
14 Payment will be made in accordance with Section 1-04.1 for the following Bid Items that are
15 included in the Proposal:

- 16
17 "Inlet ELS Type 1, N1-1 and N1-2", per each.
18 "Inlet ELS Type 1, N1-3 and N1-4", per each.
19 "Inlet ELS Type 2," per each
20 "Habitat ELS Type 1", per each.
21 "Habitat ELS Type 2", per each.
22 "Habitat ELS Type 3", per each.
23 "Outlet ELS", per each.

24
25 The unit Contract price for each ELS shall be full pay for all materials, labor, tools,
26 equipment, and supplies necessary for the excavation, water management, work area
27 isolation, fish exclusion, temporary access, assembly, backfilling, and construction of the
28 ELSs as shown in the Contract Plans and described in these Special Provisions. Payment
29 for excavation; handling and placing key logs, racking logs, and slash material; placement
30 and compaction of backfill material; furnishing and installing lashing and associated
31 hardware; furnishing and placing scour apron riprap (Inlet ELS Type 1, N1-1 and N1-2 only);
32 furnishing, constructing and placing ballast rock anchors including chain and associated
33 hardware; and grading and restoration of gravel bars and floodplain areas disturbed by ELS
34 construction, shall be incidental to the unit Contract price for each type of ELS. All costs for
35 furnishing and delivering to the project site all logs, racking, and slash material for use in
36 constructing the ELSs are included in other bid items described herein.

37
38 Payment for handling logs after they have been delivered to the project site and approved
39 by the Engineer, and installing them in the ELSs is included in the ELS bid items described
40 above. Payment for handling slash material after being delivered to the project site and
41 approved by the Engineer, and installing it in the ELSs is included in the ELS bid items
42 described above.

43
44
45 **8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES**

46 Section 8-06 is supplemented with the following

47
48 (*****)

49 This work consists of constructing the Cement Concrete Parking Pad, Bicycle
50 Parking Pad, and Kiosk Pad at the locations and in conformity with the lines,
51 elevations, dimensions and orientations shown on the Contract Plans. Furnish all
52 labor, materials, tools, equipment, and services necessary to complete this work in

1 accordance with the Contract Plans, these Special Provisions, and the Standard
2 Specifications.

3 4 **8-06.4 Measurement**

5 Section 8-06.4 is supplemented with the following

6
7 (*****)

8 Cement Concrete Pads will be measured by the square yard of finished surface

9 10 **8-06.5 Payment**

11 Section 8-06.5 is supplemented with the following

12
13 (*****)

14 "Cement Concrete Pads", per square yard

15
16 (*****)

17 Add the following new section:

18 19 **8-19 SITE FURNISHINGS**

20
21 Furnish all labor, materials, tools, equipment, and services necessary to complete the
22 following for custom site furnishings as specified on the Contract Plans. Contractor to submit
23 shop drawings for each of the following prior to fabrication:

- 24 1. Mound Slide
- 25 2. Bicycle Rack

26
27 Contractor to provide material source submittals for each of the following a minimum of two
28 weeks prior to delivery:

- 29 1. Rock Scramble Boulders
- 30 2. Trail and Campground Edge Rocks

31 32 **8-19.1 Description**

33
34 This Work consists of constructing the site furnishings, including a Mound Slide, Bicycle
35 Racks, the Rock Scramble using 2-3 Man and 4-5 Man Rock Scramble Boulders, and
36 both the Rock Trail Border and the Rock Campground Border using Trail and
37 Campground Edge Rocks, in accordance with the Contract Plans, these Special
38 Provisions, and the Standard Specifications.

39 40 **8-19.2 Materials**

41 42 **8-19.2(A) Rock Scramble Boulders**

- 43
44 A. Boulders used for the Rock Scramble shall be sourced from onsite stockpiles.
45 If onsite stone does not meet specifications, locally sourced stone from
46 Contracting Agency approved sources will be permitted.
- 47 B. Boulders shall be hard, sound and durable material, free from seams, cracks,
48 and other defects tending to destroy its resistance to weather. Streambed
49 Boulders shall be rounded to sub-angular in shape.
- 50 C. River rock will not be mined as a source.
- 51 D. Rock Scramble boulders shall be flagged and approved by the Contracting
52 Agency's Landscape Architect at the source location prior to delivery.

- 1 E. Refer to Contract Plan Drawings for size and number of rock scramble
- 2 boulders.
- 3 F. Locally sourced stone will be upland quarry rock obtained from local approved
- 4 sources.

5

6 **8-19.2(B) Trail and Campground Edge Rocks**

7

- 8 A. Trail and Campground Edge Rocks shall be sourced onsite. If onsite stone
- 9 does not meet specifications, locally sourced stone from Contracting Agency
- 10 approved sources will be permitted.
- 11 B. Edge Rocks shall be hard, sound and durable material, free from seams,
- 12 cracks, and other defects tending to destroy its resistance to weather.
- 13 C. River rock will not be mined as a source.
- 14 D. Refer to Contract Plan Drawings for size and location of Trail and
- 15 Campground Edge Rocks.
- 16 E. Locally sourced stone will be upland quarry rock obtained from local approved
- 17 sources (Western Washington only).

18

19 **8-19.2(C) Mound Slide**

20

21 Mound slide to be Columbia Cascade Model 1643-61-EMB Wide Embankment Slide

22 Chute Stainless Steel, Powder-coated Ocean Teal or other standard color approved by

23 Owner.

24

25 **8-19.2(D) Bicycle Racks**

26

- 27 A. Locally sourced western red cedar boards, kiln dried. All cedar boards to be
- 28 Select knotty with smooth sanded finish graded to NLGA 205b/WCLIB 111-f
- 29 (National Lumber Grades Authority, West Coast Lumber Inspection Bureau).
- 30 B. All cedar boards to be finished as shown in the Contract Plans.
- 31 C. All Fasteners for Corten Steel bike rack to be stainless steel or other material
- 32 that minimizes corrosion of base metals.
- 33 D. Corten steel I-beams
- 34 E. Corten Steel plate

35

36 **8-19.3 Construction Requirements**

37

38 **8-19.3(1) 2-3 Man and 4-5 Rock Scramble Boulders**

39

40 Place rock scramble boulders in locations as shown on the Contract Plans or in

41 locations staked by the Engineer during construction.

42

43 Do not scar or break boulders with equipment. Layout, hone and fit boulders together

44 as shown on contract plans. Ensure that seating rock is embedded in ground to the

45 depth shown on the Contract Plans, and that gaps and boulder heights are set as

46 shown on the Contract plans.

47

48 Verify all boulder placement with the Engineer prior to installation.

49

50 **8-19.3(2) Trail and Campground Edge Rocks**

51

- 1 Place edge rocks in locations as shown on the Contract Plans or in location staked by
2 the Engineer during construction.
3
4 Set trail edge rocks to the depth shown on contract documents. Set campground edge
5 rocks as shown on the Contract Plans.
6
7 Verify all rock placement with the Engineer prior to installation.
8

9 **8-19.3(3) Mound Slide**

10 Mound slide installation and location to follow Contract plans.
11
12

13 **8-19.3(4) Bicycle Rack**

- 14
15 a. Bicycle rack quantities and mounting types shown on the Contract Plans
16 b. Cedar board quantities and dimensions shown on the Contract Plans.
17 c. Weld corners and seams continuously. Use materials and methods that minimize
18 distortion and develop strength and corrosion resistance of base metals. At
19 exposed connections, finish welds and surfaces smooth with contour of welded
20 surface matching those adjacent.
21 d. Place bicycle racks in locations as shown on the Contract Plans or in locations
22 staked by the Engineer during construction.
23 e. Maintenance - All Corten components must be kept free of debris and pooling
24 water to avoid degradation.
25 f. Site prep for concrete-embed.
26

27 **8-19.4 Measurement**

28
29 Measurement for 2-3 Man Rock Scramble Boulders and 4-5 Man Rock Scramble
30 Boulders will be per each.

31 Measurement for Trail and Campground Edge Rocks will be per ton.

32 Measurement for Mound Slide will be per each.

33 Measurement for Bicycle Rack will be per each.
34

35 **8-19.5 Payment**

36
37 Payment will be made in accordance with Section 1-04.1 for the following Bid Items that are
38 included in the Proposal:
39

40 "2-3 Man Rock Scramble Boulder," per each

41 "4-5 Man Rock Scramble Boulder," per each

42 "Trail and Campground Edge Rocks," per ton
43

44 The unit Contract price for 2-3 Man Rock Scramble Boulder, 4-5 Man Rock Scramble
45 Boulder, and Trail and Camp edge rocks shall be full pay for all Work to select rocks in
46 coordination with the Contracting Agency, delivery, placement in accordance with the
47 Contract Plans, and adjustment as directed by the Engineer.
48

49 "Mound Slide," per each

50 "Bicycle Rack," per each
51

- 1 The unit Contract price for each furnishing piece shall be full pay for furnishing all labor and
- 2 materials to complete construction of each furniture piece as shown on the Contract Plans
- 3 and described in these Special Provisions.
- 4

**DIVISION 9
MATERIALS**

9-01 CEMENT

Section 9-01 is supplemented with the following:

(*****)

Concrete cement for concrete curb, Mound Slide Footings, Kiosk Concrete Pad, Sidewalk, Parking Pad, and Bicycle Rack Concrete Pads will follow Section 9-01.2(1) Portland Cement.

9-03.9(3) Crushed Surfacing

Section 9-03.9(3) is supplemented with the following:

(*****)

Crushed surfacing top course for all 6' trails, ADA surfacing, and 10' gravel vehicular paths will meet the following gradation:

Sieve	Percent Passing
3/8"	80-100
#4	10-30
#8	0-10
#16	0-5

Crushed surfacing top course for all asphalt trails, concrete sidewalks, Concrete Parking Pad, Kiosk Concrete Pad and Bicycle Rack Concrete Pad will follow the standard specification for 3/4"-0" crushed surfacing.

9-13 RIPRAP, QUARRY SPALLS, SLOPE PROTECTION, AND ROCK FOR EROSION AND SCOUR PROTECTION AND ROCK WALLS

9-13.7 Rock for Rock Wall

9-13.7(1) Rock for Rock Walls and Chinking Material

Section 9-13.7(1) is supplemented with the following:

(*****)

The Contractor is responsible for providing ballast rocks. Ballast Rocks shall meet the requirements of this section. Ballast Rocks shall be drilled through their approximate centroid to allow chain and hardware to be secured to rocks.

Ballast Rock weights are approximately as follows:

Rock Type	Rock Weight (lbs.)
Ballast Rock	3500-4500

Contractor shall ensure that individual Ballast Rock weights meet the range indicated in table and that the total ballast weight indicated per each ELS structure type is met per the layering plan. Contractor is responsible for providing rock ballast weight delivery receipts to the Contracting Agency and for removing all broken and unwanted rock from the site once the project is completed. Broken ballast rock pieces shall not be incorporated into any ELSs unless directed by the Engineer or Contracting Agency.

1
2 The Contractor shall notify the Engineer and the Contracting Agency a minimum of 48
3 hours prior to the start of each constructing ELS structure to inspect rocks on-site prior
4 to start of construction.

5 6 **9-14 EROSION CONTROL AND ROADSIDE PLANTING**

7 8 **9-14.3 Seed**

9 Section 9-14.3 is replaced with the following:

10
11 (*****)

12 Seeding shall be performed in accordance with section 8.02 Roadside Restoration

13
14 Furnish seed meeting the following requirements:

- 15
16 a. Label - Deliver all seed in standard, sealed containers. Label each container with the
17 following:
- 18 • The kind and variety of each seed of 3 percent or more in a mixture, by weight. Be
19 sure that seed mix labels include the words "mixture" or "mixed seed" when the
20 seed is a mixture
 - 21 • The country or state where the seed is grown
 - 22 • The lot number or other lot identification
 - 23 • The total percentage, by weight, of other crop seed
 - 24 • The total percentage, by weight, of weed seed
 - 25 • The total percentage, by weight, of inert matter
 - 26 • Statement of "No Noxious (weed) Found"
 - 27 • For each named seed:
 - 28 • Percentage of germination
 - 29 • Percentage of hard (non-living) seed, if more than 1 percent
 - 30 • Percent of PLS for each kind of seed
 - 31 • Percent and kind of other crop
 - 32 • Month and year of seed test
 - 33 • Net weight of contents
 - 34 • Name and address of seed labeler or seller
 - 35 • Origin for each seed (state or foreign country)
 - 36 • If seed inoculant is used, the claimed date that inoculant effectiveness ends
 - 37 • For treated seeds (if any):
 - 38 • Statement that the seeds have been treated
 - 39 • Name of all chemical used in the treatment
 - 40 • Description process used in the treatment
 - 41 • Warning statement for all residual chemicals used
 - 42 • Net weight of each container
 - 43 • For seeds listed as native, date and location of collection of source (first
44 generation) seed
 - 45 • For native seeds specified to be collected for direct use on a project, label
46 containers with the date and location of collection sites for each seed species
- 47 b. Quality - Furnish seed meeting the following requirements:
- 48 • The seed and labeling complies with Washington Seed Law and Federal Seed Act.
 - 49 • The seed has been tested within 18 months of the planting date.

- 1 • The seed is not sprouted, moldy, or showing evidence of having been wet or
- 2 otherwise damaged.
- 3 c. Pure Live Seed - Obtain the amount of seed to apply by using the purity and
- 4 germination percentages from the label on actual bags of seed to be used on the
- 5 Project.
- 6 To calculate the amount of seed to be applied:
- 7 • Obtain the PLS factor - Multiply the seed label germination percentage times the
- 8 seed label purity percentage.
- 9 • Divide the specified PLS rate by the PLS factor.
- 10 Example: A PLS seeding rate of 10 pounds per acre is specified. The seed label
- 11 shows a purity of 80 percent and germination is 90 percent. After converting
- 12 percentages to decimals, 0.80 x 0.90 equals a factor of 0.72. The specified PLS
- 13 rate, 10 pounds per acre, divided by the factor of 0.72 equals 13.88. In order to
- 14 meet a PLS seeding rate of 10 pounds per acre, about 14 pounds of seed needs to
- 15 be applied per acre. For a seed mix, make this calculation for every seed to obtain
- 16 the total amount to be applied.
- 17 d. Inspection - Each lot of seed is subject to inspection upon delivery to the Project. Seed
- 18 that is not labeled or that does not conform to the Specifications will be rejected and
- 19 shall be replaced at no additional cost to the Agency.
- 20 e. Mixes - Furnish seed mixes that meet the labeling, quality and inspection requirements
- 21 stated above. Submit all other proposed seed or seed mixes for consideration and
- 22 receive written approval before seeding Work begins. Replace rejected seed before
- 23 planting.
- 24 f. Availability - Provide a list of seed sources for all specified seeds within 60 Calendar
- 25 Days after execution of the Contract. Verify that all specified seed has been located and
- 26 will be available for use on the Project.

27
28 All disturbed areas beyond the channels and 100-foot channel buffer will be seeded and
29 fertilized as shown on the Contract Plans. Seed Mixes are composed of the seed species
30 listed in the tables below. Seed of the following composition, proportion, rate, and quality
31 shall be applied on the following types of areas:

32
33 **Park Seed Mix**

34 Seed of the following composition, proportion, and quality shall be applied at a rate of
35 300 pounds per acre on areas requiring seeding:
36

Kind and Variety of Seed in Mixture		Percent Species Composition	PLS Pounds per Acre
Common yarrow	(<i>Achillea millefolium</i>)	5%	2.3
Quatro tetraploid sheep fescue	(<i>Festuca ovina</i> 'Quatro')	35%	85
Eureka II hard fescue	(<i>Festuca trachyphylla</i> 'Eureka II')	30%	69
Banfield perennial ryegrass	(<i>Lolium perenne</i> 'Banfield')	25%	134
Microclover	(<i>Trifolium repens</i> var Pipolina ssp. Microclover)	5%	9.1
Total		100%	300

37
38 **Erosion Control Meadow Seed Mix**

39 Seed of the following composition, proportion, and quality shall be applied at a rate of
40 39.8 pounds per acre on areas requiring seeding:
41

Kind and Variety of Seed in Mixture		Percent Species Composition	PLS Pounds per Acre
Common yarrow	<i>(Achillea millefolium)</i>	2.5%	0.02
Arrowleaf balsamroot	<i>(Balsamorhiza sagittata)</i>	3.0%	1.3
California oatgrass	<i>(Danthonia californica)</i>	10.0%	6.5
Tufted hairgrass	<i>(Deschampsia cespitosa)</i>	10.0%	0.26
Squirreltail	<i>(Elymus elymoides)</i>	10.0%	2.0
Snake River wheatgrass	<i>(Elymus wawawainesis)</i>	10.0%	1.5
Sulfer-flower buckwheat	<i>(Eriogonum umbellatum)</i>	2.0%	0.25
Idaho fescue	<i>(Festuca idahoensis)</i>	10.0%	2.6
Meadow barley	<i>(Hordeum brachyantherum)</i>	10.0%	2.6
Poco barley	<i>(Hordeum vulgare var. poco)</i>	10.0%	21
Prairie junegrass	<i>(Koeleria macrantha)</i>	5.0%	0.1
Big bluegrass	<i>(Poa secunda (ampla))</i>	2.5%	0.1
Sandberg bluegrass	<i>(Poa secunda (sandbergii))</i>	2.0%	0.05
Bluebunch wheatgrass	<i>(Pseudoroegneria spicata)</i>	8.0%	1.5
Canada goldenrod	<i>(Solidago canadensis)</i>	5.0%	0.03
Total		100%	39.8

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Erosion Control Riparian Shade Seed Mix

Seed of the following composition, proportion, and quality shall be applied at a rate of 39.5 pounds per acre on areas requiring seeding:

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

Kind and Variety of Seed in Mixture		Percent Species Composition	PLS Pounds per Acre
Menzies' larkspur	<i>Delphinium menziesii</i>	2%	1.4
Tufted hairgrass	<i>Deschampsia cespitosa</i>	20.5%	0.5
Slender hairgrass	<i>Deschampsia elongata</i>	26%	0.8
blue wildrye	<i>Elymus glaucus</i>	25%	12.8
Largeleaf avens	<i>Geum macrophyllum</i>	3%	0.5
Meadow barley	<i>Hordeum brachyantherum</i>	25%	19.0
Woodland buttercup	<i>Ranunculus uncinatus</i>	0.5%	4.4
Total		100%	39.5

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9-14.4 Fertilizer

This section is replaced with the following:

(*****)

Furnish 1,500 pounds per acre granular slow release all natural organic fertilizer with no chemical content, consisting of a fungal and bacterial biomass. The nutrient source shall be derived from fermented plant material along with nutrients such as cottonseed meal, soybean meal and trace elements all under constant sterile conditions with a minimum Nutrient (N-PK) content of 7-2-1. Furnish fertilizer with organic matter greater than 85 percent, carbon/nitrogen ratio of 5:1, nitrogen (total) greater than 7 percent. Furnish fertilizer containing a maximum of water-soluble nitrogen of 0.5 percent, phosphorus (P205) 2 -4 percent, potassium (K20) 1percent, and a pH level of 6.5 -7.5. Nutrients shall be derived from fermented plant material and not contain any urea, animal waste, animal by-products or sewage material.

1 Biosol is a manufacturer that provides an equivalent product as specified.

2
3 **9-14.5 Mulch and Amendments**

4
5 (*****)

6 Add the following new section:

7
8 **9-14.5(11) Engineered Wood Fiber Mulch**

9 Wood fiber mulch shall be Fibar Playground Surface, WOODCARPET from Zeager
10 Bros. or equivalent as approved by the Engineer, and installed as recommended by
11 manufacturer to depth shown in the Contract Plans.

12
13 Engineered wood fiber mulch shall contain 100 percent pre-consumer recovered wood.
14 Mulch shall be tested according to ASTM methods to ensure compliance with ADA,
15 ASTM, CPSC, and CSA standards for playground surfacing.

16
17 Wood fiber mulch shall be locally sourced from Western Washington.

18
19 **9-30 WATER DISTRIBUTION MATERIALS**

20
21 **9-30.1 Pipe**

22
23 (*****)

24 Section 9-30.1 is supplemented with the following:

25
26 (*****)

27 **9-30.1(7)1 1/2" Polyethylene Water Service**

28
29 PE pressure pipe for water services shall meet the requirements of ANSI/AWWA C901. Pipe
30 materials shall be high-density polyethylene PE4710. Pipe diameter shall be iron pipe size
31 per ANSI/AWWA C901. Pipe pressure class shall be as listed in ANSI/AWWA C901 for DR 7
32 PE4710 material (333 psi).

33
34 **9-33 CONSTRUCTION GEOSYNTHETIC**

35
36 **9-33.1 Geosynthetic Material Requirements**

37 Section 9-33.1 is supplemented with the following:

38
39 (*****)

40 High Visibility Construction Geotextile shall have orange color and comply with Section 9-
41 33.2(1) Table 2 – Class A requirements of the Standard Specifications. High Visibility
42 Construction Geotextile placed over existing soil prior to the placement of embankment fill
43 shall be High Visibility Fencing conforming to Section 9-14.6(8) of the Standard
44 Specifications.

45
46 (*****)

47 Construction Geotextile for Soil Stabilization shall comply with Section 9-33.2(1) Table 3,
48 with the following modifications to water permittivity, seam breaking strength, and tensile
49 strength:

Geotextile Property	ASTM Test Method	Geotextile Property Requirements
Water permittivity	D4491	0.9 sec ⁻¹ (minimum)

Factory sewn seam	D4884	2400 lbs/ft (minimum)
Tensile Strength @ 2% strain	D4595	600 lbs/ft (minimum)
Tensile Strength @ 5% strain	D4595	1620 lbs/ft (minimum)

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(*****)

Add the following new section:

9-37 CHAIN AND WIRE ROPE

9-37.1 Description

Chain and connecting hardware identified in the Contract Plans and Section 8-05 of these Special Provisions will be supplied by the Contractor. Chain shall be installed per the Contract Plans.

(*****)

Add the following new section:

9-38 WOOD MATERIAL FOR ENGINEERED LOG STRUCTURES

9-38.1 Description

9-38.1(1) Type R_Key Logs (Logs with Rootwads)

Type R_ Key Logs shall be derived from coniferous trees such as Western Red Cedar or Douglas Fir. Western Hemlock or Sitka Spruce logs may also be used subject to approval by the Engineer, and may only be installed along the bottom layer of each Engineered Log Structure (ELS). Type R_ Key Logs shall consist of a trunk section with a natural, large, full, intact, and complex rootwad structure containing multiple branches (roots) extending outward around the entire circumference of the rootwad structure. If in the opinion of the Engineer upon inspection that a Type R_ Key Log has a sparse or otherwise compromised root structure, said log will not be accepted by the Engineer as a Type R_ Key Log, but it may be acceptable as a Type L_ Key Log (Log without Rootwad) upon approval by the Engineer. Acceptable Type R_ Key Logs shall be clean of excessive soil, of sound quality, and free of cracks, checks, splits, insects, rot, or decay. No more than 50%, by surface area, of the bark shall be missing from Type R_ Key Logs at their time of placement.

Type R_ Key Logs shall conform to the size requirements shown on the Contract Plans where the minimum diameter specified refers to the diameter of the trunk section measured within 4 feet from the base (not the end or bottom) of the rootwad structure. Type R_ Key Logs shall have a minimum diameter from tip-to-tip of the multiple branch root structure of 4 to 6 feet for an 18-inch minimum diameter log, and 6 to 8 feet for a 24-inch minimum diameter log. The length specified on the Contract Plans for Type R_ Key Logs shall be measured from the end (or bottom) of the root structure to the other cut end (tip) of the log. The minimum tip diameter of the log shall not be less than one-half the actual measured diameter of the trunk section measured within 4 feet from the base (not the end or bottom) of the rootwad structure.

9-38.1(2) Type L_Key Logs (Logs without Rootwads)

1 Type L_ Key Logs shall be derived from coniferous trees such as Western Red Cedar
2 or Douglas Fir. Western Hemlock or Sitka Spruce logs may also be used subject to
3 approval by the Engineer and may only be installed along the bottom layer of each
4 Habitat ELS. Bigleaf maple logs from site clearing activities may also be used for Type
5 L1 logs placed in the bottom layer of Habitat ELS structures located downstream of
6 Bridge #2 and upstream of Bridge #1, provided other log size and quality specifications
7 are met and subject to the approval by the Engineer. Acceptable Type L_ Key Logs
8 shall be of sound quality and free of cracks, checks, splits, insects, rot, and decay. No
9 more than 50%, by surface area, of the bark shall be missing from Type L_ Key Logs at
10 their time of placement.

11
12 Type L_ Key Logs shall conform to the size requirements shown on the Contract Plans
13 where the specified minimum diameter refers to the diameter measured within 4 feet of
14 the largest cut end (butt) of the log. The length specified on the Contract Plans for Type
15 L_ Key Logs shall be measured from the smaller cut end (tip) of the log to the butt of
16 the log. The minimum tip diameter of the log shall not be less than one-half the actual
17 measured diameter within 4 feet of the butt of the log.

18 19 **9-38.1(3) Racking Logs**

20
21 Racking Logs may be from a mix of coniferous and deciduous trees with or without
22 rootwads. A minimum of 50% of Racking Logs shall be from coniferous trees. Racking
23 Logs shall be of sound quality and free of cracks, checks, splits, insects, rot, and decay.
24 No more than 25%, by surface area, of the bark shall be missing from Racking Logs at
25 their time of placement.

26
27 Racking Logs shall be 15 to 20 feet in length, and their length shall be measured as
28 described above for Type R_ and Type L_ Key Logs for Racking Logs with and without
29 rootwads, respectively. Diameters of Racking Logs shall vary from 4 to 16 inches as
30 measured at the largest cut end. Racking Logs placed in ELSs shall have the following
31 size class percentages:

- 32
33 60% - 8 to 12 inches in diameter
34 40% - 4 to 8 inches in diameter

35 36 **9-38.1(4) Slash Material**

37
38 Slash Material shall be comprised of immature trees, saplings, roots, limbs, branches,
39 brush and treetops generated during land clearing activities. Slash Material may be of
40 various sizes less than 4 inches in diameter and shall be derived primarily from
41 coniferous tree species; slash derived from deciduous tree species may be allowed for
42 up to 50% of the slash material for all ELS structures, except Inlet ELS Type 1, N1-1
43 and N1-2, subject to the approval of the Engineer and if all coniferous slash has already
44 been used for other ELS structures. Slash Materials shall not contain cobbles nor
45 invasive species. Slash Material passing a 4 inch sieve shall not exceed 10% of the
46 total slash material by volume and shall not contain silty or clayey material that could
47 cause turbidity when placed in water.

1 **APPENDICES (JANUARY 2, 2012)**
2

3 The following appendices are attached and made a part of this contract:
4

5 APPENDIX A: Standard Plans

6 APPENDIX B: Wage Rates – Washington State Prevailing Wage Rates

7 APPENDIX C: Construction Contract and Contract Bond – Informational Only

8 APPENDIX D: Proposal Forms – Informational Only

9 APPENDIX E: Permits

10 APPENDIX F: Stormwater Site Plan and Construction Stormwater Pollution
11 Prevention Plan (CSWPPP)

12 APPENDIX G: Cultural Resources Monitoring Plan

13 APPENDIX H Geotechnical Analysis Results

14 APPENDIX I: Skagit County Inspection Forms

15 APPENDIX J: Prefabricated Bridge Plans

16 APPENDIX K: Vicinity Map and Contract Plans

17 APPENDIX L: Picnic Shelter Special Provisions

APPENDIX A
Standard Plans

Stormwater Management Manual for Western Washington



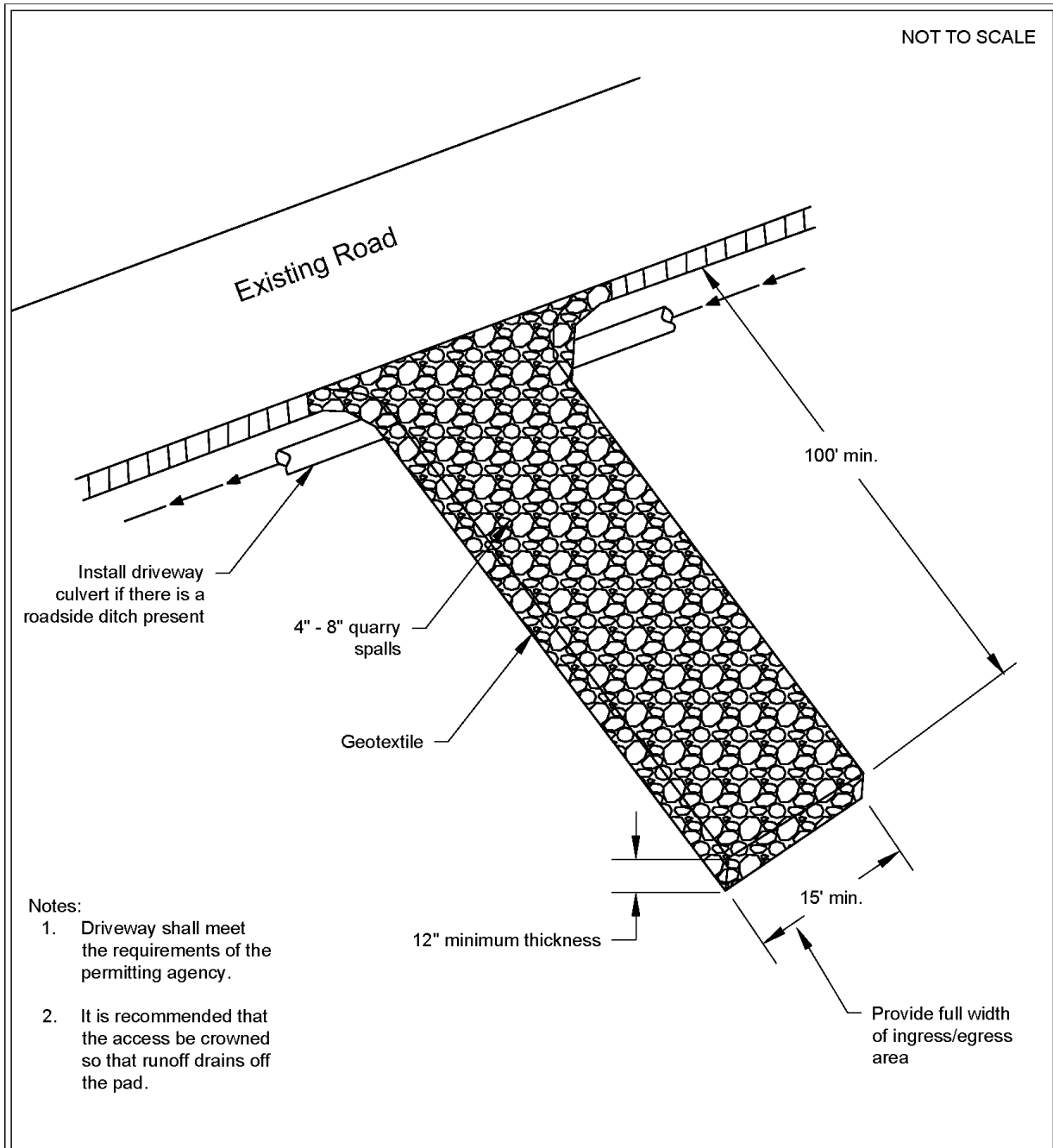
July 2019



DEPARTMENT OF
ECOLOGY
State of Washington

Publication Number 19-10-021

Figure II-3.1: Stabilized Construction Access



Stabilized Construction Access

Revised June 2018

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Figure II-3.3: Channel Installation

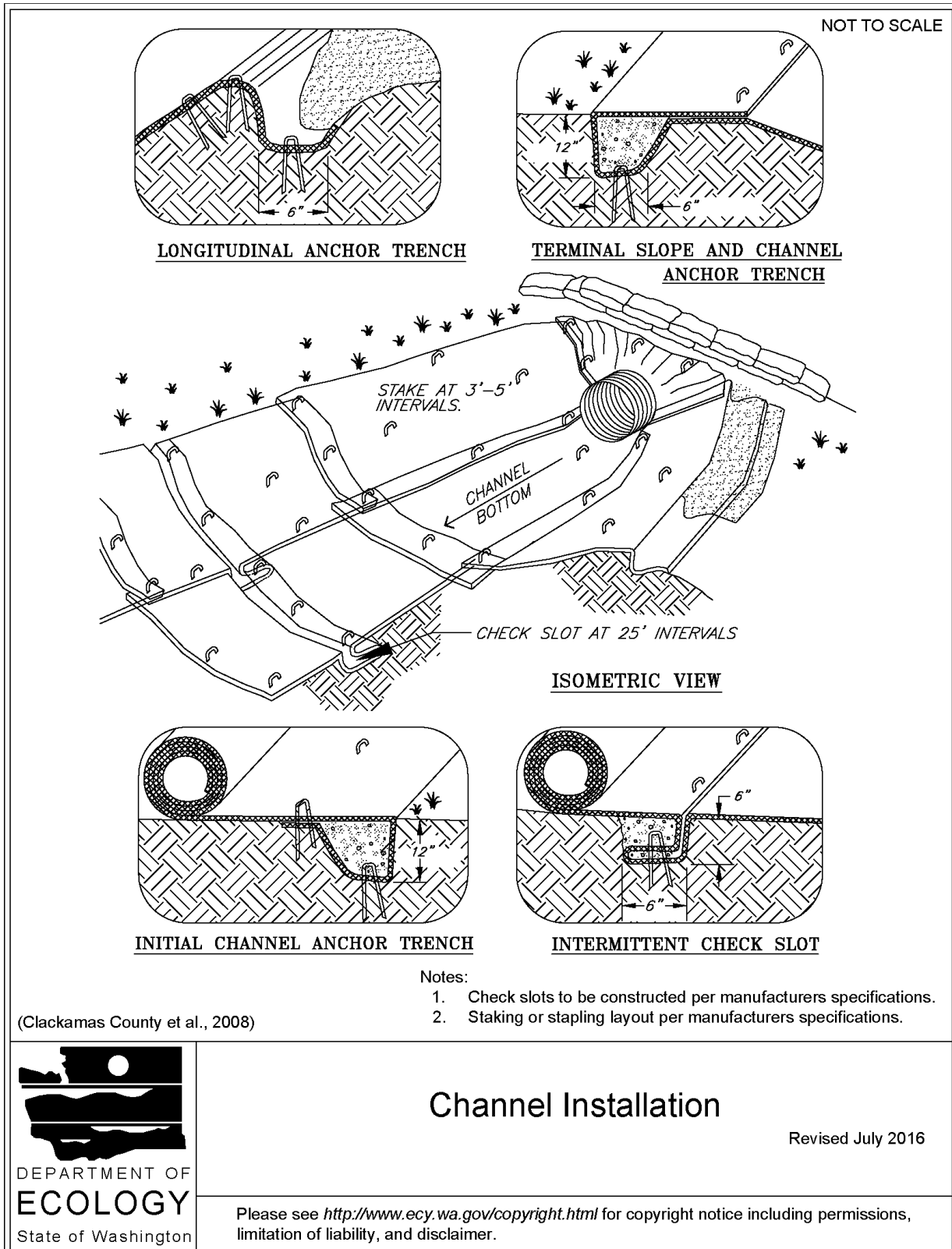
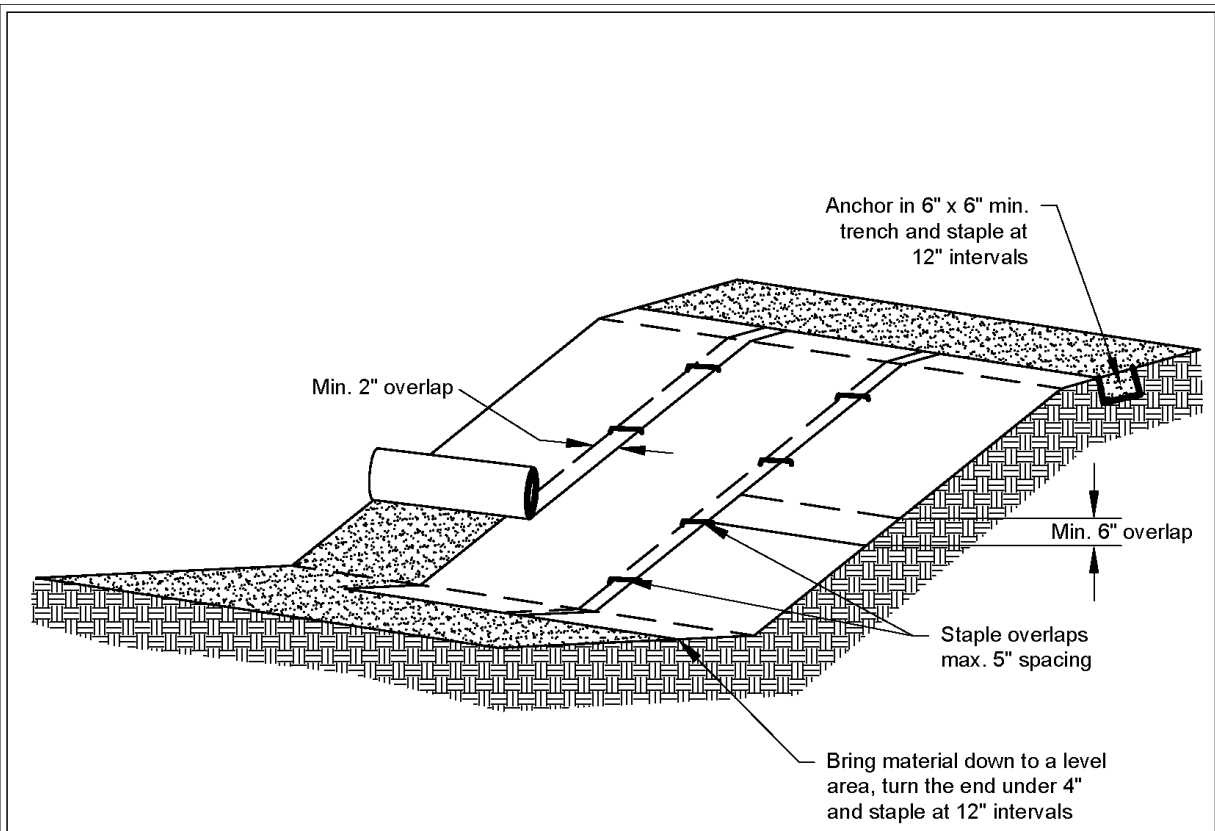


Figure II-3.4: Slope Installation



Notes:

1. Slope surface shall be smooth before placement for proper soil contact.
2. Stapling pattern as per manufacturer's recommendations.
3. Do not stretch blankets/matting tight - allow the rolls to mold to any irregularities.
4. For slopes less than 3H:1V, rolls may be placed in horizontal strips.
5. If there is a berm at the top of the slope, anchor upslope of the berm.
6. Lime, fertilize, and seed before installation. Planting of shrubs, trees, etc. should occur after installation.

NOT TO SCALE



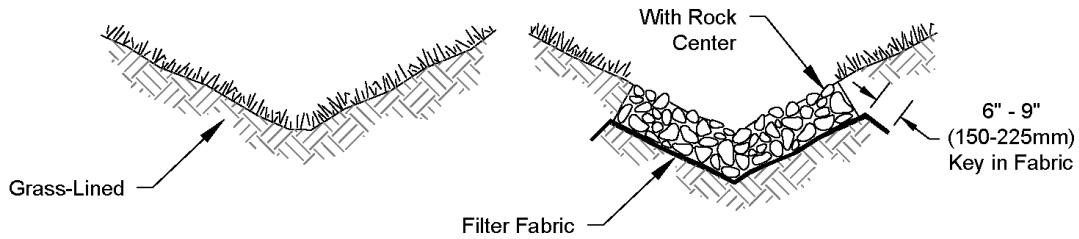
Slope Installation

Revised June 2016

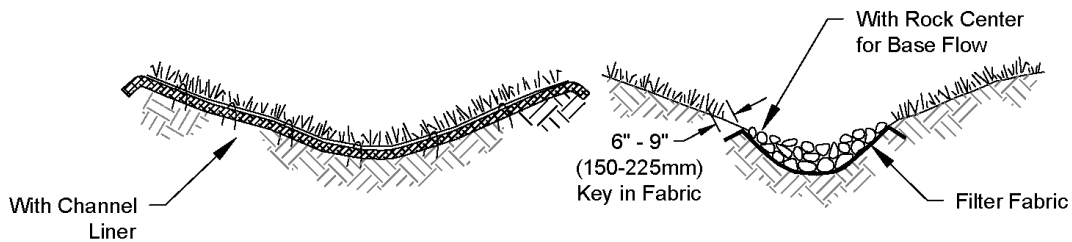
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Figure II-3.10: Typical Grass-Lined Channels

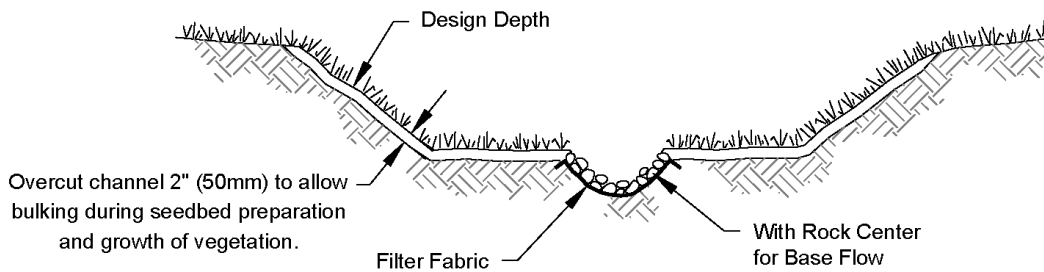
Typical V-Shaped Channel Cross-Section



Typical Parabolic Channel Cross-Section



Typical Trapezoidal Channel Cross-Section



NOT TO SCALE

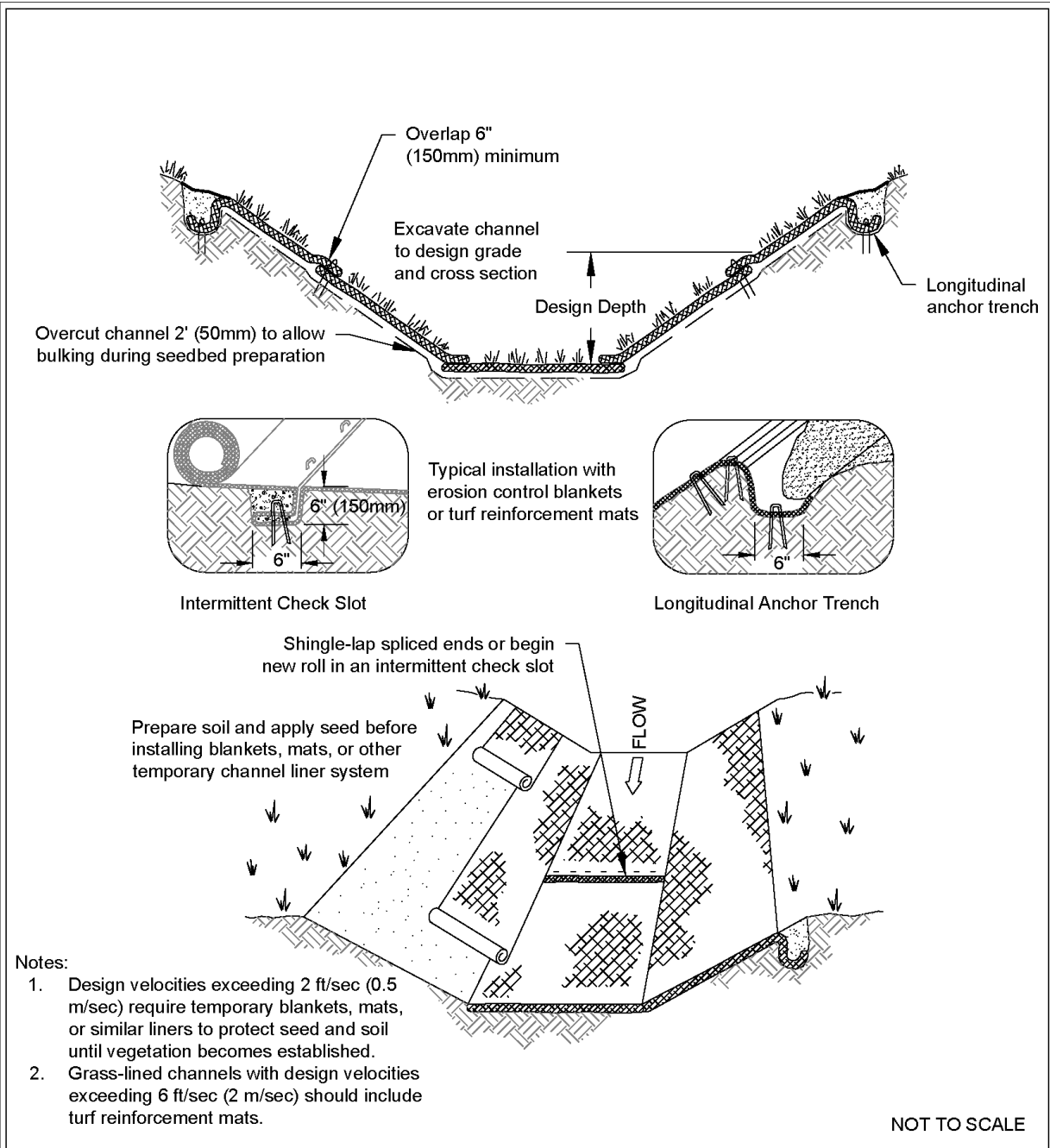


Typical Grass-Lined Channels

Revised June 2016

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Figure II-3.11: Temporary Channel Liners

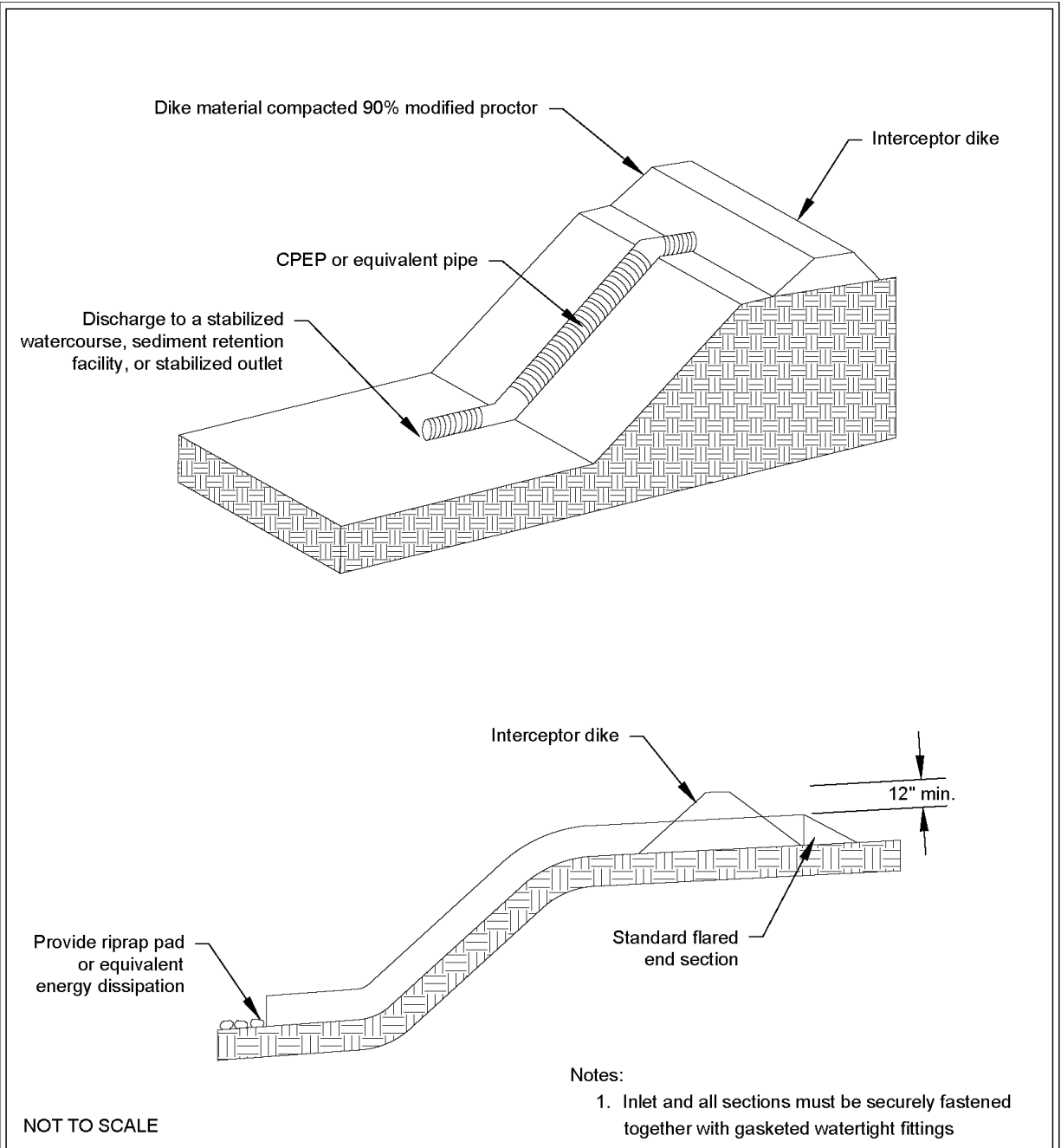


Temporary Channel Liners

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Figure II-3.13: Pipe Slope Drain



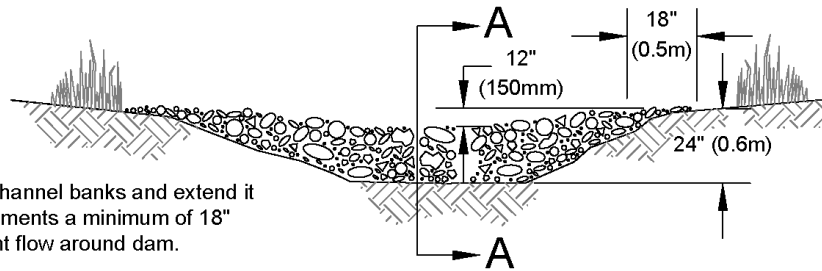
Pipe Slope Drain

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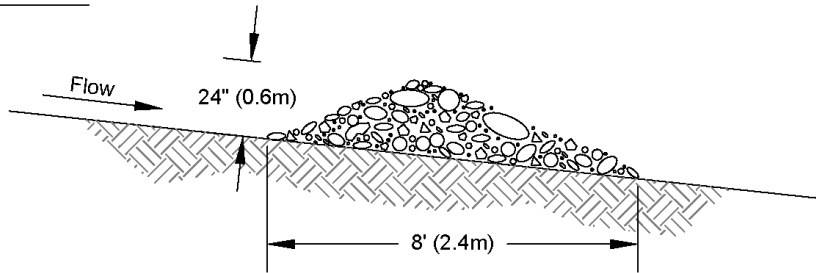
Figure II-3.16: Rock Check Dam

View Looking Upstream

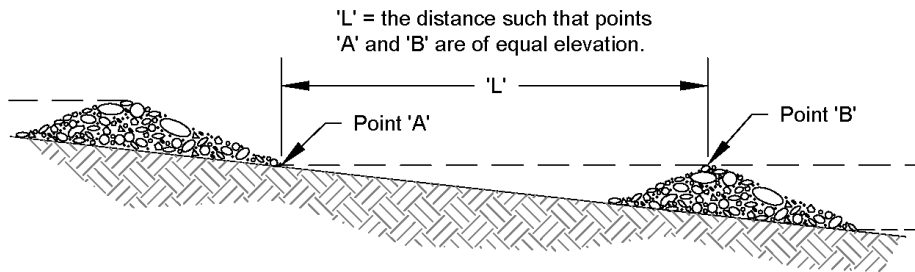


Note:
Key stone into channel banks and extend it beyond the abutments a minimum of 18" (0.5m) to prevent flow around dam.

Section A-A



Spacing Between Check Dams



NOT TO SCALE



Rock Check Dam

Revised June 2016

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Figure II-3.17: Block and Gravel Filter

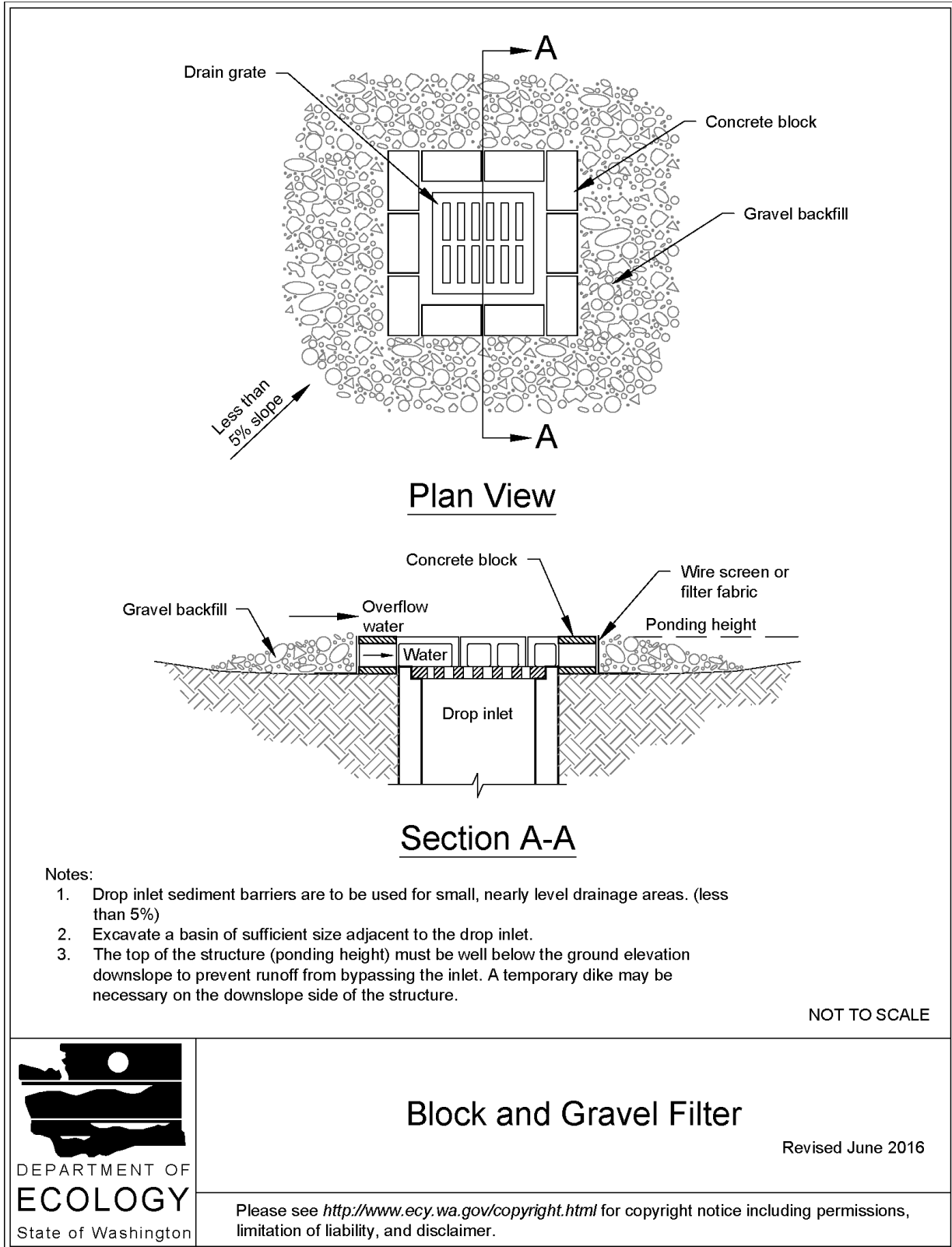
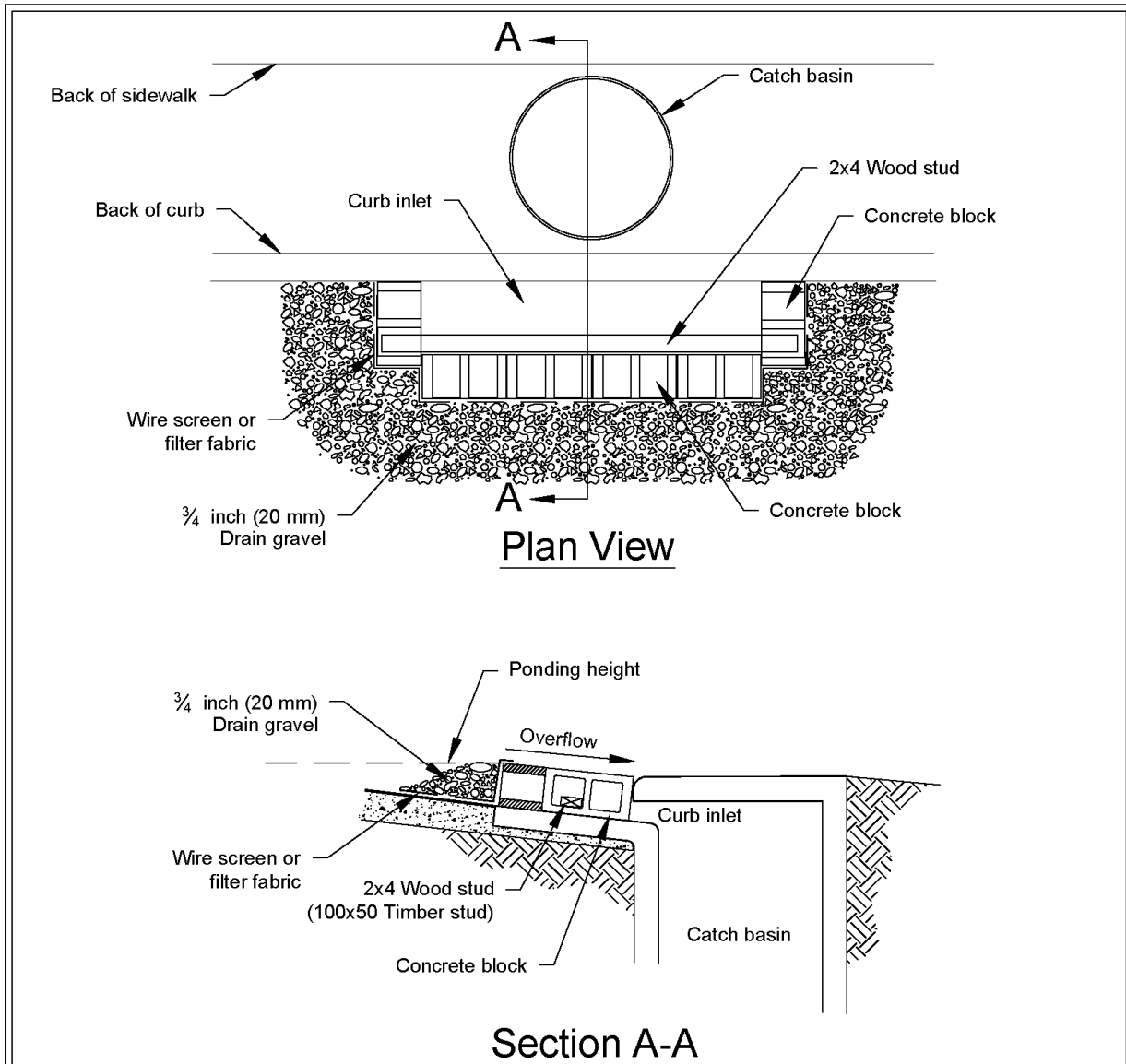


Figure II-3.18: Block and Gravel Curb Inlet Protection



Notes:

1. Use block and gravel type sediment barrier when curb inlet is located in gently sloping street segment, where water can pond and allow sediment to separate from runoff.
2. Barrier shall allow for overflow from severe storm event.
3. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

NOT TO SCALE

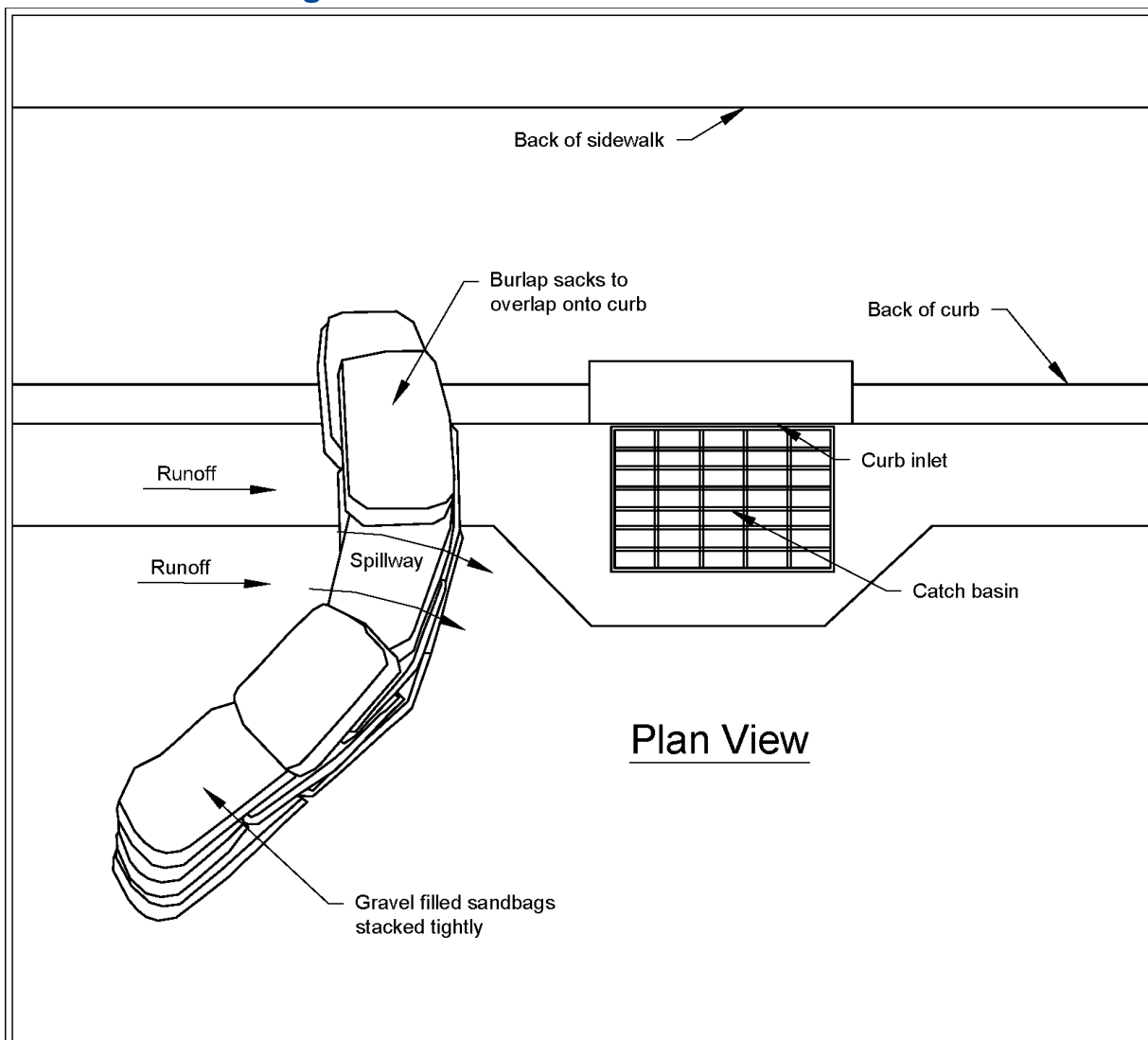


Block and Gravel Curb Inlet Protection

Revised June 2016

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Figure II-3.19: Curb and Gutter Barrier



Plan View

Notes:

1. Place curb type sediment barriers on gently sloping street segments, where water can pond and allow sediment to separate from runoff.
2. Sandbags of either burlap or woven 'geotextile' fabric, are filled with gravel, layered and packed tightly.
3. Leave a one sandbag gap in the top row to provide a spillway for overflow.
4. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

NOT TO SCALE

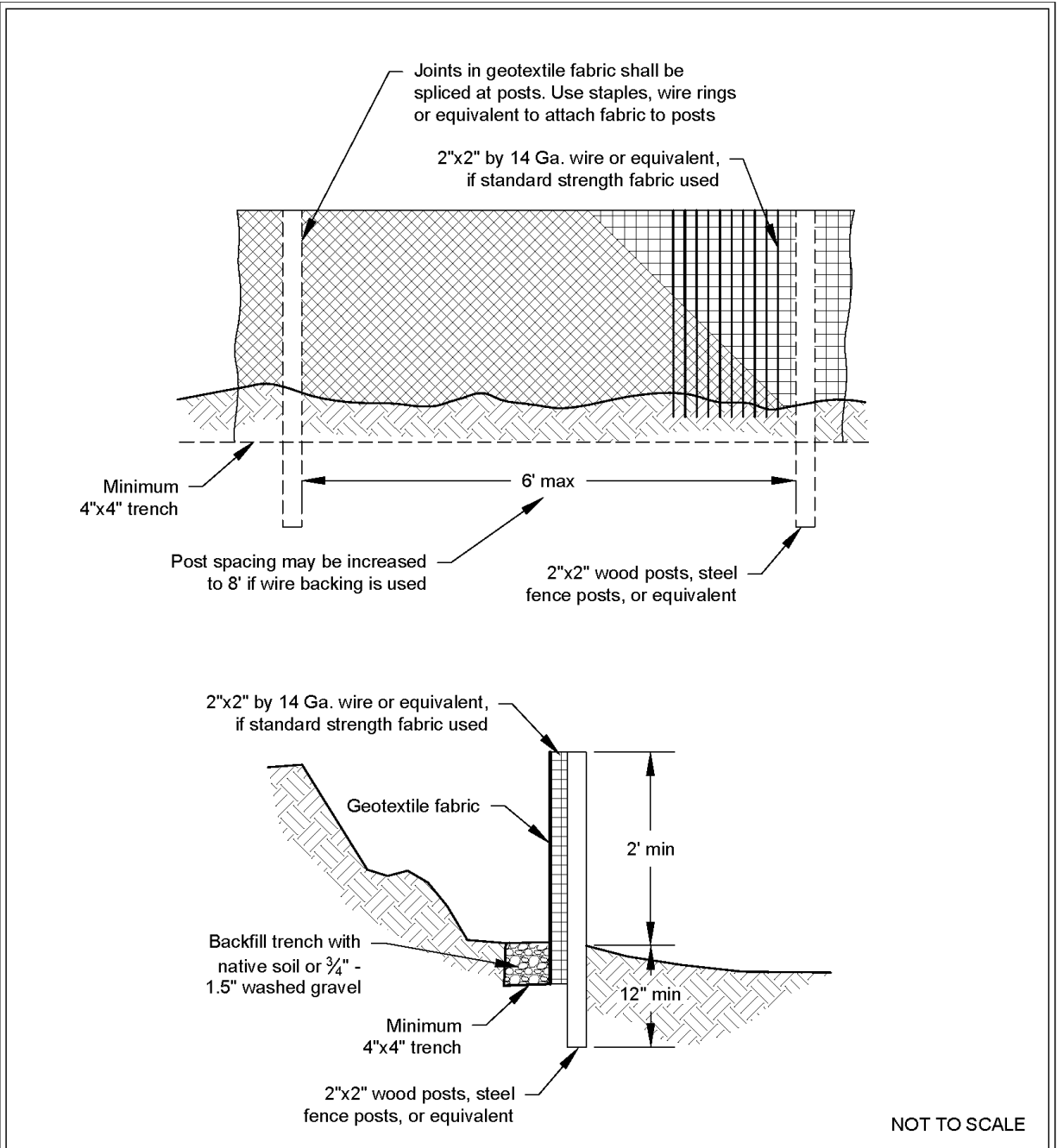


Curb and Gutter Barrier

Revised June 2016

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Figure II-3.22: Silt Fence



Silt Fence

Revised July 2017

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Figure II-3.23: Silt Fence Installation by Slicing Method

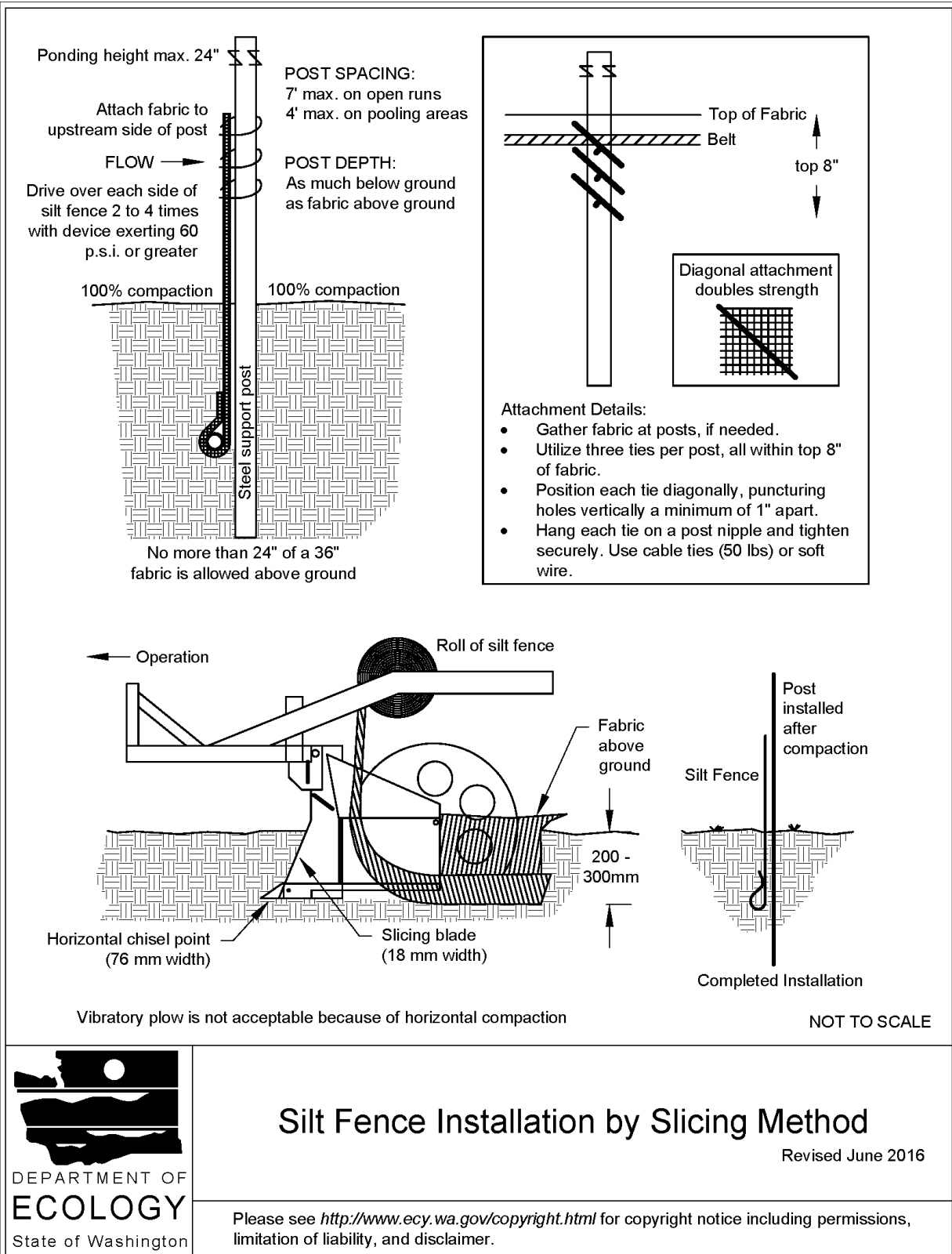
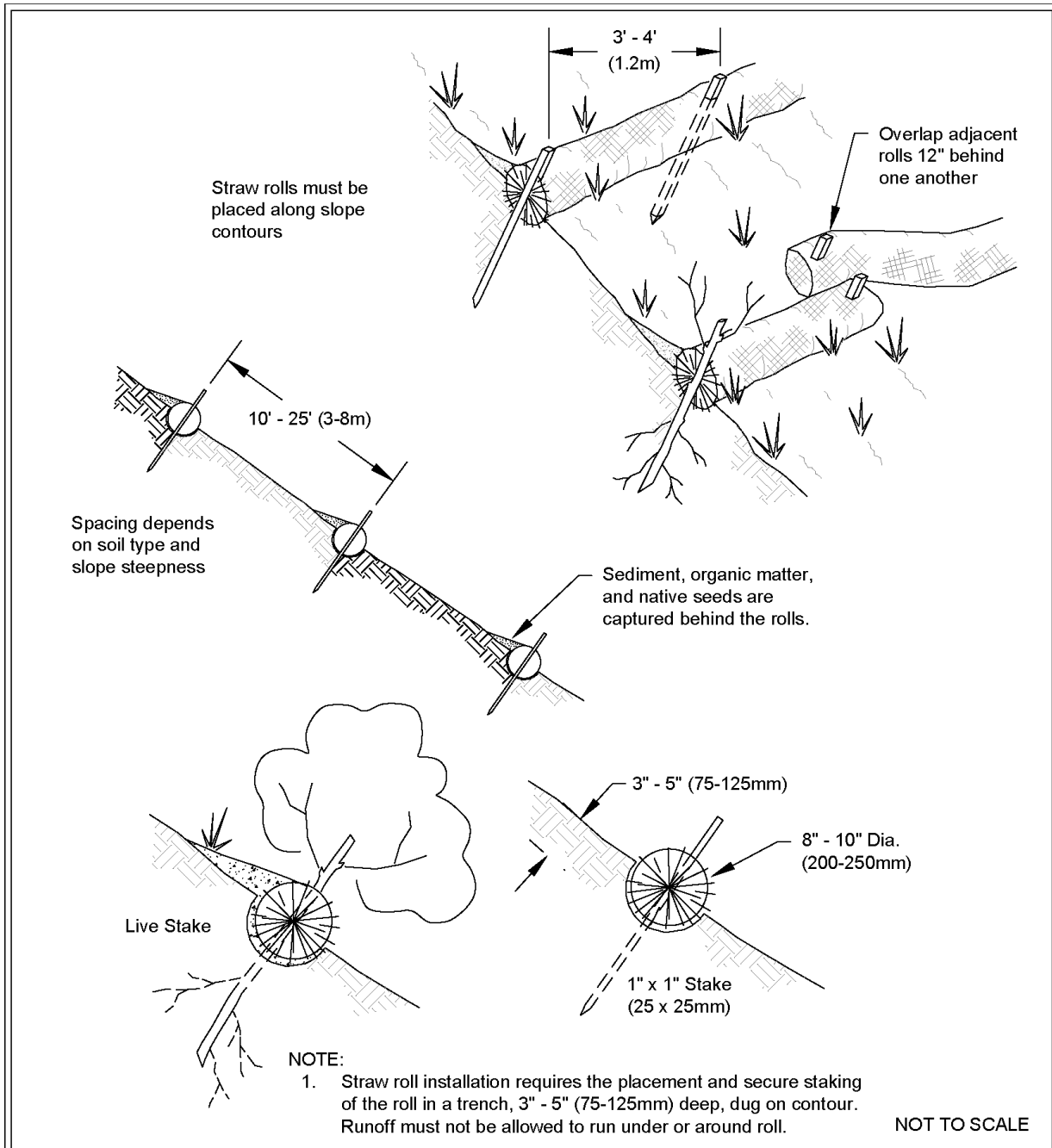


Figure II-3.24: Wattles



Wattles

Revised December 2016

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A B C D E F G H I J K L M



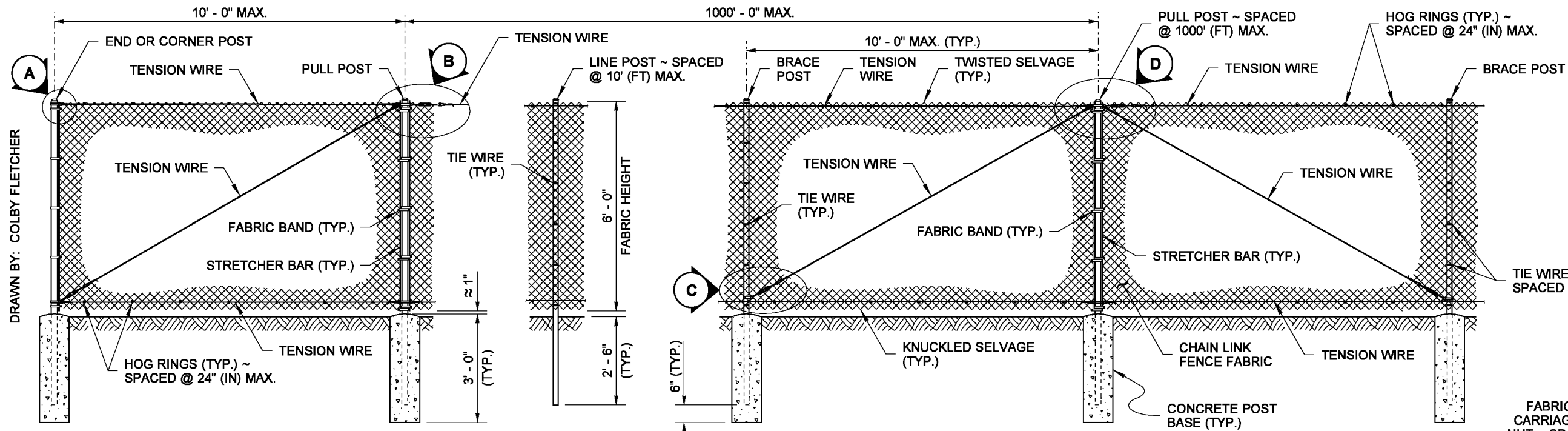
**Washington State
Department of Transportation**

Standard Plans

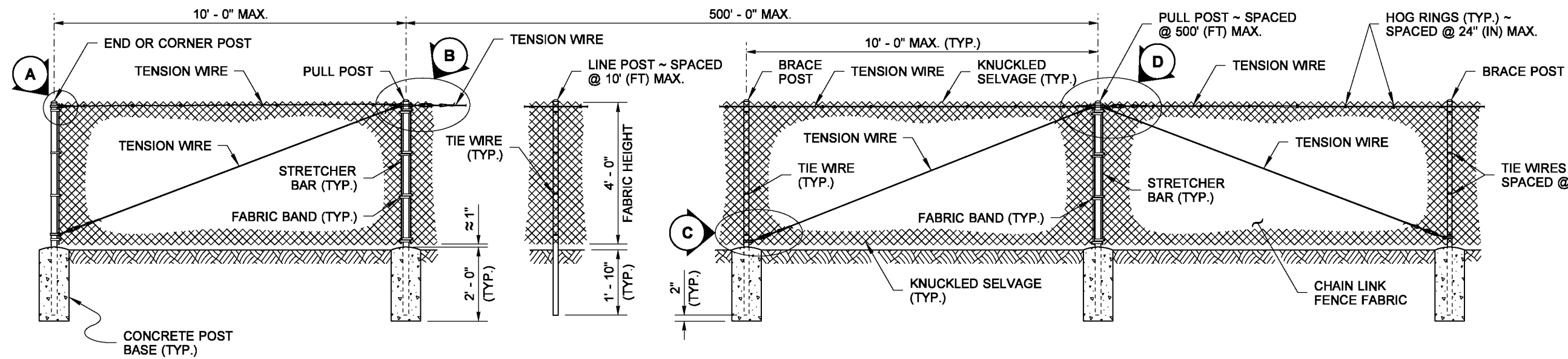
M 21-01

September 3, 2019

Engineering and Regional Operations
Development Division, Design Office



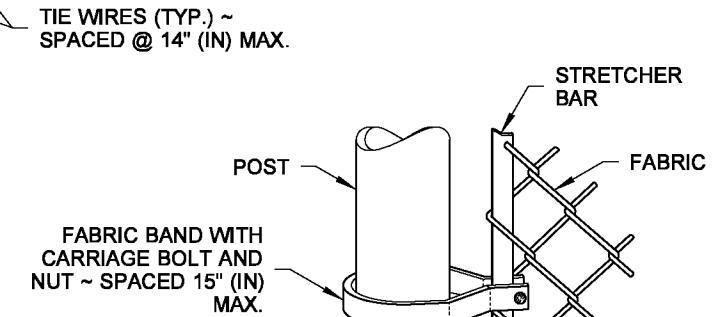
TYPE 3



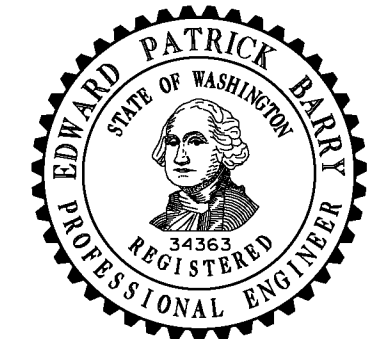
TYPE 4

NOTES

1. All concrete post bases shall be 10" (in) minimum diameter.
2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
4. Fencing shall be used for security and boundary delineation only.



METHOD OF FASTENING STRETCHER BAR TO POST



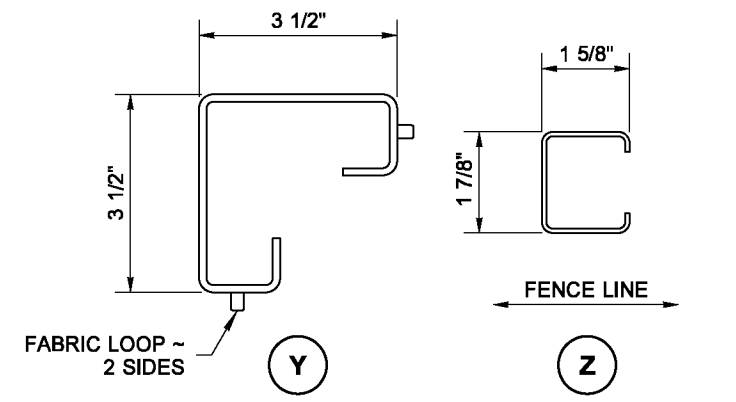
**CHAIN LINK FENCE
TYPES 3 AND 4
STANDARD PLAN L-20.10-03**

SHEET 1 OF 2 SHEETS

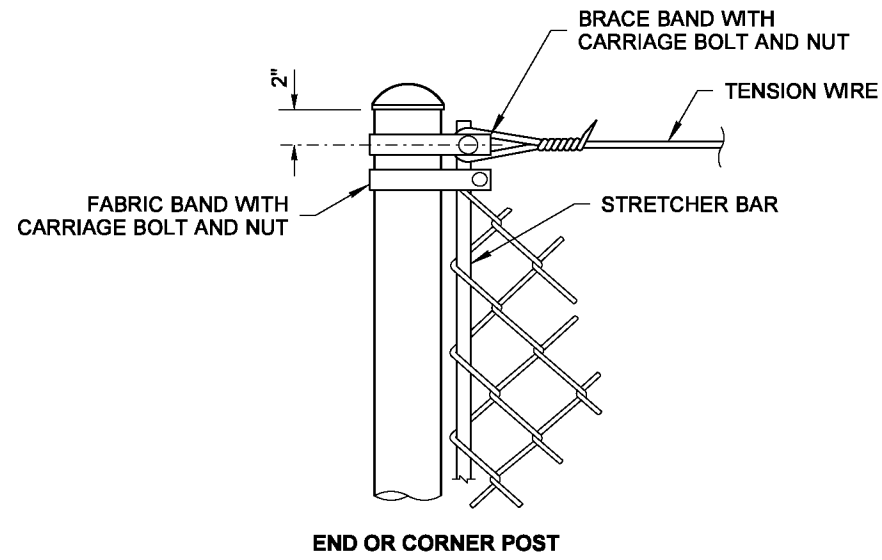
APPROVED FOR PUBLICATION

POST AND RAIL SPECIFICATIONS

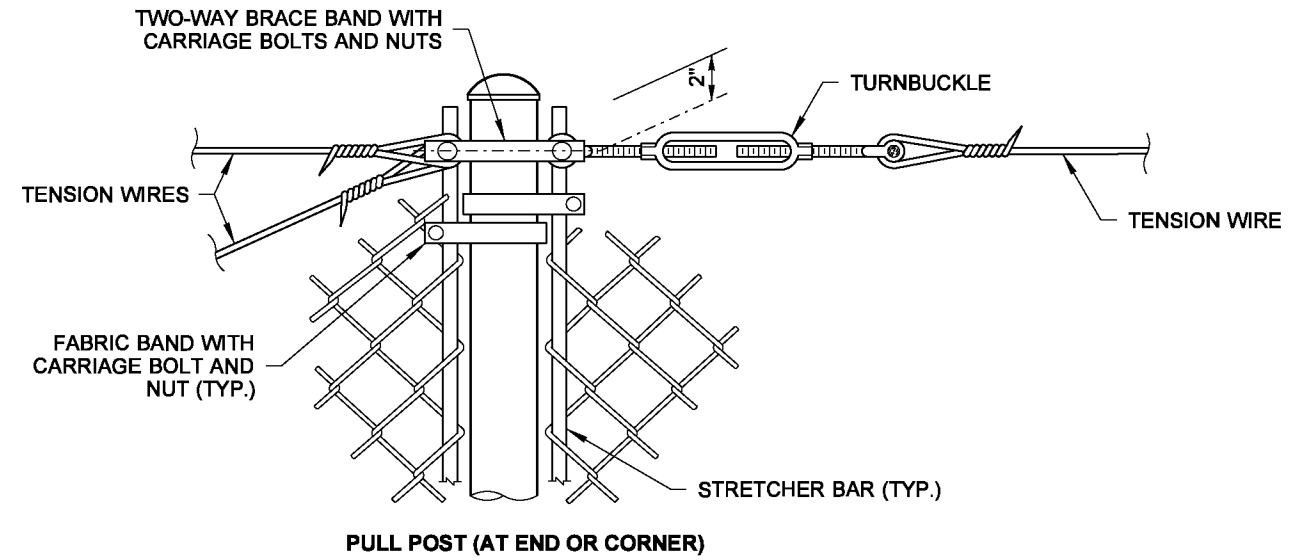
POST	PIPE	ROLL FORMED	
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	Y	5.10
LINE OR BRACE POST	2" DIAM.	Z	1.85



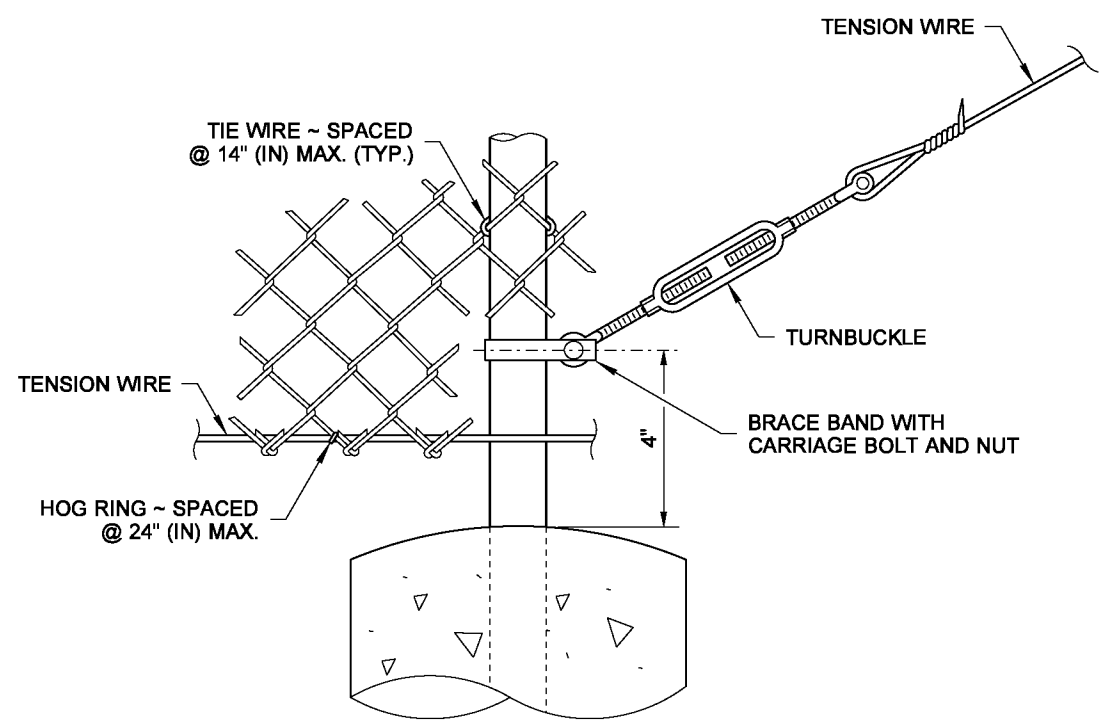
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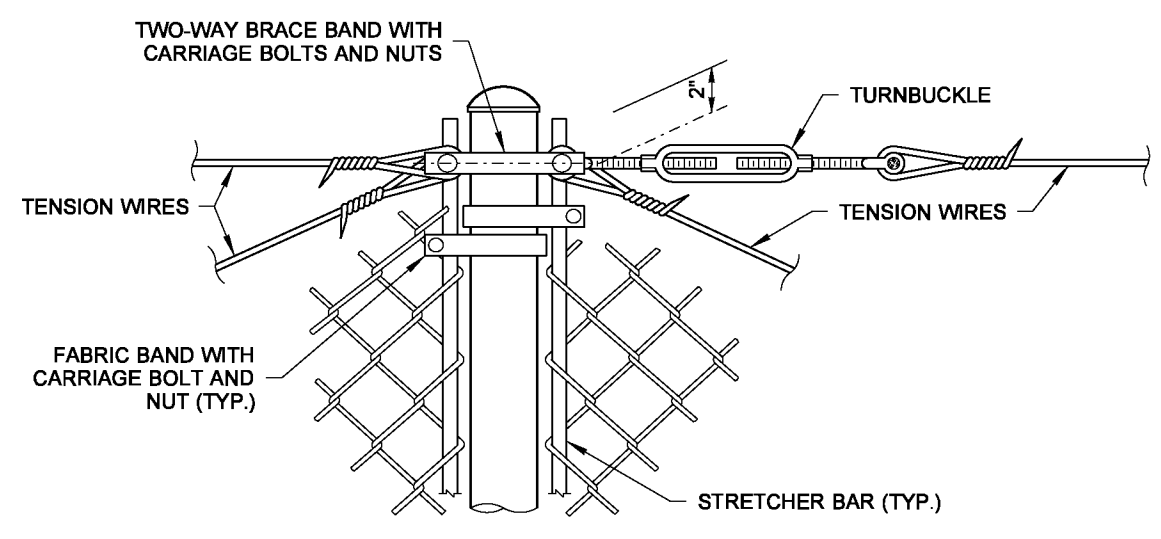
DETAIL A



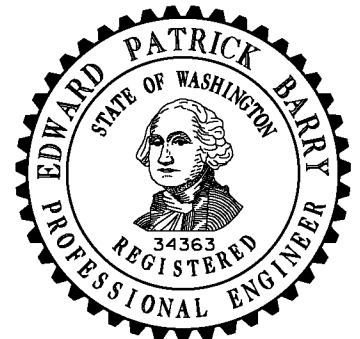
DETAIL B



DETAIL C



DETAIL D



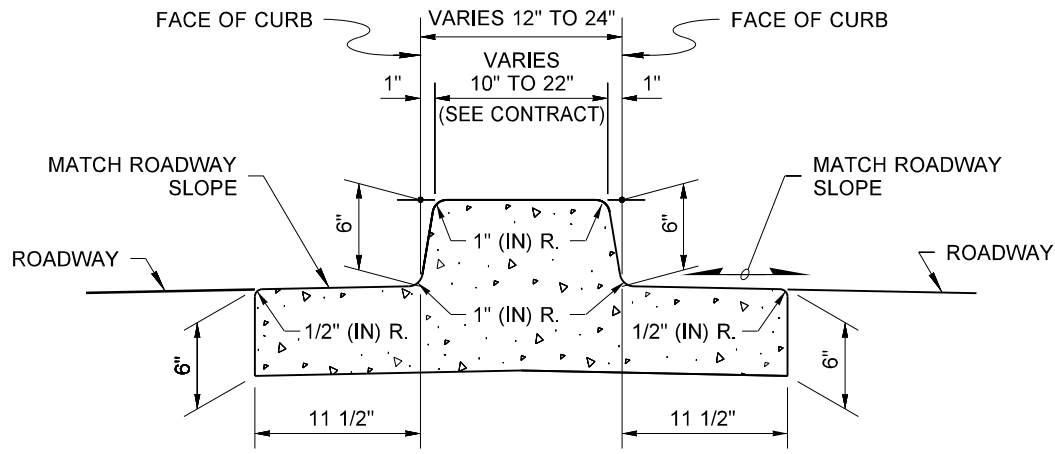
**CHAIN LINK FENCE
TYPES 3 AND 4
STANDARD PLAN L-20.10-03**

SHEET 2 OF 2 SHEETS

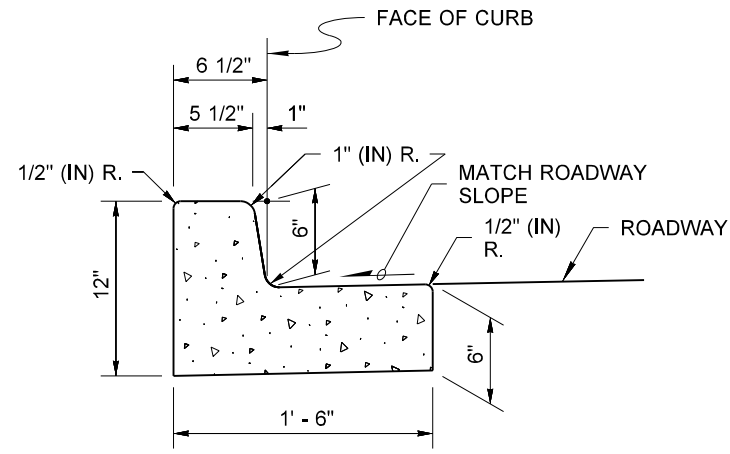
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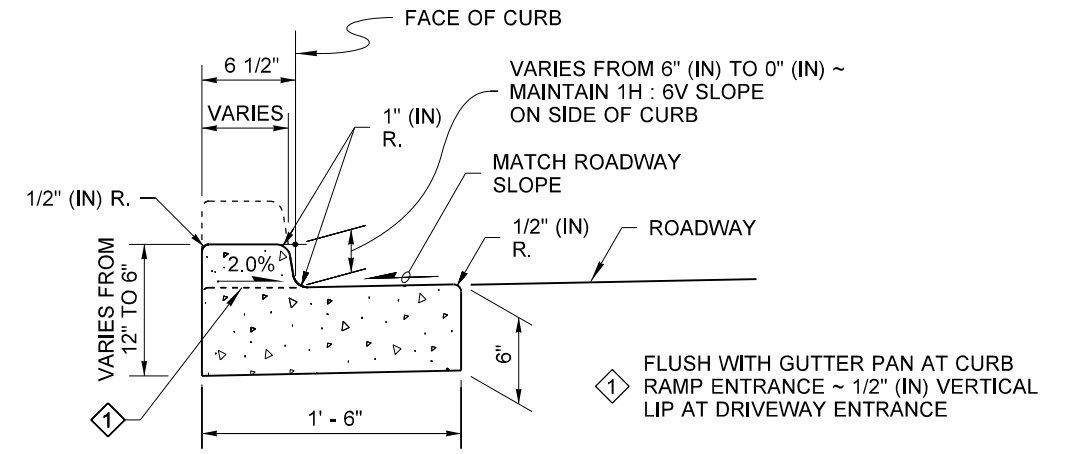
DRAWN BY: FERN LIDDELL



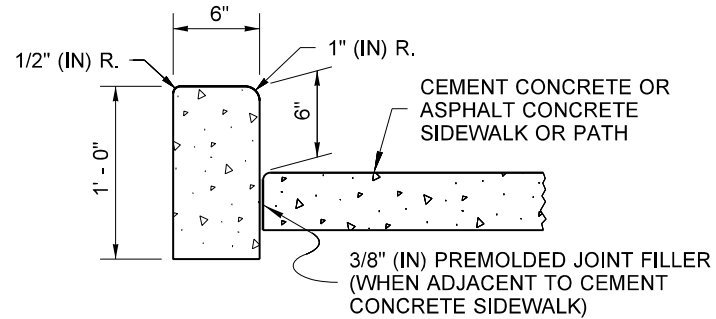
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



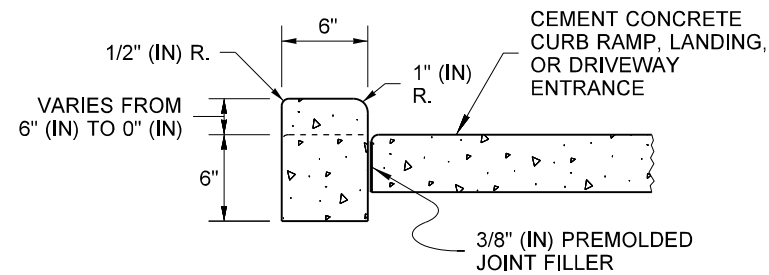
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



DEPRESSED CURB AND GUTTER SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



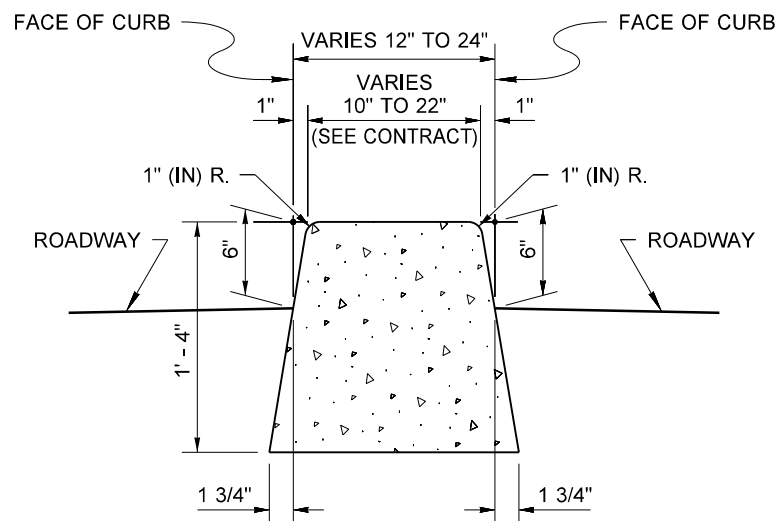
CEMENT CONCRETE PEDESTRIAN CURB



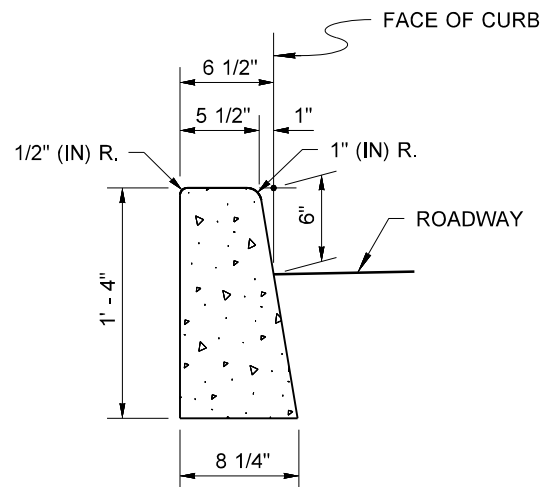
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

NOTE

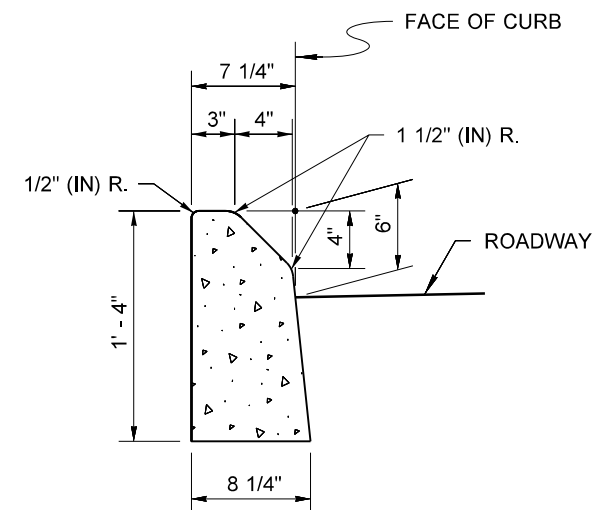
1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB



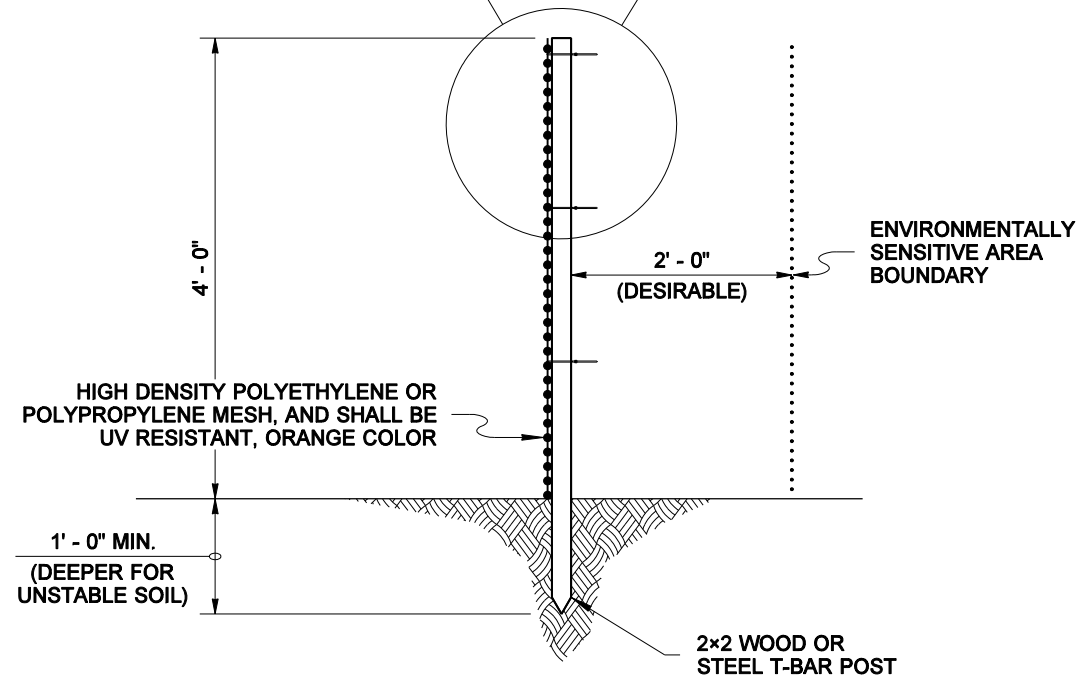
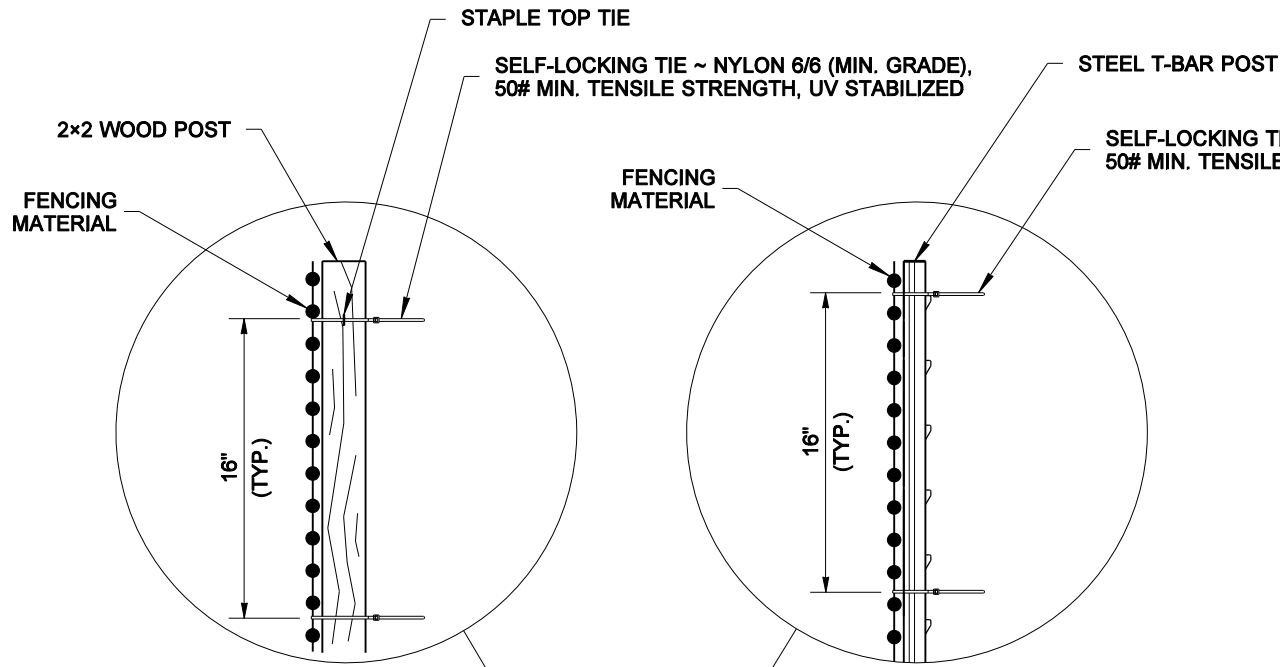
Michael S Fleming
 Digitally signed by Michael S Fleming
 Date: 2020.09.24 07:39:38 -07'00'
CEMENT CONCRETE CURBS

STANDARD PLAN F-10.12-04

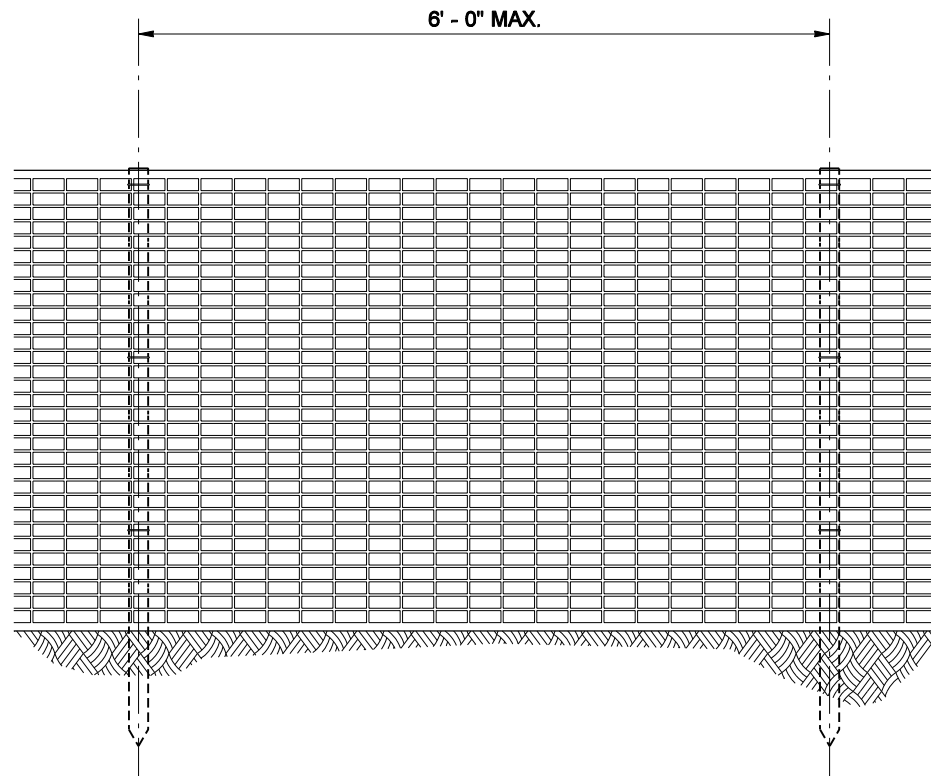
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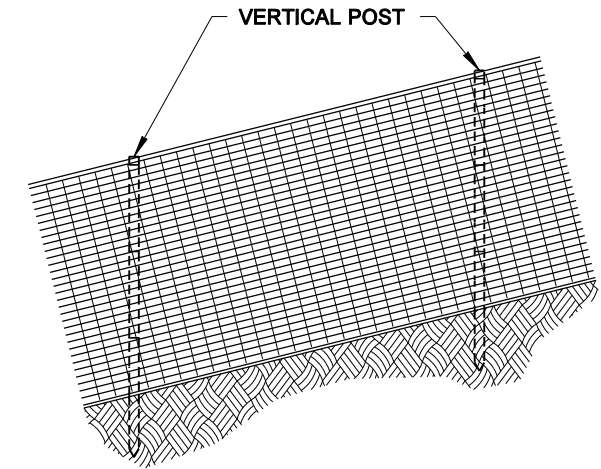
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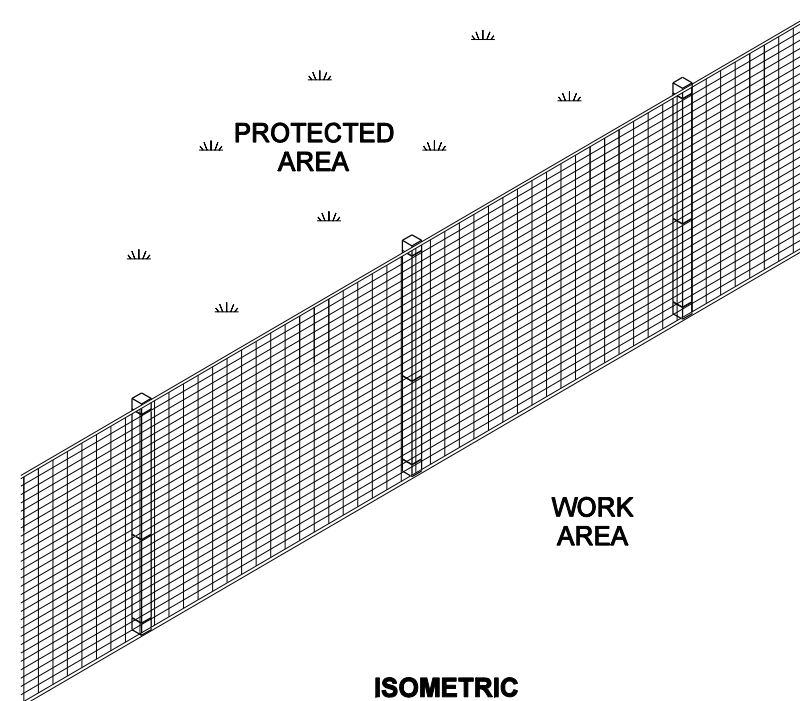
TYPICAL SECTION



ELEVATION



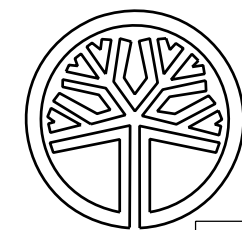
ELEVATION
FENCE ON SLOPE



ISOMETRIC

NOTE

1. Post shall have sufficient strength and durability to support the fence through the life of the project.



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

HIGH VISIBILITY FENCE

STANDARD PLAN I-10.10-01

SHEET 1 OF 1 SHEET

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Pasco Bakotich III 08-11-09

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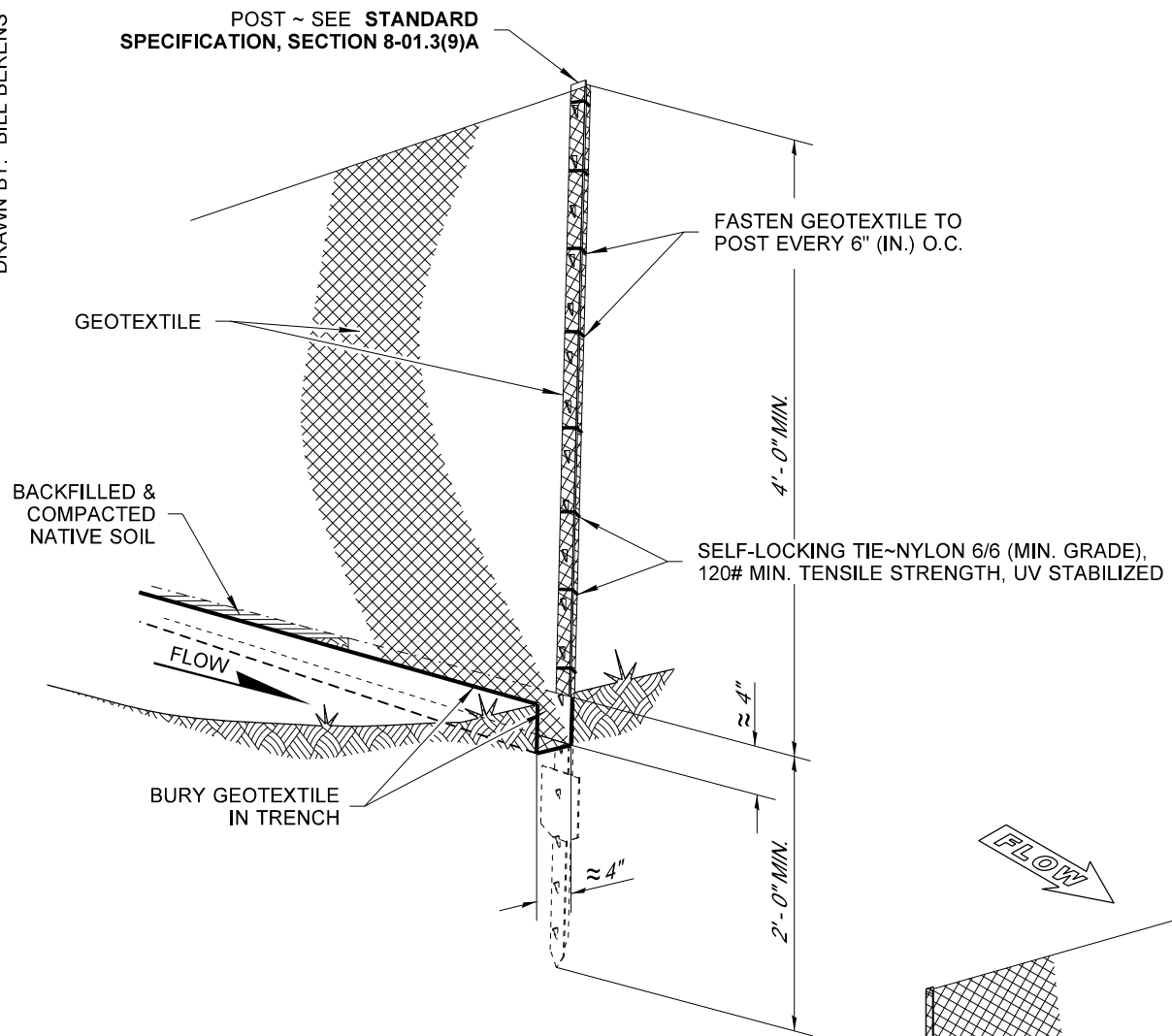
DATE



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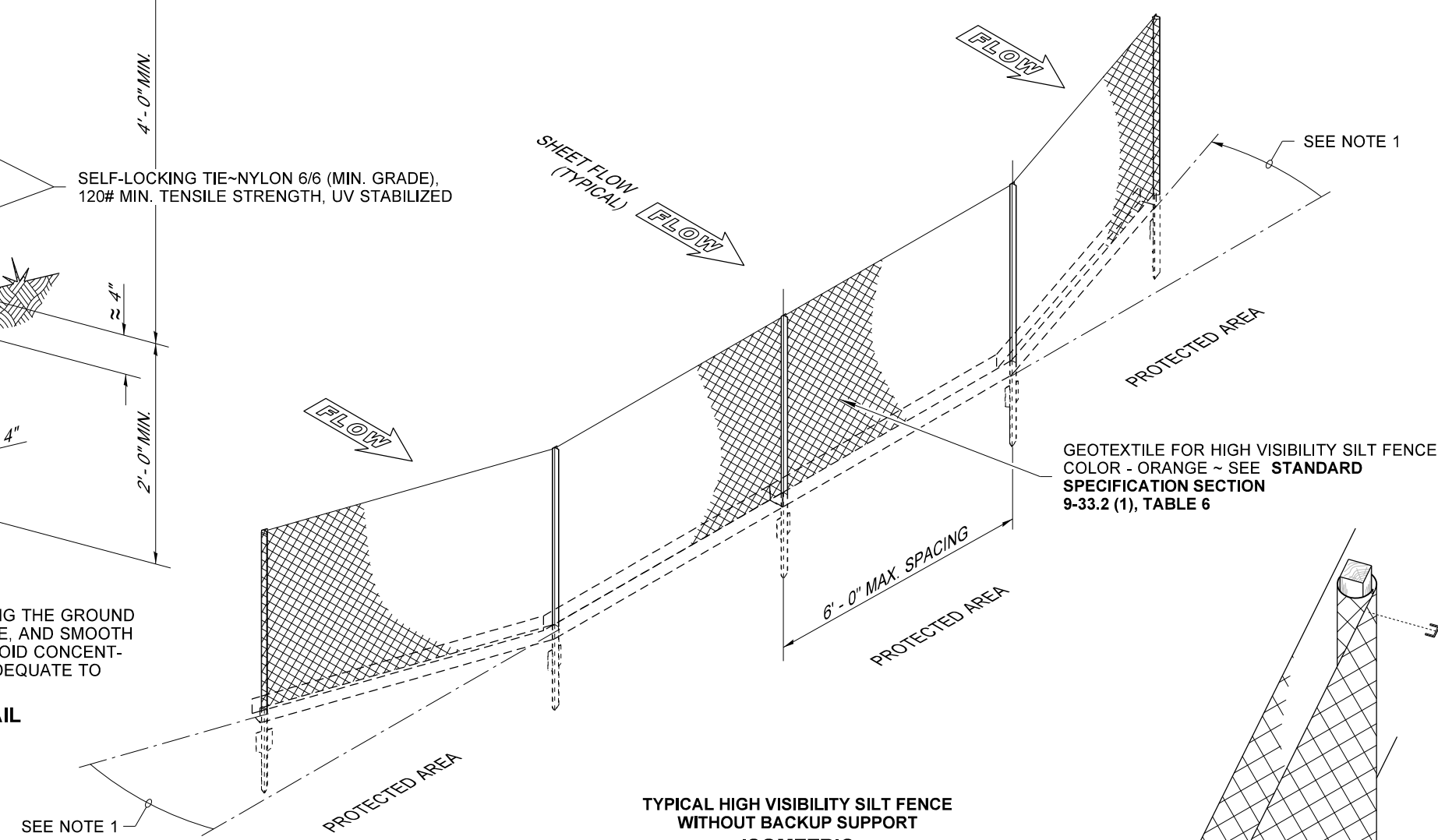
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POST ~ SEE STANDARD SPECIFICATION, SECTION 8-01.3(9)A

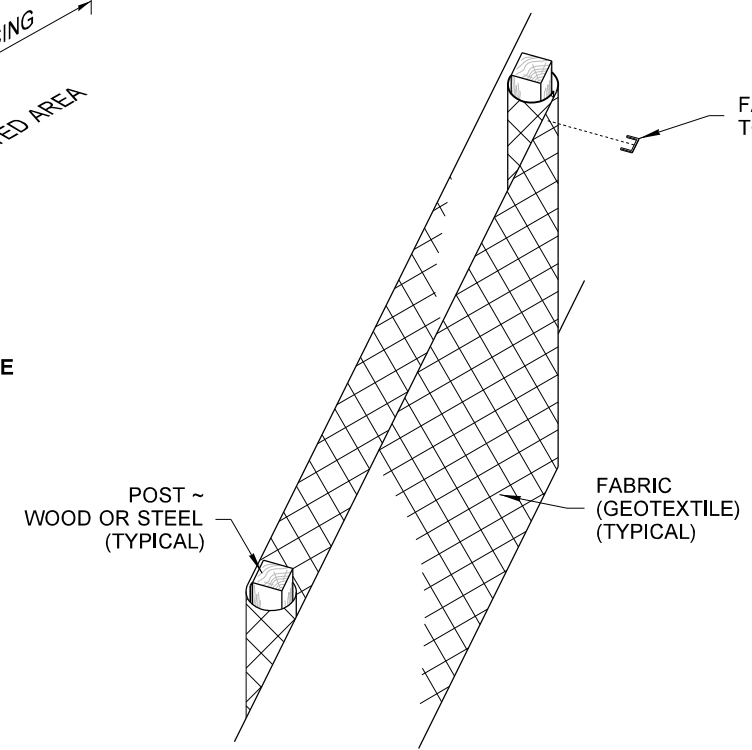


NOTE
 DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL
 (STEEL POSTS SHOWN)



TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC
 (STEEL POSTS SHOWN)

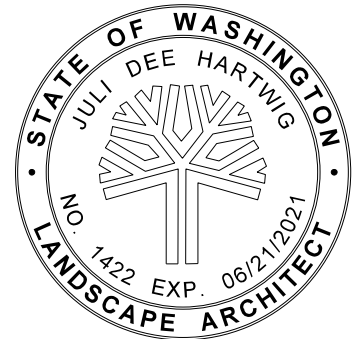


SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

SPLICE DETAIL
 (WOOD POSTS SHOWN)

NOTES

1. Angle Terminal end uphill 24" (in) to 48" (in) to prevent flow around fence (Typical).
2. Perform maintenance in accordance with **Standard Specification, Sections 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



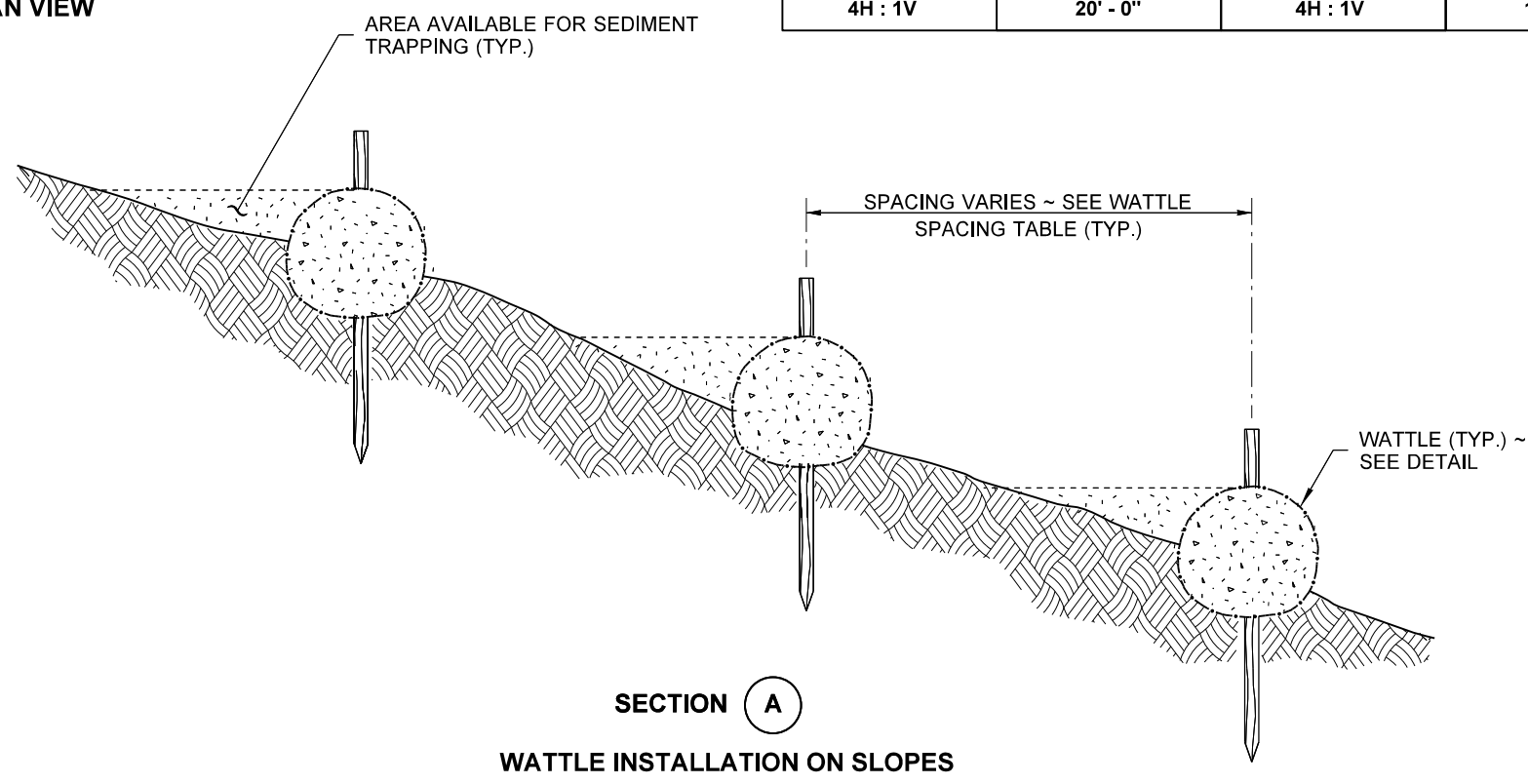
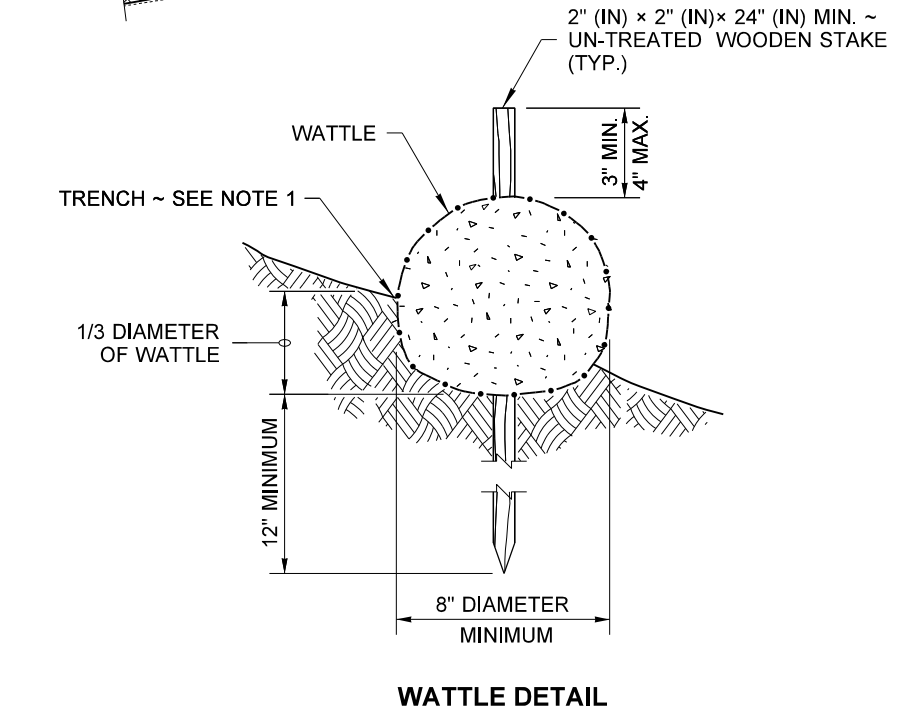
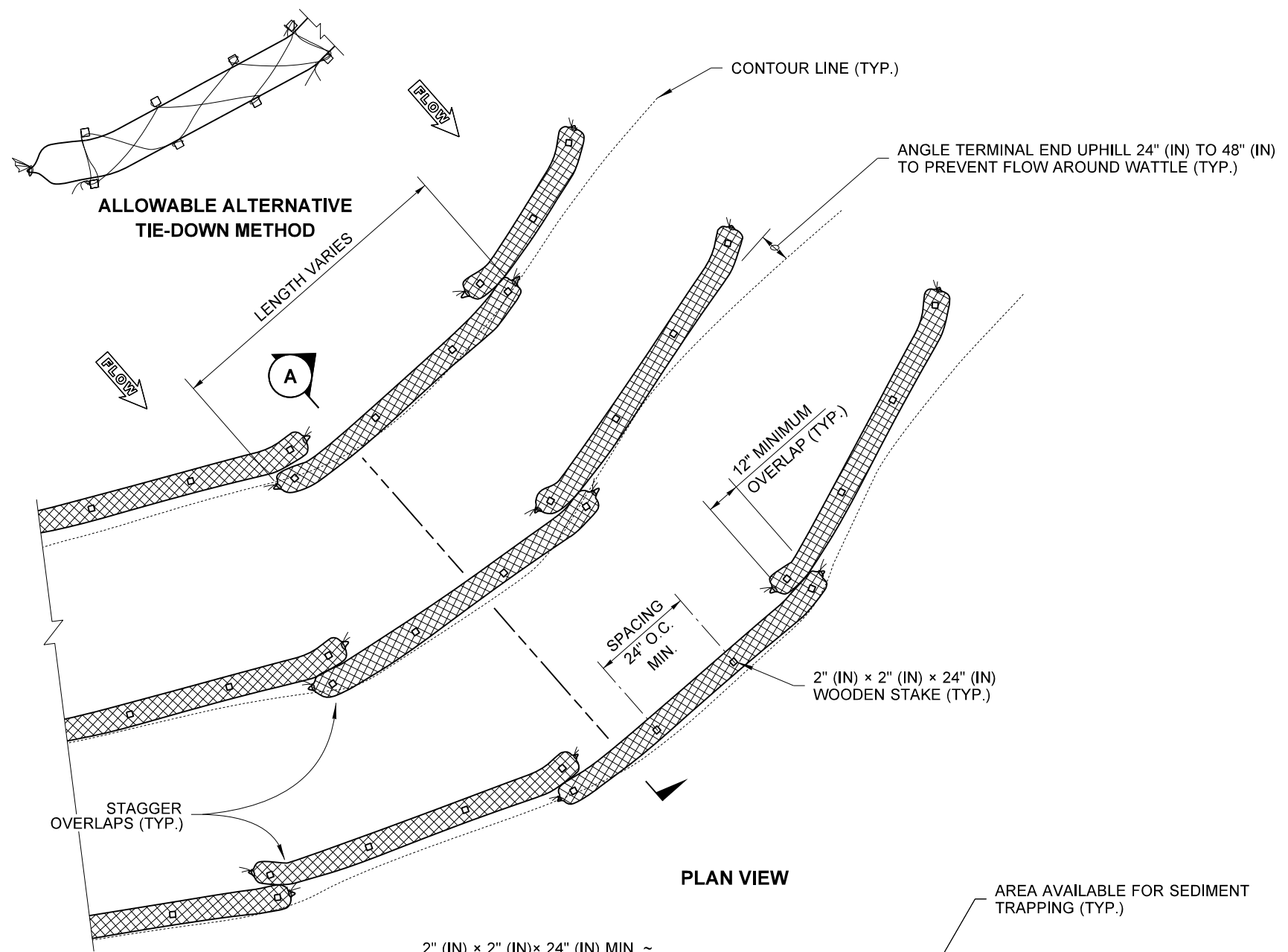
HIGH VISIBILITY SILT FENCE
STANDARD PLAN I-30.17-01

SHEET 1 OF 1 SHEET

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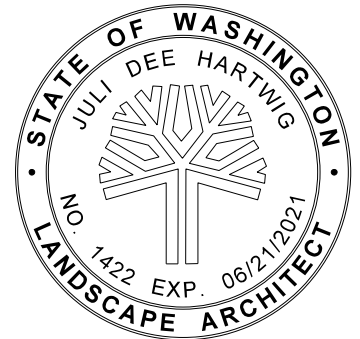
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WATTLE SPACING TABLE			
TEMPORARY		PERMANENT	
8" - 10" OR 10" - 12" DIAM.		10" - 12" DIAM.	
SLOPE	MAX. SPACING	SLOPE	MAX. SPACING
1H : 1V	5' - 0"	-	-
2H : 1V	10' - 0"	2H : 1V	5' - 0"
3H : 1V	15' - 0"	3H : 1V	10' - 0"
4H : 1V	20' - 0"	4H : 1V	15' - 0"

NOTES

1. Wattles shall be in accordance with **Standard Specification, Section 9-14.5(5)**. Install Wattles along contours. Installation shall be in accordance with **Standard Specification, Section 8-01.3(10)**.
2. Securely knot each end of Wattle. Overlap adjacent Wattle ends 12" (in) behind one another and securely tie together.
3. Compact excavated soil and trenches to prevent undercutting. Additional staking may be necessary to prevent undercutting.
4. Install Wattle perpendicular to flow along contours.
5. Wattles shall be inspected regularly, and immediately after a rainfall produces runoff, to ensure they remain thoroughly entrenched and in contact with the soil.
6. Perform maintenance in accordance with **Standard Specification, Section 8-01.3(15)**.
7. Refer to **Standard Specification, Section 8-01.3(16)** for removal.



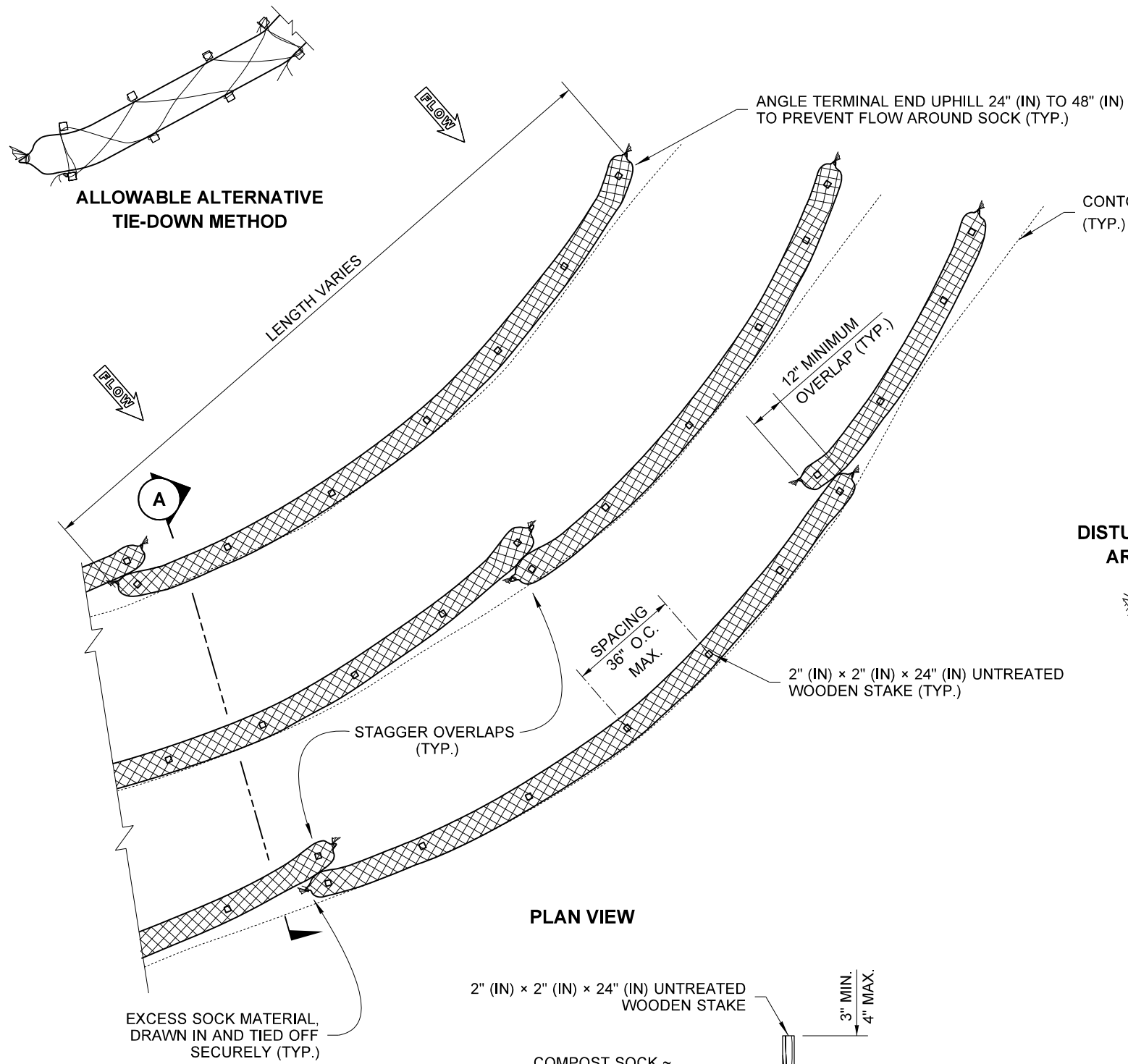
WATTLE INSTALLATION ON SLOPE
STANDARD PLAN I-30.30-02

SHEET 1 OF 1 SHEET

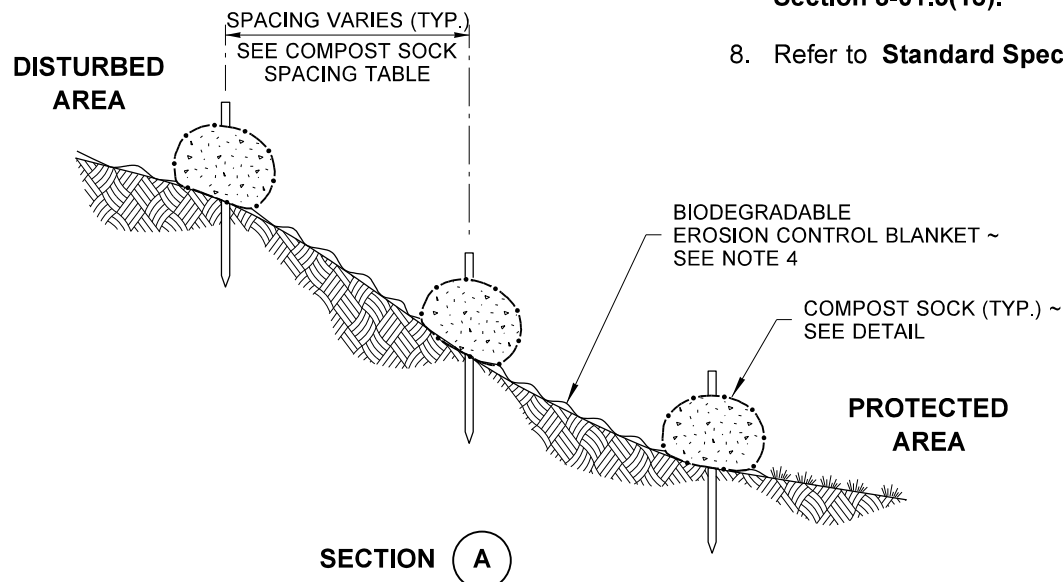
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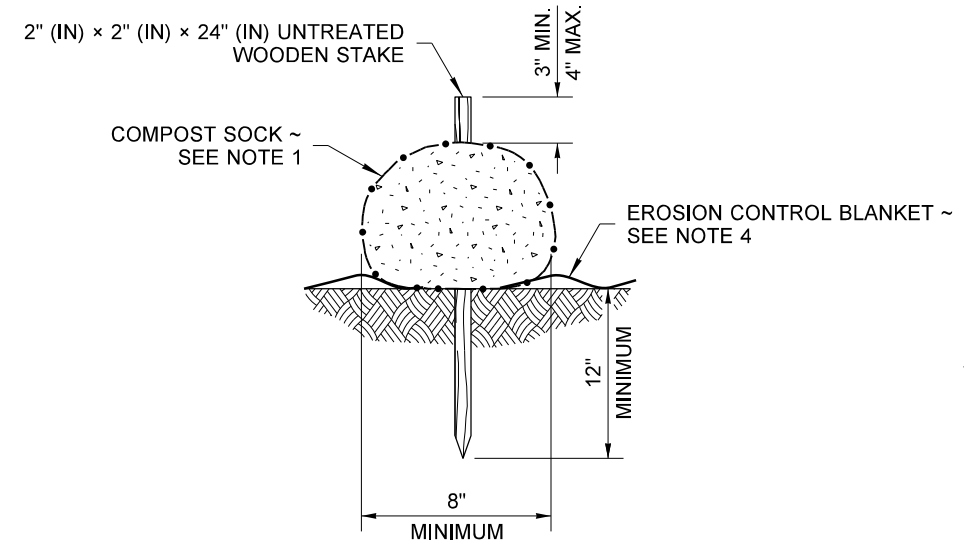
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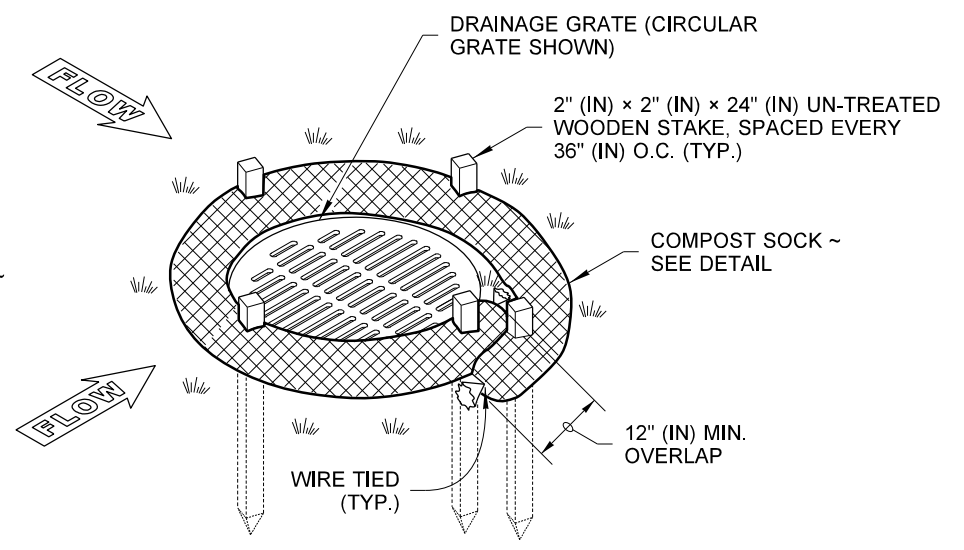
PLAN VIEW



SECTION A



COMPOST SOCK DETAIL

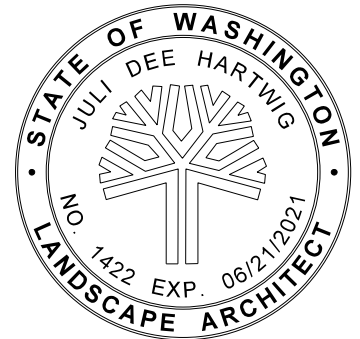


**ISOMETRIC VIEW
CATCH BASIN INSTALLATION**

8" DIAMETER MINIMUM COMPOST SOCK SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	5' - 0"
2H : 1V	10' - 0"
3H : 1V	15' - 0"
4H : 1V	20' - 0"

NOTES

1. Compost Sock shall be in accordance with **Standard Specification, Section 9-14.5(6)**.
2. Securely knot each end of Compost Sock. Overlap adjacent Compost Sock ends 12" (in) behind one another and securely tie together.
3. Compost to be dispersed on site as determined by the Engineer, when vegetation covers the surface.
4. If Erosion Control Blanket is specified, place Compost Sock on top of blanket. See **Standard Plan I-60.10**.
5. Install Compost Sock perpendicular to flow along contours.
6. Remove sediment from the up slope side of the Compost Sock when accumulation has reached 1/2 of the effective height of the Compost Sock without compromising the intended function of the Compost Sock per **Standard Specification, section 8-01.3(12)** as determined by the Engineer.
7. Perform maintenance in accordance with **Standard Specification, Section 8-01.3(15)**.
8. Refer to **Standard Specification, Section 8-01.3(16)** for removal.

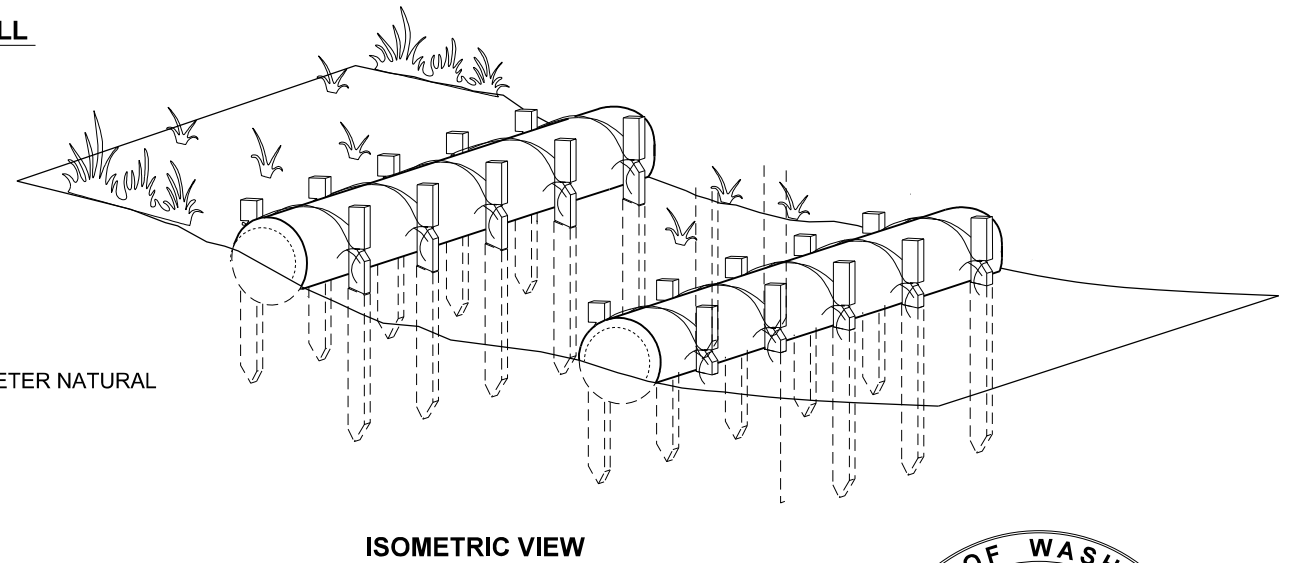
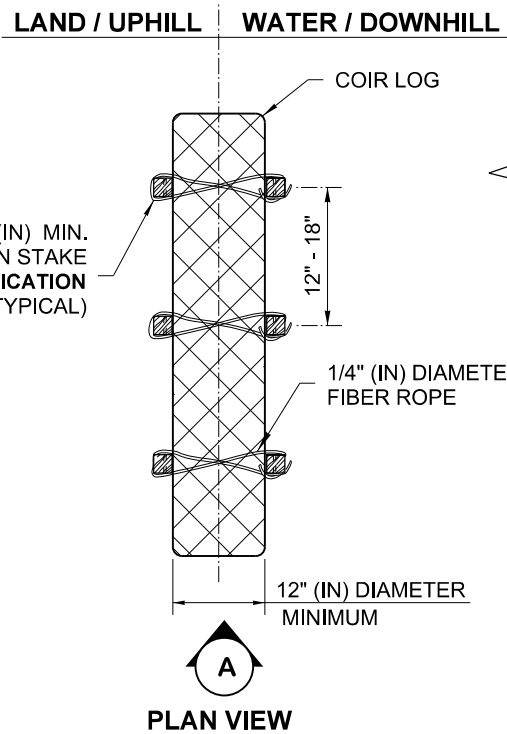
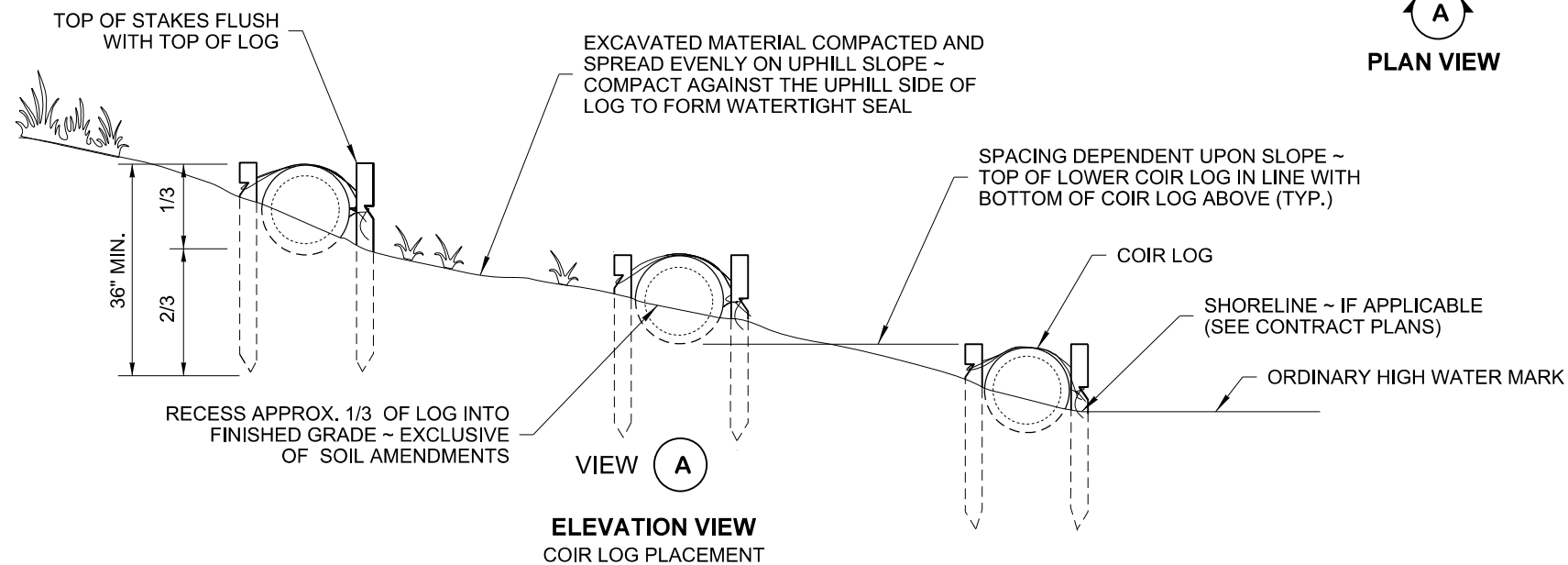
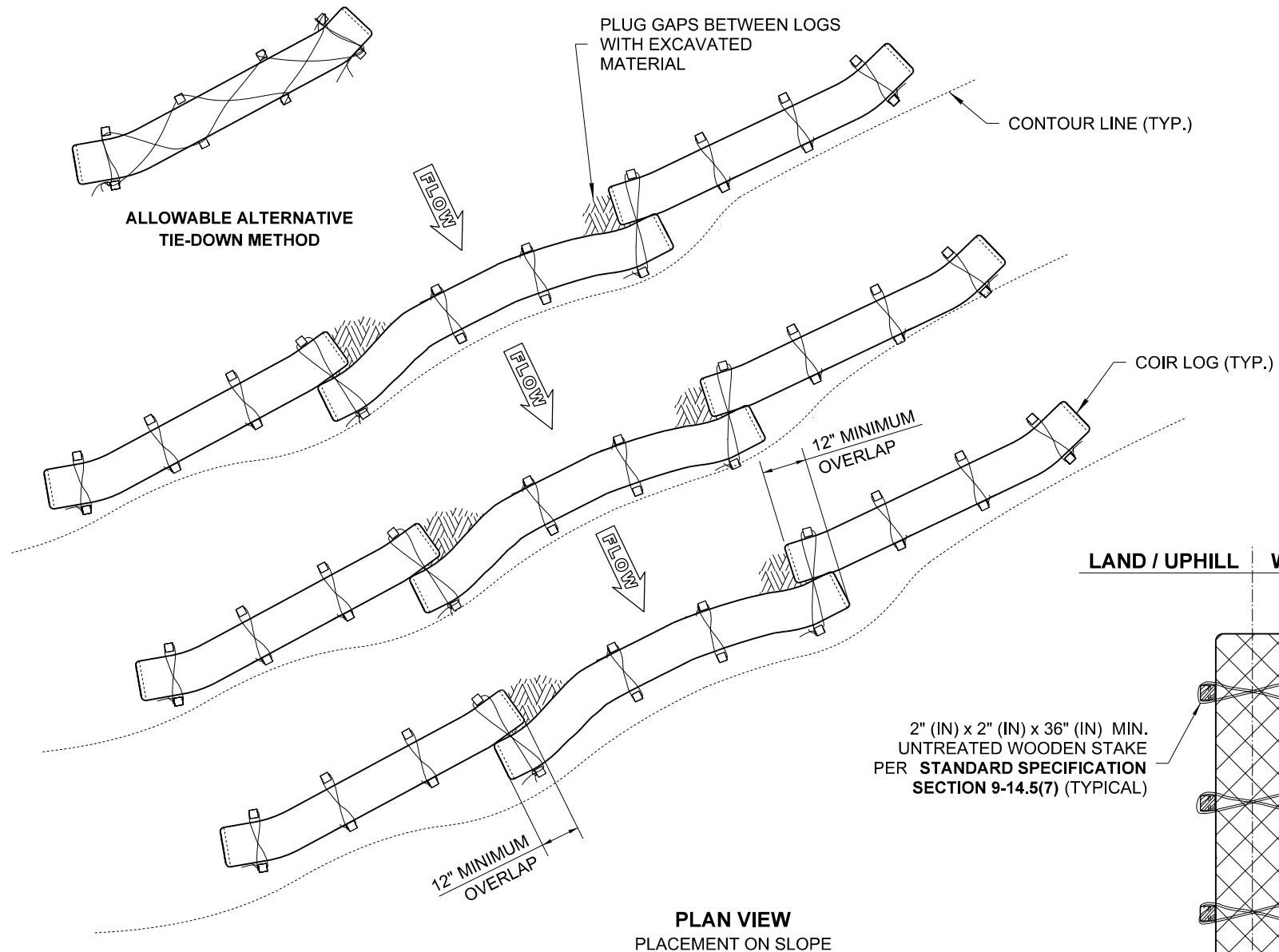


**COMPOST SOCK
STANDARD PLAN I-30.40-02**

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



NOTES

1. Coir logs shall be installed starting at the bottom of the slope and working uphill.
2. Excavated material shall be spread evenly along the uphill slope and compacted by hand tamping or other methods approved by the Engineer.
3. Overlap Coir log ends by 12" (in) to prevent water from moving between logs.
4. Always install Coir log perpendicular to slope along contour lines. Ends shall angle uphill to prevent flow around the Coir log.
5. Use an adequate number of stakes to ensure logs are secure.
6. Coir logs shall be in accordance with **Standard Specification, Section 9-14.5(7)**, and be installed in accordance with **Standard Specification, Section 8-01.3(6)A**.
7. Perform maintenance in accordance with **Standard Specification, Section 8-01.3(15)**.

12" DIAMETER MINIMUM COIR LOG SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	5' - 0"
2H : 1V	10' - 0"
3H : 1V	15' - 0"
4H : 1V	20' - 0"



**EROSION CONTROL DETAILS
COIR LOG PLACEMENT**

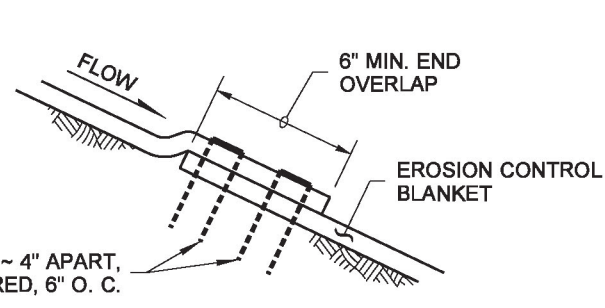
STANDARD PLAN I-30.60-02

SHEET 1 OF 1 SHEET

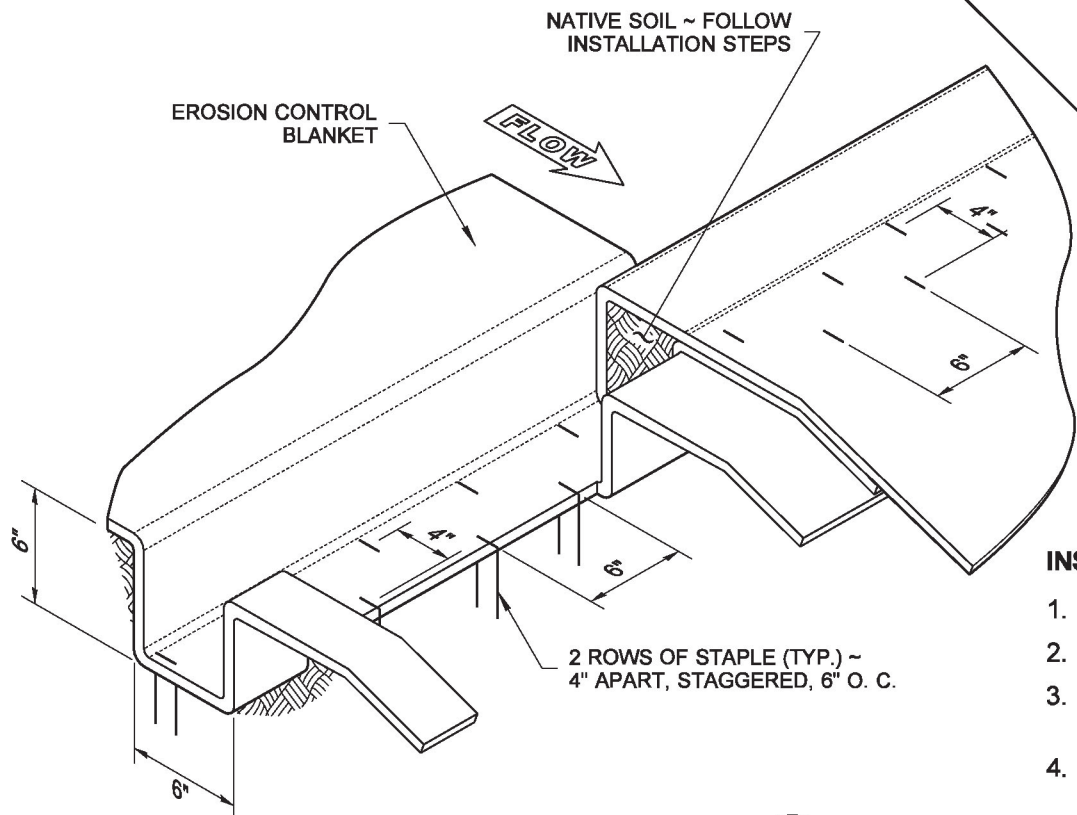
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Washington State Department of Transportation

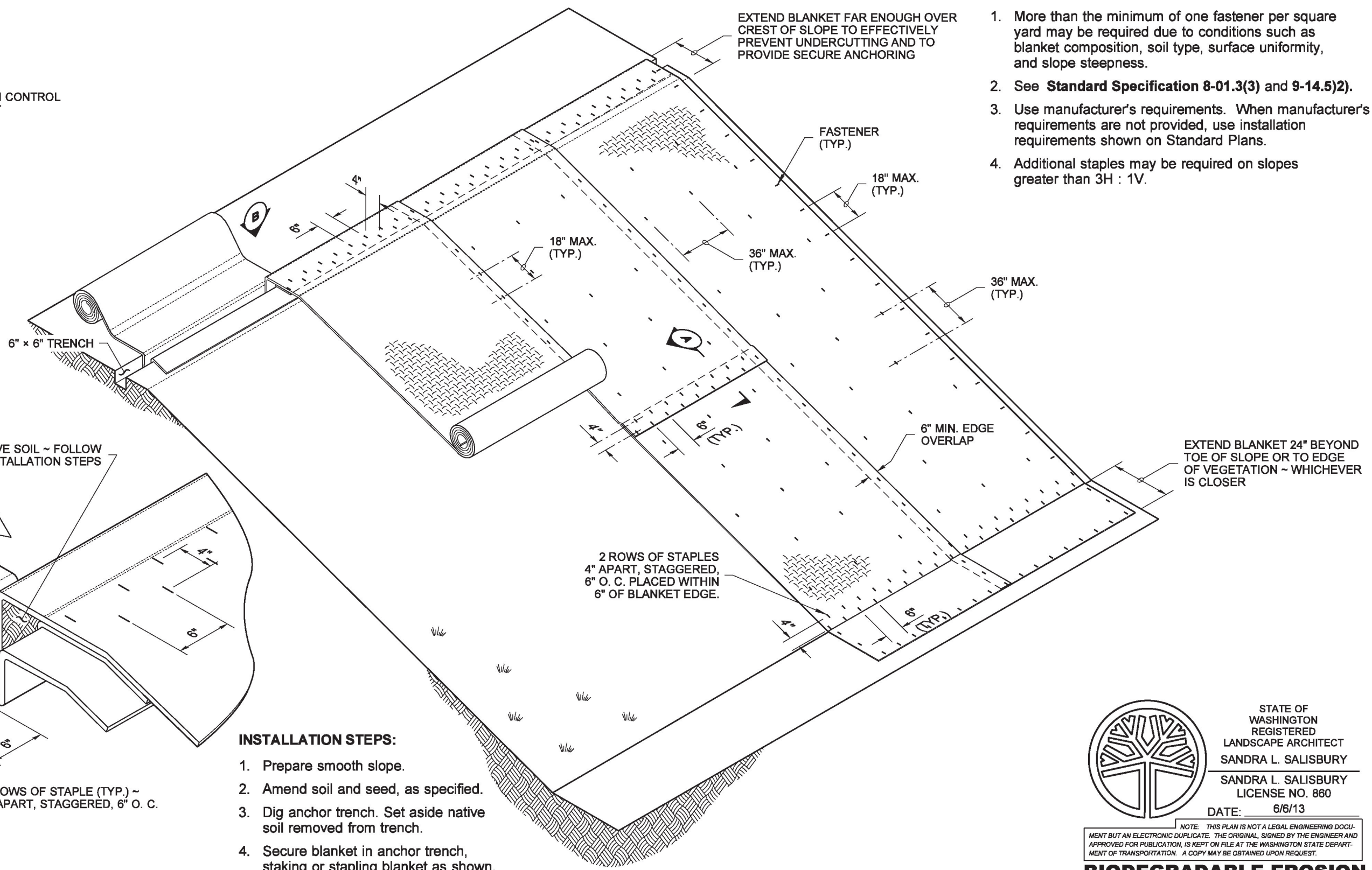
DRAWN BY: LISA CYFORD



SHINGLE SPLICE ~ SECTION A



INITIAL ANCHOR ~ DETAIL B



ISOMETRIC VIEW

INSTALLATION STEPS:

1. Prepare smooth slope.
2. Amend soil and seed, as specified.
3. Dig anchor trench. Set aside native soil removed from trench.
4. Secure blanket in anchor trench, staking or stapling blanket as shown.
5. Replace native soil previously removed from trench.
6. Roll blanket down the slope in a controlled manner, taking care to remove excess slack, and taking care not to stretch blanket.
7. Stake or staple blanket as shown so there are no gaps between the blanket and the soil. Staple while unrolling blanket to minimize walking on blanket.

NOTES

1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and slope steepness.
2. See **Standard Specification 8-01.3(3) and 9-14.5(2)**.
3. Use manufacturer's requirements. When manufacturer's requirements are not provided, use installation requirements shown on Standard Plans.
4. Additional staples may be required on slopes greater than 3H : 1V.



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
SANDRA L. SALISBURY
SANDRA L. SALISBURY
LICENSE NO. 860
DATE: 6/6/13

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

BIODEGRADABLE EROSION CONTROL BLANKET PLACEMENT FOR SLOPES STANDARD PLAN I-60.10-01

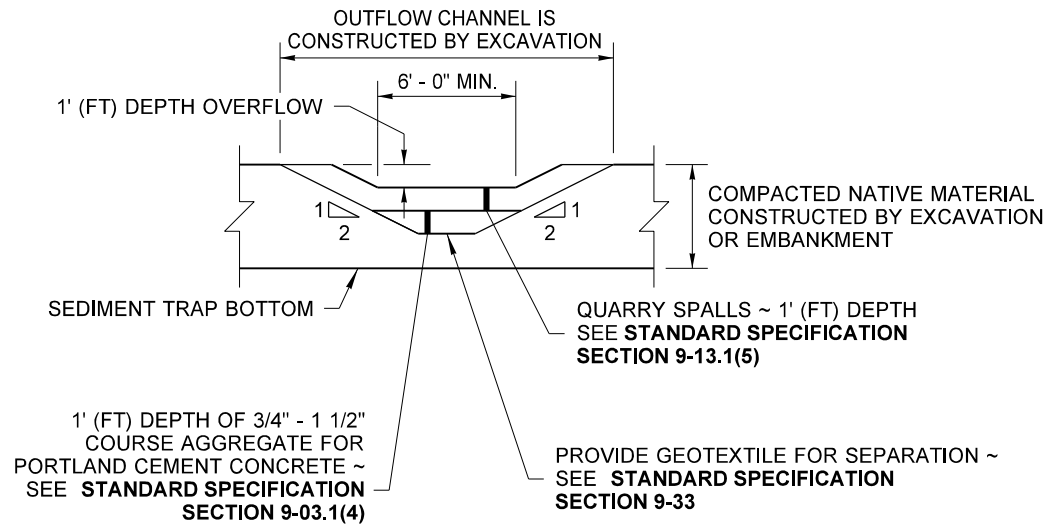
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

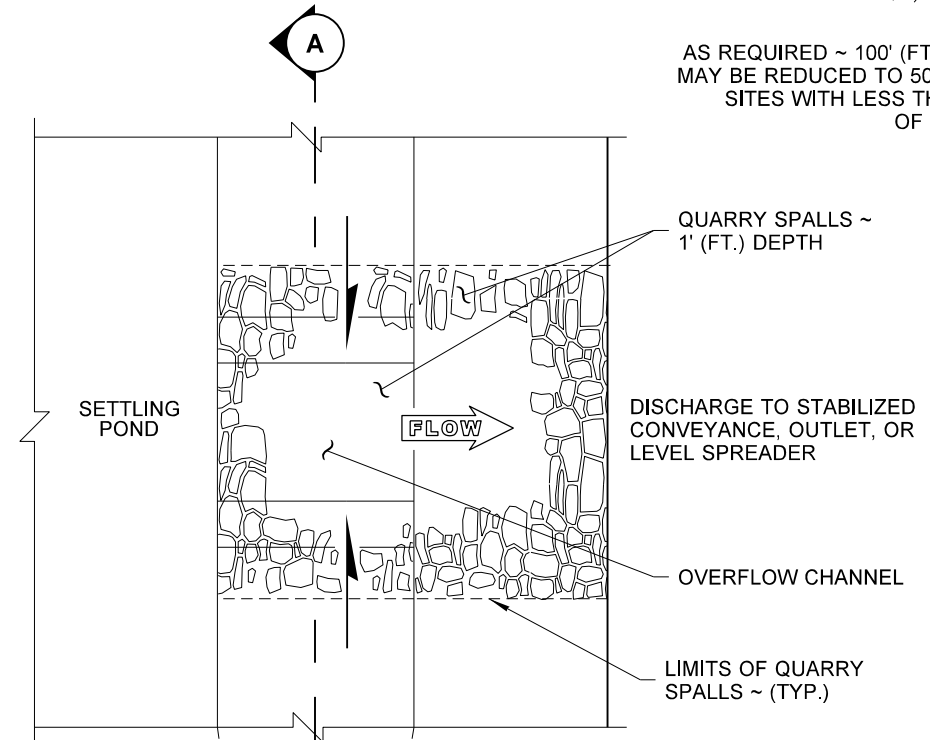
Pasco Bakotich III 6/10/13
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

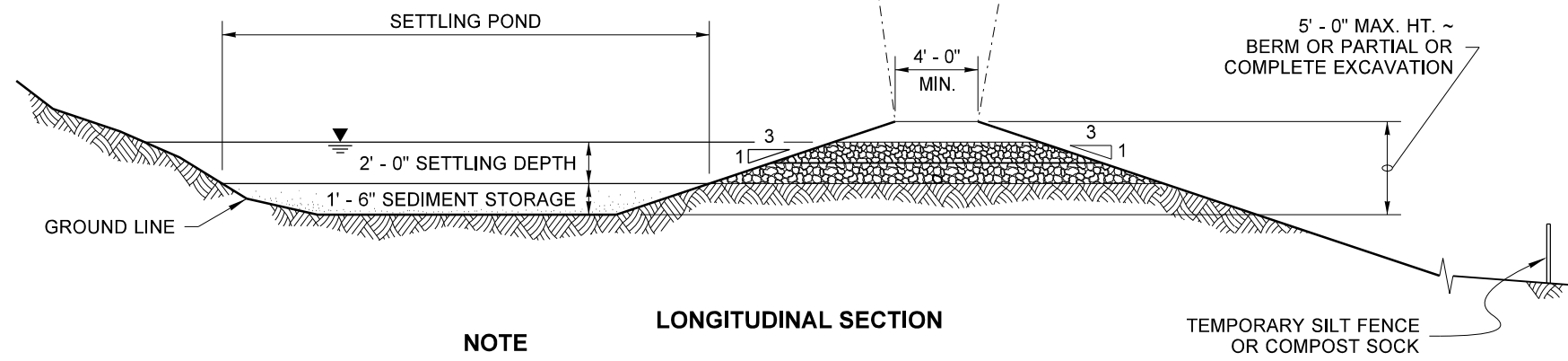
DRAWN BY: FERN LIDDELL



SECTION A



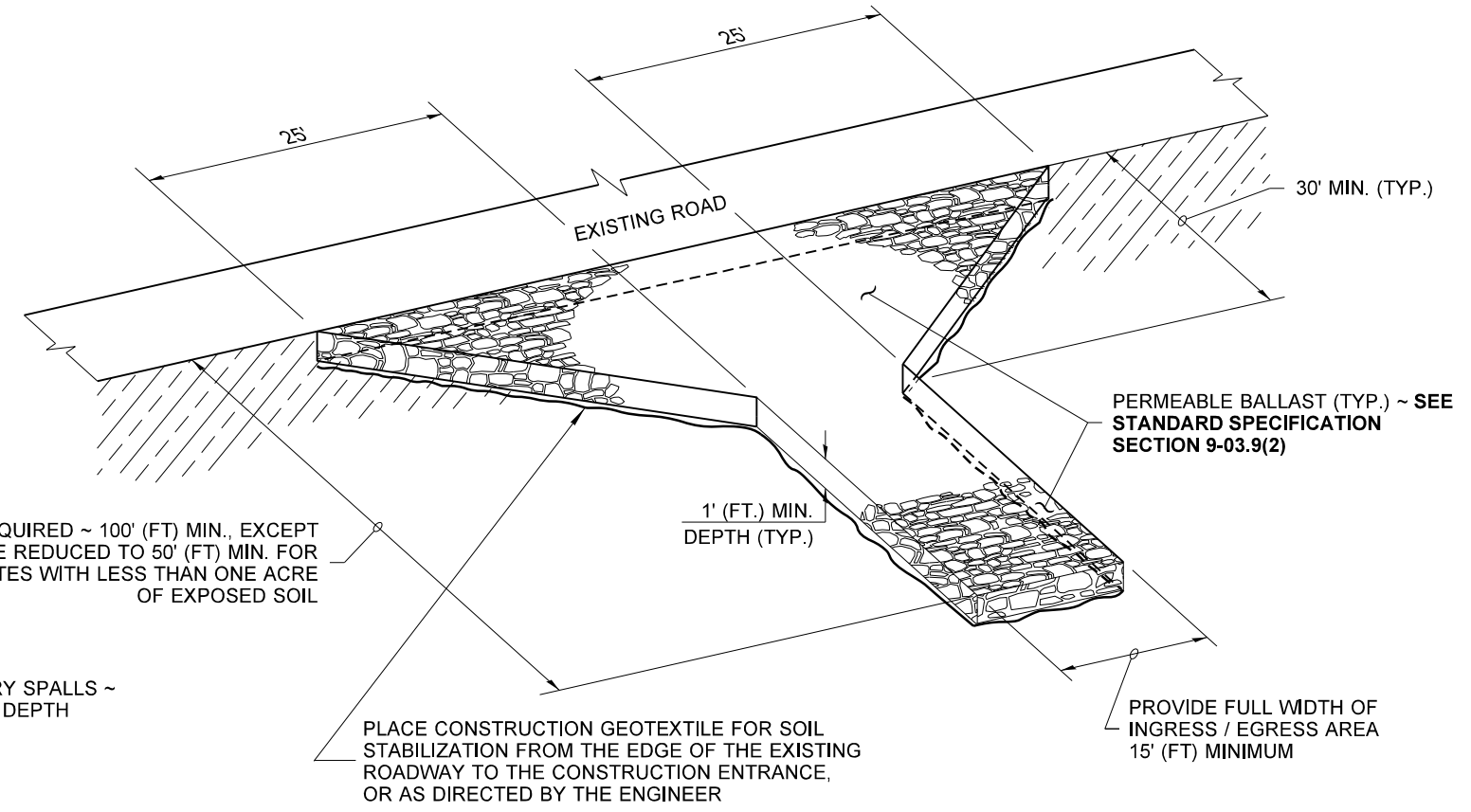
PARTIAL PLAN VIEW OF BERM SHOWN LARGER FOR CLARITY



LONGITUDINAL SECTION

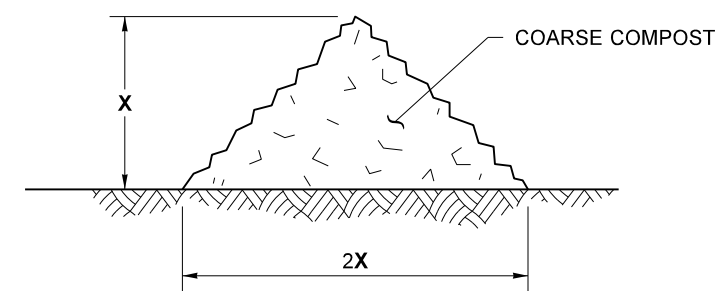
NOTE
 PLACE GEOTEXTILE UNDER THE SPILLWAY AND SIDE SLOPES. PROVIDE A CONTINUOUS LAYER BETWEEN THE GRAVEL/ROCK AND THE NATIVE EARTHEN MATERIAL.

TEMPORARY SEDIMENT TRAP



ISOMETRIC VIEW STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 8-01.3(7).



X = 1' - 0" FOR SLOPES 4H:1V OR FLATTER
 X = 1' - 6" FOR SLOPES STEEPER THAN 4H:1V

TYPICAL SECTION COMPOST BERM DETAIL



STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
 JULI DEE HARTWIG LICENSE NO. 1422
 DATE: 06-21-17

MISCELLANEOUS EROSION CONTROL DETAILS
STANDARD PLAN I-80.10-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
 Washington State Department of Transportation

APPENDIX B

Wage Rates

Washington State Prevailing Wage Rates

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: 02/01/2021

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Skagit	Asbestos Abatement Workers	Journey Level	\$52.39	5D	1H		View
Skagit	Boilermakers	Journey Level	\$69.29	5N	1C		View
Skagit	Brick Mason	Journey Level	\$60.57	7E	1N		View
Skagit	Brick Mason	Pointer-Caulker-Cleaner	\$60.57	7E	1N		View
Skagit	Building Service Employees	Janitor	\$13.50		1		View
Skagit	Building Service Employees	Shampooer	\$13.50		1		View
Skagit	Building Service Employees	Waxer	\$13.50		1		View
Skagit	Building Service Employees	Window Cleaner	\$13.50		1		View
Skagit	Cabinet Makers (In Shop)	Journey Level	\$18.85		1		View
Skagit	Carpenters	Acoustical Worker	\$64.94	7A	4C		View
Skagit	Carpenters	Carpenter	\$64.94	7A	4C		View
Skagit	Carpenters	Carpenters on Stationary Tools	\$65.07	7A	4C		View
Skagit	Carpenters	Creosoted Material	\$65.07	7A	4C		View
Skagit	Carpenters	Floor Finisher	\$64.94	7A	4C		View
Skagit	Carpenters	Floor Layer	\$64.94	7A	4C		View
Skagit	Carpenters	Scaffold Erector	\$64.94	7A	4C		View
Skagit	Cement Masons	Application of all Composition Mastic	\$64.84	7A	4U		View
Skagit	Cement Masons	Application of all Epoxy Material	\$64.34	7A	4U		View
Skagit	Cement Masons	Application of all Plastic Material	\$64.84	7A	4U		View
Skagit	Cement Masons	Application of Sealing Compound	\$64.34	7A	4U		View
Skagit	Cement Masons	Application of Underlayment	\$64.84	7A	4U		View
Skagit	Cement Masons	Building General	\$64.34	7A	4U		View
Skagit	Cement Masons	Composition or Kalman Floors	\$64.84	7A	4U		View
Skagit	Cement Masons	Concrete Paving	\$64.34	7A	4U		View
Skagit	Cement Masons	Curb & Gutter Machine	\$64.84	7A	4U		View
Skagit	Cement Masons	Curb & Gutter, Sidewalks	\$64.34	7A	4U		View
Skagit	Cement Masons	Curing Concrete	\$64.34	7A	4U		View

Skagit	Cement Masons	Finish Colored Concrete	\$64.84	7A	4U		View
Skagit	Cement Masons	Floor Grinding	\$64.84	7A	4U		View
Skagit	Cement Masons	Floor Grinding/Polisher	\$64.34	7A	4U		View
Skagit	Cement Masons	Green Concrete Saw, self-powered	\$64.84	7A	4U		View
Skagit	Cement Masons	Grouting of all Plates	\$64.34	7A	4U		View
Skagit	Cement Masons	Grouting of all Tilt-up Panels	\$64.34	7A	4U		View
Skagit	Cement Masons	Gunite Nozzleman	\$64.84	7A	4U		View
Skagit	Cement Masons	Hand Powered Grinder	\$64.84	7A	4U		View
Skagit	Cement Masons	Journey Level	\$64.34	7A	4U		View
Skagit	Cement Masons	Patching Concrete	\$64.34	7A	4U		View
Skagit	Cement Masons	Pneumatic Power Tools	\$64.84	7A	4U		View
Skagit	Cement Masons	Power Chipping & Brushing	\$64.84	7A	4U		View
Skagit	Cement Masons	Sand Blasting Architectural Finish	\$64.84	7A	4U		View
Skagit	Cement Masons	Screed & Rodding Machine	\$64.84	7A	4U		View
Skagit	Cement Masons	Spackling or Skim Coat Concrete	\$64.34	7A	4U		View
Skagit	Cement Masons	Troweling Machine Operator	\$64.84	7A	4U		View
Skagit	Cement Masons	Troweling Machine Operator on Colored Slabs	\$64.84	7A	4U		View
Skagit	Cement Masons	Tunnel Workers	\$64.84	7A	4U		View
Skagit	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$118.80	7A	4C		View
Skagit	Divers & Tenders	Dive Supervisor/Master	\$81.98	7A	4C		View
Skagit	Divers & Tenders	Diver	\$118.80	7A	4C	8V	View
Skagit	Divers & Tenders	Diver On Standby	\$76.98	7A	4C		View
Skagit	Divers & Tenders	Diver Tender	\$69.91	7A	4C		View
Skagit	Divers & Tenders	Manifold Operator	\$69.91	7A	4C		View
Skagit	Divers & Tenders	Manifold Operator Mixed Gas	\$74.91	7A	4C		View
Skagit	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$69.91	7A	4C		View
Skagit	Divers & Tenders	Remote Operated Vehicle Tender	\$65.19	7A	4C		View
Skagit	Dredge Workers	Assistant Engineer	\$70.62	5D	3F		View
Skagit	Dredge Workers	Assistant Mate (Deckhand)	\$70.07	5D	3F		View
Skagit	Dredge Workers	Boatmen	\$70.62	5D	3F		View
Skagit	Dredge Workers	Engineer Welder	\$71.97	5D	3F		View
Skagit	Dredge Workers	Leverman, Hydraulic	\$73.41	5D	3F		View
Skagit	Dredge Workers	Mates	\$70.62	5D	3F		View
Skagit	Dredge Workers	Oiler	\$70.07	5D	3F		View
Skagit	Drywall Applicator	Journey Level	\$64.94	5D	1H		View
Skagit	Drywall Tapers	Journey Level	\$65.31	5P	1E		View
Skagit	Electrical Fixture Maintenance Workers	Journey Level	\$21.48		1		View
Skagit	Electricians - Inside	Cable Splicer	\$79.57	7H	1E		View
Skagit	Electricians - Inside	Construction Stock Person	\$37.59	7H	1D		View
Skagit	Electricians - Inside	Journey Level	\$74.63	7H	1E		View

Skagit	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>		View
Skagit	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>		View
Skagit	Electricians - Powerline Construction	Cable Splicer	\$82.39	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Certified Line Welder	\$75.64	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Groundperson	\$49.17	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$75.64	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Journey Level Lineperson	\$75.64	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Line Equipment Operator	\$64.54	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Meter Installer	\$49.17	<u>5A</u>	<u>4D</u>	<u>8W</u>	View
Skagit	Electricians - Powerline Construction	Pole Sprayer	\$75.64	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Powderperson	\$56.49	<u>5A</u>	<u>4D</u>		View
Skagit	Electronic Technicians	Electronic Technicians Journey Level	\$47.28	<u>5B</u>	<u>1B</u>		View
Skagit	Elevator Constructors	Mechanic	\$97.31	<u>7D</u>	<u>4A</u>		View
Skagit	Elevator Constructors	Mechanic In Charge	\$105.06	<u>7D</u>	<u>4A</u>		View
Skagit	Fabricated Precast Concrete Products	Journey Level	\$13.50		<u>1</u>		View
Skagit	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>		View
Skagit	Fence Erectors	Fence Erector	\$44.40	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Fence Erectors	Fence Laborer	\$44.40	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Flaggers	Journey Level	\$44.40	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Glaziers	Journey Level	\$69.26	<u>7L</u>	<u>1Y</u>		View
Skagit	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$79.43	<u>5J</u>	<u>4H</u>		View
Skagit	Heating Equipment Mechanics	Mechanic	\$80.02	<u>7F</u>	<u>1E</u>		View
Skagit	Hod Carriers & Mason Tenders	Journey Level	\$54.01	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Industrial Power Vacuum Cleaner	Journey Level	\$13.50		<u>1</u>		View
Skagit	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$13.50		<u>1</u>		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$13.50		<u>1</u>		View
Skagit	Inspection/Cleaning/Sealing Of	Head Operator	\$13.50		<u>1</u>		View

	Sewer & Water Systems By Remote Control						
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$13.50		1		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$13.50		1		View
Skagit	Insulation Applicators	Journey Level	\$64.94	7A	4C		View
Skagit	Ironworkers	Journeyman	\$75.23	7N	10		View
Skagit	Laborers	Air, Gas Or Electric Vibrating Screed	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Airtrac Drill Operator	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Ballast Regular Machine	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Batch Weighman	\$44.40	7A	4V	8Y	View
Skagit	Laborers	Brick Pavers	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Brush Cutter	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Brush Hog Feeder	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Burner	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Caisson Worker	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Carpenter Tender	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Cement Dumper-paving	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Cement Finisher Tender	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Change House Or Dry Shack	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Chipping Gun (30 Lbs. And Over)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Chipping Gun (Under 30 Lbs.)	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Choker Setter	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Chuck Tender	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Clary Power Spreader	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Clean-up Laborer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Concrete Dumper/Chute Operator	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Concrete Form Stripper	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Concrete Placement Crew	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Concrete Saw Operator/Core Driller	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Crusher Feeder	\$44.40	7A	4V	8Y	View
Skagit	Laborers	Curing Laborer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Ditch Digger	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Diver	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Drill Operator (Hydraulic, Diamond)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Dry Stack Walls	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Dump Person	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Epoxy Technician	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Erosion Control Worker	\$52.39	7A	4V	8Y	View

Skagit	Laborers	Faller & Bucker Chain Saw	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Fine Graders	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Firewatch	\$44.40	7A	4V	8Y	View
Skagit	Laborers	Form Setter	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Gabian Basket Builders	\$52.39	7A	4V	8Y	View
Skagit	Laborers	General Laborer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Grade Checker & Transit Person	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Grinders	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Grout Machine Tender	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Groutmen (Pressure) Including Post Tension Beams	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Guardrail Erector	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level A)	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level B)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level C)	\$52.39	7A	4V	8Y	View
Skagit	Laborers	High Scaler	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Jackhammer	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Laserbeam Operator	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Maintenance Person	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Manhole Builder-Mudman	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Material Yard Person	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Motorman-Dinky Locomotive	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Nozzleman (Concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Blaster, Vacuum Blaster)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pavement Breaker	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pilot Car	\$44.40	7A	4V	8Y	View
Skagit	Laborers	Pipe Layer Lead	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Pipe Layer/Tailor	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pipe Pot Tender	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pipe Reliner	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pipe Wrapper	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Pot Tender	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Powderman	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Powderman's Helper	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Power Jacks	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Railroad Spike Puller - Power	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Raker - Asphalt	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Re-timberman	\$54.01	7A	4V	8Y	View
Skagit	Laborers	Remote Equipment Operator	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Rigger/Signal Person	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Rip Rap Person	\$52.39	7A	4V	8Y	View

Skagit	Laborers	Rivet Buster	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Rodder	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Scaffold Erector	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Scale Person	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Sloper (Over 20")	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Sloper Sprayer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Spreader (Concrete)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Stake Hopper	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Stock Piler	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Swinging Stage/Boatswain Chair	\$44.40	7A	4V	8Y	View
Skagit	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Tamper (Multiple & Self-propelled)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Toolroom Person (at Jobsite)	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Topper	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Track Laborer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Track Liner (Power)	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Traffic Control Laborer	\$47.48	7A	4V	9C	View
Skagit	Laborers	Traffic Control Supervisor	\$50.31	7A	4V	9C	View
Skagit	Laborers	Truck Spotter	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Tugger Operator	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$129.67	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$134.70	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$138.38	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$144.08	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$146.20	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$151.30	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$153.20	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$155.20	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$157.20	7A	4V	9B	View
Skagit	Laborers	Tunnel Work-Guage and Lock Tender	\$54.11	7A	4V	8Y	View
Skagit	Laborers	Tunnel Work-Miner	\$54.11	7A	4V	8Y	View
Skagit	Laborers	Vibrator	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Vinyl Seamer	\$52.39	7A	4V	8Y	View
Skagit	Laborers	Watchman	\$40.36	7A	4V	8Y	View
Skagit	Laborers	Welder	\$53.35	7A	4V	8Y	View

Skagit	Laborers	Well Point Laborer	\$53.35	7A	4V	8Y	View
Skagit	Laborers	Window Washer/Cleaner	\$40.36	7A	4V	8Y	View
Skagit	Laborers - Underground Sewer & Water	General Laborer & Topman	\$52.39	7A	4V	8Y	View
Skagit	Laborers - Underground Sewer & Water	Pipe Layer	\$53.35	7A	4V	8Y	View
Skagit	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	\$40.36	7A	4V	8Y	View
Skagit	Landscape Construction	Landscape Operator	\$72.28	7A	3K	8X	View
Skagit	Landscape Maintenance	Groundskeeper	\$14.18		1		View
Skagit	Lathers	Journey Level	\$64.94	5D	1H		View
Skagit	Marble Setters	Journey Level	\$60.57	7E	1N		View
Skagit	Metal Fabrication (In Shop)	Fitter	\$15.16		1		View
Skagit	Metal Fabrication (In Shop)	Laborer	\$13.50		1		View
Skagit	Metal Fabrication (In Shop)	Machine Operator	\$13.50		1		View
Skagit	Metal Fabrication (In Shop)	Painter	\$13.50		1		View
Skagit	Metal Fabrication (In Shop)	Welder	\$15.16		1		View
Skagit	Millwright	Journey Level	\$66.44	7A	4C		View
Skagit	Modular Buildings	Journey Level	\$13.50		1		View
Skagit	Painters	Journey Level	\$45.40	6Z	2B		View
Skagit	Pile Driver	Crew Tender	\$69.91	7A	4C		View
Skagit	Pile Driver	Crew Tender/Technician	\$69.91	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$80.76	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$85.76	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$89.76	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$94.76	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$97.26	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$102.26	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$104.26	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$106.26	7A	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$108.26	7A	4C		View
Skagit	Pile Driver	Journey Level	\$65.19	7A	4C		View
Skagit	Plasterers	Journey Level	\$61.67	7Q	1R		View

Skagit	Playground & Park Equipment Installers	Journey Level	\$13.50		1		View
Skagit	Plumbers & Pipefitters	Journey Level	\$77.97	5A	1G		View
Skagit	Power Equipment Operators	Asphalt Plant Operators	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Assistant Engineer	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Barrier Machine (zipper)	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Batch Plant Operator: concrete	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Bobcat	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Brooms	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Bump Cutter	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Cableways	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Chipper	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Compressor	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Concrete Finish Machine - Laser Screed	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Conveyors	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes friction: 200 tons and over	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8X	View

Skagit	Power Equipment Operators	Crusher	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Deck Engineer/Deck Winches (power)	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Derricks, On Building Work	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Dozers D-9 & Under	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Drilling Machine	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Gradechecker/Stakeman	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Guardrail Punch	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Horizontal/Directional Drill Locator	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Horizontal/Directional Drill Operator	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Hydralifts/Boom Trucks, 10 Tons And Under	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Loaders, Plant Feed	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Loaders: Elevating Type Belt	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Locomotives, All	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Material Transfer Device	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Motor Patrol Graders	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding	\$69.12	7A	3K	8X	View

		Operator					
Skagit	Power Equipment Operators	Outside Hoists (Elevators And Manlifts), Air Tuggers, Strato	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Pavement Breaker	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Posthole Digger, Mechanical	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Power Plant	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Pumps - Water	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Rigger and Bellman	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Rollagon	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Roller, Other Than Plant Mix	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Roto-mill, Roto-grinder	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Saws - Concrete	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Scrapers - Concrete & Carry All	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Service Engineers - Equipment	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Shotcrete/Gunite Equipment	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$74.99	7A	3K	8X	View

Skagit	Power Equipment Operators	Slipform Pavers	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Spreader, Topsider & Screedman	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Subgrader Trimmer	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Tower Bucket Elevators	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators	Transporters, All Track Or Truck Type	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Trenching Machines	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Truck Crane Oiler/Driver Under 100 Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators	Truck Mount Portable Conveyor	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators	Welder	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators	Wheel Tractors, Farmall Type	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators	Yo Yo Pay Dozer	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Brooms	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cableways	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Chipper	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Compressor	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine - Laser Screed	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42	\$73.49	7A	3K	8X	View

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Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes friction: 200 tons and over	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Crusher	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/Deck Winches (power)	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Gradechecker/Stakeman	\$69.12	7A	3K	8X	View

	Underground Sewer & Water						
Skagit	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Locator	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Operator	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/Boom Trucks, 10 Tons And Under	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (Elevators And Manlifts), Air Tuggers, Strato	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$72.84	7A	3K	8X	View

Skagit	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger and Bellman	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shotcrete/Gunite Equipment	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators-	Slipform Pavers	\$73.49	7A	3K	8X	View

	Underground Sewer & Water						
Skagit	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$74.22	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$74.99	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$75.72	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/Driver Under 100 Tons	\$72.28	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$72.84	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Welder	\$73.49	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$69.12	7A	3K	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$72.84	7A	3K	8X	View
Skagit	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$53.10	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Spray Person	\$50.40	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$53.10	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer	\$47.48	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$36.10	5A	4A		View
Skagit	Refrigeration & Air Conditioning Mechanics	Journey Level	\$77.96	5A	1G		View
Skagit	Residential Brick Mason	Journey Level	\$32.30		1		View
Skagit	Residential Carpenters	Journey Level	\$32.48		1		View
Skagit	Residential Cement Masons	Journey Level	\$20.67		1		View
Skagit	Residential Drywall Applicators	Journey Level	\$48.17	7A	4C		View
Skagit	Residential Drywall Tapers	Journey Level	\$34.10		1		View
Skagit	Residential Electricians	Journey Level	\$41.43	7F	1D		View
Skagit	Residential Glaziers	Journey Level	\$45.90	7L	1H		View
Skagit	Residential Insulation Applicators	Journey Level	\$23.91		1		View
Skagit	Residential Laborers	Journey Level	\$23.64		1		View

Skagit	Residential Marble Setters	Journey Level	\$32.30		1		View
Skagit	Residential Painters	Journey Level	\$24.50		1		View
Skagit	Residential Plumbers & Pipefitters	Journey Level	\$77.97	5A	1G		View
Skagit	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$45.22	5A	1G		View
Skagit	Residential Sheet Metal Workers	Journey Level	\$24.60		1		View
Skagit	Residential Soft Floor Layers	Journey Level	\$30.31		1		View
Skagit	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$32.87		1		View
Skagit	Residential Stone Masons	Journey Level	\$32.30		1		View
Skagit	Residential Terrazzo Workers	Journey Level	\$32.30		1		View
Skagit	Residential Terrazzo/Tile Finishers	Journey Level	\$35.85		1		View
Skagit	Residential Tile Setters	Journey Level	\$32.30		1		View
Skagit	Roofers	Journey Level	\$55.55	5A	3H		View
Skagit	Roofers	Using Irritable Bituminous Materials	\$58.55	5A	3H		View
Skagit	Sheet Metal Workers	Journey Level (Field or Shop)	\$80.02	7F	1E		View
Skagit	Shipbuilding & Ship Repair	New Construction Boilermaker	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Carpenter	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Crane Operator	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Electrician	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$79.43	5J	4H		View
Skagit	Shipbuilding & Ship Repair	New Construction Laborer	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Machinist	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Painter	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Pipefitter	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Rigger	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Shipfitter	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$36.36	7V	1		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$46.15	7X	4J		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$44.95	7X	4J		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$45.06	7Y	4K		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Electrician	\$47.42	7X	4J		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$79.43	5J	4H		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Laborer	\$46.15	7X	4J		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Machinist	\$46.15	7X	4J		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$45.06	7Y	4K		View

Skagit	Shipbuilding & Ship Repair	Ship Repair Painter	\$46.15	<u>7X</u>	<u>4J</u>		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$46.15	<u>7X</u>	<u>4J</u>		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Rigger	\$46.15	<u>7X</u>	<u>4J</u>		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$46.15	<u>7X</u>	<u>4J</u>		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$44.95	<u>7X</u>	<u>4J</u>		View
Skagit	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$45.06	<u>7Y</u>	<u>4K</u>		View
Skagit	Sign Makers & Installers (Electrical)	Journey Level	\$16.03		<u>1</u>		View
Skagit	Sign Makers & Installers (Non-Electrical)	Journey Level	\$13.50		<u>1</u>		View
Skagit	Soft Floor Layers	Journey Level	\$51.07	<u>5A</u>	<u>3J</u>		View
Skagit	Solar Controls For Windows	Journey Level	\$13.50		<u>1</u>		View
Skagit	Sprinkler Fitters (Fire Protection)	Journey Level	\$84.39	<u>5C</u>	<u>1X</u>		View
Skagit	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.50		<u>1</u>		View
Skagit	Stone Masons	Journey Level	\$60.57	<u>7E</u>	<u>1N</u>		View
Skagit	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>		View
Skagit	Surveyors	Assistant Construction Site Surveyor	\$72.28	<u>7A</u>	<u>3K</u>	<u>8X</u>	View
Skagit	Surveyors	Chainman	\$69.12	<u>7A</u>	<u>3K</u>	<u>8X</u>	View
Skagit	Surveyors	Construction Site Surveyor	\$73.49	<u>7A</u>	<u>3K</u>	<u>8X</u>	View
Skagit	Telecommunication Technicians	Telecom Technician Journey Level	\$47.28	<u>5B</u>	<u>1B</u>		View
Skagit	Telephone Line Construction - Outside	Cable Splicer	\$41.81	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.53	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Installer (Repairer)	\$40.09	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.81	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.99	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.81	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$38.92	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Telephone Lineperson	\$38.92	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Television Groundperson	\$22.32	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.60	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Television System Technician	\$35.20	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Television Technician	\$31.67	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction -	Tree Trimmer	\$38.92	<u>5A</u>	<u>2B</u>		View

	Outside						
Skagit	Terrazzo Workers	Journey Level	\$55.71	<u>7E</u>	<u>1N</u>		View
Skagit	Tile Setters	Journey Level	\$55.71	<u>7E</u>	<u>1N</u>		View
Skagit	Tile, Marble & Terrazzo Finishers	Finisher	\$46.54	<u>7E</u>	<u>1N</u>		View
Skagit	Traffic Control Stripers	Journey Level	\$49.13	<u>7A</u>	<u>1K</u>		View
Skagit	Truck Drivers	Asphalt Mix Over 16 Yards	\$63.80	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Truck Drivers	Asphalt Mix To 16 Yards	\$62.96	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Truck Drivers	Dump Truck	\$62.96	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Truck Drivers	Dump Truck & Trailer	\$63.80	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Truck Drivers	Other Trucks	\$63.80	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Truck Drivers - Ready Mix	Transit Mix	\$63.80	<u>5D</u>	<u>4Y</u>	<u>8L</u>	View
Skagit	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$13.50		<u>1</u>		View
Skagit	Well Drillers & Irrigation Pump Installers	Oiler	\$13.50		<u>1</u>		View
Skagit	Well Drillers & Irrigation Pump Installers	Well Driller	\$13.50		<u>1</u>		View

Benefit Code Key – Effective 9/2/2020 thru 3/2/2021

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3.
 - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
 - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
 - J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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

- I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

- K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.
- M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.
- N. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.
- O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.
- P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.
- Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- R. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- S. All hours worked on Saturdays and Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.
- T. The first two (2) hours of overtime for hours worked Monday-Friday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.
- U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, 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 work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- W. 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.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- X. 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. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

4. Y. 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. 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.

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.

ZOvertime 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. 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. 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. Work performed on Sundays may be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- 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).

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Holiday Codes Continued

5. P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
- 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.

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Holiday Codes Continued

7. B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- 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.

Holiday Codes Continued

7. M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

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Holiday Codes Continued

7. Z. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8) Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)
- C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)
- D. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.
- E. Holidays: the day before New Years's Day, New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day. (12)

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.
- 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.

Note Codes Continued

8. T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.
- X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.
- When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)
- Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.
- Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

Note Codes Continued

8. Z. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

9. A. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid \$0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

- (A) – 130’ to 199’ – \$0.50 per hour over their classification rate.
- (B) – 200’ to 299’ – \$0.80 per hour over their classification rate.
- (C) – 300’ and over – \$1.00 per hour over their classification rate.

- B. 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.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

- C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

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.

Note Codes Continued

- 9. D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.
- E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. 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.
- F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

APPENDIX C

Construction Contract and Contract Bond-Informational Only

CONSTRUCTION CONTRACT AGREEMENT

THIS AGREEMENT, effective upon the date of mutual execution, is made and entered into between Skagit County, Washington, and _____, hereinafter called the Contractor.

WITNESSETH:

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

- I. The Contractor shall do all work and furnish all tools, materials, equipment, and transportation required for the construction of **Pressentin Park Side Channel Restoration and Recreational Improvements Project #RCO 16-1730** in accordance with and as described in the attached plans and specifications and the Washington State Department of Transportation *Standard Specifications for Road, Bridge, and Municipal Construction M 41-10 2020 edition*, which are by this reference incorporated herein and made a part hereof, and shall perform any changes to the work in accord with the Contract Documents.
- II. The Contractor shall provide and bear the expense of all equipment, work, and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof and shall guarantee said materials and work for a period of one year after substantial completion of this contract, except as may be modified by the plans, specifications and/or contract documents.
- III. Skagit County, Washington, hereby promises and agrees with the Contractor to retain and does retain the Contractor to provide the materials and to do and cause to be done the above-described work and to complete and finish the same 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 attached specifications and the schedule of prices bid and hereto attached, at the time and in the manner and upon the conditions provided for in this contract.
- IV. The Contractor for himself/herself, and for his/her heirs, executors, administrators, successors, and assigns, does hereby agree to full performance of all covenants required of the Contractor in the contract.
- V. It is further provided that no liability shall attach to Skagit County by reason of entering into this contract, except as provided herein.

IN WITNESS WHEREOF the Contractor has executed this instrument on the day and year first below written, and the Authorized Official has caused this instrument to be executed by and in the name of Skagit County the day and year first above written.

CONTRACTOR

Signature _____

Mailing Address:

Printed _____

Title _____

Date _____

Telephone No. (____) ____-____

DATED this _____ day of _____, 2021.

**BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON**

Lisa Janicki, Chair

Peter Browning, Commissioner

Ron Wesen, Commissioner

Attest:

Clerk of the Board

For contracts under \$5,000:
Authorization per Resolution R20030146

Recommended:

County Administrator

Department Head

Approved as to form:

Civil Deputy Prosecuting Attorney

Approved as to indemnification:

Risk Manager

Approved as to budget:

Budget & Finance Director

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS, that Skagit County, a Municipal Corporation of Washington, has awarded

_____ of _____, as Principal, and _____ as Surety, are jointly and severally held and bound unto the County of Skagit in the penal sum of _____ (\$_____), dollars, for the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, and assigns, and successors and assigns, firmly by these presents.

THE CONDITION of this bond is such that whereas, on the _____ day of _____ A.D., 2021, the said Principal, herein, executed a certain contract with the County of Skagit by the items, conditions and provisions of which contract the said _____, Principal, herein agree to furnish all material and do certain work, to wit: That _____ will undertake and complete the construction of

**Pressentin Park Side Channel Restoration and Recreational Improvements
Project #RCO 16-1730**

according to the maps, plans and specifications made a part of said contract, which contract as so executed, is hereunto attached, is now referred to and by reference is incorporated herein and made a part hereof as fully for all purposes as if here set forth at length. The bond shall cover all approved change orders as if they were in the original contract.

NOW, THEREFORE, if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of said contract in all respects and shall well and truly and fully do and perform all matters and things by _____ (principal) undertaken to be performed under said contract, upon the terms proposed therein, and within the time prescribed therein, and until the same is accepted, and shall pay all laborers, mechanics, subcontractors and material men, and all persons who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and shall in all respects faithfully

perform said contract according to law, then this obligation to be void, otherwise to remain in full force and effect.

WITNESS our hands this _____ day of _____, 2021.

(Principal)

Attorney-in-Fact, Surety

Name and Address
Local Office of Agent

APPROVED AS TO FORM
RICH WEYRICH
Skagit County Prosecuting Attorney

APPROVED AS TO FORM
DONNIE LAPLANTE
Skagit County Risk Manager

BY: _____
Approving Authority

DATE: _____, 2021

SURETY BOND NUMBER

CONTRACT NUMBER

APPENDIX D

Proposal Forms-Informational Only

SKAGIT COUNTY



Parks and Recreation

Proposal For Bidding Purposes

For the Construction of:

**Pressentin Park Side Channel Restoration
and Recreational Improvements Project
#RCO 16-1730**



**SKAGIT COUNTY
Skagit County Parks and Recreation
1730 Continental Place
Mount Vernon, WA 98273**

BID PROPOSAL

**Pressentin Park Side Channel Restoration
and Recreational Improvements Project #RCO 16-1730**

Skagit County, Washington

2021

**** ENTIRE PROPOSAL TO BE RETURNED AS YOUR BID PACKAGE ****

All bid envelopes must be plainly marked on the outside, **“Sealed Bid: Pressentin Park Side Channel Restoration and Recreational Improvements Project”**

BID DUE DATE AND TIME: Monday, February 8, 2021 at 3:30 p.m.

Late and/or incomplete bids will not be considered. Oral, telephonic, telegraphic, electronic, or faxed proposals will not be accepted.

Sealed Bids will be accepted at the following location by one of the following delivery methods:

Bids May be Hand-Delivered or Mailed to:

Skagit County Commissioners Office

Attn: Reception Desk

**Sealed Bid: Pressentin Park Side Channel and Restoration and
Recreational Improvements**

1800 Continental Place

Mount Vernon, WA 98273

**FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN
REJECTION OF THE PROPOSAL AS NON-RESPONSIVE**

CONDITION OF AWARD:

It is the intent of Skagit County to award a contract to the low responsive and responsible bidder. All terms and conditions listed in the Contract Provisions and Specifications apply to this condition.

MANDATORY BIDDER CRITERIA:

Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by Skagit County to submit documentation demonstrating compliance with the criteria. The bidder must:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal.
2. Have a current Washington Unified Business Identifier (UBI) number.
3. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW. Not applicable to sole proprietors if the owner performs work himself/herself.
4. Have a Washington Employment Security Department number (ESD), as required in Title 50 RCW **(and, if the lowest responsive and responsible bidder, provide documentation from ESD in the form of a letter or statement within 24 hours of submitting bid);**
5. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
6. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3) and;
7. Not be excluded or suspended from bidding on any public works contract under federal laws.

SCHEDULE:

Contractor shall not commence work until notice to proceed has been given by Skagit County; this occurs after the Contract has been executed by Skagit County Board of County Commissioners.

PAYMENT:

Invoices can be submitted after work is performed. Payment is made when the Contractor has filed his/her "Intent to Pay Prevailing Wages" with the Washington State Department of Labor and Industries. Final payment is made when the Contractor has filed his/her "Affidavit of Paying Prevailing Wages".

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

This certifies that the undersigned has examined the entire bid proposal and contract provisions and specifications for the:

**Pressentin Park Side Channel Restoration
and Recreational Improvements Project #RCO 16-1730**

and the contract governing the work embraced in this project, and the method by which payment will be made for said work, is understood. The undersigned hereby proposes to undertake and complete the work, or as much thereof as can be completed with the money available in accordance with the said description of work and contract, and the following schedule of rates and prices. Bidder acknowledges all requirements and signed all certificates contained herein. Bidder agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the special provisions for this project.

Please use ink, print legibly, and initial and date any changes, erasures, or cross-outs. All unit prices, when relevant, are mandatory and shall control.

Project		Pressentin Park Side Channel Restoration and Recreational Improvements Project				Date: _____	
SCHEDULE "H" -- HABITAT ELEMENTS							
THE CONTRACTOR SHALL INCLUDE FOR COMPENSATION THE AMOUNT OF ANY TAXES PAID IN THE VARIOUS UNIT BID PRICES IN ACCORDANCE WITH SECTION 1-07.2(1)							
BID ITEM	SPEC REF	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	APPROX. QUANTITY	UNIT PRICE	COST
H-001	1-09.7	0001	MOBILIZATION	LS	1		
H-002	1-04.4(1)	7728	MINOR CHANGE	DOL	EST	1	\$10,000.00
H-003	1-05.4	7038 GSP	HABITAT SURVEYING	LS	1		
H-004	1-.05.18 SP	SPECIAL	HABITAT RECORD DRAWINGS (MINIMUM BID \$4,000)	LS	1		
H-005	1-07.15(1)	7736	SPCC PLAN	LS	1		
H-006	1-07.16(4)	SPECIAL	ARCHAEOLOGICAL AND HISTORICAL SALVAGE	DOL	EST	1	\$30,000.00
H-007	1-10.05(1)	6971 GSP	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1		
H-008	2-01.5 SP	SPECIAL	CLEARING	AC	3		
H-009	2-01.5	0025	CLEARING AND GRUBBING	AC	5		
H-010	2-03.5	1035	CHANNEL EXCAVATION	CY	34,300		
H-011	2-03.5	0400	CHANNEL EXCAVATION INCL. HAUL	CY	12,100		
H-012	2-03.5 SP	SPECIAL	EMBANKMENT COMPACTION - TERRACE CAP NEAR DAY USE AREA	CY	986		
H-013	2-03.5 SP	SPECIAL	EMBANKMENT COMPACTION - ORCHARD GRADING (EAST)	CY	3,075		
H-014	2-03.5 SP	SPECIAL	EMBANKMENT COMPACTION - MEADOW GRADING (WEST)	CY	16,102		
H-015	2-03.5 SP	SPECIAL	EMBANKMENT COMPACTION - DAY USE AREA	CY	1,751		
H-016	6-20.5 SP	SPECIAL	INSTALL PEDESTRIAN BRIDGE #1 (83.5 FT)	LS	1		
H-017	6-20.5 SP	SPECIAL	INSTALL VEHICLE BRIDGE #2 (78.5 FT)	LS	1		
H-018	6-20.5 SP	SPECIAL	INSTALL PEDESTRIAN BRIDGE #3 (58.5 FT)	LS	1		
H-019	6-21.5 SP	SPECIAL	FURNISH AND INSTALL GRS ABUTMENTS FOR PEDESTRIAN BRIDGE #1	LS	1		

BID ITEM	SPEC REF	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	APPROX. QUANTITY	UNIT PRICE	COST	
H-020	6-21.5 SP	SPECIAL	FURNISH AND INSTALL GRS ABUTMENTS FOR VEHICLE BRIDGE #2	LS	1			
H-021	6-21.5 SP	SPECIAL	FURNISH AND INSTALL GRS ABUTMENTS FOR PEDESTRIAN BRIDGE #3	LS	1			
H-022	8-01.5	6630	HIGH VISIBILITY FENCE	LF	80			
H-023	8-01.5	6490	EROSION CONTROL AND WATER POLLUTION PREVENTION	LS	1			
H-024	8-01.5 SP	SPECIAL	HOG FUEL	CY	2,135			
H-025	8-02.5 SP	SPECIAL	SEEDING, FERTILIZING, AND MULCHING - EROSION CONTROL SEEDING	AC	6.32			
H-026	8-05.5 SP	SPECIAL	INLET ELS TYPE 1, N1-1 AND N1-2	EA	2			
H-027	8-05.5 SP	SPECIAL	INLET ELS TYPE 1, N1-3 AND N1-4	EA	2			
H-028	8-05.5 SP	SPECIAL	INLET ELS TYPE 2	EA	4			
H-029	8-05.5 SP	SPECIAL	HABITAT ELS TYPE 1	EA	6			
H-030	8-05.5 SP	SPECIAL	HABITAT ELS TYPE 2	EA	31			
H-031	8-05.5 SP	SPECIAL	HABITAT ELS TYPE 3	EA	14			
H-032	8-05.5 SP	SPECIAL	OUTLET ELS	EA	1			
SubTotal Schedule H:							\$	-

Project Presentin Park Side Channel
Restoration and Recreational
Improvements Project

Date: _____

SCHEDULE "R" -- RECREATION ELEMENTS

THE CONTRACTOR SHALL INCLUDE FOR COMPENSATION THE AMOUNT OF ANY
TAXES PAID IN THE VARIOUS UNIT BID PRICES IN ACCORDANCE WITH SECTION 1-07.2(1)

BID ITEM	SPEC REF	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	APPROX. QUANTITY	UNIT PRICE	COST
R-001	1-09.7	0001	MOBILIZATION	LS	1		
R-002	1-04.4(1)	7728	MINOR CHANGE	DOL	EST	1	\$10,000.00
R-003	1-05.4	7038 GSP	RECREATION SURVEYING	LS	1		
R-004	1-05.18 SP	SPECIAL	RECREATION RECORD DRAWINGS (MINIMUM BID \$4,000)	LS	1		
R-005	1-07.15(1)	7736	SPCC PLAN	LS	1		
R-006	2-03.5 SP	SPECIAL	EXCAVATION INCLUDING HAUL	CY	80		
R-007	2-03.5	0470	EMBANKMENT COMPACTION – RAISED GRASS TENT PADS	CY	20		
R-008	2-03.5	0470	EMBANKMENT COMPACTION – VEHICLE ACCESS ROADS AND TRAILS	CY	1,731		
R-009	2-12.5 SP	SPECIAL	HIGH VISIBILITY FENCE MATERIAL	SY	5,000		
R-010	2-12.5	7552	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	SY	130		
R-011	2-12.5	7550	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	SY	180		
R-012	4-04.5 SP	SPECIAL	CRUSHED SURFACING TOP COURSE: 3/8" – 0"	TON	1,500		
R-013	4-04.5	5120	CRUSHED SURFACING TOP COURSE (CSTC)	TON	98		
R-014	5-04.5	5767	HMA CL 1/2 IN PG PER TON	TON	41		
R-015	7-05.5 SP	SPECIAL	GRAVEL BACKFILL FOR DRYWELLS	CY	15.5		
R-016	7-09.5 SP	SPECIAL	1 1/2" POLYETHYLENE WATER SERVICE	LF	575		
R-017	7-09.5	3838	BLOWOFF ASSEMBLY	EA	2		
R-018	7-09.5 SP	SPECIAL	YARD HYDRANT	EA	1		
R-019	7-09.5	7017	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	CY	24		
R-020	8-01.5	6490	EROSION CONTROL AND WATER POLLUTION PREVENTION	LS	1		
R-021	8-02.3(2)B	SPECIAL	WEED AND PEST CONTROL PLAN	LS	1		
R-022	8-02.5	6414	SEEDING, FERTILIZING, AND MULCHING – PARK SEED MIX	AC	1.8		
R-023	8-02.5 SP	SPECIAL	ENGINEERED WOOD FIBER MULCH	CY	10		
R-024	8-04.5 SP	SPECIAL	CEMENT CONCRETE CURB	LF	49		
R-025	8-06.5 SP	SPECIAL	CEMENT CONCRETE PADS	SY	55		
R-026	8-14.5	7055	CEMENT CONCRETE SIDEWALK	SY	50		
R-027	8-19.5 SP	SPECIAL	2-3 MAN ROCK SCRAMBLE BOULDER	EA	14		
R-028	8-19.5 SP	SPECIAL	4-5 MAN ROCK SCRAMBLE BOULDER	EA	5		
R-029	8-19.5 SP	SPECIAL	TRAIL AND CAMPGROUND EDGE ROCKS	TON	23		

BID ITEM	SPEC REF	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	APPROX. QUANTITY	UNIT PRICE	COST	
R-030	8-19.5 SP	SPECIAL	MOUND SLIDE	EA	1			
R-031	8-19.5 SP	SPECIAL	BICYCLE RACK	EA	6			
SubTotal Schedule R:							\$	-

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

INFORMATIONAL ONLY

Project Presentin Park Side Channel and Recreational Improvements Project

Date _____

Construction in 2021 is predicated on obtaining funding and all applicable permits to allow construction in the allowable work period specified in this contract. Bid and unit prices shall be binding for the duration of the contract.

<u>COST ELEMENT</u>	<u>COST</u>
SUBTOTAL SCHEDULE H HABITAT ELEMENTS	<input type="text"/>
SUBTOTAL SCHEDULE R RECREATION ELEMENTS	<input type="text"/>
BASE BID PROJECT SUBTOTAL (SCH. H, R)	<input type="text"/>
<i>Sales Tax Rate @ 8.50% (PROJECT SUBTOTAL)</i>	<input type="text"/>
TOTAL BASE BID AMOUNT	<input type="text"/>
SUBTOTAL SCHEDULE R ALTERNATE A1 MEADOW PICNIC SHELTER	<input type="text"/>
<i>Sales Tax Rate @ 8.50% (ALTERNATE A1 SUBTOTAL)</i>	<input type="text"/>
ALTERNATE A1 SUBTOTAL (SCH. R)	<input type="text"/>
SUBTOTAL SCHEDULE R ALTERNATE A2 ORCHARD PICNIC SHELTER	<input type="text"/>
<i>Sales Tax Rate @ 8.50% (ALTERNATE A2 SUBTOTAL)</i>	<input type="text"/>
ALTERNATE A2 SUBTOTAL (SCH. R)	<input type="text"/>
TOTAL BASE BID PLUS ALTERNATE A1 PLUS ALTERNATE A2 AMOUNT	<input type="text"/>
TOTAL BASE BID PLUS ALTERNATE A1 AMOUNT	<input type="text"/>

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.

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

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

- CASHIER’S CHECK In the amount of \$ _____ Dollars
- CERTIFIED CHECK In the amount of \$ _____ Dollars
(Payable to Skagit County)
- PROPOSAL BOND In the amount of five percent (5%) of the total estimated contract amount.

If addendums have been issued:
Receipt is hereby acknowledged of Addendum(s) No.(s) _____

S
I
G
N



Signature of Authorized Official(s):

Firm Name: _____

Address: _____

Phone No. _____

State of Washington Contractor’s License No. _____

UBI No. _____ Employment Security Department No. _____

Note:

- (1) This proposal form is not transferable and any alteration of the firm’s name entered hereon without prior permission from the Skagit County will be cause for considering the proposal irregular and subsequent rejection of the bid.
- (2) Please refer to Section 1-02.6 of the Standard Specifications, “Preparation of Proposal”, or “Article 4” of the Instruction to Bidders for building construction jobs.

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

NON-COLLUSION DECLARATION

I, by signing the proposal on page 5, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

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

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll free 'hotline' Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Standard 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 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.

MUST ACCOMPANY EACH BID

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

NON-DISBARMENT CERTIFICATION

Are you on Comptroller General's list of Ineligible Contractors or list of parties excluded from Federal procurement or non-procurement programs? NO YES

Company Name: _____

Type of Business Corporation Partnership (general) Partnership (limited)
 Sole Proprietorship Limited Liability Company

FID #: _____

Company Address: _____

The County/State/Zip: _____

Phone: _____ Fax: _____

E-Mail: _____

Print Name of Signatory: _____

Print Title of Signatory: _____

MUST ACCOMPANY EACH BID

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

**SUBMIT THE
ENCLOSED PROPOSAL
BOND FORM WITH
YOUR PROPOSAL**

**USE OF OTHER FORMS
MAY SUBJECT YOUR
BID TO REJECTION**

INFORMATION ONLY

PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, That we, _____

_____ of

_____ as principal, and the

_____ a corporation duly

organized under the laws of the State of _____,

and authorized to do business in the State of Washington, as surety, are held and firmly bound unto Skagit County in the full and penal sum of five (5) percent of the total amount of the bid proposal of said principal for the work hereinafter described for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, firmly by these presents.

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

**Pressentin Park Side Channel Restoration
and Recreational Improvements Project #RCO 16-1730**

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

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

IN TESTIMONY WHEREOF, The principal and surety have caused these presents to be signed and sealed this _____ day of _____, 2021.

(Principal)

(Surety)

(Attorney-in-fact)



Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (**January 14, 2021**), 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.*

BIDDER'S QUALIFICATION CERTIFICATE

The undersigned hereby certifies and submits the following qualifications:

1. Name and Address _____

2. Washington Registration No. Expires: _____ / _____ / _____ (M/D/Y)

3. Number of years in contracting business under present name: _____ years

4. Particular types of construction work performed by your company:

5. List and provide a brief summary of several recent construction projects performed that meet the **SUPPLEMENTAL RESPONSIBLE BIDDER CRITERIA** as specified in this contract:

Project 1 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder

Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 2 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 3 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 4 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder

Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 5 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

6. Gross amount of contracts now in hand \$ _____

7. Bank Reference(s):

Name	Address	Account No.	Type
a.	_____	_____	_____
b.	_____	_____	_____

By: _____ Title: _____
(Authorized Signature)

8. Litigation Background (all projects in past 5 years resulting in partial or final settlement of the contract by arbitration or litigation in the courts):

Client	Contract Amount	Total \$ claims	Settlement \$
a.	_____	_____	_____
b.	_____	_____	_____

9. Choose one of the following:

- Bidder has Industrial Insurance coverage for employees working in Washington as required in Title 51 RCW; or
- Bidder is not required to have Industrial Insurance coverage as required in Title 512 RCW.

10. Choose one of the following:

- Bidder's Washington Employment Security Department registration number is _____; or
- Bidder is not required to register with the Washington Employment Security Department pursuant to Title 50 RCW.

11. Choose one of the following:

- Bidder' Washington State Department of Revenue registration number is: _____; or
- Bidder is not required to register with the Washington State Department of Revenue pursuant to Title 82 RCW.

I am the _____ (title) of Bidder, have authority to bind Bidder, am over the age of 18, and have personal knowledge of the facts set forth above.

Dated this _____ day of _____, 2021, at _____ (city),
_____ (state).

Signature _____

Print Name _____

Title _____

End of Bidder's Qualification Certificate

INFORMATIONAL ONLY

Local Agency Name
Local Agency Address

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name _____

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

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

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

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

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

APPENDIX E

Permits

**SKAGIT COUNTY PLANNING AND DEVELOPMENT SERVICES
DETERMINATION OF NONSIGNIFICANCE (DNS)**

For

Skagit County Parks and Recreation

Shoreline Substantial Development/Variance/Conditional Use Permit PL18-0095

Special Use Permit PL18-0186

Project Description: Skagit County Parks & Recreation proposes to make improvements to Pressentin Park in Marblemount. The project includes development of primitive camping sites, construction of a group picnic shelter, improvements to the existing trail system, and addition of interpretive elements along the trail system. The proposal also includes reconnection and restoration of a Skagit River side channel to improve fish habitat as well as construction of two pedestrian bridges and a vehicle bridge over the restored channel.

Proponent: Skagit County Parks & Recreation, Brian Adams, 1730 Continental Place, Mount Vernon, WA 98273. **Project Contact:** Skagit Fisheries Enhancement Group, Sue Madsen, PO Box 2497, Mount Vernon, WA 98273.

Project Location: 59924 State Route 20, within a portion of Sections 13 & 18, Township 35 North, Ranges 10 & 11 East, W.M., situated in Skagit County, Washington. Parcel Numbers: P45194, P46151, P45191, P46152, P130473, P124415, & P46175.

Lead Agency: Skagit County Planning & Development Services

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(C). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the date below. **Comments must be submitted by 4:30 p.m. July 6, 2018.**

You may appeal this threshold determination in accordance with Skagit County Code 14.06 and 16.12 and then by filing such with Skagit County Planning and Development Services within 14 calendar days after the date of the threshold determination. **Appeals must be submitted by: 4:30 p.m. July 20, 2018.**

Responsible Official: Director of Planning and Development Services

Contact Person: Leah Forbes, Senior Planner

Mailing Address: 1800 Continental Place, Mount Vernon, WA 98273

Phone: 360-416-1320

Date: 6/19/2018

Signature: Leah Forbes

On behalf of Hal Hart

Director, Planning & Development Services

Cc: WDOE, Public Works, NW Clean Air Agency, Fire Marshal, WDFW, Skagit River System Cooperative, DAHP, Upper Skagit Indian Tribe, Samish Indian Nation, USACOE, Applicant, WSDOT

Please publish: June 21, 2018



HYDRAULIC PROJECT APPROVAL

Washington Department of
Fish & Wildlife
PO Box 43234
Olympia, WA 98504-3234
(360) 902-2200

Issued Date: September 24, 2018
Project End Date: September 23, 2023

Permit Number: 2018-4-713+01
FPA/Public Notice Number: N/A
Application ID: 15676

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Skagit County Parks and Recreation Department ATTENTION: Brian Adams 1730 Continental Pl Mount Vernon, WA 98273	Skagit Fisheries Enhancement Group ATTENTION: Susan Madsen PO Box 2497 Mount Vernon, WA 98273

Project Name: Presentin Park Off Channel Habitat Enhancement and Park Improvements

Project Description: The project will re-connect an approximately 1/2-mile long side channel to the Skagit River. The project is located on county park lands and thus trail connectivity across the new channel will be maintained by constructing three small bridges - two to support pedestrian traffic and one for park maintenance vehicles. A series of gravel surfaced handicap accessible trails will be established leading to and along the north edge of the new channel. Interpretive elements will be placed along the new trail network, and a salmon viewing station will be constructed near the downstream end of an existing side channel. Other work will include native surface footpaths, a primitive bicycle camping area including tent pads and firepits, and improved parking facilities, including an information kiosk on the terrace above the floodplain.

PROVISIONS

1. **TIMING LIMITATION:** You may begin the non-wetted portions of this project immediately and you must complete by September 23, 2023. Work for this project below the ordinary high water in the Skagit River and in the wetted side channel must only occur between July 15 and August 15 of calendar years 2019 - 2023.
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, entitled Presentin Park Side Channel Restoration, pages 1-6 & 13-22, dated 12/28/2017, 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 construction.
3. 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.
4. Limit the removal of native bankline vegetation to the minimum amount needed to construct the project.
5. 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.
6. Work in the dry watercourse (when no natural flow is occurring in the channel, or when flow is diverted around the job site).
7. Design and construct the bridges to pass water, ice, large wood, and associated woody material and sediment likely to move under the bridges during the 100-year flood flows.
8. Locate the waterward face of all bridge elements including abutments, piers, pilings, sills, foundations, aprons, wing



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walls, and approach material landward of the ordinary high water line.

9. Use material for bridge approaches that is structurally stable and that will not harm fish life if it erodes into the water.
10. Upon completion of the project, restore the disturbed bed, banks, and riparian zone to preproject condition to the extent possible.
11. Completely remove any temporary fill before the end of the in-water timing window if the fill material could erode and deliver sediment-laden water into waters of the state.
12. To prevent fish from stranding, backfill trenches, depressions, and holes in the bed that may entrain fish during high water or wave action.
13. To minimize sediment delivery to the stream or stream channel, do not return in-stream flows to the work area until all in-channel work is completed and the bed and banks are stabilized.
14. Seed areas disturbed by construction activities with a native seed mix suitable for the site that has at least one quick-establishing plant species.
15. Replant the job site with the plant species composition and planting densities approved by the Washington Department of Fish and Wildlife.
16. 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.
17. Remove temporary erosion and sediment control methods after job site is stabilized or within three months of project completion, whichever is sooner.

LOCATION #1:		Site Name: Marblemount Slough 60060 SR 20, Marblemount, WA 98267				
WORK START:		September 24, 2018		WORK END:		September 23, 2023
<u>WRIA</u>		<u>Waterbody:</u>			<u>Tributary to:</u>	
04 - Skagit Upper		Unnamed Side Channel (lb)			Sauk River	
<u>1/4 SEC:</u>	<u>Section:</u>	<u>Township:</u>	<u>Range:</u>	<u>Latitude:</u>	<u>Longitude:</u>	<u>County:</u>
	18	35 N	11 E	48.524069	-121.43555	Skagit
<u>Location #1 Driving Directions</u>						

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.



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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.

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. 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. 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 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, and the requestor's signature. Send your written request 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. You should allow up to 45 days for the department to process your request.



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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.

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, PO Box 43234, Olympia, Washington 98504-3234; 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 may conduct an informal hearing or review 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, PO Box 43234, Olympia, Washington 98504-3234; 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.



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FPA/Public Notice Number: N/A
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Habitat Biologist

Robert.Warinner@dfw.wa.gov

Bob Warinner

360-466-4345, Ext:252

A handwritten signature in blue ink, appearing to read "R. Warinner".

for Director

WDFW



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SEATTLE DISTRICT
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

May 19, 2019

Mr. Brian Adams
Skagit County Parks and Recreation
1730 Continental Place
Mount Vernon, Washington 98273

Reference: NWS-2017-949
Skagit County Parks and
Recreation
(Pressentin Creek
Restoration)

Dear Mr. Adams:

We have reviewed your application to create in-water habitat restoration involving re-connecting a 0.5-mile long relict side channel, removing up to 0.27-acres of depressional wetlands to create 0.27 acre bench along the new channel, and revegetating the site with native riparian vegetation. The restoration work would occur within wetlands adjacent to and within Skagit River at Marblemount, Skagit County, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 27, Aquatic Habitat Restoration, Enhancement, and Establishment Activities (Federal Register January 6, 2017, Vol. 82, No. 4), authorizes your proposal as depicted on the enclosed drawings dated September 2017.

In order for this authorization to be valid, you must ensure the work is performed in accordance with the enclosed *NWP 27, Terms and Conditions* and the following special conditions:

- a. 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 permits, or ESA Section 7 consultation Biological Opinion (BO) with non-discretionary “incidental take” provisions with which you must comply). The Habitat Restoration Program Limit 8 BO prepared by the National Marine Fisheries Service (NMFS) dated February 28, 2007, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with the specified “incidental take” in the BO (NMFS Reference Number 2006/05601). 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.

b. Incidents where any individuals of fish species, marine mammals and/or sea turtles listed by National Oceanic and Atmospheric Administration Fisheries (NOAA Fisheries) under the Endangered Species Act appear to be injured or killed as a result of discharges of dredged or fill material into waters of the U.S. or structures or work in navigable waters of the U.S. authorized by this Nationwide Permit verification shall be reported to NOAA Fisheries, Office of Protected Resources at (301) 713-1401 and the Regulatory Office of the Seattle District of the U.S. Army Corps of Engineers at (206) 764-3495. The finder should leave the animal alone, make note of any circumstances likely causing the death or injury, note the location and number of individuals involved and, if possible, take photographs. Adult animals should not be disturbed unless circumstances arise where they are obviously injured or killed by discharge exposure or some unnatural cause. The finder may be asked to carry out instructions provided by NOAA Fisheries to collect specimens or take other measures to ensure that evidence intrinsic to the specimen is preserved.

c. In order to meet the requirements of the Endangered Species Act (ESA) 2008 Fish Passage and Restoration Programmatic Consultation (U.S. Fish and Wildlife Service (USFWS) Reference Number 1341-2008-FWS-#F-0209), you must comply with the conditions included in the Specific Project Information Form, dated . If you cannot comply with the terms and conditions of this programmatic consultation, you must, prior to commencing construction, contact the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch for an individual consultation in accordance with the requirements of the ESA.

d. In order to meet the requirements of the Endangered Species Act you may conduct the authorized in-water activities during the period from July 15 through August in any year this permit is valid. You shall not conduct any in-water work authorized by this permit during the period from August 16 through July 14 in any year this permit is valid.

e. You must submit a cultural resources monitoring report that must be reviewed and approved by the Corps prior to commencing any ground disturbing activities.

We have reviewed your project pursuant to the requirements of the Endangered Species Act, the Magnuson-Stevens Fishery Conservation and Management Act and the National Historic

Preservation Act. We have determined this project complies with the requirements of these laws provided you comply with all of the permit general and special conditions.

Please note that National General Condition 21, *Discovery of Previously Unknown Remains and Artifacts*, found in the *Nationwide Permit Terms and Conditions* enclosure, details procedures that must be followed should an inadvertent discovery occur. You must ensure that you comply with this condition during the construction of your project.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification (WQC) requirements and Coastal Zone Management (CZM) consistency determination response for this NWP. No further coordination with Ecology for WQC and CZM is required.

You have not requested a jurisdictional determination for this proposed project. If you believe the U.S. Army Corps of Engineers does not have jurisdiction over all or portions of your project you may request a preliminary or approved jurisdictional determination (JD). If one is requested, please be aware that we may require the submittal of additional information to complete the JD and work authorized in this letter may not occur until the JD has been completed.

Our verification of this NWP authorization is valid until March 18, 2022, unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date and you have commenced or are under contract to commence this activity before March 18, 2022, you will have until March 18, 2023, to complete the activity under the enclosed terms and conditions of this NWP. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act. You must also obtain all local, State, and other Federal permits that apply to this project.

Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit*. 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. These documents and information about our program are 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 ronald.j.wilcox@usace.army.mil or (206) 316-3893.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Wilcox". The signature is written in a cursive style with a large initial "R".

Ron Wilcox, Senior Project Manager
Regulatory Branch

Enclosures

NOTICE OF DECISION

BEFORE THE SKAGIT COUNTY HEARING EXAMINER

- Applicant:** Skagit County Parks and Recreation
c/o Brian Adams
1730 Continental Place
Mount Vernon, WA 98273
- Contact:** Skagit Fisheries Enhancement Group
c/o Sue Madsen
P.O. Box 2497
Mount Vernon, WA 98273
- Request:** Shoreline Substantial Development Permit, PL18-0095;
Special Use Permit Modification, PL 18-0186
- Location:** Near the confluence of the Skagit and Cascade Rivers within the community of Marblemount, at 59924 State Route 20. The site is within the NE1/4 Sec. 13, T35N, R10E, and NW1/4 Sec. 18, T35N, R11E, W.M. Parcel #'s P45194, P46151, P45191, P46150, P46152, P46175, P130473, P124415.
- Shoreline Designation:** Rural (within a Shoreline of Statewide Significance)
- Summary of Proposal:** (1) To restore fish habitat by reconnecting a side channel to the Skagit River; (2) to improve camping sites, picnicking facilities and trails at Presentin Park.
- SEPA Compliance:** Determination of Non-Significance (DNS), dated June 19, 2018. No appeals.
- Public Hearing:** March 27, 2019. Testimony by Planning and Development Services (PDS) staff and applicant. Two members of the public testified.
- Decision/Date:** The application is approved, subject to conditions. April 5, 2019.
- Reconsideration/Appeal:** Reconsideration may be requested by filing with PDS within 5 days of this decision. Appeal is to the County Commissioners by filing with PDS within 5 days of this decision, or decision on reconsideration if applicable.
- Online Text:** The entire decision can be viewed at:
www.skagitcounty.net/hearingexaminer

FINDINGS OF FACT

1. Skagit County Parks and Recreation, in co-operation with the non-profit Skagit Fisheries Enhancement Group, seeks permission to reconnect a side channel to the Skagit River and to improve facilities at Pressentin Park in the community of Marblemount.

2. The project site is at 59924 State Route 20, within NE1/4 Sec.13, T35N, R10E, and NW1/4 Sec. 18, T35N, R11E, W.M. The shoreline environment is Rural. This portion of the Skagit River is a shoreline of statewide significance.

3. Pressentin Park is an existing county park near the confluence of the Skagit and Cascade Rivers. The unincorporated town of Marblemount is located north of the park. The area includes numerous small businesses and single family homes. The Skagit River forms the east, south and west boundaries of the park.

4. The park is popular with local residents for walking, fishing, birding, skiing and other recreational uses. A majority of the site is covered with native trees and shrubs. Portions are mowed and maintained. Numerous pedestrian trails have been permitted on site.

5. The primary goal of the present project is to reconnect a historic and now-isolated side channel to the main Skagit River. This will increase the amount of stable spawning habitat and winter floodplain rearing habitat for juvenile Chinook, steelhead, and other salmonid species in the upper Skagit River basin.

6. The inlet and outlet of the relic side channel have been largely filled with sediment over time. The channel is well preserved and generally surrounded by forest. Reconnection of the channel with river will involve removal of approximately 38,360 cubic yards of sediment that has been deposited over time. Approximately $\frac{3}{4}$ of the materials removed will be retained on site. Excavated soils will be used to construct approach ramps to bridges proposed across the reactivated channel and will be placed along the base of the high terrace on the west side of the park to create a ramp with slopes supporting ADA accessible trails. Excavated soils will also be spread on the northwest corner of the floodplain meadow to create a level surface for a picnic area and associated open grassy field. Any remaining excavated material will be hauled offsite for disposal at a nearby gravel pit.

7. Work within the historic side channel will include the installation of 8 engineered log structures to reduce velocity and provide habitat. The channel will be crossed by three bridges – two for pedestrians and one for access by county maintenance vehicles. These bridges will be made of pre-fabricated modular weathering steel.

8. Additional improvements to the park will include the installation of an informational kiosk in the parking area, an 1800-square-foot picnic shelter, camping pads and a small pad for a seasonal porta-potty. A water line with a hose bib will be installed at the picnic shelter. The impervious surface to be developed within the 100-year floodplain is approximately 45,826 square feet. New impervious surface will be offset by conversion of approximately 217,000 square feet (5 acres) of pasture to native floodplain forest.

9. Because of the time involved in acquiring permits, construction of the project will probably not occur until 2020. Restoration of the side channel will be undertaken first, with construction of the bridges at the same time. Reconnection with the Skagit River will occur during the fish window specified by resource agencies. Trail routes and interpretive elements in the park will be installed concurrent with side channel work. Installation of other features will occur as funding becomes available.

10. The project will improve access to the site and is expected to attract more visitors. The effect will be to enhance public access to the shoreline. All three of the new bridges will provide viewing opportunities to see salmon and steelhead in their natural habitat. The County has recently purchased contiguous Parcel P45194, an inactive commercial property formerly used as a restaurant. Adequate parking for the upgraded park is available in the existing gravel lot on P45194. An ADA accessible trail will connect the existing trail system to this parking lot. Dedicated parking for park visitors should reduce conflicts and congestion at adjacent local businesses.

11. The work area is separated from most of the nearby businesses and residences by a 200-foot-wide forested buffer. Existing vegetation between private property and the new side channel will be left intact to the extent feasible. Native trees and shrubs will be planted along the channel following construction. The only portion of the project visible from SR 20 will be the parking lot.

12. Based on professional evaluation, the final design results in a minimal increase in 100-year flood depths (0.6 inches), and does not expand the footprint of the 100-year flood which affects only undeveloped forested floodplain.

13. In the run-up to application for this project, two public meetings were held at the Marblemount Community Hall. In general, the attendees expressed support for the park and the project. Notice of Development Application was published, mailed and posted in May 2018, as required by law. No public comments were received.

14. Environmental review of the proposal was conducted and a Determination of Non-Significance (DNS) was issued on June 19, 2018. There were no appeals.

15. At the Hearing Examiner's hearing, two members of the public spoke. One favored the project for increasing fish habitat and for adding to public facilities that are in short supply locally. The other expressed concerns over the possibility of erosion across the river from the project. A project engineer testified that the diversion involved will reduce velocities in the main river channel and thus should not present a threat of increased erosion.

16. Consultation with State, Federal and tribal entities, and acquisition of numerous additional permits will be required for this project. The various approvals will satisfy the intent of the Critical Areas Ordinance. Comments from County departments on the proposal are reflected in conditions of approval.

17. The portions of this proposal that require modification of existing Special Use Permits (PL96-0035, PL02-0713) are the construction of a primitive campground and trailhead.

18. The County Staff analyzed the project under the local Shoreline Master Program and under the criteria for Special Use approval. They determined that, as conditioned, the proposal will be consistent with applicable shorelines policies and regulations and with applicable special use criteria. The Hearing Examiner concurs with these findings and adopts the same. The Staff Report is, by this reference, incorporated herein as though fully set forth.

19. The proposal is likewise consistent with policies of the Shoreline Management Act relating to Shorelines of Statewide Significance. Those policies call for recognizing the need to protect natural resources and ecological systems and to increase public access to publicly owned shorelines. The project will protect statewide interests and result in long-term public benefit.

20. Any conclusion herein which may be deemed a finding is hereby adopted as such.

CONCLUSIONS OF LAW

1. The Hearing Examiner has jurisdiction over this proceeding. SMP 9.07. SCC 14.16.900(1) (b) (ii), SCC 14.06.120(7).

2. The requirements of the State Environmental Policy Act (SEPA) have been met.

3. As conditioned, the requested Shoreline Substantial Development Permit meets the relevant approval criteria. SMP 9.02.

4. As conditioned, the requested Special Use Permit modification meets the relevant approval criteria. SCC 14.16.900(1)(b)(v).

5. Any finding herein which may be deemed a conclusion is hereby adopted as such.

CONDITIONS

1. The project shall be carried out as described in the application materials, except as the same may be modified by these conditions.

2. All required permits shall be obtained and their conditions adhered to.

3. A Protected Critical Area (PCA) site plan shall be recorded with the County Auditor's Office prior to approval of the grading permit.

4. Temporary erosion/sedimentation control measures shall be used in accordance with Chapter 14.32 SCC (Stormwater Management). Proposed improvements must meet Low Impact Development techniques where feasible. All new or replaced hard surfaces shall meet current stormwater regulations.

5. The applicant shall comply with all provisions of Chapter 14.16 SCC (zoning) Chapter 14.34 SCC (floodplain development), and any other applicable County regulations

6. The applicant shall comply with Chapters 173-201A WAC and 173-200 WAC (surface and ground water quality), Chapter 173-60 (maximum environmental noise levels), and any other applicable State regulations.

7. A no-rise certification is required for fill or new construction in the floodway.

8. The applicant shall confirm the location of all wells within 100 feet of the contiguous ownership.

9. Prior to ground disturbance, an Archaeological Monitoring and Management Plan shall be implemented.

10. The applicant shall submit a copy of this decision with the building and grading permit applications.

11. The project shall be commenced within two years of final approval of the Shoreline Substantial Development Permit and completed within five years thereof.

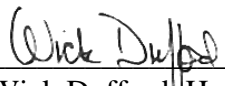
12. If the applicant proposes any modification to this project, it shall notify Planning and Development Services prior to the start of construction.

13. Failure to comply with any condition of approval may result in permit revocation.

DECISION

The application for a Shoreline Substantial Development Permit (PL18-0095) and for a Special Use Permit Modification (PL 18-0186) is approved, subject to the conditions set forth above.

SO ORDERED, this 5th, day of April 2019.



Wick Dufford, Hearing Examiner

Transmitted to applicant and staff, April 5, 2019



US Army Corps
of Engineers ®
Seattle District

NATIONWIDE PERMIT 27

Terms and Conditions



Effective Date: March 19, 2017

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- A. Description of Authorized Activities
 - B. U.S. Army Corps of Engineers (Corps) National General Conditions for all NWP
 - C. Corps Seattle District Regional General Conditions
 - D. Corps Regional Specific Conditions for this NWP
 - E. Washington Department of Ecology (Ecology) Section 401 Water Quality Certification (401 Certification): General Conditions
 - F. Ecology 401 Certification: Specific Conditions for this NWP
 - G. 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 (NWP) authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

27. Aquatic Habitat Restoration, Enhancement, and Establishment 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 be authorized by this NWP, the aquatic habitat restoration, enhancement, or establishment activity must be planned, designed, and implemented so that it results in aquatic habitat that resembles an ecological reference. An ecological reference may be based on the characteristics of an intact aquatic habitat or riparian area of the same type that exists in the region. An ecological reference may be based on a conceptual model developed from regional ecological knowledge of the target aquatic habitat type or riparian area.

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, rehabilitation, or re-establishment of riffle and pool stream structure; the placement of in-stream habitat structures; modifications of the stream bed and/or banks to enhance, rehabilitate, or re-establish stream meanders; the removal of stream barriers, such as undersized culverts, fords, and grade control structures; 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 restore or enhance 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., the conversion of a 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 32), 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 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. (Authorities: 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

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. 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. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

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 NWPs 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, storm water management activities, and temporary and permanent road crossings, 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, or during low tides.
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. (a) No NWP 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. (b) If a proposed NWP activity will 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, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status. (c) 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). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

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 ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur. (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA. (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 activity, or if the activity 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 activity or that utilize the designated critical habitat that might be affected by the proposed activity. 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 activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have “no effect” on listed species or critical habitat, or until ESA 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 permit conditions to the NWPs. (e) Authorization of an activity by an 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 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) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required. (g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may have the potential to cause effects to 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. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might 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 might have the potential to be affected by the proposed NWP activity 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 properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, 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 in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might 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 to historic properties or that NHPA section 106 consultation has been completed. (d) For non-federal permittees, 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. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity 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 (54 U.S.C. 306113) 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 NWPs 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, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district

engineer may authorize activities under these NWP's 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 the individual and cumulative adverse environmental effects are no more than 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 individual and cumulative adverse environmental effects are no more than 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 environmental effects of the proposed activity are no more than minimal, and provides an activity-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 only minimal adverse environmental effects. (d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)). (e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored 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 restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting 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 minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses. (f) 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 no more than minimal adverse environmental effects. For the NWP's, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation. (2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)). (3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation. (4) 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) through (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)). (5) 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. (6) 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 (see 33 CFR 332.4(c)(1)(ii)).

(g) 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 NWP activity 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 an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs. (h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible 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. (i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert 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 environmental effects of the activity to the no more than 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 implementation of 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 activity 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 activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a “USACE project”), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. 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 are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might 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 Act (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 activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and 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, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity 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);

(5) 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 wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) 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 environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will 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, the PCN must identify the Wild and Scenic River or the “study river” (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(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 an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals. (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 NWPs and the need for mitigation to reduce the activity’s adverse environmental effects so that they are no more than minimal. (2) Agency coordination is required for: (i) 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; (ii) 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 stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes. (3) When agency coordination is required, 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 (FWS, state natural resource or water quality agency, EPA, 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 notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental 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 NWPs, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than 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.

(4) 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. (5) 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. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the individual crossings of waters of the United States 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 streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51, 52, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects. For those NWPs that have a waivable 300 linear foot limit for losses of intermittent and ephemeral stream bed and a 1/2-acre limit (i.e., NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52), the loss of intermittent and ephemeral stream bed, plus any other losses of jurisdictional waters and wetlands, cannot exceed 1/2-acre. 2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by NWP and whether those cumulative adverse environmental effects are no more than minimal. 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 or condition assessment method is available and practicable to use, that assessment method

may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns. 3. 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 NWP activities with smaller impacts, or for impacts to other types of waters (e.g., streams). The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than 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 environmental effects are no more than 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 the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer. 4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity 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 activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity 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 environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31, or to evaluate PCNs for activities authorized by NWPs 21, 49, and 50), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory 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 (see general condition 31).

C. CORPS SEATTLE DISTRICT REGIONAL GENERAL CONDITIONS: The following conditions apply to all NWPs for the Seattle District in Washington State, unless specified.

1. Project Drawings: Drawings must be submitted with pre-construction notification (PCN). Drawings must provide a clear understanding of the proposed project, and how waters of the U.S. will be affected. Drawings must be originals and not reduced copies of large-scale plans. Engineering drawings are not required. Existing and proposed site conditions (manmade and landscape features) must be drawn to scale.

2. Aquatic Resources Requiring Special Protection: Activities resulting in a loss of waters of the United States in mature forested wetlands, bogs and peatlands, aspen-dominated wetlands, alkali wetlands, vernal pools, camas prairie wetlands, estuarine wetlands, wetlands in coastal lagoons, and wetlands in dunal systems along the Washington coast cannot be authorized by a NWP, except by the following NWPs:

- NWP 3 – Maintenance
- NWP 20 – Response Operations for Oil and Hazardous Substances
- 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, prospective permittees must submit a PCN to the Corps of Engineers (see NWP general condition 32) and obtain written authorization before commencing work.

3. New Bank Stabilization 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 areas identified on Figures 1a through 1e on Corps website) cannot be authorized by NWP.

4. Commencement Bay: The following NWPs may not be used to authorize activities located in the Commencement Bay Study Area (see Figure 2 on Corps website):

- 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 and Wastewater Management Facilities

5. Bank Stabilization: All projects including new or maintenance bank stabilization activities require PCN to the Corps of Engineers (see NWP general condition 32). For new bank stabilization projects only, the following must be submitted to the Corps of Engineers:

- a. The cause of the erosion and the distance of any existing structures from the area(s) being stabilized.
- b. The type and length of existing bank stabilization within 300 feet of the proposed project.
- c. A description of current conditions and expected post-project conditions in the waterbody.
- d. A statement describing how the project incorporates elements avoiding and minimizing adverse environmental effects to the aquatic environment and nearshore riparian area, including vegetation impacts in the waterbody.

In addition to a. through d., the results from any relevant geotechnical investigations can be submitted with the PCN if it describes current or expected conditions in the waterbody.

6. Crossings of Waters of the United States: Any project including installing, replacing, or modifying crossings of waters of the United States, such as culverts or bridges, requires submittal of a PCN to the

Corps of Engineers (see NWP general condition 32). If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, the project must apply the stream simulation design method from the Washington Department of Fish and Wildlife located in the *Water Crossing Design Guidelines* (2013), or a design method which provides passage at all life stages at all flows where the salmonid species would naturally seek passage. If the stream simulation design method is not applied for a culvert where salmonid species are present or could be present, the project proponent must provide a rationale in the PCN sufficient to establish one of the following:

- a. The existence of extraordinary site conditions.
- b. How the proposed design will provide equivalent or better fish passage and fisheries habitat benefits than the stream simulation design method.

If a culvert is proposed to cross waters of the U.S. where salmonid species are present or could be present, project proponents must provide a monitoring plan with the PCN that specifies how the proposed culvert will be assessed over a five-year period from the time of construction completion to ensure its effectiveness in providing passage at all life stages at all flows where the salmonid species would naturally seek passage. Culverts installed under emergency authorization that do not meet the above design criteria will be required to meet the above design criteria to receive an after-the-fact nationwide permit verification.

7. Stream Loss: A PCN is required for all activities that result in the loss of any linear feet of stream beds. No activity shall result in the loss of any linear feet of perennial stream beds or the loss of greater than 300 linear feet of intermittent and/or ephemeral stream beds. A stream may be rerouted if it is designed in a manner that maintains or restores hydrologic, ecologic, and geomorphic stream processes, provided there is not a reduction in the linear feet of stream bed. Streams include brooks, creeks, rivers, and historical waters of the U.S. that have been channelized into ditches. This condition does not apply to ditches constructed in uplands. Stream loss restrictions may be waived by the district engineer on a case-by-case basis provided the activities result in net increases of aquatic resource functions and services.

8. Mitigation: Pre-construction notification is required for any project that will result in permanent wetland losses that exceed 1,000 square feet. In addition to the requirements of General Condition 23 (Mitigation), compensatory mitigation at a minimum one-to-one ratio will be required for all permanent wetland losses that exceed 1,000 square feet. When a PCN is required for wetland losses less than 1,000 square feet, the Corps of Engineers 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 for impacts to marine waters, lakes, and streams will be determined on a case-by-case basis. If temporary impacts to waters of the U.S. exceed six months, the Corps of Engineers may require compensatory mitigation for temporal effects.

9. Magnuson-Stevens Fishery Conservation and Management Act – Essential Fish Habitat Essential Fish Habitat (EFH) is defined as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. If EFH may be adversely affected by a proposed activity, the prospective permittee must provide a written EFH assessment with an analysis of the effects of the proposed action on EFH. The assessment must identify the type(s) of essential fish habitat (i.e., Pacific salmon, groundfish, and/or coastal-pelagic species) that may be affected. If the Corps of Engineers determines the project will adversely affect EFH, consultation with NOAA Fisheries will be required. Federal agencies should follow their own procedures for complying with the requirements of the Magnuson-Stevens Fishery Conservation and Management Act. If PCN is required for the proposed activity, Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

10. Forage Fish: For projects in forage fish spawning habitat, in-water work must occur within designated forage fish work windows, or when forage fish are not spawning. If working outside of a designated work window, or if forage fish work windows are closed year round, work may occur if the

work window restriction is released for a period of time after a forage fish spawning survey has been conducted by a biologist approved by the Washington State Department of Fish and Wildlife (WDFW). Forage fish species with designated in-water work windows include Pacific sand lance (*Ammodytes hexapterus*), Pacific herring (*Clupea pallasii*), and surf smelt (*Hypomesus pretiosus*). This RGC does not apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

11. Notification of Permit Requirements: The permittee must provide a copy of the nationwide permit authorization letter, conditions, and permit drawings to all contractors and any other parties performing the authorized work prior to the commencement of any work in waters of the U.S. The permittee must ensure all appropriate contractors and any other parties performing the authorized work at the project site have read and understand relevant NWP conditions as well as plans, approvals, and documents referenced in the NWP letter. A copy of these documents must be maintained onsite throughout the duration of construction.

12. Construction Boundaries: Permittees must clearly mark all construction area boundaries before beginning work on projects that involve grading or placement of fill. Boundary markers and/or construction fencing must be maintained and clearly visible for the duration of construction. Permittees should avoid and minimize removal of native vegetation (including submerged aquatic vegetation) to the maximum extent possible.

13. Temporary Impacts and Site Restoration

- a. Temporary impacts to waters of the U.S. must not exceed six months unless the prospective permittee requests and receives a waiver by the district engineer. Temporary impacts to waters of the U.S. must be identified in the PCN.
- b. No more than 1/2 acre of waters of the U.S. may be temporarily filled unless the prospective permittee requests and receives a waiver from the district engineer (temporary fills do not affect specified limits for loss of waters associated with specific nationwide permits).
- c. Native soils removed from waters of the U.S. for project construction should be stockpiled and used for site restoration. Restoration of temporarily disturbed areas must include returning the area to pre-project ground surface contours. If native soil is not available from the project site for restoration, suitable clean soil of the same textural class may be used. Other soils may be used only if identified in the PCN.
- d. The permittee must revegetate disturbed areas with native plant species sufficient in number, spacing, and diversity to restore affected functions. A maintenance and monitoring plan commensurate with the impacts, may be required. Revegetation must begin as soon as site conditions allow within the same growing season as the disturbance unless the schedule is approved by the Corps of Engineers. Native plants removed from waters of the U.S. for project construction should be stockpiled and used for revegetation when feasible. Temporary Erosion and Sediment Control measures must be removed as soon as the area has established vegetation sufficient to control erosion and sediment.
- e. If the Corps determines the project will result in temporary impacts of submerged aquatic vegetation (SAV) that are more than minimal, a monitoring plan must be submitted. If recovery is not achieved by the end of the monitoring period, contingencies must be implemented, and additional monitoring will be required.

This RGC does not apply to NWP 48, *Commercial Shellfish Aquaculture Activities*. Please see specific regional conditions for NWP 48.

D. CORPS REGIONAL SPECIFIC CONDITIONS FOR THIS NWP:

1. A pre-construction notification (PCN) must be submitted to the district engineer (see NWP general condition 32) 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, Washington State Department of Ecology compensatory mitigation site, or Washington State Model Toxics Control Act clean-up site.

2. For projects subject to PCN, if there is a loss of waters of the U.S., the project proponent must explain in the PCN why the loss is necessary and show how it would be fully offset by the beneficial elements of the project.
3. The PCN must contain a description of pre-project site conditions (including photographs), aquatic functions the site provides, and benefits anticipated from project construction.
4. The project proponent must include maintenance and monitoring plans with the PCN.
5. Restoration projects involving shellfish seeding must use shellfish native to the watershed.

E. ECOLOGY 401 CERTIFICATION: GENERAL CONDITIONS

In addition to all the Corps National and Seattle Districts' Regional permit conditions, the following State General Section 401 Water Quality Certification (Section 401) conditions apply to all Nationwide Permits whether **certified** or **partially certified** in the State of Washington.

1. **For in-water construction activities.** Ecology Section 401 review is required for projects or activities authorized under NWP that will cause, or may be likely to cause or contribute to an exceedance of a State water quality standard (Chapter 173-201A WAC) or sediment management standard (Chapter 173-204 WAC). State water quality standards and sediment management standards are available on Ecology's website. Note: In-water activities include any activity within a wetland and/or activities below the ordinary high water mark (OHWM).
2. **Projects or Activities Discharging to Impaired Waters.** Ecology Section 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 exceedances of the specific listed parameter. 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.
3. **Application.** For projects or activities that will require Ecology Section 401 review, applicants must provide Ecology with a Joint Aquatic Resources Permit Application (JARPA) along with the documentation provided to the Corps, as described in National General Condition 32, 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, best management practices (BMPs), and any other Department of the Army or federal agency permits used or intended to be used to authorize any part of the proposed project or any related activity. (b) Drawings indicating the Ordinary High Water Mark (OHWM), delineation of special aquatic sites and other waters of the state. 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. Guidance for determining the OHWM is available on Ecology's website. (c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted. See State General Condition 5 for details on mitigation requirements. (d) Other applicable requirements of Corps Nationwide Permit General Condition 32, Corps Regional Conditions, or notification conditions of the applicable NWP. (e) Within 180 calendar 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 Ecology will provide the applicant notice of whether an individual Section 401 will be required for the project. If

Ecology fails to act within a year after receipt of **both** of these documents, Section 401 is presumed 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. Ecology Section 401 review is required for activities in or affecting the following aquatic resources (and not prohibited by Seattle District Regional General Condition): (a) Wetlands with special characteristics (as defined in the Washington State Wetland Rating Systems for western and eastern Washington, Ecology Publications #14-06-029 and #14-06-030):

- Estuarine wetlands.
- Wetlands of High Conservation Value.
- 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. (c) Marine water with eelgrass (*Zostera marina*) beds (except for NWP 48). (d) Category I wetlands. (e) Category II wetlands with a habitat score ≥ 8 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. Applicants are required to show that they have followed the mitigation sequence and have first avoided and minimized impacts to aquatic resources wherever practicable. For projects requiring Ecology Section 401 review with unavoidable impacts to aquatic resources, adequate compensatory mitigation must be provided.

(a) Wetland mitigation plans submitted for Ecology review and approval shall be based on the most current guidance provided in Wetland Mitigation in Washington State, Parts 1 and 2 (available on Ecology’s website) 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) and Selecting Wetland Mitigation Sites Using a Watershed Approach (Ecology Publications #09-06-032 (Western Washington) and #10-06-007 (Eastern Washington)) for guidance on selecting suitable mitigation sites and developing mitigation plans. Ecology encourages the use of alternative mitigation approaches, including credit/debit methodology, advance mitigation, and other programmatic approach such as mitigation banks and in-lieu fee programs. If you are interested in proposing use of an alternative mitigation approach, consult with the appropriate Ecology regional staff person. Information on alternative mitigation approaches is available on Ecology’s website.

(b) Mitigation for other aquatic resource impacts will be determined on a case-by-case basis.

6. Temporary Fills. Ecology Section 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 pollution prevention: All projects that involve land disturbance or impervious surfaces must implement stormwater pollution prevention or control measures to avoid discharge of pollutants in stormwater runoff to waters of the State.

(a) For land disturbances during construction, the applicant must obtain and implement permits (e.g., Construction Stormwater General Permit) where required and follow Ecology's current stormwater manual.

(b) Following construction, prevention or treatment of on-going stormwater runoff from impervious surfaces shall be provided.

Ecology's Stormwater Management and Design Manuals and stormwater permit information are available on Ecology's website.

8. State Section 401 Review for PCNs not receiving 45-day response from the Seattle District. In the event the Seattle District Corps does not issue a NWP authorization letter within 45 calendar days of receipt of a **complete** pre-construction notification, the applicant must contact Ecology for Section 401 review prior to commencing work.

F. ECOLOGY 401 CERTIFICATION: SPECIFIC CONDITIONS FOR THIS NWP:

Certified subject to conditions. Ecology Section 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.
3. The project or activity is a mitigation bank or an advanced mitigation site.

The project or activity is in or adjoining a known contaminated or cleanup site.

G. COASTAL ZONE MANAGEMENT CONSISTENCY RESPONSE FOR THIS NWP:

(Note: This only applies in the following counties: Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom)

Response: Ecology concurs that this NWP is consistent with the CZMP, subject to the following condition: An individual Coastal Zone Management Consistency Determination is required for project or activities under this NWP if State Section 401 review is required.

General Conditions: For Non-Federal Permittees

1. Necessary Data and Information. A Coastal Zone Management Program "Certification of Consistency" form is required for projects located within a coastal county. "Certification of Consistency" forms are available on Ecology's website. The form shall include a description of the proposed project or activity and evidence of compliance with the applicable enforceable policies of the Washington Coastal Zone Management Program (CZMP). Also, a map of the site location is required.

2. Timing. Within 6 months from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 6 month period, concurrence with the CZMP is presumed.

General Conditions: For Federal Permittees (Agencies)

1. Necessary Data and Information. Federal agencies shall submit the determination, information, and analysis required by 15 CFR 930.39 to obtain a federal consistency determination.

2. Timing. Within 60 days from receipt of the necessary data and information, Ecology will provide a federal consistency determination for the proposed project or activity. If Ecology fails to act within the 60 day period, concurrence with the CZMP is presumed.

APPENDIX F

Stormwater Site Plan and Construction Stormwater Pollution Prevention Plan (CSWPPP)

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

PRESENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS PROJECT

**Prepared for
Skagit Fisheries Enhancement Group**

**Prepared by
Herrera Environmental Consultants, Inc.**



Note:

Some pages in this document have been purposely skipped or blank pages inserted so that this document will copy correctly when duplexed.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

PRESENTIN PARK SIDE CHANNEL RESTORATION AND RECREATIONAL IMPROVEMENTS PROJECT

**Prepared for
Skagit Fisheries Enhancement Group
P.O. Box 2497
Mount Vernon, Washington 98273**

**Prepared by
Herrera Environmental Consultants, Inc.
2200 Sixth Avenue, Suite 1100
Seattle, Washington 98121
Telephone: 206-441-9080**

November 4, 2019

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PROJECT OVERVIEW

Skagit County Parks and Recreation (the County) and Skagit Fisheries Enhancement Group (SFEG) are in the process of implementing the Pressentin Park Side Channel Restoration and Recreational Improvements Project (the project). The primary goal of the project is to increase stable spawning habitat and off-channel rearing refugia available to Chinook and other salmon species by reestablishing a side channel along the Skagit River in Pressentin Park. In addition to reestablishing a side channel, associated wetlands, and placing large woody debris, the project includes park improvements, such as the design and construction of pedestrian bridges to maintain trail connectivity, new trail extensions and picnic shelters, as well as native floodplain plantings and invasive species management adjacent to the new side channel. The project will enhance habitat and reestablish a side channel through construction of engineered log structures consisting of bank habitat structures, large bank roughening structures, inlet structures, bank roughening structures, and channel roughening structures. The park improvement features will also increase pedestrian connectivity and enhance the recreational value of the park.

Project Site Location

The project site is within Pressentin Park, along the Skagit River and Marblemount Slough in unincorporated Skagit County, Washington, near the community of Marblemount and south of State Route 20 (SR 20; Figure 1). Under both existing and proposed conditions, the project site is within the floodplain of the upper Skagit River near its confluence with the Cascade River. The site is within Water Resource Inventory Area (WRIA) 4: Upper Skagit.

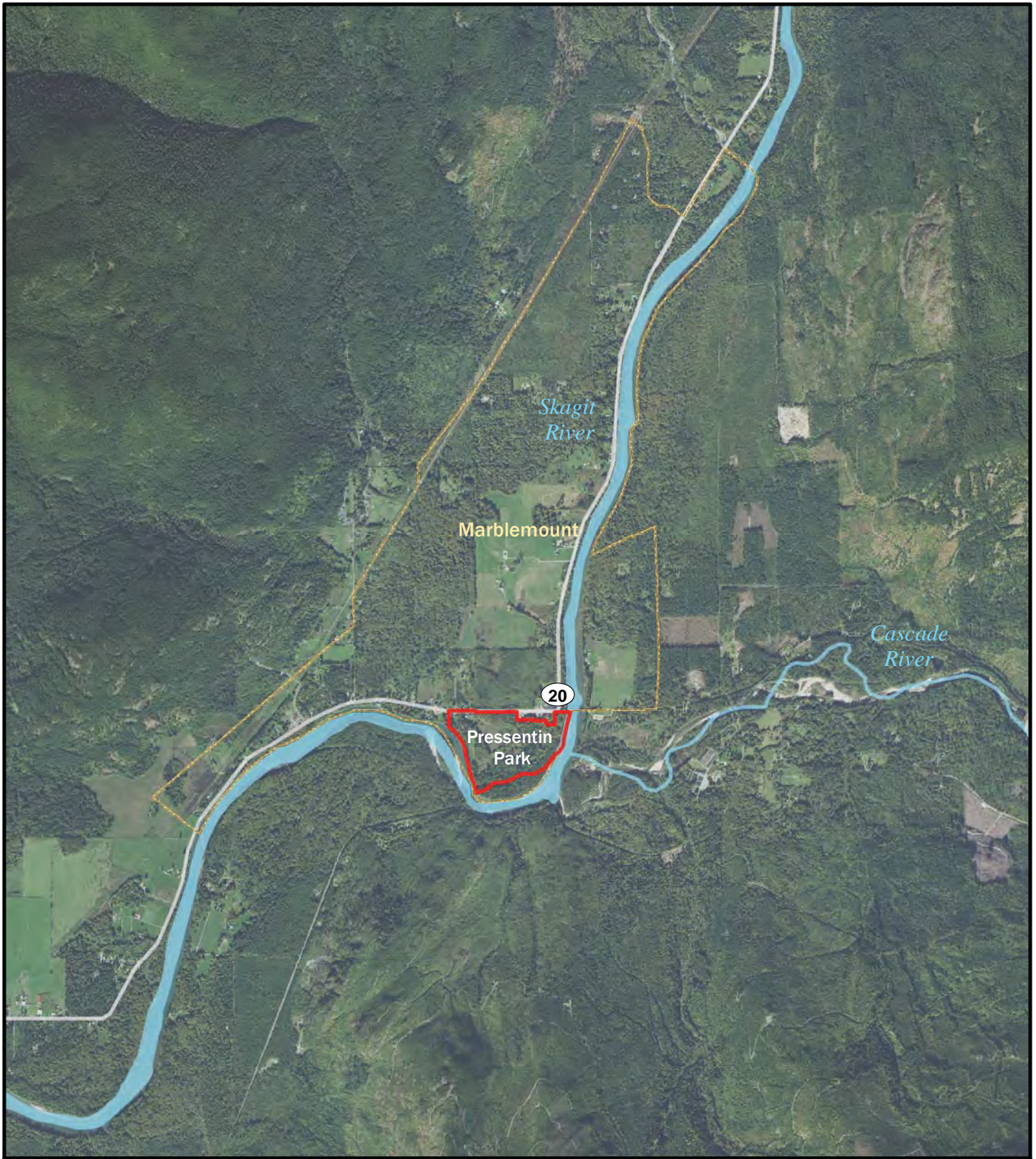
Existing Conditions Summary

The total project area, shown on Figure 1, is 64.8 acres. The project site is in a floodplain, and stormwater typically infiltrates. In the project area, the topography is generally gently sloped toward the Skagit River.

Vegetation consists of forested riparian areas with tree species including cottonwoods, bigleaf and other maples, alders, cedar, cherry, grand fir, Douglas-fir, and hemlock (Herrera 2017). There are also patches of open fields, scrub shrub, and forested vegetation between Marblemount Slough and SR 20. The project area includes a system of grass trails that are mowed regularly for pedestrian access.

Proposed Project Elements

An estimated 15.9 acres will be disturbed by clearing, grading, excavation, and other construction activities. Earthwork to construct the new side channel will include 38,330 cubic yards of channel excavation. Approximately 10,530 cubic yards of excavated material will be hauled off site, and the remainder will be used on site as backfill material for the engineered log structures and a new water line, for a terrace cap, as well as to help create a level meadow area.



Legend

- Study Area
- Water Bodies
- Town limit
- Highway



Figure 1.
Vicinity Map for the Pressentin Park
Side Channel Restoration Project.



USDA, Aerial (2015)

K:\Projects\Y2014\14-05789-000\Project\Figure1_Vicinity_8.5x11.mxd

Most project elements will be composed of logs, vegetation, soils, and/or rock. However, five new structures, asphalt and gravel pathways in a new day use area, and a gravel trail will create approximately 49,690 square feet of new impervious surfaces. The structures, shown in the project plans, include two picnic structures, a vehicle bridge, and two pedestrian bridges. As described in in this construction stormwater pollution prevention plan (construction SWPPP), stormwater from the new impervious surface will be managed through dispersion and infiltration.

Construction access for the project will be provided off of SR 20.

ADJACENT AREAS

At a basin level, immediately upstream of the project site is the confluence of the Skagit River and the Cascade River. Both rivers are fed by a series of creeks flowing from the North Cascade mountain range. Minimal human development is found within the main tributaries. Downstream of the project site, the Skagit River flows westward to Mount Vernon, Washington, splits into two forks, and discharges into Puget Sound.

Streams and wetlands were investigated by Herrera Environmental Consultants, Inc. (Herrera) as part of the critical areas site assessment for the project (Herrera 2017). Previously mapped streams and wetlands identified through that assessment are shown in Figure 2.

A subsequent study by Herrera biologists delineated six wetlands in the study area: Wetlands A, B, C, D, E and F (Table 1 and Figure 3). Skagit County requires buffers around each wetland to protect the wetland functions and values. Table 1 presents standard buffer widths in accordance with Skagit County Code (SCC) 14.24.230. Standard buffer widths are shown on Figure 3.

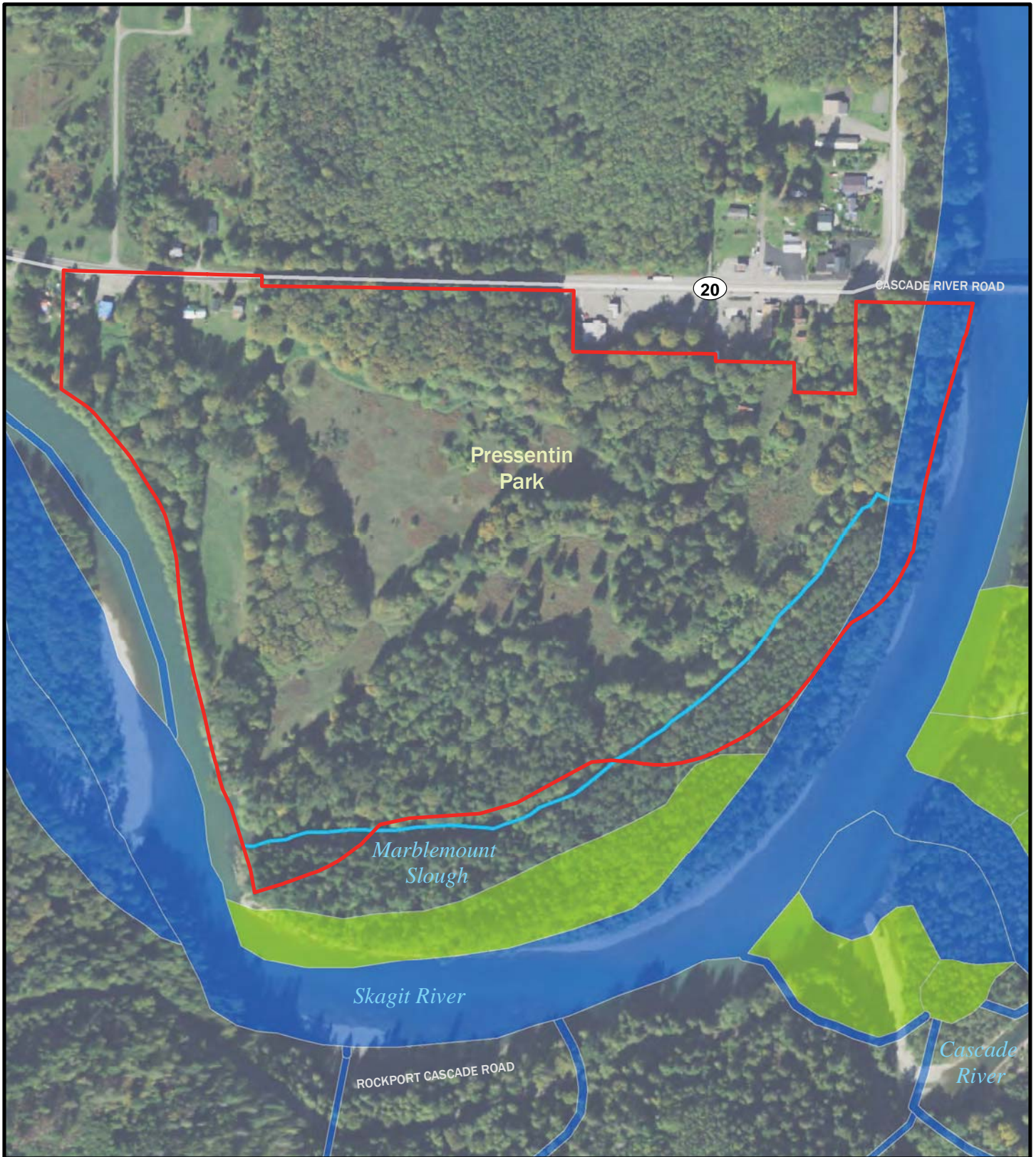
Wetland Name	Wetland Size (acre/square feet)	USFWS Classification^a	Hydrogeomorphic Classification^b	Ecology Rating Category (2014)^c	Skagit County Standard Buffer Width (feet)^d
A	0.209 / 9,104	PSS, PEM	Depressional	III	75
B	0.065 / 2,831	PEM	Depressional	III	75
C	0.236 / 10,263	PSS, PEM	Depressional	III	75
D	0.012 / 522	PEM	Depressional	III	75
E	0.066 / 2,889	PSS, PEM	Depressional	III	75
F	0.039 / 1,711	PSS, PEM	Depressional	III	75

^a USFWS classification is based on Cowardin et al. (1979): palustrine scrub-shrub (PSS), and palustrine emergent (PEM).

^b Hydrogeomorphic classification is based on Brinson (1993).

^c Wetland category is based on the Washington State Department of Ecology (Ecology) wetland rating system (Hruby 2014), as required by Skagit County.

^d According to Skagit County Code 14.24.220(1)(a), standard wetland buffer widths are based on the Ecology wetland rating and low intensity adjacent land use.



Legend

Study Area

Wetland Type (NWI)

Freshwater Forested/Shrub Wetland

Riverine

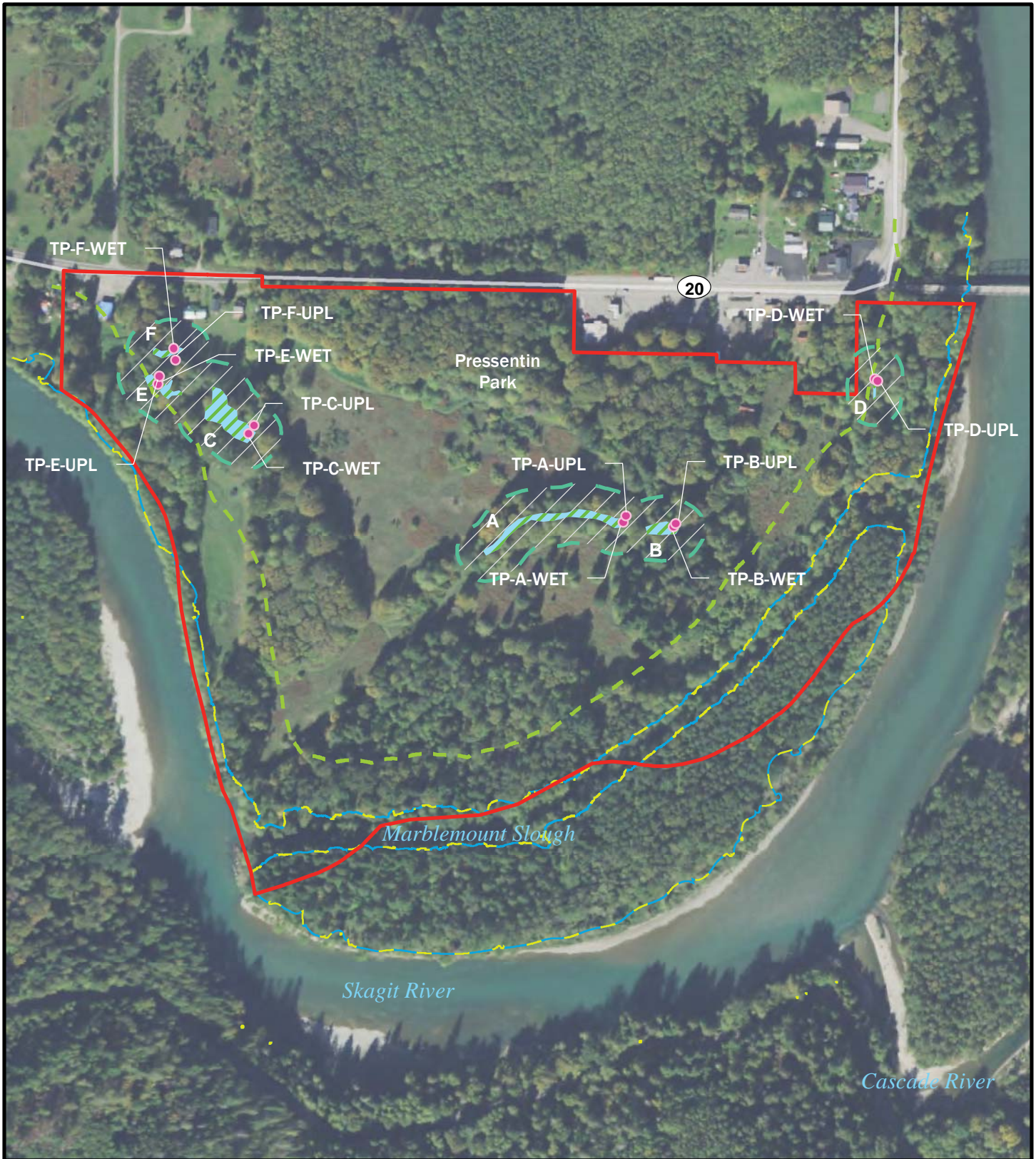
Side channel

Highway

Figure 2.
Previously Mapped Wetlands and Streams in the
Pressentin Park Side Channel Restoration
Project Study Area.



USDA, Aerial (2015)



Legend

- Test pit
- — — Stream buffer
- Delineated wetland
- Highway
- Wetland buffer
- Study area
- — — OHWM (modeled)

Figure 3.
Wetlands, Streams, and Buffers Delineated
in the Study Area for the Presentin
Park Side Channel Restoration Project.



USDA, Aerial (2015)

CRITICAL AREAS

As noted above, a critical areas site assessment was completed for the project (Herrera 2017). The assessment was performed in accordance with current federal, state, and local regulations and guidance.

Wetlands and streams are subject to a variety of federal, state, and local regulations. Federal laws regulating wetlands and streams include Sections 404 and 401 of the Clean Water Act (United States Code, Title 33, Chapter 1344 [33 USC 1344]). Washington State laws and programs designed to control the loss of wetland acreage include the State Environmental Policy Act (SEPA) and Section 401 of the Clean Water Act (administered in the State of Washington by the Washington State Department of Ecology [Ecology], as mandated by the Washington State Water Pollution Control Act). In addition, Washington State laws include the state Hydraulic Code (Washington Administrative Code [WAC] 220-110). The project area is within Skagit County and is, therefore, subject to SCC 14.24, which specifies wetland categories, stream types, required buffer widths, development standards, and mitigation requirements for critical areas, which include wetlands, FWHCAs, and associated buffers.

The restoration project would reestablish side-channel habitats along the Skagit River in Presentin Park. Herrera scientists examined the project area (also referred herein as the study area) for the presence of wetlands and fish and wildlife habitat conservation areas (FWHCAs) (i.e., streams). Regulated critical areas identified within the study area include wetlands, FWHCAs (Skagit River and Marblemount Slough), and frequently flooded areas (Zone A 100-year floodplain), associated wetlands; shorelands adjacent to these water bodies within 200 feet of the ordinary high water mark (OHWM); and floodways and contiguous floodplain areas extending 200 feet from the floodway.

Furthermore, shoreline jurisdiction includes critical area buffers of critical areas that are located wholly within shoreline jurisdiction (Skagit County 2016). Critical area provisions under the draft Shoreline Master Program (SMP) are described in SCC 14.26.500-560. Critical areas located within shoreline jurisdiction must comply with the County's Critical Areas Ordinance outlined in SCC 14.26.500. According to the draft SMP, the study area is designated as rural conservancy, and work performed must comply with SMP regulations for that environmental designation.

The draft preliminary shoreline jurisdiction map for western Skagit County identifies the Skagit River as a Shoreline of the State and Marblemount Slough as a Type F water (Skagit County 2011). Areas under shoreline jurisdiction are designated as rural conservancy under the draft Environmental Designation map (Skagit County 2011).

SOILS

Four types of soil are mapped within the study area: Larush fine sandy loam, Pilchuck loamy sand, Riverwash, and Sauk silt loam (NRCS 2017; Figure 4). Of those, only Riverwash is considered a hydric soil.

Larush Fine Sandy Loam

Larush fine sandy loam is from a series of very deep, well-drained soils formed in mixed alluvium that occurs on floodplains and low terraces. The parent material is alluvium. A typical surface soil profile includes a 10-inch layer of very dark grayish brown (10YR 3/2) ashy silt loam, over a 20-inch layer of dark grayish brown (2.5YR 4/2) ashy silt loam, over a 30-inch layer of dark grayish brown (2.5YR 4/2) and gray (N 5/0) fine sand. Larush fine sandy loam is not considered a hydric soil. There are no other soil inclusions for this soil within the study area (NRCS 2017).

Pilchuck Loamy Sand

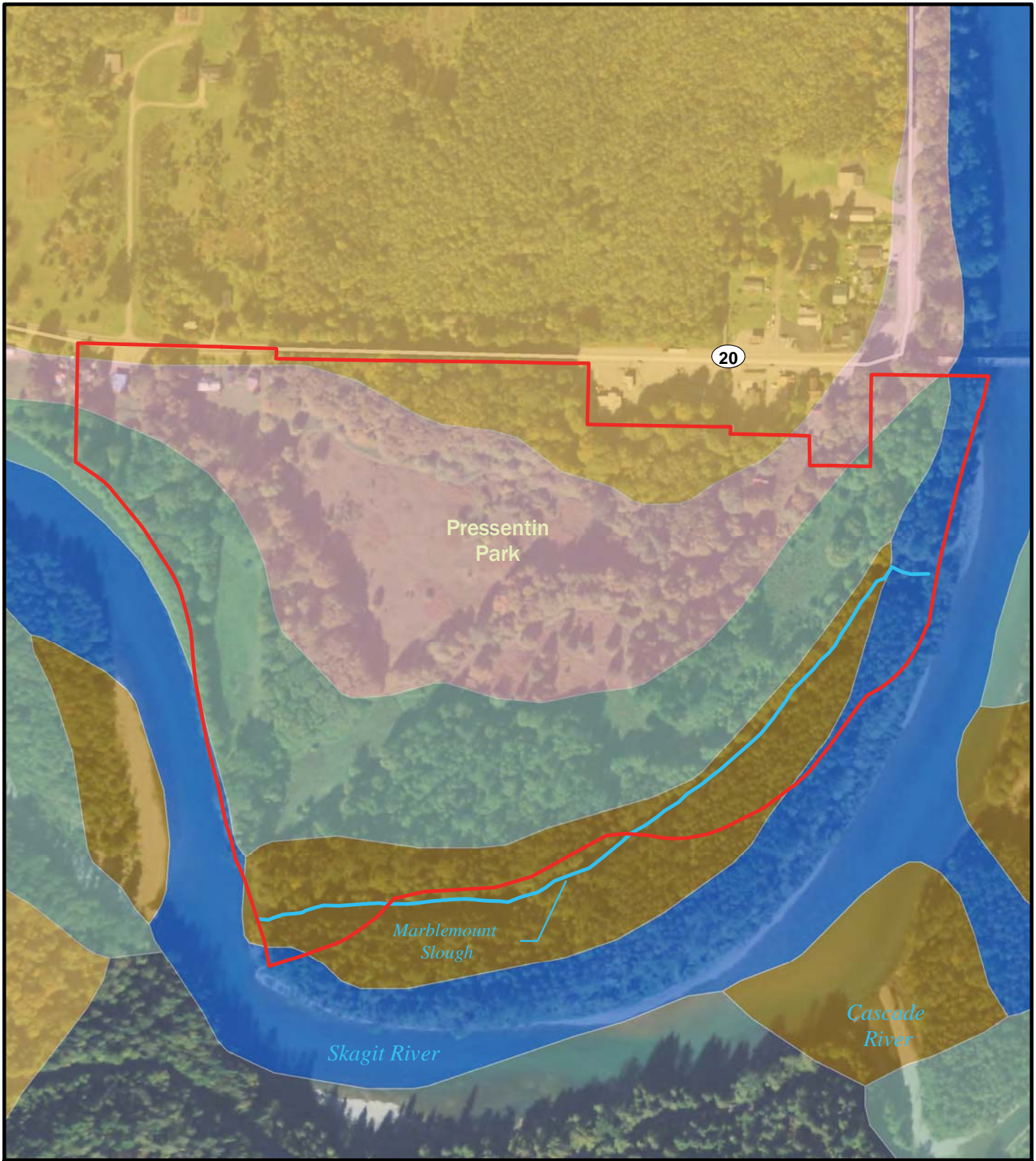
Pilchuck loamy sand is a deep, excessively-drained soil that occurs on floodplains. The parent material is alluvium. A typical surface soil profile includes a 3-inch surface layer of very dark gray (10YR 3/1) loamy sand, over a 40-inch layer of very dark gray (10Y 3/1) fine sand, over a 20-inch layer of black (10Y 2/1) gravely sand. Pilchuck loamy sand is not considered a hydric soil. There are no other soil inclusions for this soil within the study area (NRCS 2017).

Riverwash

Riverwash is a very deep and somewhat excessively drained soil that occurs in floodplains along streams. The parental material consists of recent alluvium of sand, gravel, cobbles, and stones. Riverwash is considered a hydric soil. There are no other soil inclusions for this soil within the study area (NRCS 2017).

Sauk Silt Loam

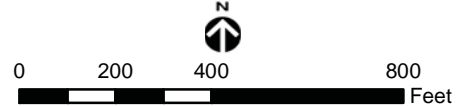
Sauk silt loam is a well-drained soil that occurs on terraces. The parent material is volcanic ash and alluvium. A typical surface soil profile includes a 6-inch surface layer of brown (7.5YR 4/4) silt loam, over a 12-inch layer of yellowish brown (10Y 5/4) silt loam, over a 40-inch layer of olive brown (2.5YR 4/4) silt loam. Sauk silt loam is not considered a hydric soil. There are no other soil inclusions for this soil within the study area (NRCS 2017).



Legend

- | | |
|------------------------|--------------|
| Soil Type (NRCS) | Study Area |
| Larush fine sandy loam | Side channel |
| Pilchuck loamy sand | Highway |
| Riverwash | |
| Sauk silt loam | |
| Water | |

Figure 4.
Mapped Soils in the Presentin Park Side Channel Restoration Project Study Area.



USDA, Aerial (2015)

K:\Projects\Y2014\14-05789-000\Project\Figure4_MappedSoils_8.5x11.mxd

Potential Erosion Problem Areas

Potential project areas where there is a risk of erosion include the 6 foot wide gravel trail crossing the terrace cap fill from the Day Use Area down to the floodplain, the 10- to 17-foot wide gravel vehicle maintenance pathway that accesses the new bicycle in campground area, runoff from the picnic shelter canopy structure, and the new 6-foot-wide gravel path within the park. Permanent stormwater best management practices (BMPs) will be designed to prevent erosion from these surfaces.

CORE ELEMENTS FOR THIS CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

The project is subject to the requirements set forth in the contract specifications, including the temporary erosion and sediment control (TESC) plan developed for the project and included in the contract plans. The TESC plan has been designed, based on the site characteristics and the proposed types and duration of construction activities, to prevent to the maximum extent practicable the transport of sediment to wetlands and the Skagit River, and in accordance with Skagit County Code and Ecology's 2012 Stormwater Management Manual for Western Washington (SWMMWW), as amended in December 2014 (Ecology 2014).

The applicable erosion and sediment control measures from the SWMMWW are listed below along with brief descriptions of how each measure addresses the core construction SWPPP elements from the SWMMWW (Ecology 2014) in the contract plans. None of these measures need design calculations to support sizing, locating, and implementing of the applicable BMPs.

Element #1: Preserve Vegetation/Mark Clearing Limits

Site clearing will occur for construction access, for construction of the new side channel, and to remove invasive vegetation in targeted locations where grading is planned. To protect adjacent properties and the Skagit River and to reduce the area of soil exposed to construction, the limits of construction will be clearly marked before land-disturbing activities begin. The clearing limits will be marked by the contractor in accordance with Section 8-01.3(1) of the Washington State Department of Transportation (WSDOT) 2016 Standard Specifications for Road, Bridge, and Municipal Construction (standard specifications).

The amendments to the standard specifications (special provisions (Section 2-01.1(1))) of the contract include requirements for the contractor to protect existing vegetation by limiting the area of disturbance to areas approved by the project engineer, thereby prohibiting disturbance or damage to plants outside of the clearing and grubbing limits. The contract also requires tree protection. These measures will limit vegetation removal and disturbance to the minimum necessary to construct the project. Further, the special provisions describe how only hand clearing and no grubbing is allowed within the Terrace Sensitive Area shown on the contract

plans. The BMPs relevant to marking the clearing limits that will be applied for the project include:

- Preserve Natural Vegetation (Ecology BMP C101/Per Plans)
- High Visibility Silt Fence (Ecology BMP C103/ Per Plans)

Element #2: Establish Construction Access

A temporary stabilized construction entrance (Ecology BMP C105) will be placed at the intersection of the temporary access road and SR 20. Construction access through the site will follow existing mowed grass trail routes wherever possible to minimize disturbance. From the stabilized construction entrance to the southern limit of the Terrace Sensitive Area, the construction access road will be created by placing separation geotextile, a two-foot-thick layer of hog fuel, and 10ft by 14ft blasting mats per the contract specifications. Temporary construction access from the southern limit of the Terrace Sensitive Area and throughout the site to be created by placing separation geotextile and 1 foot layer of hog fuel. The construction access roads will be incorporated into the trail system at the completion of construction. The BMPs relevant to establishing construction access that will be applied for the project include:

- Stabilized Construction Entrance/Exit (Ecology BMP C107/Per Plans)

Element #3: Control Flow Rates

Given the size of the parcel, proportionally there is little addition of new impervious area, and soils are suitable for infiltration, so the project is not expected to generate significant stormwater runoff flow rates. If offsite water enters the construction area, under section 8-1.3(1)C4 of the standard specifications, the contractor will be required to intercept and route offsite water around the project area to prevent it from coming into contact with areas disturbed by construction activities or stormwater.

Excavation and grading activities to construct the new side channel will mostly occur above the OHWM of the Skagit River, except at the upstream and downstream side channel connections. Those connections will be made at the end of construction after all temporary erosion and sediment control BMPs have been placed, the side channel has been constructed, and all permanent project features within the side channel have been installed. The BMPs relevant to controlling flow rates that will be applied for the project include:

- Wattles (Ecology BMP C235/ Per Plans)
- Silt Boom (Ecology BMP C208/Per Plans)

Element #4: Install Sediment Controls

Proposed sediment controls are shown in the project TESC plan. They include a silt boom to be installed at the upstream and downstream confluence locations between the new side channel and the Skagit River to prevent sediment from entering the river. Additional sediment controls (wattles) will be placed around construction staging areas. The BMPs relevant to installing sediment controls that will be applied for the project include:

- Wattles (Ecology BMP C235/Per Plans)
- Silt Boom (Ecology BMP C208/Per Plans)

Element #5: Stabilize Soils

Exposed and unworked soils will be stabilized with the application of effective BMPs to prevent erosion throughout the life of the project. All disturbed areas will be seeded and planted with native vegetation per the seeding and planting plans provided in the contract plans.

Element #6: Protect Slopes

Extensive special slope protection measures are not expected to be necessary, but areas of steep grade shall be protected during rain events with plastic covering. Exposed and unworked soils will be stabilized with the application of effective BMPs to prevent erosion throughout the life of the project. The specific BMPs for protecting slopes that will be used on the project include:

- Plastic Covering (Ecology BMP C123)
- Wattles (Ecology BMP C235/Per Plans)
- Temporary and Permanent Seeding (Ecology BMP C120/Per Plans)

Element #7: Protect Drain Inlets

There are no drain inlets in or downstream of the project area, so Element #7 does not apply.

Element #8: Stabilize Channels and Outlets

The County and its construction contractor will armor any outlets from temporary or permanent stormwater pipes or facilities with rocks or quarry spalls to prevent scour and erosion.

Element #9: Control Pollutants

All pollutants, including waste materials and demolition debris, that occur on site will be handled and disposed of in a manner that does not cause contamination of stormwater. Good housekeeping and preventative measures will be implemented to ensure that the site will be kept clean, well-organized, and free of debris. If required, BMPs to be implemented by the County and its construction contractor to control specific sources of pollutants are listed below.

- Vehicles, construction equipment, and/or petroleum product storage/dispensing:
 - All vehicles, equipment, and petroleum product storage/dispensing areas will be inspected regularly to detect any leaks or spills, and to identify maintenance needs to prevent leaks or spills.
 - Onsite fueling tanks and petroleum product storage containers will include secondary containment.
 - Spill prevention measures, such as drip pans, will be used when conducting maintenance and repair of vehicles or equipment.
 - In order to perform emergency repairs on site, temporary plastic will be placed beneath and, if raining, over the vehicle.
 - Contaminated surfaces shall be cleaned immediately following any discharge or spill incident.
- Chemical storage:
 - Any chemicals stored in the construction areas will conform to the appropriate source control BMPs listed in Volume IV of the SWMMWW. All chemicals shall have cover, containment, and protection provided on site.
 - Application of agricultural chemicals, including fertilizers and pesticides, shall be conducted in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Manufacturers' recommendations for application procedures and rates shall be followed.
 - Concrete and grout:
 - Process water and slurry resulting from concrete work will be prevented from entering the Waters of the State by implementing Concrete Handling (BMP C151) measures.
- Sanitary wastewater:

- Portable sanitation facilities will be firmly secured, regularly maintained, and emptied when necessary.
- Wheel wash or tire bath wastewater shall be discharged to a separate onsite treatment system or to the sanitary sewer.
- Solid Waste:
 - Solid waste will be stored in secure, clearly marked containers.
- Other:
 - Other BMPs will be administered as necessary to address any additional pollutant sources on-site.

The specific BMPs for controlling pollutants that will be used on the project include:

- Material Delivery, Storage Containment (Ecology BMP C153)

Element #10: Control Dewatering

The project will be mostly constructed during the summer months, the driest time of the year, in part to limit the need for managing construction dewatering water. In addition, most earthwork activities will be occurring above the OHWM of the Skagit River. However, if groundwater accumulates in excavations to an extent that hinders installation of the various project elements, the construction contractor must manage all dewatering water per the contract specifications. Any turbid water from the work area must be treated separately and cannot be discharged to the river or any wetland areas.

Element #11: Maintain BMPs

All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed by the County and its construction contractor to assure continued performance of their intended function. Maintenance and repair shall be conducted in accordance with each particular BMP's specifications in the SWMMWW. Visual monitoring of the BMPs will be conducted at least once every calendar week and within 24 hours of any rainfall event that causes a discharge from the site. If the site becomes inactive and is temporarily stabilized, the inspection frequency will be reduced to once every month.

All temporary erosion and sediment control BMPs shall be removed within 30 days after the final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on-site. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized.

Element #12: Manage the Project

Erosion and sediment control BMPs for this project have been designed based on the following principles:

- Design the project to fit the existing topography, soils, and drainage patterns
- Emphasize erosion control rather than sediment control
- Minimize the extent and duration of the area exposed
- Keep runoff velocities low
- Retain sediment on site
- Thoroughly monitor the site and maintain all erosion and sediment control measures
- Schedule major earthwork during the dry season (to the extent possible).

In addition, project management will incorporate the key components listed below:

- Phasing of construction
- Seasonal work limitations
- Coordination with utilities and other contractors
- Inspection and monitoring
- Maintaining an updated construction SWPPP.

Phasing of Construction

- The construction project is being phased to the extent practicable in order to prevent soil erosion, and, to the maximum extent possible, the transport of sediment from the site during construction.
- Revegetation of exposed areas and maintenance of that vegetation shall be an integral part of the clearing activities during each phase of construction.

Inspection and Monitoring

- All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. Site inspections shall be conducted by a person who is knowledgeable in the principles and practices of erosion and sediment control. This person shall have the necessary skills to:

- Assess the site conditions and construction activities that could impact the quality of stormwater.
- Assess the effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.
- A Certified Erosion and Sediment Control Lead (CESCL) shall be on site or on call at all times.
- Whenever inspection and/or monitoring reveals that the BMPs identified in this SWPPP are inadequate, due to the actual discharge of or potential to discharge a significant amount of any pollutant, appropriate BMPs or design changes shall be implemented as soon as possible.

Maintaining an Updated Construction SWPPP

- This SWPPP shall be retained on-site or within reasonable access to the site.
- The SWPPP shall be modified whenever there is a change in the design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the state.
- The SWPPP shall be modified if, during inspections or investigations conducted by the owner/operator, or the applicable local or state regulatory authority, it is determined that the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site. The SWPPP shall be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP shall be completed within 7 days following the inspection.

Element #13: Protect Low Impact Development BMPs

This section of the SWMMWW is primarily focused on protecting bioretention facilities, rain gardens, and permeable pavement from sedimentation and compaction. However, the County and its construction contractor should protect proposed dispersion areas on the site from compaction due to construction equipment.

CONSTRUCTION SCHEDULE AND PHASING

The proposed construction schedule is as follows:

Final Design:	Fall 2019
Advertise Project:	Winter 2020
Award Project:	Late Winter/Early Spring 2020
Begin Construction:	Spring 2020
End Construction:	Early Fall 2020

ENGINEERING CALCULATIONS

Sizing for stormwater BMPs is described in the Stormwater Site Plan Report.

CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

The selected contractor will be required to provide a CESCL for the duration of construction.

REFERENCES

Brinson, M.M. 1993. A Hydrogeomorphic Classification for Wetlands. Technical Report WRP-DE-4. US Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. August.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. Publication FWS/OBS-79/31. US Department of the Interior, Fish and Wildlife Service, Office of Biological Services.

Herrera. 2017. Critical Areas Site Assessment: Pressentin Park Side Channel Restoration Project, Prepared for Skagit Fisheries Enhancement Group by Herrera Environmental Consultants, Inc., Seattle, Washington.

Herrera. 2018. Technical Memorandum: Hydraulic Analysis for the Pressentin Park Side Channel Restoration Phase 2 Design. Prepared for Skagit Fisheries Enhancement Group by Herrera Environmental Consultants, Inc., Seattle, Washington.

Hruby, T. 2014. Washington State Wetland Rating System for Western Washington: 2014 Update. Publication #14-06-029. Washington State Department of Ecology, Olympia, Washington. October.

NRCS. 2017. Official Soil Series Descriptions. Natural Resources Conservation Services, US Department of Agriculture, Natural Resources Conservation Service. Accessed September 25, 2017.

<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/geo/?cid=nrcs142p2_053587>.

Perrone. 2018. Technical Memorandum: Pressentin Park. Perrone Consulting 2018.

Skagit County. 2011. Appendix B Shoreline Inventory Map Folia: Western Region. <<http://www.skagitcounty.net/Departments/PlanningAndPermit/SMPappendixBWEST.htm>>.

Skagit County. 2016. Skagit County Shoreline Master Program, Public Comment Draft. February 4.

APPENDIX G

Cultural Resources Monitoring Plan

CULTURAL RESOURCES REPORT COVER SHEET

Author: Kelly R. Bush

Title of Plan: Archaeological Monitoring Plan: Pressentin Park Side Channel, Skagit County, Washington

Date of Report: November 13, 2019

County: Skagit Section: 18; 13 Township: 35 N Range: 11 E; 10 EE/W

Quad: Marblemount Acres: ~74.36

PDF of report submitted (REQUIRED) Yes

Historic Property Inventory Forms to be Approved Online? Yes No

Archaeological Site(s)/Isolate(s) Found or Amended? Yes No

TCP(s) found? Yes No

Replace a draft? Yes No

Satisfy a DAHP Archaeological Excavation Permit requirement? Yes # No

Were Human Remains Found? Yes DAHP Case # No

DAHP Archaeological Site #:
45SK139

ARCHAEOLOGICAL MONITORING PLAN: PRESENTIN PARK SIDE CHANNEL, SKAGIT COUNTY WASHINGTON

Prepared for: Skagit Fisheries Enhancement Group and Skagit County Parks and Recreation



November 13, 2019

Prepared by:



1229 Cleveland Avenue, Mount Vernon, Washington 98273 • Tel 360-826-4930 • Fax 360-826-4830 • www.equinoxerci.com

CREDITS AND ACKNOWLEDGMENTS

PRINCIPAL INVESTIGATOR Kelly R. Bush, MA
REPORT AUTHORS Kelly R. Bush
GRAPHICS Caspian Hester BA
PROJECT CONTACTSusan Madsen, Skagit Fisheries Enhancement Group
..... Brian Adams, Skagit County Parks
TRIBAL CONTACTS Kevin Joseph, Sauk-Suiattle Indian Tribe
..... Josephine Jefferson, Swinomish Indian Tribal Community
..... Scott Schuyler, Upper Skagit Indian Tribe
LEAD AGENCIES.....United States Army Corps of Engineers
.....Recreation and Conservation Office
DAHP CONTACTS Dr. Robert Whitlam
.....Dr. Guy Tasa

Equinox Research and Consulting International Inc. (ERCI) would like to thank Skagit Fisheries Enhancement Group, for their ongoing commitment to the process and archaeological resources.

We extend our thanks to the representatives of the Sauk–Suiattle Indian Tribe, Swinomish Indian Tribal Community and the Upper Skagit Indian Tribe for their insights and timely attention to our projects.

The opinions and recommendations in this report are those of ERCI alone and do not necessarily reflect those held by any of the organizations or individuals mentioned above. Any errors or omissions are ERCI’s responsibility.

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Table 1: Cultural Resource Reports. 6

1.0 INTRODUCTION

County	Skagit
TRS	Township 35, Range 10 East, Section 13; Township 35, Range 11 East, Section 18
Quad	Marblemount
Parcel ID and Addresses	P45191 [59992 SR 20], P45194 [59924 SR 20], P46147, P46151 [60060 SR 20], P46151, P46152, P46162, P46175, P130473, P124415
Property Owner	Skagit County Parks
Area	74.36 acres
Lat/Long	48° 31' 36.38" N/ 121° 26' 26.07" W
UTM Zone	Zone 10 615432.6 Easting 5375806.8 Northing
Elevation	302-322'
Nearest Water Body	Skagit River, Cascade River
Major Land Feature	Sauk Mountain, River terrace
Soils	Larush fine sandy loam, 0-5% slopes: Pilchuck loamy sand, 0-3% slopes
Geology	Pleistocene; glacial drift, WAQg;0
Arch Site	45SK139

This monitoring plan outlines how Equinox Research and Consulting International Inc. (ERCI) will provide professional archaeological monitoring during ground-disturbing activities for the Pressentin Park Side Channel Project (the Project), in Skagit County, Washington (Figure 1–Figure 5). Archaeological fieldwork, and reporting will be directed by a Secretary of the Interior-qualified archaeologist using Washington State standards for cultural resource reporting.

Recorded archaeological site 45SK139, with significant precontact components, is located on a terrace along the northern portion of the Project area. During testing, ERCI identified archaeological material in several shovel tests. Tribal consultation during Project planning indicated a need for archaeological oversight throughout the project planning and implementation. The Project falls within an area of traditional cultural value for consulting tribes.

This project has two components one that is managed by the United States Army Corps of Engineers which is guided by Section 106 of the National Historic Preservation Act and one that is managed by the Recreation and Conservation Office which is guided by Washington State Executive Order 05-05.

Section 106 of the National Historic Preservation Act (NHPA) requires agencies to consider the effects of their actions on historic properties and to consult with others in carrying out historic preservation activities. This process is regulated in part by 36 CFR 800 issued by the Advisory Council on Historic Preservation. The United States Army Corps of Engineers (USACE) is a permitting agency for the flood plain restoration activities associated with this project and will be carrying out Tribal consultation.

RCO is a significant funder of recreational elements located within the floodplain as well as work activities in the support of developing park amenities on the terrace above the floodplain on the west side of the park and will be carrying out tribal consultation and review of cultural resources. The area of potential effects (APE) for this project is outlined on Figure 2–Figure 5.

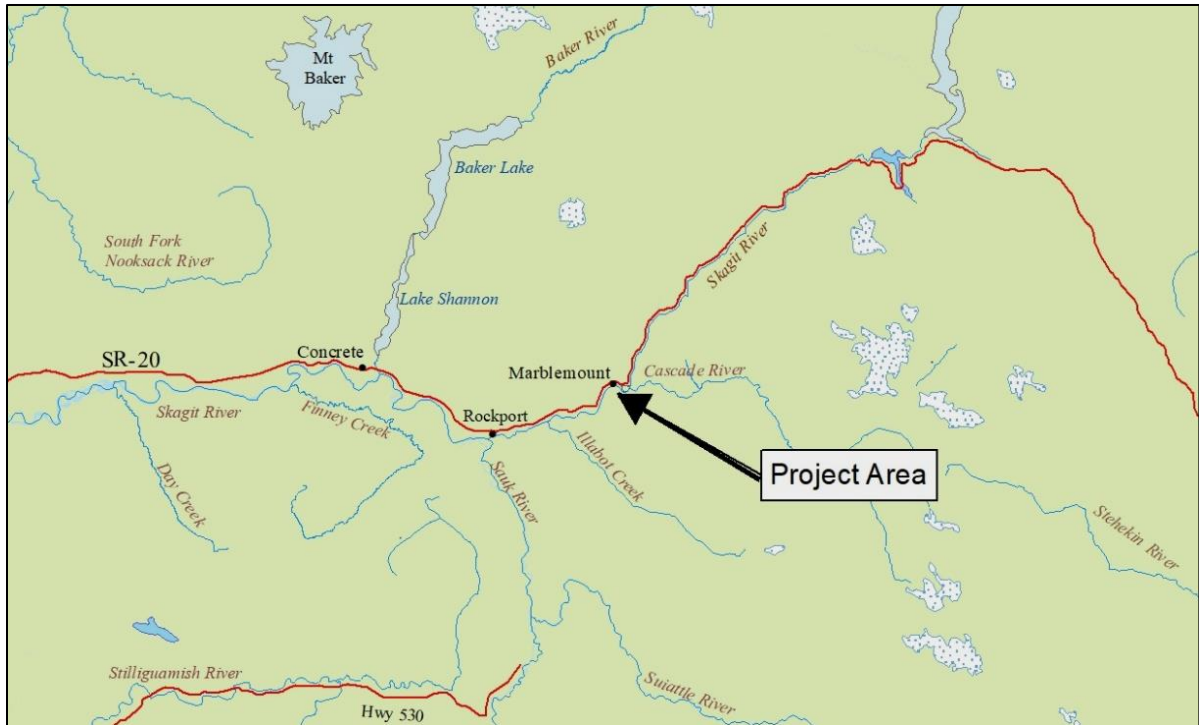


Figure 1: Regional map showing the location of the APE.

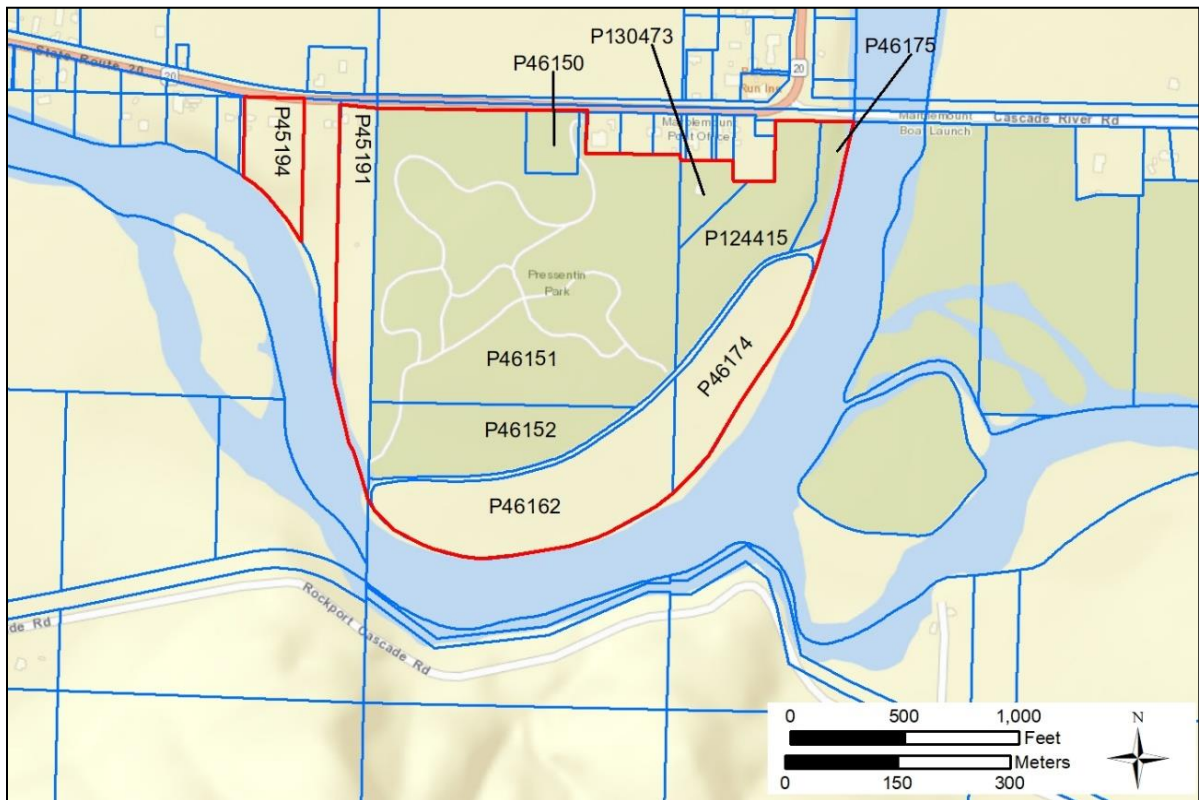


Figure 2: Skagit County Assessor's map showing overall project area parcels in red.

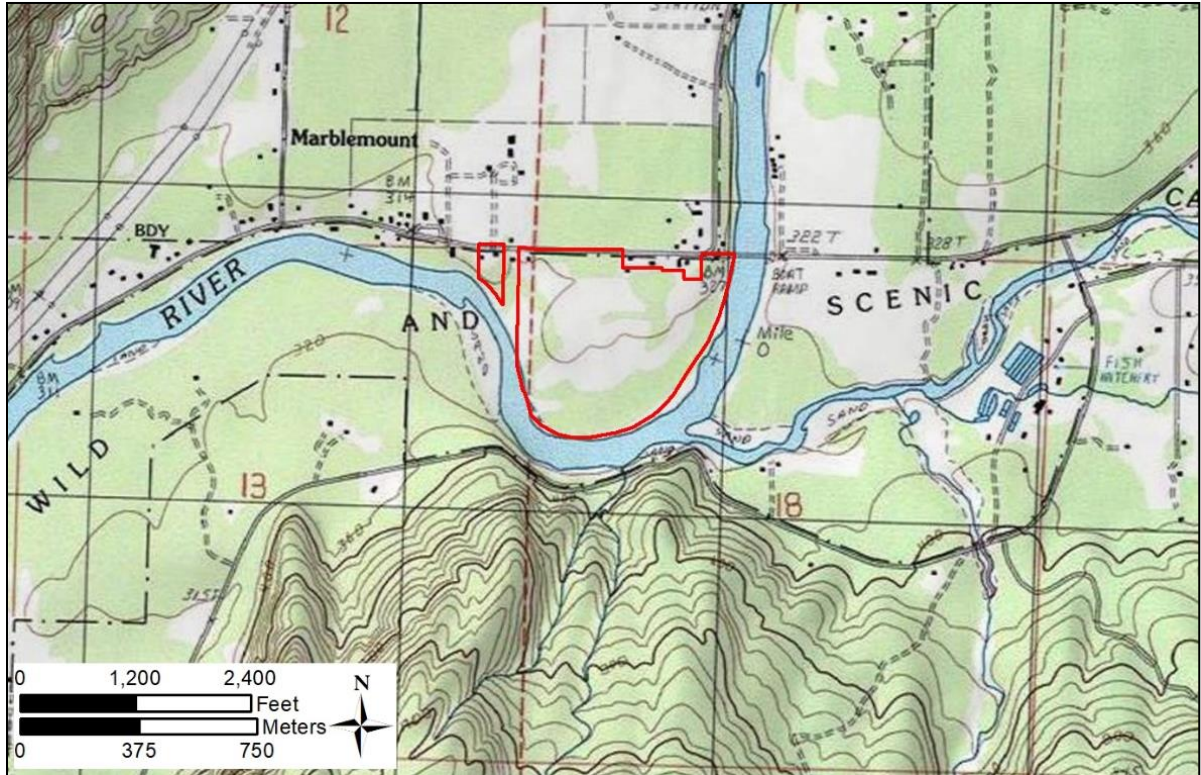


Figure 3: USGS Marblemount 7.5-minute quadrangle map showing the overall project area in red.

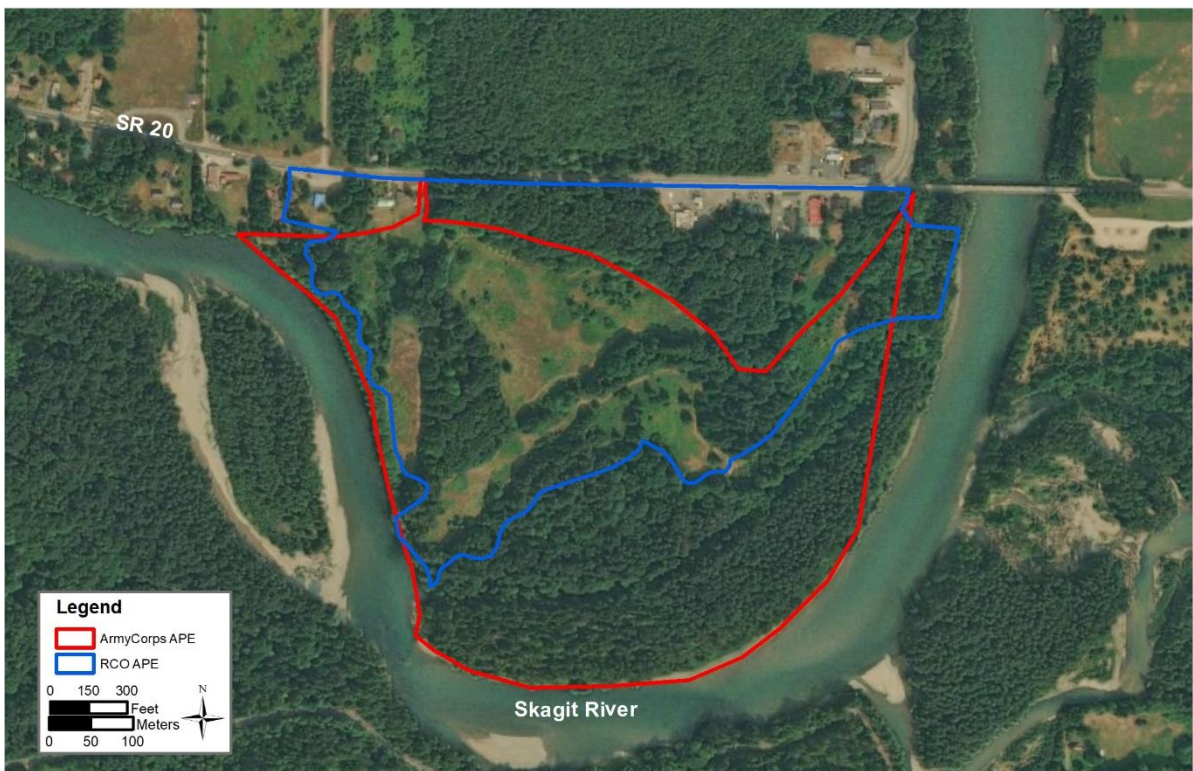


Figure 4: Aerial with both APES-USACE in Red and RCO in Blue.

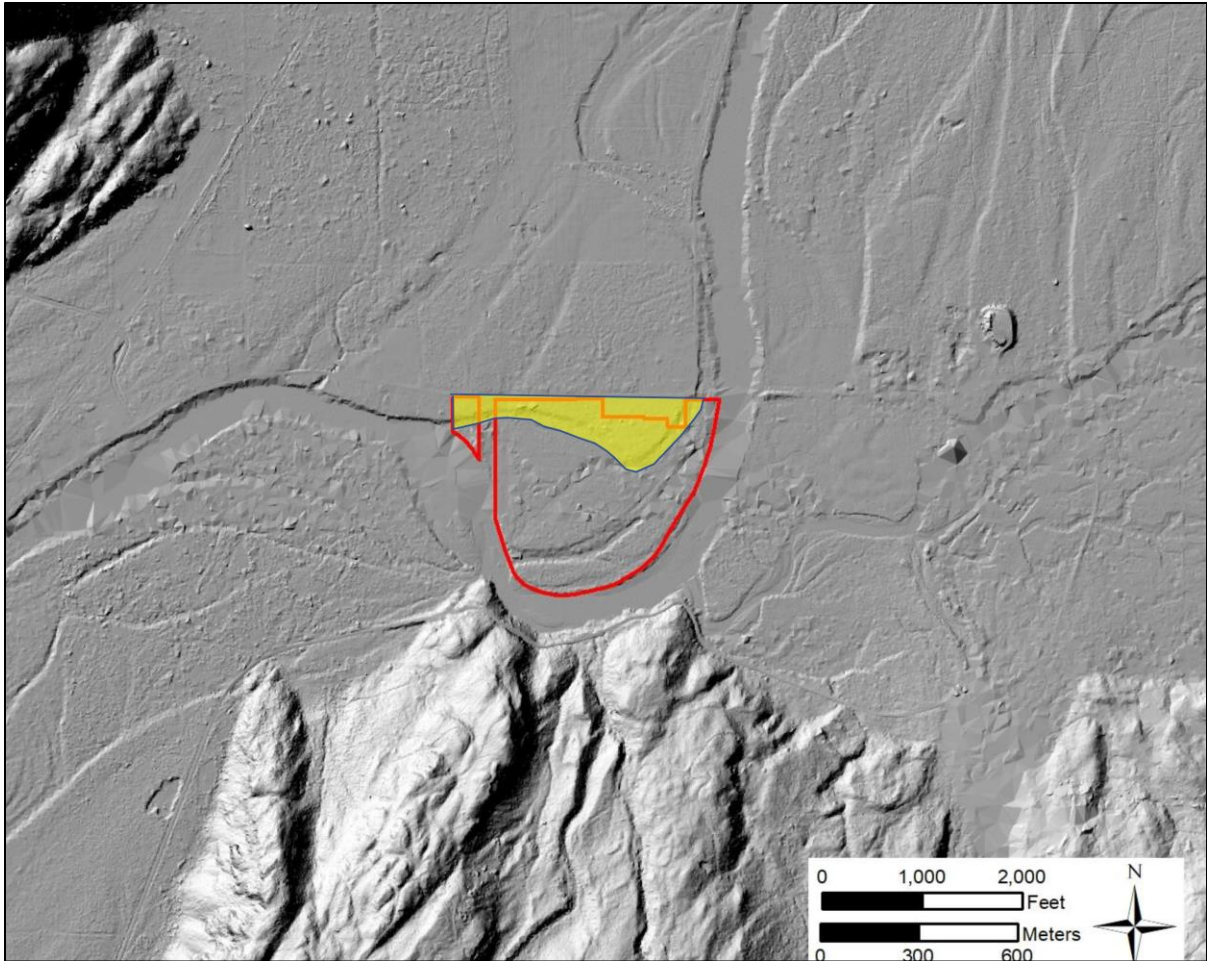


Figure 5: No disturbance area in yellow.

2.0 PROJECT LOCATION

This project has two APEs in a single project area. The overall project area is bordered to the east, west, and south by the Skagit River, and to the north by the privately held land, and Highway 20, on an old river terrace (Figure 2). The APEs are based on the activities that are either funded or regulated by the two separate agencies. The USACE is permitting the habitat restoration project that is primarily in the floodway of the Skagit River with a small spur of project activity where the equipment will drive across the culture rich terrace. Recreation and Conservation Office is funding project activities related to trail work and other recreation related constructs. They have activities in the floodway and on the terrace but they are planning the terrace activities to have no effect on the archaeological deposits and have been careful to consider their design based on this challenge.

3.0 PROJECT DESCRIPTIONS

The Project is twofold, the USACE component is designed to restore connectivity and improve floodplain functioning of the Skagit River and the second, the RCO funded component is to create education and recreation opportunities for the public (Skagit Fisheries Enhancement Group and Herrera Environmental Consultants, Inc. 2017). To do this the property owner, Skagit County Parks and Recreation and Skagit Fisheries Enhancement Group (SFEG) intend to reconnect an approximately ½-mile-long side channel, improve the park trail network, creating approximately 2/3 mile of ADA-accessible trails, 2.5 miles of surface walking paths, create a primitive walk-in and bike-in camping area and install two picnic areas with small shelters, and a third picnic area near the orchard area closer to the terrace.

4.0 REGULATORY FRAMEWORK

The USACE is one of the permitting agencies for this project. Resources protected under Section 106 are those that are listed on, or are eligible for, listing on the National Register of Historic Places (the National Register). Eligible properties generally must be at least 50 years old, possess integrity of physical characteristics, and meet at least one of four significance criteria (described at 36 CFR 60.4). Historic properties may include archaeological sites, buildings, structures, districts, or objects. Amendments to Section 101 of the NHPA in 1992 explicitly allowed properties of traditional religious and cultural importance to be eligible for inclusion on the Register.

The Washington State Recreation and Conservation is a significant funder of this project and will be carrying out review and tribal consultation within the framework of Washington State Executive Order 05-05. Governor's executive order 05-05 was signed in November of 2005 and recognizes the rich and diverse cultural heritage of Washington State. This order requires that state agencies consult with the Department of Archaeology and Historic Preservation (DAHP) and affected Tribes into the planning process for any capital construction projects or land acquisition projects for the purpose of capital construction. The goal of this legislation is to help state agencies lead by example and to provide some consistency in the planning processes between the federal and state regulations. To help streamline review time, and to provide a framework for the resolution of concerns by affected Tribes on any state funded or permitted project or projects on state lands.

5.0 TRIBAL CONSULTATION

Agencies for the government recognize the long and unique relationship that the government has had with Indian tribes. These responsibilities have grown from the historic relationship between the Federal government and the Indian tribes including treaties, public laws, policies, statutes and executive orders.

SFEG Project Manager Sue Madsen, and Brian Adams Skagit County Parks Director, have been in direct contact with tribal representatives from the Sauk-Suiattle Indian Tribe (SSIT), the Swinomish Indian Tribal Community (SITC), and the Upper Skagit Indian Tribe (USIT). The SSIT and USIT have both made site visits and had tours with Ms. Madsen and Kelly Bush of ERCI. Tribal representatives are the only people qualified to determine if Traditional Cultural Properties exist within the APE, whether they will be affected by the undertaking and how any suggested management strategies might work.

Coordination between the tribes and both proponents and the ERCI will continue throughout project implementation.

6.0 PREVIOUS ARCHAEOLOGY

For general overviews of the archaeology and cultural resources of the Northwest Coast, see Ames (1995, 2003, 2005a, 2005b), Ames and Maschner (1999), Borden (1950, 1951, 1962, 1968, 1975), Boyd (1998, 1999), Butler (1961), Butler and Campbell (2004), Campbell (1991), Carlson (1990), Carlson and Dalla Bona (1996), Fladmark (1982), Matson and Coupland (1995), Matson et al. (2003), Meltzer (2004), Meltzer and Dunnell (1987), Mitchell (1971, 1990), Nelson (1990), and Prentiss and Kuijt (2004, 2012).

The earliest archaeological studies of the region are H.I. Smith's (1900, 1907) Smith and Fowkes (1901). In addition to those cited in the next two sections, more recent archaeological and ethnographic works can be found in Avey (1991), Blukis Onat and Hollenbeck (1981), Blukis Onat et al. (1980), Burtchard (2007), Burtchard et al. (2003 [1998]), Campbell (1991), Hale (1991), Hearne and Hollenbeck (1996), Hollenbeck (1987), Hollenbeck and Carter (1986), Kidd (1964), Lewarch (1979), Lewarch and Larson (2003), Lewarch et al. (2005, 2006), Mattson (1971, 1989), Mierendorf (1986), Mierendorf et al. (1998), Miss and Campbell (1991), Samuels (1993), Schalk (1988), Snyder (1980, 1981).

6.1 Previously Recorded Archaeological Sites

45SK139—Jidsud is a large lithic site along an entire terrace to the northwest of the Cascade River within the APE. Hollenbeck (1980) recorded it as a village. Blukis Onat (1997) uncovered concentrations of fire-modified rock, charcoal and burned earth. Blukis Onat also recovered a large variety of lithic materials ranging from small to large unmodified cobbles, to large and small basalt/metasediment cobble tools and flakes as well as cryptocrystalline flakes (chert, quartzite) and a quartz microblade core fragment (Blukis Onat 1997). Bush and North's (2014b, 2014c, 2015b) investigations uncovered lithic artifacts on and at the base of the terrace consisting of an abrader and various flakes. Material types during Bush and North 2014 and 2015 investigations included fine-grained igneous, fine-grained sedimentary and quartzite. ERCI's Shantry (2018) encountered one cryptocrystalline silicate flaked tool on the terrace during further shovel testing in 2017. The 2014, 2015 and 2017 finds expanded the boundary of this lithic site. Bush and North's (2015b) investigations also uncovered protohistoric flaked-glass.

6.2 Previous Cultural Resources Surveys

Five cultural resource surveys have taken place within the site boundary of *45SK139*. Three of these involved shovel testing (Bush and North 2014a, 2015a; Larsen 2000) and one involved 1-by-1-meter unit excavation (Walker et al. 2009).

Table 1: Cultural Resource Reports.

Author	Title	Date
Larsen	<i>A Cultural Resources Survey of the Skagit County Public Utility District's Proposed Water System Project for the Town of Marblemount, Skagit County, Washington</i>	2000
Walker et al.	<i>Cultural Resources Monitoring and Data Recovery Excavations at Site 45SK139 for the Marblemount Water System Project, Skagit County, Washington</i>	2009
Bush and North	<i>Archaeological Investigation Report: Pressentin Park Side Channel Feasibility Study, Skagit County, Washington</i>	2014a
Bush and North	<i>Archaeological Investigation Report: Pressentin Park Side Channel Feasibility Study Phase II Investigation, Skagit Count, Washington</i>	2015a

Author	Title	Date
Shantry	<i>Archaeological Letter Report: Archaeological Monitoring on Parcel 45194 for the Pressentin Park Side Channel Restoration, Marblemount, Skagit County, Washington</i>	2018

7.0 MONITORING PROTOCOL

ERCI’s management recommendations (Bush and North 2014a, Bush 2019) will guide the monitoring protocol during all further work associated with this project. The nature of this project provides enough flexibility to avoid archaeological resources.

Monitoring for the Project is two-phased:

1. Phase One: Various activities associated with planning and design or other preparation. This could also include additional subsurface testing of any property added to the APE or activities within the existing APE that have not been tested yet.
2. Phase Two: Monitoring during construction.

Scheduling with Tribes:

During the both phases of project activities ERCI will provide schedule activities to the tribes so they can track project progress and provide cultural monitors where needed. Specifically, all three tribes would like to be informed when there is any work happening on the terrace. The Sauk Suiattle have specifically requested to be present when trees and stumps are being removed anywhere in the project area. We will work to provide the construction schedule to the tribes when it becomes available and provide 48 hours notice for tree removal.

Procedure on tree removal:

- SFEG will mark all the trees for removal and offer an opportunity to tribes to inspect prior to removal.
- If any trees slated for removal are identified by tribal members as important during preview, tribal members will be provided a private opportunity to spend time with those trees prior to removal.
- On the terrace any trees or stumps that need to be removed will be cut or ground to surface level with no sub surface disturbance

Before any ground-disturbing activities begin, the archaeologist will provide sufficient information to the on-site Project representatives/superintendent regarding the laws governing archaeological material and the procedures involved should any be encountered during the Project. **The archaeologist will also provide a training to all workers associated with this project** regarding what areas of the APE have restricted access and what kinds of objects and deposits the archaeologists will be looking for. The archaeologist and the Project proponents will ensure that all people working in the APE understand who the archaeological monitor is and what their role is. Training will include an Unanticipated Discoveries Protocol training for **all** Project personnel who will be working on site. This brief training will be repeated during the Project as new construction workers arrive on the Project. A dated sign-in sheet with the name and affiliation of all participants will be kept on file with ERCI and provided electronically to the Project proponents.

The archaeological monitor will have a copy of the approved monitoring plan on site at **all** times. When the archaeologist is not on site a copy of the Unanticipated Discovery Protocol will be kept on site at

all times. The archaeological monitor will be on site during all activities on the terrace or within 50 feet of the toe of the terrace.

Archaeological monitoring may involve visually examining excavated soils and sidewalls of excavated areas for specific indicators of cultural resources. The monitor may need to stand close to machines and be able to examine the sediments on the ground, in the bucket, or in the back-dirt pile. The monitor may also need to request a closer look at some *in situ* sediments or profiles and will require the ability to talk directly to the machine operator and the on-site superintendent.

If needed, an additional archaeologist(s) will be called to the APE when ground-disturbing activities are being carried out in more than one area at a time.

The archaeological monitor/s will fill out detailed monitoring forms with descriptions of the Project activities and take a series of before, during and after photographs. A combination of hand sketch-mapping and GPS data will be used to document locational information. The notes, locational data and photos will be used to create a report.

Based on archival research the following deposits may be encountered during Project implementation:

- Sterile imported fill or sterile local alluvial or colluvial deposits sometimes with modern refuse
- Historical disturbed culture rich deposits, features or objects
- Historical intact culture-rich deposits, features or objects
- Historic buildings or foundations
- Precontact disturbed or intact culture-rich deposits, features or objects

The protocols provided below are listed according to the type of deposits that may be encountered during Project implementation.

7.1 Sterile Deposits

Sterile imported fills are normally sediment that is very low risk for cultural resources, characterized by uniform particle size and morphology as they have been screened in a commercial quarry. Local sterile fill deposits are characterized by unsorted mixed sediments that match the local natural sediments, but lack any internal structure or soil development, or other indicators of being undisturbed. Intact native sterile deposits are identified by clear, predictable stratification. Sterile deposits will not be avoided or protected in any way during this project.

7.2 Historical Disturbed Culture-Rich Deposits

This type of cultural resource is a disturbed deposit that represents evidence of a historic activity older than 50 years, and could include burned sediments, metal, glass, ceramic or wood debris that is not in its original position. This includes deposits that may have been moved around by hand or machine in the last 100 years. Examples might include a buried pile of bricks that has been pushed into its current position sometime in the past, or discarded equipment that has been pushed into position and buried. These deposits lack integrity but can sometimes provide information based on the objects themselves.

If historical objects (such as a bottle with a maker's mark) are encountered in disturbed deposits, the archaeological monitor may carry out a limited amount of documentation. This could include mapping the location, photographing the object, writing a description that includes the measurements and details about the way the object was manufactured. The objective in documenting these items is to record any information that could provide some part of the story of these disturbed deposits. Examples of this would be a single bottle or can, car parts or other roadside trash. Following the documentation process,

historical objects from disturbed deposits will be reburied in the trench from which they came or discarded into a waste disposal receptacle.

If a historical object is encountered in a disturbed deposit that the archaeologist believes provides significant information about the historical use of the area, the monitor may carry out more in-depth documentation of the item. For example, if a complete, labeled, glass or ceramic object is encountered, the monitor would photograph it, and record its attributes such as size, morphology and markings. If the monitoring is very busy the monitor may collect temporarily any historic object to be recorded back in the ERCI lab prior to disposal.

Significant objects from disturbed deposits that are significant, unique or previously unknown in that locality (for example: Hudson's Bay Trading Beads, bone toothbrushes, complete clay tobacco pipes) will be bagged and temporarily stored at the offices of ERCI until a suitable long-term management strategy can be developed. This process would be managed by the Lead Agency.

7.3 Historical Intact Culture-Rich Deposits

If two or more artifacts older than 50 years (i.e., historical) are found in clear archaeological association, in the same, intact matrix, this will be considered a feature. If an intact historical feature cannot be avoided, excavating machinery will be moved a safe distance away to continue other Project activities. The archaeological monitor will document the location, nature and character of the intact historical feature, photographically document it, and provide a written description and eligibility recommendation to the Lead Agency or agencies, who will consult with the DAHP for concurrence on an eligibility determination.

Intact historical deposits/features will be identified by the following characteristics:

1. A clear/distinct, mostly continuous, interface between the feature and the surrounding matrix.
2. The internal structure of the feature would be easily identified and characterized. An example of this would be a buried cellar, privy, buried boardwalk or foundation.

Additional examples of intact historical deposits/features include:

1. Old infrastructure that retains its spatial connections to a larger system, such as buried brick wastewater vaults or wood stave pipes that are part of a still-intact system.
2. A distinct residential or commercial dump that can be identified to a specific person, business or industry.

7.4 Historical Buildings or Foundations

There are three structures that Skagit County Parks Department that will be removed prior to this project with internal funding from Skagit County Parks. These three buildings have been recorded (Bush 2019). The building that previously housed the "Good Foods" restaurant is staying in place although it will receive a new roof and other cosmetic improvements. The house currently owned by Skagit County Parks (P45191) near the access way across the terrace is also remaining.

Should any other building or house foundation be encountered during construction and need to be removed or modified, the foundation/feature would need to be evaluated for its eligibility for listing on the National Register, and if the determination would need to be provided to RCO, the USACE and the Department of Archaeology and Historic Preservation (DAHP) and the affected Tribes. They would then determine what, if any, mitigation would be required prior to any building or feature removal. If anything like this is encountered during monitoring the equipment would need to be moved away while enough data for management was collected and provided to the Lead Agencies for determination. Approval to remove or disturb the foundation/feature will be provided by the Lead Agencies.

7.5 Precontact Disturbed Culture-Rich Deposits

If a suspected precontact culture-rich deposit is observed during monitoring and cannot be avoided, equipment must be moved away and the archaeological monitor will assess the nature of the deposits. This may take up to 2 hours. If the deposits can be avoided, then the Project work can carry on and the deposits will remain undisturbed. If the deposits cannot be avoided the on-site superintendent will ensure that equipment is moved to a safe distance away (30 feet) from the evaluation area. Work can continue elsewhere with a second archaeological monitor during the evaluation. The archaeologist will need to determine if it is disturbed or intact and collect enough information to make an eligibility determination and fulfill the requirements of the archaeological permit. The archaeologist will document the location, nature and character of the deposit, photographically document it, and provide a written description and eligibility recommendation to the Lead Agency, who will consult with the DAHP and affected tribes for concurrence on an eligibility determination and the plan to move forward.

7.6 Precontact Intact Culture-Rich Deposits

Intact precontact deposits **will be avoided** on this project. If intact culture-rich deposits cannot be avoided, then a discovery/evaluation process must be developed and provided in writing to the Lead Agencies to start consultation with DAHP and the affected tribes. To be clear it is not the intent of this monitoring plan to provide a framework for disturbing intact deposits. The archaeologist will document the location, nature and character of the intact deposit, document it photographically, and provide a written description to the Lead Agencies to assist in this consultation process.

Intact precontact deposits or features will be identified by a combination of the following characteristics:

1. Include but are not limited to: fire-modified rock in a hearth feature, animal bone, concentrations of shell, lithic debitage (stone flakes from stone tool manufacture), flaked or ground-stone tools, burned earth, organic-stained sediments, charcoal, ash, non-local rocks and minerals.
2. Buried rock arrangements in association with nitrogen or carbon rich sediments indicative of human activity;
3. Artifacts in a developed soil that shows no signs of being disturbed
4. Intact features such as a hearth, camas or other root ovens for plant processing, wood arrangements related to fishing, remnants of cooking, and smoking or drying racks.
5. Preserved basketry, matting, cordage or other plant/fiber-based precontact artifacts.

The process will involve the project archaeologist providing documentation and recommendations to the project Proponents (SFEG and Skagit County Parks) to provide to the agencies (USACE and RCO) to engage in consultation with DAHP and the affected tribes. A Mitigative Plan will need to be developed that will be carried out prior to the Project being able to proceed in this location. All parties will need to be engaged in the construction of the plan.

In the unlikely event that human remains are inadvertently encountered at any time during the Project, the protocol outlined in the Inadvertent or Unanticipated Discoveries Plan (Section 8.0, below) will be followed.

7.7 Reporting

During active archaeological monitoring a weekly email summary will be sent out to the agencies and other consulting parties. Within 30 days following Project completion, all archaeological monitoring activities will be detailed in a report and submitted to the agencies and consulting parties.

8.0 INADVERTENT AND UNANTICIPATED DISCOVERIES

Inadvertent or unanticipated archaeological discoveries may include the discovery of archaeological cultural items or human remains that were not anticipated for a project based upon the current data or information available for the site where the Project will occur. Federal and State agencies have guiding documents for protocols to be followed in the event of inadvertent discoveries in order to comply with federal and state laws. ERCI has also prepared a specific plan for such discoveries.

If any unexpected or suspicious objects or deposits are encountered during construction of the project when the archaeological monitor is not on site, machinery should be moved to a safe distance away and can continue other Project activities. The project proponent will contact the Project archaeologist who will evaluate will determine if the deposits represent disturbed or intact, precontact or historic deposits. All this information must be provided to the project proponent, the lead and permitting agencies who will consult with DAHP and the tribes should that be necessary. **The current plan is to avoid all intact or disturbed archaeological deposits associated with the precontact land use in this project area.**

Human Remains

Discovery of human remains is not anticipated for this project. Human remains are protected, by law, on both federal and non-federal lands. In all cases involving human remains, work will cease immediately to follow proper protocols and avoid further disturbance to remains.

Inadvertent Discovery of Human Skeletal Remains

On Non-Federal and Non-Tribal Land in the State of Washington (RCWs 68.50.645, 27.44.055, and 68.60.055).

If ground disturbing activities encounter human skeletal remains during the course of construction, then all activity will cease that may cause further disturbance to those remains. The area of the find will be secured and protected from further disturbance. The finding of human skeletal remains will be reported to the Skagit County Coroner (360-336-9431) and Skagit County Sheriff's Office (360-336-9450 or 911) in the most expeditious manner possible. The remains will not be touched, moved, or further disturbed. The county medical examiner/coroner will assume jurisdiction over the human skeletal remains and make a determination of whether those remains are forensic or non-forensic. If the county medical examiner/coroner determines the remains are non-forensic, then they will report that finding to the DAHP who will then take jurisdiction over the remains. The DAHP will notify any appropriate cemeteries and all affected tribes of the find. The State Physical Anthropologist, Dr. Guy Tasa (360-586-3534), will make a determination of whether the remains are Indian or Non-Indian and report that finding to any appropriate cemeteries and the affected tribes. The DAHP will then handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.

Cultural Material

Cultural material that may be protected by law could include but is not limited to:

- Logging, mining, railroad, or agriculture equipment older than 50 years (Figure 6)
- Historic foundations (Figure 7)
- Historic bottles, china and soldered dot cans (Figure 8–Figure 9)
- Buried cobbles that may indicate a hearth feature
- Non-natural sediment or stone deposits that may be related to activity areas of people (e.g., Figure 10)
- Stone tools or stone flakes, projectile points (arrowheads), ground stone adzes or grinding stones (abraders) (Figure 11–Figure 14)

- Bone, shell, horn, or antler tools that may include scrapers, cutting tools, wood working wedges (Figure 15, Figure 16)
- Perennially damp areas may have preservation conditions that allow for remnants of wood and other plant fibers; in these locations there may be remains including fragments of basketry, weaving, wood tools, or carved pieces (Figure 17)
- Ancestral human remains



Figure 6: Example of railroad ties for UDP.



Figure 7: Example of historic foundation for UDP.



Figure 8: Example of historic glass artifacts for UDP.



Figure 9: Example of historic solder dot can for UDP



Figure 10: Example of protected rock-lined hearth feature for UDP.



Figure 11: Example of projectile point for UDP.



Figure 12: Example of protected adze blade for UDP.



Figure 13: Example of stone tool for UDP.



Figure 14: Example of stone tool for UDP.



Figure 15: Example of bone awl for UDP.



Figure 16: Example of worked bone and dog fish spines for UDP.



Figure 17: Example of cedar bark basketry for UDP.

CONTACT LIST

Sue Madsen	Skagit Fisheries Enhancement Group	360-336-0172	smadsen@skagitfisheries.org
Brian Adams	Skagit County Parks and Recreation	360-416-1350	briana@co.skagit.wa.us
Sheriff	Skagit County	360-336-9450	sheriff@co.skagit.wa.us
Coroner	Skagit County	360-336-9431	coroner@co.skagit.wa.us
Kevin Joseph	Sauk-Suiattle Indian Tribe	360-436-0333	KJoseph@sauk-suiattle.com
Josephine Jefferson	Swinomish Indian Tribal Community	360-488-3860	jjefferson@swinomish.nsn.us
Scott Schuyler	Upper Skagit Indian Tribe	360-982-8218	sschuyler@upperskagit.com
Robert Whitlam	Washington State DAHP, State Archaeologist	360-586-3080	Rob.Whitlam@dahp.wa.gov
Guy Tasa	Washington State DAHP, State Physical Anthropologist	360-586-3534	Guy.Tasa@dahp.wa.gov
Kelly Bush	Project Archaeologist (ERCI)	360-661-0356	kelrbush@equinoxerci.com

9.0 REFERENCES CITED

Ames, Kenneth M.

1995 Chiefly Power on the Northwest Coast. In *Foundations of Social Inequality*, edited by T. Douglas Price and Gary M. Feinman, pp. 155–187. Plenum Press, New York.

2003 The Northwest Coast. *Evolutionary Archaeology* 12:19–33.

2005a Intensification of Food Production on the Northwest Coast and Elsewhere. In *Keeping it Living: Traditions of Plant Use and Cultivation on the Northwest Coast of North America*, edited by Douglas Deur and Nancy J. Turner, pp. 67–100. University of Washington Press, Seattle.

2005b Tempo and Scale in the Evolution of Social Complexity in Western North America: Four Case Studies. In *North American Archaeology*, edited by Timothy R. and Dianda Dipaolo Lored, pp. 46–78. Blackwell Publishing, Oxford.

Ames, Kenneth M., and H.D.G. Maschner

1999 *Peoples of the Northwest Coast: Their Archaeology and Prehistory*. Thames & Hudson, New York.

Avey, Mike G.

1991 *Fluted Point Occurrences in Washington State*. Fort Steilacoom Community College, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.

Blukis Onat, Astrida R.

1997 *Forest Service-Region Six Cultural Resource Inventory (45SK139)*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.

Blukis Onat, A. R., and J. Hollenbeck (editors)

1981 *Inventory of Native American Religious Use, Practices, Localities and Resources. Study Area on the Mt. Baker-Snoqualmie National Forest, Washington State*. Mt. Baker-Snoqualmie National Forest, Seattle, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.

Blukis Onat, Astrida R., Lee A. Bennett, and Jan L. Hollenbeck

1980 *Cultural Resource Overview and Sample Survey of the Skagit Wild and Scenic River: Study Area on the Mt. Baker-Snoqualmie National Forest, Washington State*. 3 volumes with appendices. Report prepared for the Mt. Baker-Snoqualmie National Forest, Mountlake Terrace, Washington. Institute of Cooperative Research. On file at Washington State Department of Archaeology and Historic Preservation, Olympia.

Borden, Charles E.

1950 Notes on the Prehistory of the Southern Northwest Coast. *British Columbia Historical Quarterly* 14:241–246.

1951 Facts and Problems of Northwest Coast Prehistory. *Anthropology in British Columbia* 2:35–37.

1962 West Coast Crossties with Alaska. In *Prehistoric Cultural Relations between the Arctic and Temperate Zones of North America*, edited by J. M. Campbell, pp. 9–19. Arctic Institute of North America, Technical Paper 11. Arctic Institute of North America, Montreal.

1968 Prehistory of the Lower Mainland. In *Lower Fraser Valley: Evolution of a Cultural Landscape*, edited by A.H. Siemens, pp. 9–26. British Columbia Geographical Series 9. Tantalus Research, Vancouver.

1975 *Origins and Development of Early Northwest Coast Culture to about 3000 B.C.* National Museum of Man Mercury Series, Archaeological Survey of Canada Paper No. 45. National Museum of Man, Ottawa.

Boyd, Robert

1998 *The Coming of Spirit and Pestilence, Introduced Diseases and Population Decline among Northwest Coast Indians, 1774–1874*. University of Washington Press, Seattle.

- 1999 *Indians, Fire, and the Land in the Pacific Northwest*. Oregon State University Press, Corvallis.
- Burtchard, Greg C.
2007 Holocene Subsistence and Settlement Patterns: Mount Rainier and the Montane Pacific Northwest. *Archaeology in Washington* 13:3–44.
- Burtchard, Greg C. (with contributions by Stephen C. Hamilton and Richard H. McClure, Jr.
2003 [1998] Environment, Prehistory & Archaeology of Mount Rainier National Park, Washington. prepared for United States Department of the Interior National Park Service, Columbia Cascades System Support Office, Seattle, Washington. International Archaeological Research Institute, Inc., Honolulu, Hawaii. Electronic document, <http://www.npshistory.com/publications/mora/environment-prehistory-archaeology.pdf>, accessed October 24, 2018.
- Bush, Kelly R., and Michelle N. North
2014a *Archaeological Investigation Report: Pressentin Park Side Channel Feasibility Study, Skagit County, Washington*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
2014b *State of Washington Archaeological Site Inventory Form Update (45SK139)*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
2014c *State of Washington Archaeological Site Inventory Form Update (45SK139)*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
2015a *Archaeological Investigation Report: Pressentin Park Side Channel Feasibility Study Phase II Investigation, Skagit County, Washington*. On file at ERCI headquarters, Mount Vernon
2015b *State of Washington Archaeological Site Inventory Form Update (45SK139)*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Butler, B.R.
1961 *The Old Cordilleran Culture in the Pacific Northwest*. Occasional Papers of the Idaho State College Museum 5. Idaho State College, Pocatello.
- Butler, Virginia, and Sarah Campbell
2004 Resource Intensification and Resource Depression in the Pacific Northwest of North America: A Zooarchaeological Review. *Journal of World Prehistory* 18:327–405.
- Campbell, Sarah K.
1991 *Postcolumbian Culture History in the Northern Columbian Plateau A.D. 1500–1900*. Taylor & Francis, New York.
- Carlson, Roy
1990 Cultural Antecedents. In *Northwest Coast*, edited by Wayne Suttles, pp. 60–69. Handbook of North American Indians, Vol. 7. Smithsonian Institution, Washington, D.C.
- Carlson, Roy, and Luke R. Dalla Bona (editors)
1996 *Early Human Occupation in British Columbia*. University of British Columbia Press, Vancouver.
- Fladmark, Knut R.
1982 An Introduction to the Prehistory of British Columbia. *Canadian Journal of Archaeology* 6:95–156.
- Hale, James
1991 *Cultural Resource Reconnaissance Report for East Baker Lake Hiking Trail Extension, CR05-91-20*. Report on file at the Mt. Baker-Snoqualmie National Forest, Mt. Baker Ranger District, Sedro Woolley, Washington.
- Hearne, Carol, and Jan L. Hollenbeck
1996 *Cultural Resource Reconnaissance Report. Mt. Baker–Snoqualmie National Forest CRR No. (FY) CR05-92-026*. On file at Washington State Department of Archaeology and Historic Preservation, Olympia.

- Hollenbeck, Jan L.
 1980 *Forest Service-Region Six Cultural Resource Inventory (45SK139)*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
 1987 *A Cultural Resource Overview: Prehistory, Ethnography and History. Mt. Baker–Snoqualmie National Forest*. Prepared for the United States Department of Agriculture, Forest Service, Pacific Northwest Region, Portland, Oregon. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Hollenbeck, Jan L., and Susan L. Carter
 1986 *A Cultural Resource Overview: Prehistory and Ethnography Wenatchee National Forest*. United States Department of Agriculture Forest Service Pacific Northwest Region. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Kidd, Robert Stuart
 1964 *A Synthesis of Western Washington Prehistory from the Perspective of Three Occupation Sites*. Unpublished Master's Thesis, Department of Anthropology, University of Washington, Seattle.
- Larsen, Sharon A.
 2000 *A Cultural Resources Survey of the Skagit County Public Utility District's Proposed Water System Project for the Town of Marblemount, Skagit County, Washington*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Lewarch, Dennis E.
 1979 *Summary Cultural Resources Overview of the Cedar and Tolt River Watersheds*. Office of Public Archaeology, Institute for Environmental Studies, University of Washington, Reconnaissance Report No. 24, Seattle. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Lewarch, Dennis E., Gretchen A. Kaehler, Elizabeth C. Reetz, Nichole Gillis, and Lynn L. Larson
 2006 *Brightwater Regional Wastewater Treatment System King County and Snohomish County, Washington Archaeological Resources Treatment and Monitoring Plans*. Prepared for King County Department of Natural Resources and Parks Wastewater Treatment Division. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington.
- Lewarch, Dennis E., Gretchen A. Kaehler, and Lynn L. Larson
 2005 *FINAL: Seattle Monorail Project Green Line, Seattle, King County, Washington Archaeological Resources Treatment and Monitoring Plans*. Submitted to Seattle Monorail Project, Seattle, WA. LAAS Technical Report #2004-18. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Lewarch, Dennis E., and Lynn L. Larson
 2003 *Revised Draft Historic Context Statement Hunter-Fisher-Gatherer Resources King County Cultural Resources Protection Project*. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Matson, R.G., and Gary Coupland
 1995 *The Prehistory of the Northwest Coast*. Academic Press, San Diego.
- Matson, R.G., Gary Coupland, and Quentin Mackie (editors)
 2003 *Emerging from the Mist: Studies in Northwest Coast Culture History*. Pacific Rim Archaeology. UBC Press, Vancouver and Toronto.
- Mattson, John L.
 1971 *A Contribution to Skagit Prehistory*. Unpublished Master's thesis, Department of Anthropology, Washington State University. Pullman.
 1989 *Puget Sound prehistory: postglacial adaptations in the Puget Sound basin with archaeological implications for a solution to the "Cascade Problem."* Ph.D. dissertation,

- University of North Carolina, Chapel Hill. U.M.I. Dissertation Information Service, Ann Arbor, Michigan.
- Meltzer, D.J.
2004 Peopling of North America. In *The Quaternary Period in the United States*, edited by A.R. Gillespie, S.C. Porter, and B.F. Atwater, pp. 505–563. Developments in Quaternary Science. Elsevier, Seattle, Washington.
- Meltzer, D.J., and R.C. Dunnell
1987 Fluted Points from the Pacific Northwest. *Current Research in the Pleistocene* 4:64-67.
- Mierendorf, Robert R.
1986 *People of the North Cascades*. National Park Service, Pacific Northwest Region, Seattle, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Mierendorf, Robert R., David J. Harry, and Gregg M. Sullivan
1998 *An Archaeological Site Survey and Evaluation in the Upper Skagit River Valley, Whatcom County, Washington*. Technical report NPS/CCNOCA/CRTR-98/01, North Cascade National Park Service Complex, Sedro Woolley, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Miss, Christian J., and Sarah K. Campbell
1991 *Prehistoric Cultural Resources of Snohomish County, Washington*. Prepared for the Washington State Office of Archaeology and Historic Preservation, Contract No. 2-90- 710-18. NWAA, Inc., Seattle, Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Mitchell, Donald H.
1971 Archaeology of the Gulf of Georgia Area, a Natural Region and its Culture Types. *Syesis* 4:1–228.
1990 Prehistory of the Coasts of Southern British Columbia and Northern Washington. In *Northwest Coast*, edited by W. Suttles, pp. 340–358. Handbook of North American Indians. vol. 7, W.C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.
- Nelson, Charles M.
1990 Prehistory of the Puget Sound Region. In *Northwest Coast*, edited by Wayne Suttles, pp. 481–484. Handbook of North American Indians, Vol. 7, William C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.
- Prentiss, Anna Marie, and Ian Kuijt
2012 *People of the Middle Fraser Canyon: An Archaeological History*. University of British Columbia Press, Vancouver.
- Samuels, S.R.
1993 *The Archaeology of Chester Morse Lake: Long-Term Human Utilization of the Foothills in the Washington Cascade Range*. Center for Northwest Anthropology, Department of Anthropology, Washington State University, Pullman. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Schalk, Randall
1988 Chapter 8 Management Zones and Archaeological Expectations. In *The Evolution and Diversification of Native Land Use Systems on the Olympic Peninsula: A Research Design*, edited by Randall Schalk with contributions by David Yesner. Report Submitted to the National Park Service Pacific Northwest Region Contract No. CX-900-4-E075. Institute for Environmental Studies, University of Washington. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
- Shantry, Kate
2018 *Archaeological Letter Report: Archaeological Monitoring on Parcel 45194 for the Presentin Park Side Channel Restoration, Marblemount, Skagit County, Washington*. On file at ERCI headquarters, Mount Vernon.

- Smith, Harlan I.
 1900 Archaeological Investigations on the North Pacific Coast in 1899. *American Anthropologist* 3:563–567.
 1907 *Archaeology of the Gulf of Georgia and Puget Sound*. American Museum of Natural History Memoir 4, Part 6, pp. 301–441. American Museum of Natural History, New York.
- Smith, Harlan I., and Gerald Fowkes
 1901 *Cairns of B.C. and Washington*. American Museum of Natural History Memoir 4, Part 2, pp. 55–755. American Museum of Natural History, New York.
- Skagit Fisheries Enhancement Group and Herrera Environmental Consultants, Inc.
 2017 *Pressentin Park Side Channel Reconnection and Park improvements: Basis of Design report*.
- Snyder, Sally
 1980 Aboriginal Settlements in the Skagit Drainage System. In *Cultural Resource Overview and Sample Survey of the Skagit Wild and Scenic River Study Area on the Mt. Baker–Snoqualmie National Forest, Washington State*, Volume 2, by Astrida R. Blukis Onat, Lee A. Bennett, and Jan L. Hollenbeck, pp. 19–39. Prepared for the Mt. Baker–Snoqualmie National Forest by the Institute of Cooperative Research. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.
 1981 Swinomish, Upper Skagit and Sauk-Suiattle. In *Inventory of Native American Religious Use, Practices, Localities and Resources: Study Area on the Mt. Baker–Snoqualmie National Forest, Washington State*, edited by Astrida R. Blukis Onat and Jan L. Hollenbeck, pp. 213–308. Report prepared for Mt. Baker–Snoqualmie National Forest, Seattle, Washington. Institute of Cooperative Research, P.O. Box 20275, Broadway Station, Seattle, Washington 98102.
- Walker, Sara, Genevieve Thomas, Andrea Weiser, Ryan Ives, and Timothy Smith
 2009 *Cultural Resources Monitoring and Data Recovery Excavations at Site 45SK139 for the Marblemount Water System Project, Skagit County, Washington*. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia.

APPENDIX H

Geotechnical Analysis Results

GEOTECHNICAL MEMORANDUM

Project No.: 180632

December 1, 2020

To: Christina Avolio, PE, Herrera Environmental Consultants



From: Erik O. Andersen, PE
Principal Geotechnical Engineer
eandersen@aspectconsulting.com

Re: Geotechnical Engineering Design and Construction Recommendations
Pre-Fabricated Bridges
Pressentin Park Floodplain Restoration
Skagit County, Washington
Project No. 180632

Aspect Consulting LLC (Aspect) is providing geotechnical engineering recommendations to support design and construction of approaches and foundations for three new prefabricated bridges at Pressentin Park near Marblemount in Skagit County, Washington (Site). The prefabricated bridges were recently purchased by Skagit County Parks (County Parks) and are in storage until the Site is ready for bridge placement.

A preliminary geotechnical engineering study and draft report was completed for the project by Vincent Perrone Consulting, Inc., PS, dated January 23, 2018 (Perrone, 2018). The Perrone report is attached to this report as Appendix A. Mr. Perrone has retired from geotechnical engineering consulting. Aspect agrees with Perrone's preliminary conclusions and recommendations; our work picks up where Mr. Perrone left off.

It is understood that the project will involve grading to create a new—or re-establish an old infilled—side channel within an active floodway along an inside bend of the right bank of Skagit River within Pressentin Park. The side channel will provide rearing habitat for juvenile salmon. This work will involve excavation below existing ground surface and grading to create the channel.

Three pre-manufactured bridges will be placed on engineered approach fills, to provide passage over the new or re-established side channel:

- **Bridge 1** is a 6-foot-wide by 83.5-foot-long pedestrian/equestrian structure. Approach fills will be built up to an average height of 8 feet above existing grade on both sides.
- **Bridge 2** is a 12-foot-wide by 78.5-foot-long vehicular/pedestrian/equestrian structure. Approach fills will be built up to an average height of 10 feet above existing grade on both sides.
- **Bridge 3** is a 6-foot-wide by 58.5-foot-long pedestrian/equestrian structure. Approach fills will be built up to 10.5 and 9 feet above existing grade.

The Perrone (2018) study included exploration borings at/near each of the proposed bridge sites. The borings were designated B-1 near Bridge 1, B-2 and B-3 near each end of Bridge 2, and B-4 near Bridge 3.

The three bridge sites are within the active floodway of Skagit River and as such they are underlain by alluvial overbank deposits. The Perrone borings indicate the alluvial deposits to be granular and relatively loose. Groundwater is at or near the elevation of Skagit River.

Below the groundwater, the saturated loose granular deposits are susceptible to soil liquefaction during a strong earthquake. Liquefaction is the development of excess pore water pressure due to cyclic shaking in loose sandy soil and non-plastic silt. As pore pressures are excited, individual soil particles lose grain-to-grain contact, which causes a temporary and significant loss of shear strength. During this process as pore pressures begin to elevate, and immediately after shaking has stopped, permanent ground deformations can occur. As this Site, our analyses indicate potential liquefaction-induced permanent ground displacement of the order of inches to feet.

On low-lying sites, where the depth to groundwater is shallow, liquefaction damage to grade-supported structures can be significant. For sites where there is a significant thickness of unsaturated and non-liquefiable fill or native material overlying the liquefiable layer, the crustal layer of non-liquefiable material(s) act will tend to “float” over the liquefied soils. Based on our review of the Herrera grading plans and our geotechnical engineering analyses, we conclude the 8 to 10 feet of approach fill can be engineered to act as a “mattress” above the liquefied soil to reduce the potential for catastrophic bridge failure due to liquefaction-triggered ground displacement.

The engineered fill will not eliminate potential permanent ground displacement but will help the structure endure the design-level the earthquake. After an earthquake, there could be sufficient deformation so as to require temporarily removing the pre-manufactured bridge(s), regrading the approach fills, releveling or replacing bridge abutments, and resetting the structures.

Alternatively, some form of mitigation, such as pile-supported bridge abutments or ground improvement to eliminate liquefaction susceptibility, could be considered. Such mitigation measures would typically be undertaken for a roadway bridge that serves a high volume of vehicular and pedestrian traffic, and where the consequences of damage or collapse represent a major expense and/or risk to life safety of the traveling public. Based on the remote Site location, structure types, and cost considerations, County Parks elected to **not** design the bridge foundations

to mitigate liquefaction hazards. County Parks will accept the risk of liquefaction-induced permanent ground displacement.

Accordingly, we recommend the pre-manufactured bridges be supported on pre-cast or cast-in-place footings bearing on geosynthetic reinforced soil (GRS) fill pads. GRS fill pads consist of high-quality imported fill, reinforced with horizontal layers of high-strength biaxial geosynthetic reinforcement on a close vertical spacing. The GRS fill pads will be contained on three sides with modular pre-cast concrete blocks.

The GRS fill pads should be designed and constructed per the following recommendations.

- The GRS fill pads will be U-shaped in plan view and sized to accommodate the bridge footings.
- Pre-cast fascia elements should be constructed using nominally 18-inch-wide by 8-inch-tall pre-cast concrete blocks such as Keystone Compac; Allan AB Stone, or approved equivalent. The blocks will have a depth (measured perpendicular to face of wall) of approximately 12 inches; this dimension must be considered in laying out the abutment pedestals and bridge footings.
- The U-shaped block fascia can be built up with a vertical face, or with a slight batter of approximately 1H:8V (Horizontal:Vertical) depending on block manufacturer. Successive courses of blocks should be staggered by a half-block-width, per standard block wall construction practice. The two 90-degree outside corners for each U-shaped abutment pedestal will require “corner unit” blocks, configured in a staggered “finger joint” configuration.
- Geosynthetic reinforcement should consist of biaxial woven polypropylene geosynthetic, such as Nilex 2044, US Fabrics US 4800 or approved equivalent, with wide width tensile strength of at least 4,800 pounds per foot in both directions. The geogrid should have a roll width of at least 12 feet. The geogrid should be placed on 8-inch vertical spacing, and “sandwiched” between each course of blocks.
- The geosynthetic reinforcement should be mechanically connected to the blocks using fiberglass pins or other approved means. Successive courses of blocks shall be mechanically connected with fiberglass pins, pre-cast concrete ridges, or other approved means.
- The GRS pedestals should have burial/embedment depths of at least 2 feet (3 courses of blocks) below adjacent exterior finished grade.
- In the direction perpendicular to the bridge axis, the geosynthetic reinforcement should extend from block-face to block-face. In the direction parallel to the bridge axis, the geosynthetic reinforcement should extend back beyond the face of blocks a distance equal to the total wall height, including the embedment depth, or 8 feet, whichever is less. For example, for Bridge 2, where the total wall height is 12 feet (i.e., 10-foot exposed height, plus 2-foot embedment), the geosynthetic reinforcement should extend back beyond the face of wall by 12 feet. The geogrid product that is utilized should have a roll width of at least 12 feet.
- The exposed/retained heights of the GRS pedestals should be limited to that required for freeboard above the design high water elevation, and not greater than 10 feet. Final sloping grade on the stream side of the pedestals shall be limited to 2H:1V maximum and should be appropriately protected from scour/erosion.

- The U-shaped GRS abutment pedestals shall be laid out such that the bridge footings have a minimum horizontal separation of 8 inches from the inside faces of the pre-cast concrete fascia blocks. For Bridges 1 and 3, we expect the footings will need to be at least 8 feet long (measured perpendicular to the bridge axis). For Bridge 2, we expect the footing will need to be at least 15 feet long. The footing widths (measured parallel to the bridge axis) will be designed based on the bridge dead-plus-live loading and the above-provided maximum allowable bearing pressure. It will be necessary to consult with the bridge manufacturer before the final layout of each GRS abutment pedestal is set.
- General on-site material derived from channel excavation may be used as approach fill further back from the reinforced zone, provided it is stripped of topsoil, logs, and other organic matter.
- On-site material is unsuitable for use in the reinforced zone. The reinforced zone backfill should consist of clean chipped quarry rock, with a maximum particle size of ¾-inch (locally referred to as “¾-inch clear chips”). One nearby quarry that can supply this material is Beaver Lake Quarry near Mount Vernon, Washington. The material should be placed and compacted, in 8 inch lifts, to a dense/unyielding condition using lightweight walk-behind vibratory equipment.
- The plan view dimensions of the U-shaped GRS pedestals must be sufficiently sized to accommodate the pre-manufactured bridge footing, which will be constructed of cast-in-place (or possibly pre-cast) reinforced concrete. The geometry of the GRS pedestals should take into consideration any wall fascia batter. The bridge footing might be L- or T-shaped, or it may be a flat-topped beam. Each footing will bear on the respective GRS pedestal. The bridge footings shall be designed for a maximum allowable bearing pressure of 3,000 pounds per square foot, considering dead plus live loads. A structural engineer should be retained to design these reinforced concrete footings, and the bridge-to-footing connection details. The construction documents could be written such that the Contractor is responsible for this.

Limitations

Work for this project was performed for Herrera Environmental Consultants (Client) and this report was prepared consistent with recognized standards of professionals in the same locality and involving similar conditions, at the time the work was performed. No other warranty, expressed or implied, is made by Aspect Consulting, LLC (Aspect).

Recommendations presented herein are based on our interpretation of site conditions, geotechnical engineering calculations, and judgment in accordance with our mutually agreed-upon scope of work. Our recommendations are unique and specific to the project, site, and Herrera Environmental Consultants. Application of this report for any purpose other than the project should be done only after consultation with Aspect.

Variations may exist between the soil and groundwater conditions reported and those actually underlying the site. The nature and extent of such soil variations may change over time and may not be evident before construction begins. If any soil conditions are encountered at the site that are different from those described in the Peronne (2018) report, Aspect should be notified immediately to review the applicability of our recommendations.

It is Herrera Environmental Consultants' responsibility to see that all parties to this project, including the designer, contractor, subcontractors, and agents, are made aware of this report in its entirety. At the time of this report, design plans and construction methods have not been finalized, and the recommendations presented herein are based on preliminary project information. If project developments result in changes from the preliminary project information, Aspect should be contacted to determine if our recommendations contained in this report should be revised and/or expanded upon.

The scope of work does not include services related to construction safety precautions. Site safety is typically the responsibility of the contractor, and our recommendations are not intended to direct the contractor's site safety methods, techniques, sequences, or procedures. The scope of our work also does not include the assessment of environmental characteristics, particularly those involving potentially hazardous substances in soil or groundwater.

All reports prepared by Aspect for Herrera Environmental Consultants apply only to the services described in our Agreement(s) with Herrera Environmental Consultants. Any use or reuse by any party other than Herrera Environmental Consultants is at the sole risk of that party, and without liability to Aspect. Aspect's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Please refer to Appendix B titled "Report Limitations and Guidelines for Use" for additional information governing the use of this report.

We appreciate the opportunity to perform these services. If you have any questions please call Erik Andersen, PE, Principal Geotechnical Engineer, at 360.746.8964.

Attachments:

- Appendix A – Perrone Consulting, Inc., P.S., Pressentin Park Memo, January 23, 2018.
- Appendix B – Report Limitations and Guidelines for Use

APPENDIX A

**Perrone Consulting, Inc., P.S.,
Presentin Park Memo,
January 23, 2018**



MEMORANDUM

Project No. 16101

January 23, 2018

To: Christina Avolio (Herrera Environmental)

cc:

From: Vincent J. Perrone

Subject: Pressentin Park

This memorandum summarizes the results of our field explorations and preliminary findings for the proposed bridges at Pressentin Park.

We drilled four borings at the approximate locations shown in the attached "Boring Location Plan." All of the borings encountered refusal in gravelly cobbly material:#

Boring	Location	Depth drilled (ft)
B-1	South end bridge #1	21
B-2	South end bridge #2	10
B-3	North end bridge #2	14
B-4	North end bridge #3	29

We generally encountered alluvial deposits consisting of sand, gravelly sand, and sandy gravel with cobbles. The alluvial deposits generally grade denser with depth. Based on the standard penetration blow count data, the subsurface profile can be characterized by three layers:

- Layer 1: Very loose to loose fine and fine to medium sand. Layer thickness varies from 5 ft to 12 ft.
- Layer 2: Medium dense sand and gravel. Layer thickness varies from 3 ft to 8 ft.
- Layer 3: Dense gravel and cobbles

Preliminary liquefaction and slope stability analyses were performed for the proposed Bridge 3 reinforced earth abutments. The idealized subsurface profile consisted of compacted structural fill, overlying loose sand (layer 1) underlain by dense sand and gravel (layer 3). Engineering material properties used in the analyses are summarized in Table 1.

Table 1 – Engineering Material Properties

Material Description	Unit Weight (pcf)		Static Strength		Liquefied Strength	
	Moist	Saturated	Cohesion (psf)	Friction (degs.)	Cohesion (psf)	Friction (degrees)
Compacted Fill	120	125	0	36	NA	NA
Loose Alluvial Sand (Layer 1)	120	120	0	30	50	0
Medium dense to dense sand and gravel (layers 2 and 3)	120	125	0	38	NA	NA
Rip rap	100	100	0	50	NA	NA

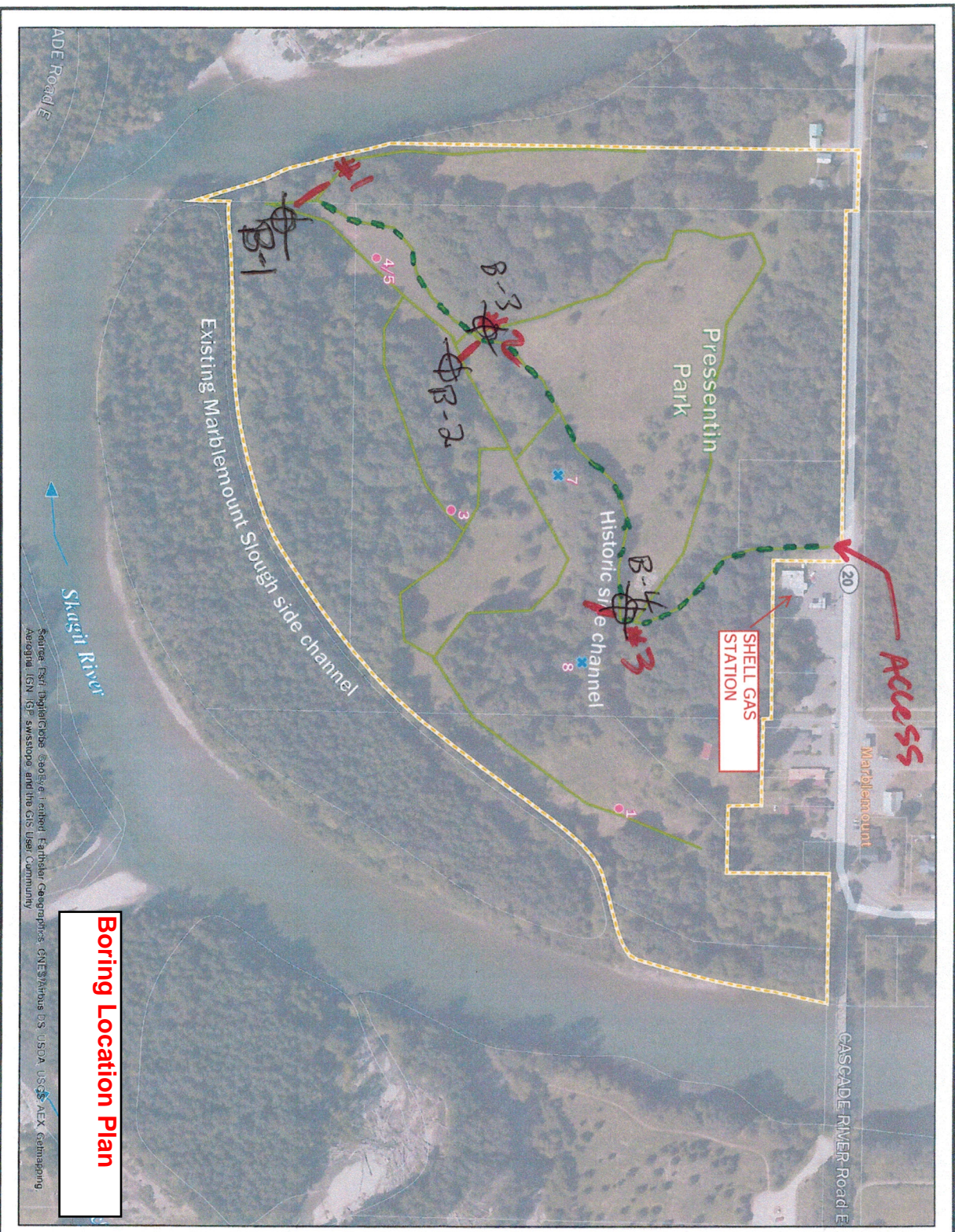
We assumed a design groundwater level at elevation 308 ft. for static (non-seismic conditions) and elevation 305 ft for seismic conditions. The design earthquake was taken as an event with a 10% exceedance in 50 years (average recurrence of 1 in 475 years).

Static slope stability analyses indicate that geogrid reinforcement would be required behind the block abutment wall and the channel slope would need to be flattened to 3H:1V. See attachment, Static Slope Stability Results. “

During an earthquake, layers 1 and 2 below the groundwater table would liquefy and could cause failure of the slope during an earthquake (factor of safety <1.0). See attachment, “Seismic Slope Stability Results.”

Attachments:

Boring Location Plan
Boring Logs B-1 through B-4
Static Slope Stability Results
Seismic Slope Stability Results



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SVP, Swisstopo, and the GIS User Community

Boring Location Plan

Figure 2. Groundwater Monitoring and Test Pit Locations.

Legend

- Existing maintained trail
- Test pit location and piezometer
- ✕ Surface ground water expression gauge
- Parcel

APPROX. BORING LOCATIONS

ACCESS

3/28/11



HERRERA

NAD 1983 HARN
Washington State Plane North FIPS 4601 Feet

ESRI, ArcGIS (2009), Seattle County, Pierce (2012)



PERRONE CONSULTING, INC.

11220 Fieldstone Lane NE
 Bainbridge Island, WA 98110
 Telephone: (206) 778-8074

Key to Log of Boring

Sheet 1 of 1

**Project: Presentin Park
 Marblemount, Washington**

UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL CHART

MAJOR DIVISIONS		SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
	SAND AND SANDY SOILS	GC	Clayey gravels, gravel-sand-clay mixtures
		SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
FINE GRAINED SOILS	SM	Silty sands, sand-silt mixtures	
	SC	Clayey sands, sand-clay mixtures	
	ML	Inorganic silts, very fine sands, rock flour, silty/clayey fine sands or clayey silts of slight plasticity	
SILTS AND CLAYS	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
	OL	Organic silts and organic silty clays of low plasticity	
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silt	
	CH	Inorganic clays of high plasticity, fat clays	
SILTS AND CLAYS	OH	Organic clays of medium to high plasticity, organic silts	
	PT	Peat, humus, swamp soils with high organic content	
HIGHLY ORGANIC SOILS			

NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

Abbreviations

- AL Atterberg Limits
- C Consolidation
- DS Direct Shear
- HA Hydrometer Analysis
- LL Liquid Limit
- LV Laboratory Vane Shear
- N Number of hammer blows for last 12 inches driven
- OVA Organic Vapor Analyzer
- Pc Constant Head Permeability
- Pf Falling Head Permeability
- PI Plasticity Index
- PP Pocket Penetrometer
- SA Sieve Analysis
- SG Specific Gravity
- TV Torvane Shear
- TX Triaxial Shear
- WA Wash on #200 Sieve

Sampler Symbols

- 2-inch-O.D. Split Spoon Sampler Driven with 140-lb Hammer and 30-inch Drop (SPT)
- 3-inch-O.D. Split Spoon Sampler with Brass Rings Driven with 140-lb Hammer and 30-inch Drop
- 2-inch-O.D. Split Spoon Sampler Driven with 140-lb Hammer and 18-inch Drop
- Grab Sample
- 3-inch-O.D. Shelby Tube Sampler

Piezometer Symbols

- Pipe in cement grout
- Pipe in filter pack
- Pipe in bentonite-cement
- Slotted pipe in filter pack
- Pipe in bentonite seal
- Vibrating wire piezometer

Groundwater Level Symbols

- Water level at time of drilling (ATD)
- Water level measured in piezometer

General Notes

- Descriptions and stratum lines are interpretive; field descriptions may have been modified to reflect lab test results. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced; they are not warranted to be representative of subsurface conditions at other locations or times.
- Soil descriptions are recorded in the following order: SOIL CLASSIFICATION (USCS Symbol), relative density or consistency, color, moisture, plasticity or gradation, angularity, minor constituents, additional comments (organics, odor, etc.) [GEOLOGIC UNIT].

Blow Count / Density and Consistency Relationship

Coarse-Grained Soils		Fine-Grained Soils	
Relative Density	N, SPT Blows / Foot	Relative Consistency	N, SPT Blows / Foot
Very loose	0 - 4	Very soft	<2
Loose	5 - 10	Soft	2 - 4
Medium dense	11 - 30	Medium stiff	5 - 8
Dense	31 - 50	Stiff	9 - 15
Very dense	>50	Very Stiff	16 - 30
		Hard	>30

Minor Descriptors

Trace clay, silt, sand, gravel	<5%
Few clay, silt, sand, gravel	5 - 10%
Little clay, silt, sand, gravel	15 - 25%
Some clay, silt, sand, gravel	30 - 45%

Moisture Content

Dry	Absence of moisture, dusty
Moist	Damp but no visible water
Wet	Visible free water, from below the water table

Report: VP SOIL LOG KEY; File: PRESENTIN.GPJ; PCI #16101; 5/20/16

Figure A-1



PERRONE CONSULTING, INC.

11220 Fieldstone Lane NE
 Bainbridge Island, WA 98110
 Telephone: (206) 778-8074

Log of Boring B-1

Sheet 1 of 1

**Project: Pressentin Park
 Marblemount, Washington**

Borehole Location: **South end of Bridge #1**
 Drilling Contractor: **Geologic Drill Exploration, Inc.**
 Drilling Method: **Hollow-Stem Auger**
 Drill Rig Type: **Bobcat with 6-inch-OD / 3-inch-ID auger**

Date(s) Drilled: **April 11, 2016**
 Logged By: **V. J. Perrone**
 Total Depth of Borehole: **20.8 feet**
 Surface Elevation / Datum: **313 ft / NAVD88**

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Lab Tests	Moisture Content, %	Dry Unit Weight, pcf	REMARKS
		Type Number	Blows per 6 inches (N)	Recovery, %						
0					Surface Conditions: Grass					
					SILTY SAND (SM), brown, moist, fine sand, little fines, high organic content [TOPSOIL]					
					POORLY GRADED SAND (SP), very loose, tan, moist, fine to medium sand [ALLUVIUM]					Fine to medium sand cuttings.
310		1	2-1-2 (3)	100						
	5	2	1-1-2 (3)	67		POORLY GRADED SAND WITH SILT (SP-SM), tan, moist, fine to medium sand				
						SANDY SILT (ML), brown, moist, fine sand				
305		3	2-2-2 (4)	67		Grades with trace fines, coarse sand, and rounded gravel				
	10	4	2-3-5 (8)	83		Becomes loose				
300		5	5-8-5 (13)	72		WELL-GRADED SAND WITH GRAVEL (SW), medium dense, tan, wet, fine to coarse sand, little fine to coarse gravel to 1-1/2 inches, trace fines, occasional cobbles [ALLUVIUM]				Drills more gravelly. Wet rods at 13.5 ft.
	15	6	8-12-11 (23)	100						
295										Drilling through cobbles. Slow advance rate.
	20	7	26-50/4"	40		POORLY GRADED GRAVEL WITH SAND (GP), tan, wet, fine to coarse gravel, fine to coarse sand [ALLUVIUM]				Disturbed sample.
						Bottom of boring at depth of 20.8 feet				
						Groundwater encountered at 13.5 feet				
						Borehole backfilled with bentonite chips				
290										
	25									
285										
	30									

Report: VP SOIL LOG; File: PRESSENTIN.GPJ; PCI#16101; 5/20/16

Figure A-2



PERRONE CONSULTING, INC.

11220 Fieldstone Lane NE
 Bainbridge Island, WA 98110
 Telephone: (206) 778-8074

Log of Boring B-2

Sheet 1 of 1

**Project: Pressentin Park
 Marblemount, Washington**

Borehole Location: **South end of Bridge #2**
 Drilling Contractor: **Geologic Drill Exploration, Inc.**
 Drilling Method: **Hollow-Stem Auger**
 Drill Rig Type: **Bobcat with 6-inch-OD / 3-inch-ID auger**

Date(s) Drilled: **April 11, 2016**
 Logged By: **V. J. Perrone**
 Total Depth of Borehole: **10.0 feet**
 Surface Elevation / Datum: **311 ft / NAVD88**

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Lab Tests	Moisture Content, %	Dry Unit Weight, pcf	REMARKS
		Type Number	Blows per 6 inches (N)	Recovery, %						
310	0					Surface Conditions: Grass				
	1	1	1-1-1 (2)	89		SILTY SAND (SM), brown, moist, fine sand, little fines, high organic content [TOPSOIL] POORLY GRADED SAND (SP), very loose, tan, moist, fine to medium sand [ALLUVIUM]				Fine to medium sand cuttings.
	5	2	4-5-8 (13)	11		WELL-GRADED SAND WITH GRAVEL (SW), medium dense, gray, moist, fine to coarse sand, little fine to coarse subrounded gravel to 1-1/2 inches, trace fines [ALLUVIUM]				Drills gravelly.
	3	3	23-50/6"	75		POORLY GRADED GRAVEL WITH SAND (GP), very dense, gray, wet, fine to coarse subrounded gravel to 3 inches, fine to coarse sand, trace fines [ALLUVIUM]				Drills gravelly.
	4	4	32-50/6"	83						Auger refusal at 9 ft.
300	10					Bottom of boring at depth of 10.0 feet Groundwater encountered at 8.5 feet Borehole backfilled with bentonite chips				
295	15									
290	20									
285	25									
	30									

Report: VP SOIL LOG; File: PRESSENTIN.GPJ; PCI#16101; 5/20/16

Figure A-3



PERRONE CONSULTING, INC.

11220 Fieldstone Lane NE
 Bainbridge Island, WA 98110
 Telephone: (206) 778-8074

Log of Boring B-3

Sheet 1 of 1

**Project: Pressentin Park
 Marblemount, Washington**

Borehole Location: **North end of Bridge #2**
 Drilling Contractor: **Geologic Drill Exploration, Inc.**
 Drilling Method: **Hollow-Stem Auger**
 Drill Rig Type: **Bobcat with 6-inch-OD / 3-inch-ID auger**

Date(s) Drilled: **April 11, 2016**
 Logged By: **V. J. Perrone**
 Total Depth of Borehole: **14.3 feet**
 Surface Elevation / Datum: **312 ft / NAVD88**

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Lab Tests	Moisture Content, %	Dry Unit Weight, pcf	REMARKS
		Type Number	Blows per 6 inches (N)	Recovery, %						
0						Surface Conditions: Topsoil				
310		1	1-1-2 (3)	100		SILTY SAND (SM), brown, moist, fine sand, little fines, high organic content [TOPSOIL] SILTY SAND (SM), very loose, tan, moist, fine sand, little fines [ALLUVIUM]				Fine sand cuttings.
305	5	2	2-1-1 (2)	100		POORLY GRADED SAND WITH SILT (SP-SM), very loose, tan, moist, fine sand, few fines [ALLUVIUM] SILTY SAND (SM), tan, moist, fine sand				
300	10	3	1-8-17 (25)	67		WELL-GRADED SAND WITH GRAVEL (SW), medium dense, gray, wet, fine to coarse sand, some gravel [ALLUVIUM]				Drills gravelly.
300	10	4	17-31-23 (54)	89		POORLY GRADED SAND WITH SILT (SP-SM), fine POORLY GRADED GRAVEL WITH SAND (GP), very dense, gray, wet, fine to coarse gravel to 1-1/2 inches, fine to coarse sand, trace fines [ALLUVIUM]				Drills gravelly. Slow advance rate.
300	14.3	5	50/4"			Bottom of boring at depth of 14.3 feet Groundwater encountered at 8 feet Borehole backfilled with bentonite chips				Auger refusal at 14 ft.
295										
290										
285										
30										

Report: VP SOIL LOG; File: PRESSENTIN.GPJ; PCI#16101; 5/20/16

Figure A-4



PERRONE CONSULTING, INC.

11220 Fieldstone Lane NE
 Bainbridge Island, WA 98110
 Telephone: (206) 778-8074

Log of Boring B-4

Sheet 1 of 1

**Project: Pressentin Park
 Marblemount, Washington**

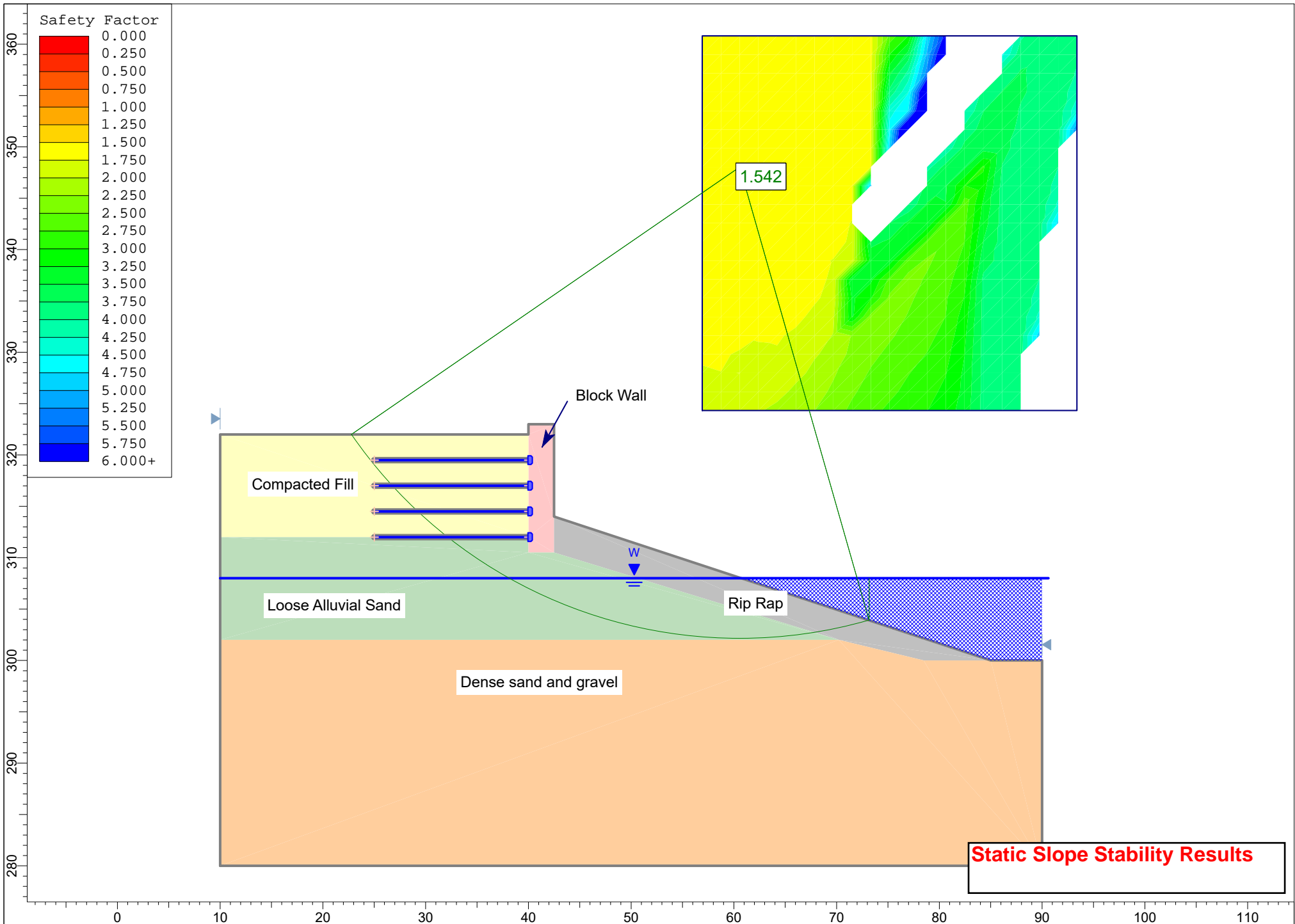
Borehole Location: **North end of Bridge #3**
 Drilling Contractor: **Geologic Drill Exploration, Inc.**
 Drilling Method: **Hollow-Stem Auger**
 Drill Rig Type: **Bobcat with 6-inch-OD / 3-inch-ID auger**

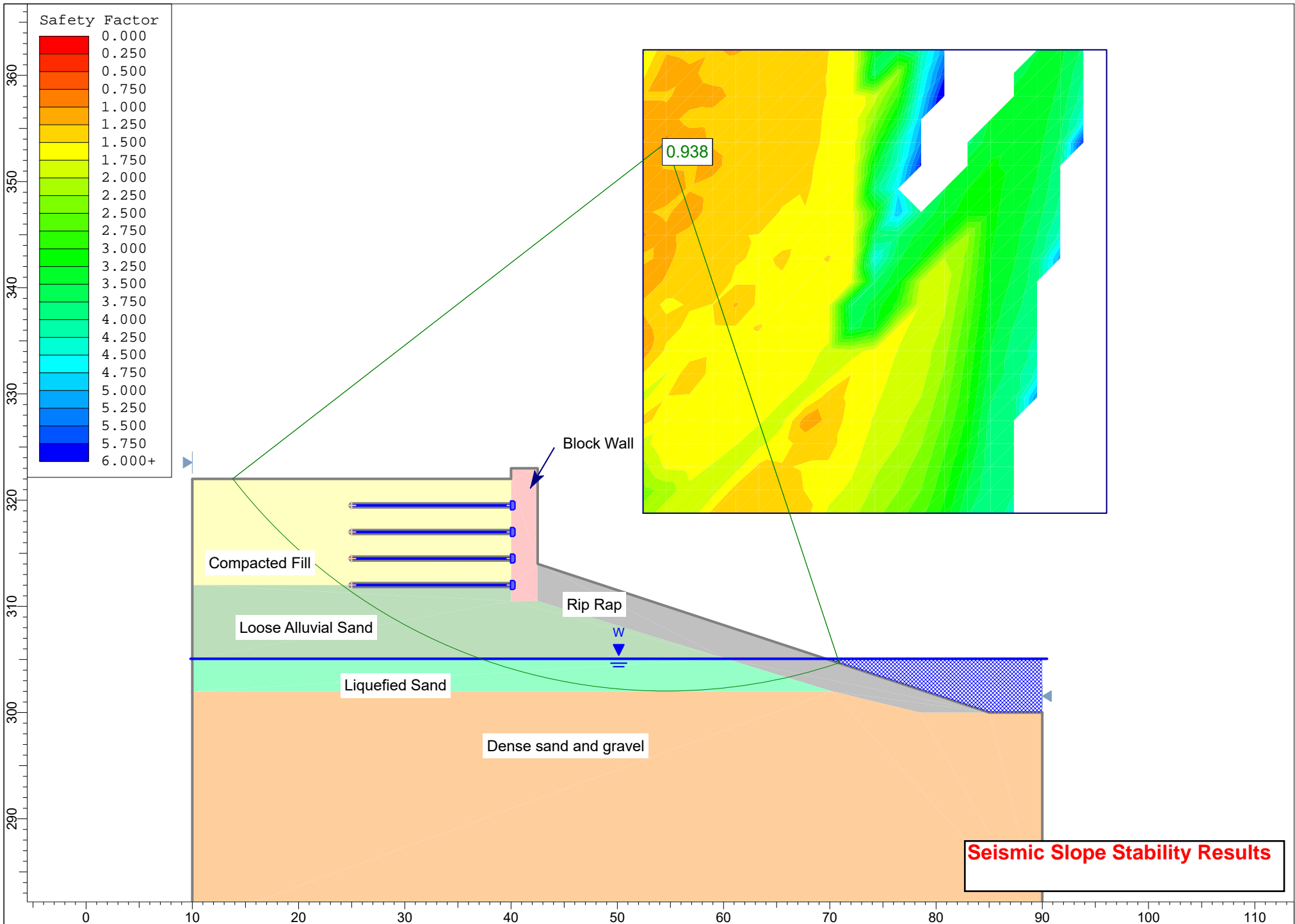
Date(s) Drilled: **April 11, 2016**
 Logged By: **V. J. Perrone**
 Total Depth of Borehole: **29.1 feet**
 Surface Elevation / Datum: **314 ft / NAVD88**

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Lab Tests	Moisture Content, %	Dry Unit Weight, pcf	REMARKS
		Type Number	Blows per 6 inches (N)	Recovery, %						
0						Surface Conditions: Forest duff				
						SILTY SAND (SM), brown, moist, fine sand, little fines, high organic content [TOPSOIL]				
						SILTY SAND (SM), very loose, tan, moist, fine sand, little fines [ALLUVIUM]				
310	1	1	2-2-2 (4)	100						
	5	2	2-1-2 (3)	100		Grades with some fines				
						POORLY GRADED SAND (SP), tan, moist, fine sand				
305	3	3	1-1-1 (2)	100						
	10	4	3-3-3 (6)	89		POORLY GRADED SAND WITH SILT (SP-SM), loose, gray, wet, fine to medium sand, few fines [ALLUVIUM]				
						Becomes medium dense				
300	5	5	5-7-11 (18)	100						
	15	6	6-8-9 (17)	100		POORLY GRADED SAND (SP), medium dense, gray, wet, fine to coarse sand, trace fines [ALLUVIUM]				
295	20	7	17-32-24 (56)	100		WELL-GRADED SAND WITH GRAVEL (SW), very dense, gray, wet, fine to coarse sand, some fine to coarse subrounded gravel to 1 inch [ALLUVIUM]				Drills gravelly. Slow advance rate.
										Drills gravelly. Slow advance rate.
290	25	8	20-22-22 (44)	100		POORLY GRADED GRAVEL WITH SAND (GP), dense to very dense, gray, wet, fine to coarse subrounded gravel to 1-1/2 inches, fine to coarse sand, trace fines [ALLUVIUM]				Zones of less gravel.
285	9	9	50/1"			Groundwater encountered at 10 feet Borehole backfilled with bentonite chips Bottom of boring at depth of 29.1 feet				Slow advance rate. Auger refusal at 29 ft.
30										

Report: VP SOIL LOG; File: PRESSENTIN.GPJ; PCI#16101; 5/20/16

Figure A-5





APPENDIX B

Report Limitations and Guidelines for Use

REPORT LIMITATIONS AND GUIDELINES FOR USE

Geoscience is Not Exact

The geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. It is important to recognize this limitation in evaluating the content of the report. If you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or property, you should contact Aspect Consulting, LLC (Aspect).

This Report and Project-Specific Factors

Aspect's services are designed to meet the specific needs of our clients. Aspect has performed the services in general accordance with our agreement (the Agreement) with the Client (defined under the Limitations section of this project's work product). This report has been prepared for the exclusive use of the Client. This report should not be applied for any purpose or project except the purpose described in the Agreement.

Aspect considered many unique, project-specific factors when establishing the Scope of Work for this project and report. You should not rely on this report if it was:

- Not prepared for you;
- Not prepared for the specific purpose identified in the Agreement;
- Not prepared for the specific subject property assessed; or
- Completed before important changes occurred concerning the subject property, project, or governmental regulatory actions.

If changes are made to the project or subject property after the date of this report, Aspect should be retained to assess the impact of the changes with respect to the conclusions contained in the report.

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the Client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against liability claims by third parties with whom there would otherwise be no contractual limitations. Within the limitations of scope, schedule, and budget, our services have been executed in accordance with our Agreement with the Client and recognized geoscience practices in the same locality and involving similar conditions at the time this report was prepared

Property Conditions Change Over Time

This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope instability, or groundwater fluctuations. If any of the described events may have occurred following the issuance

of the report, you should contact Aspect so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

Geotechnical, Geologic, and Environmental Reports Are Not Interchangeable

The equipment, techniques, and personnel used to perform a geotechnical or geologic study differ significantly from those used to perform an environmental study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually address any environmental findings, conclusions, or recommendations (e.g., about the likelihood of encountering underground storage tanks or regulated contaminants). Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding the subject property.

We appreciate the opportunity to perform these services. If you have any questions please contact the Aspect Project Manager for this project.

APPENDIX I

Skagit County Inspection Forms



Planning & Development Services

1800 Continental Place • Mount Vernon, Washington 98273
office 360-416-1320 • pds@co.skagit.wa.us • www.skagitcounty.net/planning

CONSTRUCTION TIP SHEET #1 IBC Statement of Special Inspections

January 2019

2015 INTERNATIONAL BUILDING CODE

PROJECT _____ PERMIT # _____

ADDRESS _____ DATE _____

INSPECTION AGENCY _____ PHONE # _____

CONTACT _____ EMAIL _____

DESIGN PROFESSIONAL _____ PHONE # _____

COMPANY _____ EMAIL _____

Check Required Special Inspections - per International Building Code, Section 1704:

Seismic Force Resisting Systems requiring inspection (IBC 1705.11): _____

- | | |
|--|---|
| <input type="checkbox"/> 1. Structural Welding (Steel 1705.2.1)(AISC 360) | <input type="checkbox"/> 12. Cast-in-place Deep Foundations (1705.8) |
| <input type="checkbox"/> 2. High Strength Bolting (Steel 1705.2.1)(AISC 360) | <input type="checkbox"/> 13. Sprayed Fire-Resistant Materials (1705.14) |
| <input type="checkbox"/> 3. Cold Formed Steel Deck, Open Web Steel Joists and Trusses (1705.2) | <input type="checkbox"/> 14. Mastic and Intumescent Coatings (1705.15) |
| <input type="checkbox"/> 4. Structural Concrete and Reinf. Steel (1705.3) | <input type="checkbox"/> 15. Ext. Insul. and Fin. System (EIFS 1705.16) |
| <input type="checkbox"/> 5. Anchor Bolts in Concrete (1705.3) | <input type="checkbox"/> 16. Post Installed Anchors (1705.3) |
| <input type="checkbox"/> 6. Prestressed Concrete and PT tendons (1705.3) | <input type="checkbox"/> 17. Smoke Control (1705.18) |
| <input type="checkbox"/> 7. Shotcrete (1705.3, 1908.5) | <input type="checkbox"/> 18. Structural Wood (1705.11.2 & 1705.12.2) |
| <input type="checkbox"/> 8. Masonry (1705.4, ACI 530) | <input type="checkbox"/> 19. Cold-Formed Steel Framing (1705.12.3) |
| <input type="checkbox"/> 9. High Load Diaphragms (Wood 1705.5.1) | <input type="checkbox"/> 20. Stor. Racks and Access Flrs. (1705.12.7) |
| <input type="checkbox"/> 10. Grading, excavation, and filling (Soils 1705.6) | <input type="checkbox"/> 21. Architectural Components. (1705.12.5) |
| <input type="checkbox"/> 11. Driven Deep Foundations (1705.7) | <input type="checkbox"/> 22. Mech. and Elec. Components (1705.12.6) |
| <input type="checkbox"/> 23. Other inspections as required by the Design Professional or the Building Official (1705.1.1). | |

____ 24. Structural load bearing or lateral load-resisting members to be fabricated off-site (1704.2.5)**

** (Note: Off-site special inspection is not required when approved by the building official.

See MBP construction tip sheet "[Approved Fabricators](#)" online.

____ Section 1705.12-Structural Testing for Seismic Resistance when required shall be specified on the drawings.

____ Section 1704.6-Structural Observations (List requirements): _____

____ Section 1709-Preconstruction Load Test (List requirements): _____

GENERAL INFORMATION:

- Obtain a building permit before starting construction.
- This construction bulletin is intended to provide guidelines and a checklist of some special inspections that may be required per 2015 IBC. Additional information can be found at your local building department.

STATEMENT OF SPECIAL INSPECTIONS GUIDELINES

In accordance to Section 1704 of the 2015 International Building Code (IBC), the **owner**, or the **registered design professional in responsible charge** acting as the owner's agent, is required to hire an independent testing/inspection agency to perform required special inspections.

The independent agency hired to perform the duties of special inspection is required to be a registered agency with Washington Association of Building Officials (WABO), under the Special Inspection Registration Program (SIRP) Standard No. 1701 or most current adopted special inspection standard published by WABO.

The design professional shall complete the attached forms and submit them to the Building Department prior to issuance of the building permit. The inspectors assigned to any project within the Jurisdiction shall be currently registered with WABO, and certified for the disciplines assigned.

PLEASE CHECK WITH YOUR LOCAL JURISDICTION TO DETERMINE REQUIRED SIGNATURES

A. Owner Responsibilities

The owner or the design professional in responsible charge acting as the owner's agent, shall fund special inspection services. The owner is responsible for seeing that these requirements are met.

I have read and understand my responsibilities regarding special inspections.

Owner/
Agent:

By: _____ Date: _____

B. Registered Design Professional Responsibilities

1. The registered design professional in responsible charge (engineer, or architect), shall include special inspection requirements and specifications on the plans.
2. Provide structural observation where required per IBC Section 1704.6.
3. Prepare the Statement of Special Inspections in accordance with IBC section 1704.3 and identify Structural Testing for Seismic Resistance per IBC section 1704.3.2 (When required). The statement of special inspections shall identify items fabricated on the premises of an approved fabricator where special inspections are not required by section 1704.2.5.
4. Review the special inspection reports and provide corrective action for work that may not conform to the approved plans.

I have read and understand my responsibilities regarding special inspections.

Registered Design
Professional in
Resp. Charge:

By: _____ Date: _____

C. Contractor's Responsibilities

1. Notify the agency:
The contractor is responsible for notifying the inspection agency in sufficient time for scheduling personnel to perform required inspections.
2. Written statement of responsibility:
Contractor shall complete this form to satisfy IBC 1704.4 Contractor responsibility for construction of designated main-wind or seismic force resisting system. Additional information shall be provided where requested by the jurisdiction.
3. Provide access to Jurisdiction approved plans:
The approved plans shall be readily accessible at the job site.
4. Provide access to work:
The contractor shall provide reasonable access to all work requiring special inspection.
5. Retaining special inspection reports at the job site:
The contractor is also responsible for retaining at the job site all special inspection records submitted by the special inspector, and providing these records for review by the Building Department's inspector upon request.
6. Notify Jurisdiction of special inspections prior to scheduled inspection time.
7. Provide a copy of special inspector's credentials when requested by the jurisdiction.

I have read and understand my responsibilities regarding special inspections.

Contractor: _____ By: _____ Date: _____

D. Duties of the Special Inspector

1. Inspect and/or test the work:

The inspector shall inspect and /or test the work for compliance with the Jurisdiction approved plans, specifications, and applicable provisions of the IBC. The architect/engineer's reviewed shop drawings, and/or placement drawings, may be used only as an aid to inspections.

- *Continuous Special Inspection* – The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.
- *Periodic Special Inspection* – The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed and at the completion of the work report non-conforming items:

The inspector shall bring non-conforming items to the immediate attention of the contractor, and note all such items in the daily report. If any item is not resolved in a timely manner and is about to be incorporated in the work, the special inspector shall immediately notify the Building Department, the engineer or architect, his/her office.

2. Furnish daily reports:

The special inspector shall complete a daily report for each day's inspections. The daily reports shall remain at the job site with the contractor for the Building Department's inspector. The reports shall include the following:

- a. *Name of special inspector with WABO certification number and certification type, date, time, temperature and weather conditions.*
- b. *Description of the inspections, with locations and tests performed.*
- c. *Listing any non-conforming items.*
- d. *Include how items were resolved or unresolved.*
- e. *List any changes or corrections to non-conforming issues authorized by the engineer, architect, or Jurisdiction's building inspectors.*

3. Furnish weekly reports:

The inspection agency shall furnish weekly reports of the tests and inspections performed directly to the Building Department, project engineer, architect, and/or others as designated.

4. Furnish final report

The inspection agency shall submit a final signed report to the Building Department stating that all items requiring special inspections and testing were fulfilled, all discrepancies were corrected or resolved, and all work requiring special inspections is in conformance with the approved design drawings and specifications.

- Any items unresolved or discrepancies in coverage (i.e., missed inspections, periodic inspections when continuous was required, etc.) shall be specifically itemized in this report.

I have read and understand my responsibilities regarding special inspections.

Inspection

Agency: _____ **By:** _____ **Date:** _____

Inspection

Agency: _____ **By:** _____ **Date:** _____

E. Submittals to the Building Official

1. In addition to the submittal of reports of special inspections and tests by the approved special inspection agency in accordance with IBC Section 1704.2.4, reports and certificates shall be submitted by the owner or the owner's authorized agent to the building official for items listed in IBC 1704.5.

F. Jurisdiction

1. The Jurisdiction will review the implementation of Structural Tests and Special Inspection requirements.

2. Review special inspections:

The Building Department shall review all special inspectors and special inspection requirements found in IBC Chapter 17 and the WABO - SIRP Standards 1701.

3. Monitor special inspections:

Work requiring special inspections, and the performance of special inspectors, may be monitored by the Building Department's inspector. The jurisdiction's approval must be obtained prior to placement of concrete or other similar activities in addition to that of the special inspector.

4. Issue Certificate of Occupancy:

The Building Department will only issue a Certificate of Occupancy after all special inspection reports and the final special inspection report, have been submitted and accepted.

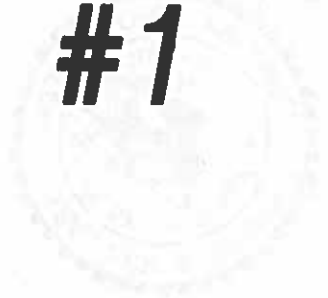
APPENDIX J

Prefabricated Bridge Plans

PRESSENTIN PARK BRIDGE #1

MARBLEMOUNT, WA

SKAGIT COUNTY PUBLIC WORKS



REVIEW AND APPROVAL

DRAWING INDEX

APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

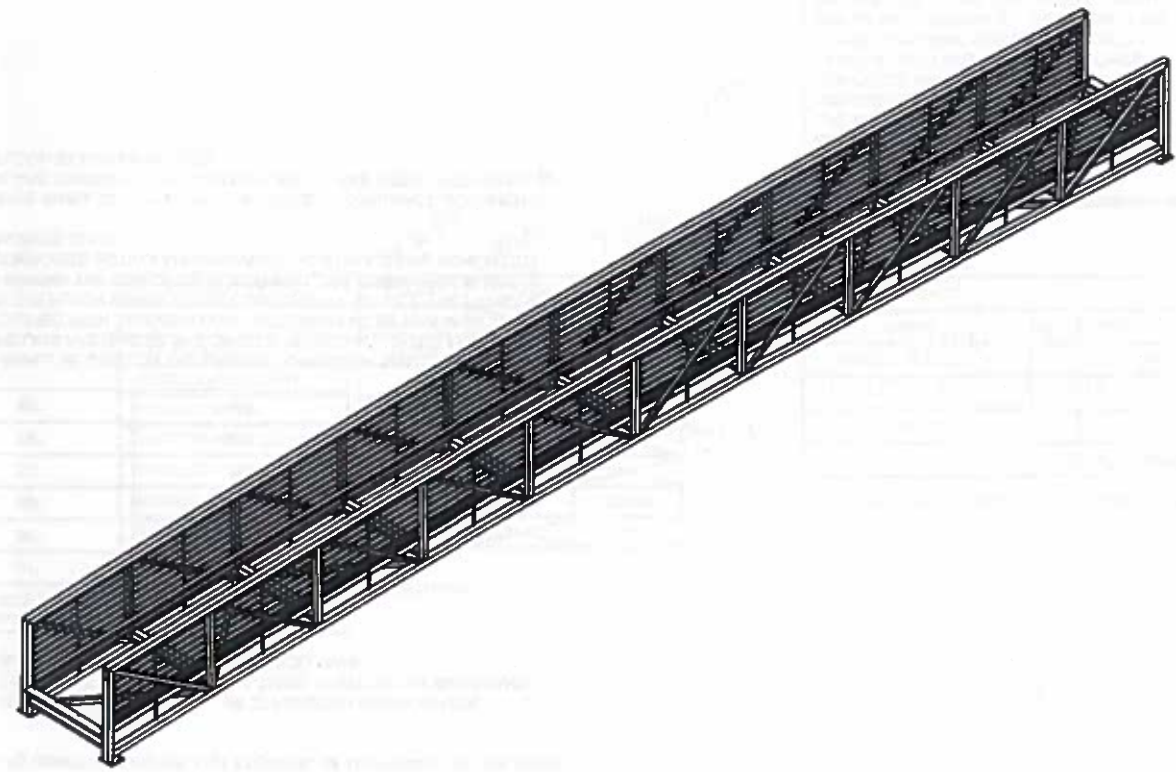
SHEET NO.	DESCRIPTION	REV A
1	TITLE PAGE	06/11/19
2	GENERAL NOTES	06/11/19
3	BEARING REACTION & ANCHOR BOLT LAYOUT	06/11/19
4	ELEVATION & PLAN VIEW	06/11/19
5	CROSS SECTION	06/11/19
6	WELD DETAILS	06/11/19
7	BEARING ELEVATIONS & PLATE DETAILS	06/11/19

REVIEWED BY: *Christy Orsillo*
 COMPANY: *Herrera Environmental*
 DATE: *7-1-19*

BY RELEASING BIG R BRIDGE TO FABRICATE, CUSTOMER ACKNOWLEDGES BIG R BRIDGE SUBMITTAL PLANS HAVE BEEN REVIEWED BY ALL RELATED PARTIES TO THE PROJECT AND THEY ARE DIRECTING BIG R BRIDGE TO FABRICATE ACCORDING TO THE APPROVED PLANS.

PLEASE CHECK ONE BOX FOR EACH SHEET AND ADD COMMENTS AS NEEDED ON APPROPRIATE SHEETS

** See attached submittal reply dated 7-10-19 with notes from Herrera.*



CERTIFICATE OF AUTHORIZATION NO. 3895

BR19-00321/1

DESIGN BY
ENL

DRAWN BY
RDH

CHECKED BY
ENL

SHEET NO.
1

Index	Description	Author	Date
A	ISSUED FOR APPROVAL	RDH	06/11/19

BIG R BRIDGE

19060 County Road 66 • Greeley, Colorado 80631
 (970) 356-9600 • Fax: (970) 356-9621 • www.blgrbridge.com

83'-3 1/2" x 6'-0" ✓
 PRESSENTIN PARK BRIDGE #1
 MARBLEMOUNT, WA
 SKAGIT COUNTY PUBLIC WORKS

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PRESSENTIN PARK BRIDGE #1

MARBLEMOUNT, WA

SKAGIT COUNTY PUBLIC WORKS

REVIEW AND APPROVAL

APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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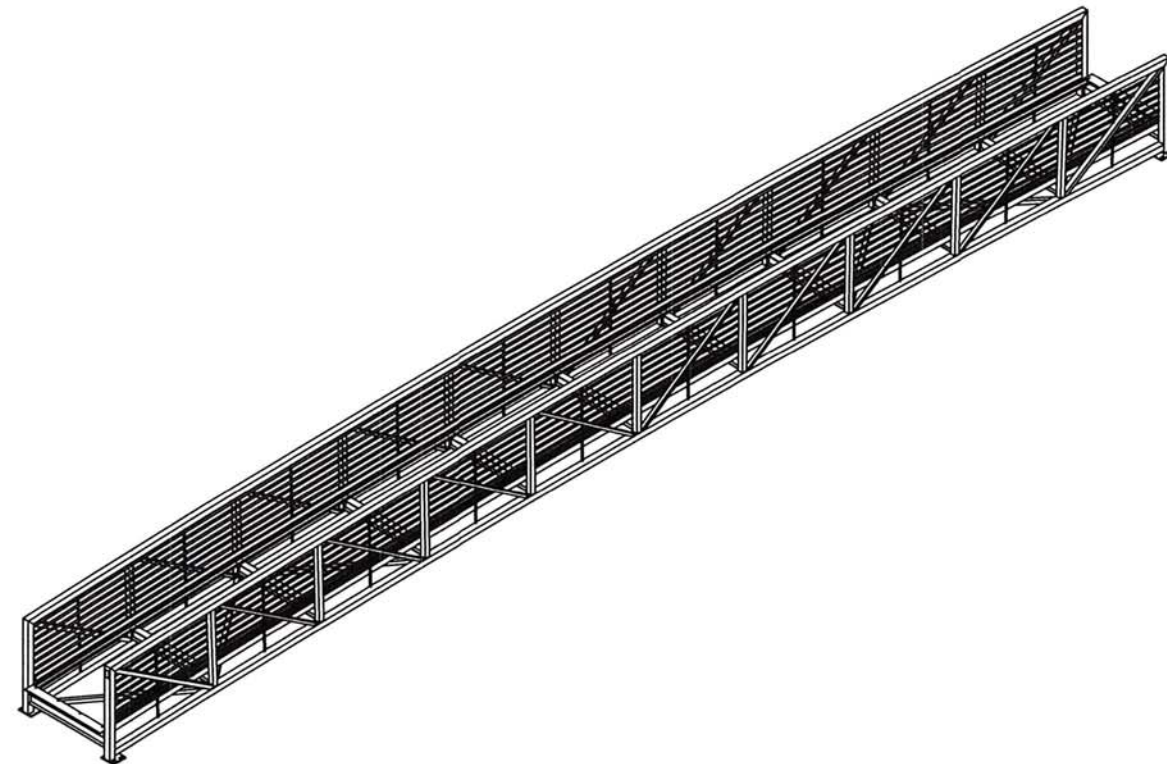
REVIEWED BY: _____
 COMPANY: _____
 DATE: _____

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Index	Description	Author	Date
A	ISSUED FOR APPROVAL	RDH	06/11/19

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83'-3 1/2" x 6'-0"
PRESSENTIN PARK BRIDGE #1
 MARBLEMOUNT, WA
 SKAGIT COUNTY PUBLIC WORKS

CERTIFICATE OF AUTHORIZATION NO. 3895



BR19-00321/1
 DESIGN BY ENL
 DRAWN BY RDH
 CHECKED BY ENL
 SHEET NO.

1

GENERAL NOTES:

1. BIG R BRIDGE HAS AISC QUALITY CERTIFIED BRIDGE FABRICATION - ADVANCED (MAJOR) WITH A FRACTURE CRITICAL AND SOPHISTICATED PAINT ENDORSEMENT, AND CWB CERTIFIED TO CSA STANDARD W47.1 DIVISION 2.
2. DESIGN IS IN ACCORDANCE WITH THE "LRFD GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES" BY AASHTO, DECEMBER 2009.
3. MATERIALS (UNLESS NOTED OTHERWISE):

a. HSS SECTIONS:	ASTM A477 WEATHERING STEEL	Fy = 50 ksi MIN.
b. STEEL SHAPES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
c. STEEL PLATES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
4. DESIGN LOADINGS:
 - a. BRIDGE DEAD LOAD
 - b. UNIFORM PEDESTRIAN LIVE LOAD OF 90 PSF.
 - c. VEHICLE LIVE LOAD OF 4,000 LB TRUCK.
 - d. WIND LOAD FROM 90 MPH WIND AT A MAX HEIGHT OF 32.8' ABOVE GRADE.
 - e. SNOW LOAD OF 50 PSF
 - f. SEISMIC LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 3.10:
 - SITE CLASS: D
 - PGA = 0.24
 - S_v = 0.55
 - S₁ = 0.18
 - PERIOD OF BRIDGE, T_m = 0.277 SEC
5. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AWS D1.1
6. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS.
7. FINISH:
 - ALL EXPOSED SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6, SSPC-SP6 COMMERCIAL BLAST CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE OF THE STRUCTURE. ALL OTHER SURFACES TO HAVE STANDARD MILL FINISH.
8. MAINTENANCE NOTE: DO NOT APPLY DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE.
9. SHOP SPLICES:
 - a. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS.
 - b. ALL HORIZONTAL RAIL COMPONENT JOINTS TO BE AT THE CENTERLINE OF VERTICALS, EACH END WELDED TO THE VERTICAL AND SEAL WELDED TOGETHER. SEAL WELD TO BE GROUND SMOOTH AND VISUAL INSPECTION ONLY REQUIRED.

CONCRETE NOTES:

1. BIG R BRIDGE IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION ARE OUTSIDE OF BIG R BRIDGE'S RESPONSIBILITY.
2. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS. IF THESE ITEMS ARE NOT COVERED IN THE PROJECT CONTRACT DOCUMENTS THE REQUIREMENTS OF SECTION 552 OF FEDERAL HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-14) SHALL BE USED. FP-14 CAN BE VIEWED OR DOWNLOADED AT: <http://fh.fhwa.dot.gov/business/resources/specs/>
3. MINIMUM MATERIAL REQUIREMENTS:
 - a. CONCRETE:
 - f_c = 4000 psi AT 28 DAY
 - AIR CONTENT OF 5% +/- 1%
 - UNIT WEIGHT OF 145 PCF MAX
 - b. REINFORCING:
 - ASTM A615 OR AASHTO M31 GRADE 60
4. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF BIG R BRIDGE.
5. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.
6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPLICES SHALL BE LOCATED AT OR NEAR THE ONE-THIRD POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE (145 PCF)	LIGHT WEIGHT CONCRETE (120 PCF)
#4	31"	35"
#5	39"	44"
#6	46"	53"
#7	58"	66"
#8	76"	86"
#9	96"	108"
7. STAY IN PLACE GALVANIZED FORM DECK SHALL BE USED ON THE BRIDGE. FORM DECK SHALL BE SHOP ATTACHED TO FLOOR BEAMS VIA SELF-DRILLING FASTENERS, WELDING OR POWER ACTUATED FASTENERS. LONGITUDINAL SHEET LAPS SHALL BE ATTACHED WITH SELF-DRILLING FASTENERS AT 36" MAXIMUM SPACING. THE ATTACHMENT OF THE FORM DECK TO THE FLOOR BEAMS IS ONLY NECESSARY TO KEEP THE FORM DECK IN PLACE DURING TRANSPORTATION AND DURING THE CONCRETE PLACEMENT. THE FORM DECK IS NOT REQUIRED FOR DIAPHRAGM ACTION OR COMPOSITE ACTION AND PROVIDES NO STRUCTURAL BENEFIT TO THE TRUSS OR THE DECK AFTER THE CONCRETE IS SET.
8. THE USE OF GROOVED CONTRACTION JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTION JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.


Index	Description	Author	Date
A	ISSUED FOR APPROVAL	RDH	06/11/19

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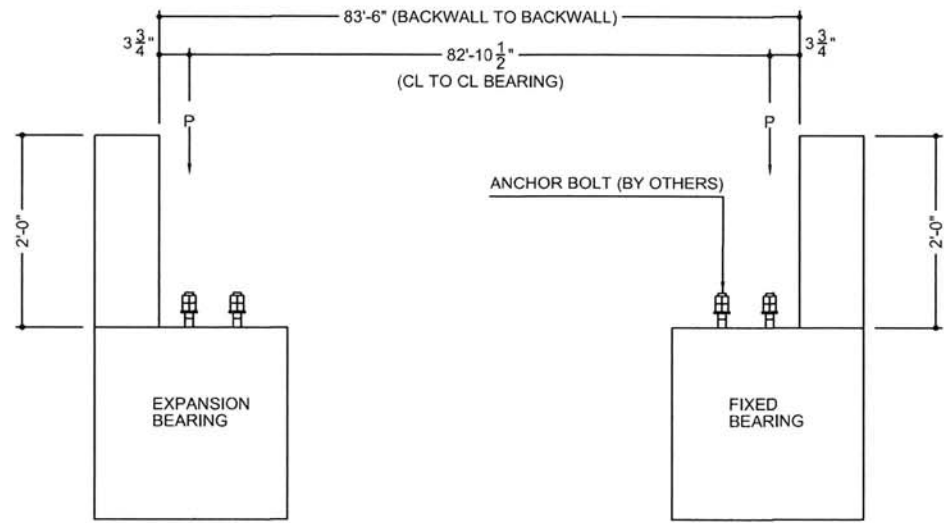


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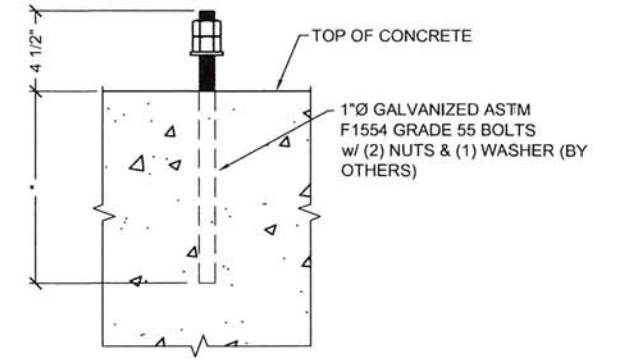
CERTIFICATE OF AUTHORIZATION NO. 3895	
	BR19-00321/1 DESIGN BY ENL DRAWN BY RDH CHECKED BY ENL SHEET NO. 2

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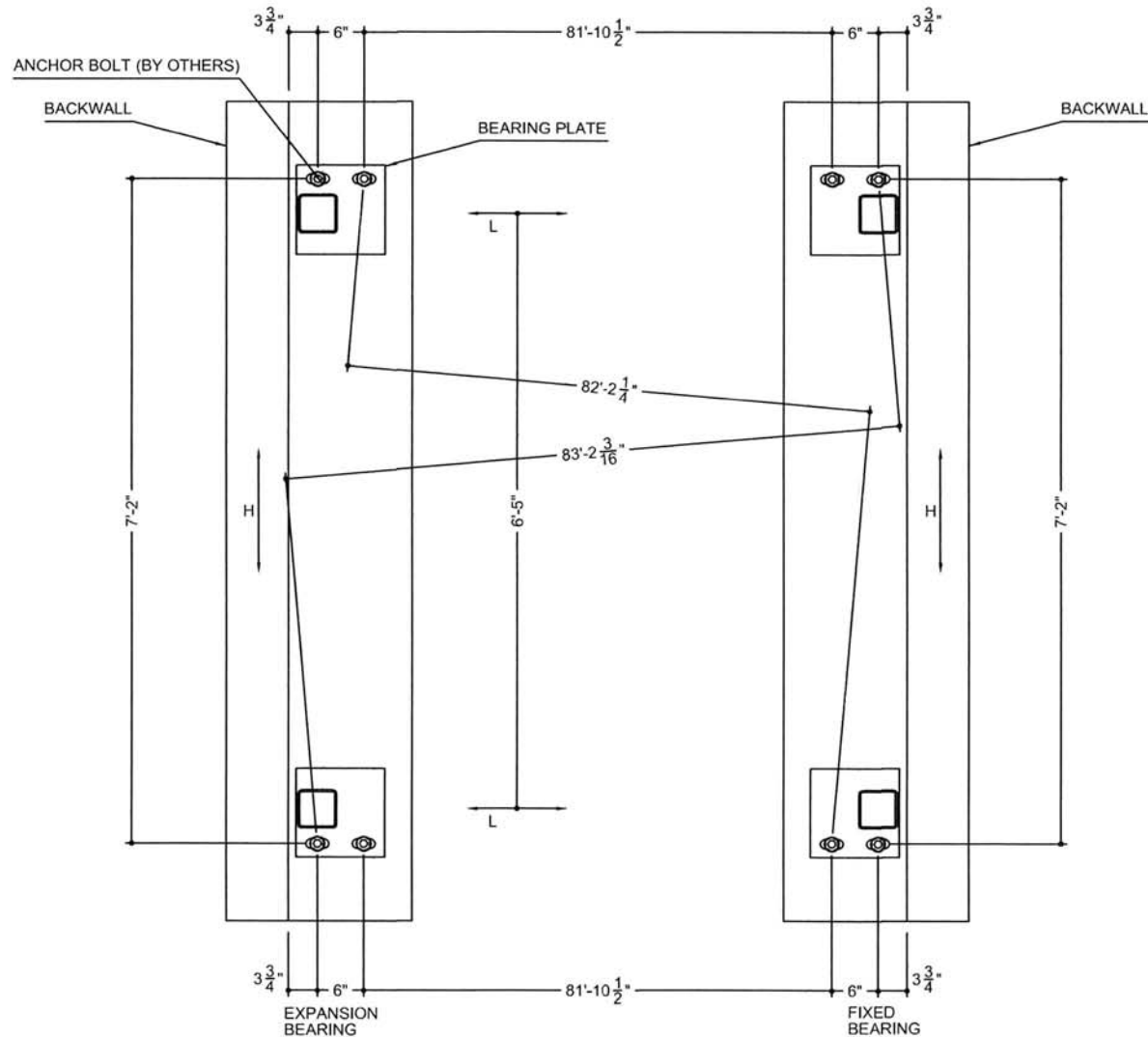
ANCHOR BOLT ELEVATION LAYOUT

NOTE:
 BACK WALL HEIGHT, DISTANCE BETWEEN BACK WALLS AND ANCHOR BOLT LAYOUT MAY DIFFER FROM CONTRACT PLANS. CONTRACTOR IS RESPONSIBLE FOR BUILDING THE FOUNDATION SUPPORT SYSTEM TO THE DIMENSIONS SHOWN IN THESE BIG R PLANS, EVEN IF THEY DIFFER FROM THE CONTRACT PLANS. ACTUAL FIELD DIMENSIONS OF BRIDGE MAY VARY FROM THE DIMENSIONS SHOWN WITHIN THESE BIG R PLANS DUE TO THERMAL EXPANSION, FABRICATION TOLERANCES AND CAMBER ROTATIONS. THESE VARIANCES HAVE BEEN ACCOUNTED FOR WITHIN THE FOUNDATION DIMENSIONS SHOWN IN THESE BIG R PLANS.



ANCHOR BOLT DETAIL

*** NOTE:**
 ANCHOR BOLTS ARE DESIGNED BY BIG R BRIDGE FOR STEEL STRENGTH IN SHEAR AND TENSION OF THE ANCHOR BOLT ONLY. ALL DESIGN CONSIDERATIONS REGARDING CONCRETE BREAKOUT STRENGTH IN SHEAR AND TENSION, PULLOUT STRENGTH, CONCRETE SIDE-FACE BLOWOUT STRENGTH, CONCRETE PRYOUT STRENGTH, EMBEDMENT DEPTH, TYPE OF ANCHORAGE OR ANY OTHER CONCRETE FAILURE MODES ARE NOT CONSIDERED AND ARE NOT THE RESPONSIBILITY OF BIG R BRIDGE. IF LARGER DIAMETER BOLTS ARE REQUIRED TO MEET ANY OF THESE REQUIREMENTS, THAT INFORMATION MUST BE PROVIDED TO BIG R BRIDGE PRIOR TO BEGINNING ANY FABRICATION ON THE BRIDGE.



ANCHOR BOLT PLAN LAYOUT

BRIDGE REACTIONS	P (LBS)	H (LBS)	L (LBS)
DEAD	10,900		
LIVE (90 PSF)	11,300		
VEHICLE (4,000 LBS)	2,600		
WIND (90 MPH)	±5,600	11,600	
OVERTURNING (20 PSF)	-3,700		
SNOW (50 PSF)	6,300		
SEISMIC		20,500	20,500
THERMAL			3,900

P: FOUR PER BRIDGE
 H: TWO PER BRIDGE (ONE PER ABUTMENT)
 L: FOUR PER BRIDGE

LIFTING WEIGHTS			
ITEM	QTY	UNIT WEIGHT (LBS)	TOTAL WEIGHT (LBS)
BRIDGE SECTION #1	1	15,100	15,100
LOOSE ITEMS		-	135
* TOTAL BRIDGE WEIGHT:			15,235

* FULL STRUCTURE NOT INCLUDING WEIGHT OF CONCRETE

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83'-3 1/2" x 6'-0"
 PRESSENTIN PARK BRIDGE #1
 MARBLEMOUNT, WA
 SKAGIT COUNTY PUBLIC WORKS

CERTIFICATE OF AUTHORIZATION NO. 3895

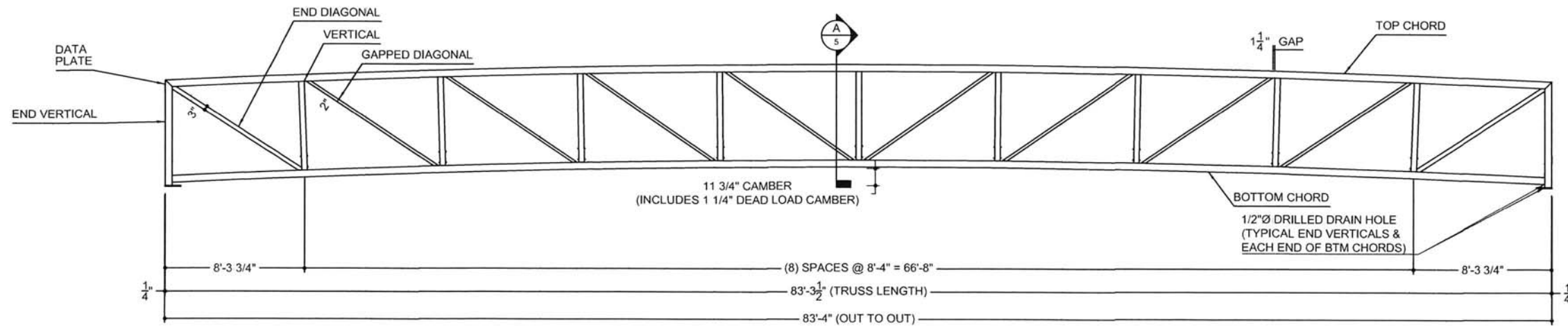
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ENL

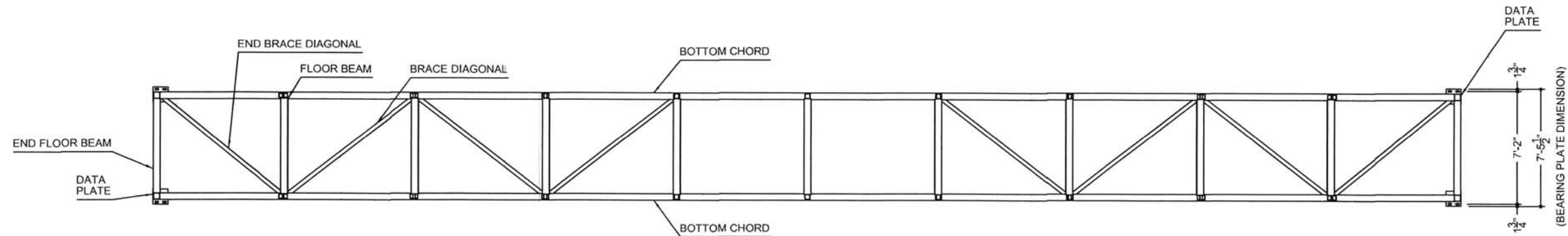
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ENL

SHEET NO.
3



OUTSIDE ELEVATION



BOTTOM CHORD DETAIL

MEMBERS	SIZE
END FLOOR BEAM	W8x18
FLOOR BEAM	W8x18
BOTTOM CHORD	HSS 5X5X1/4
END VERTICAL	HSS 5X5X1/4
TOP CHORD	HSS 5X5X1/4
VERTICAL	HSS 4X4X1/4
END DIAGONAL	HSS 4X3X1/4
BRACE DIAGONAL	HSS 3X3X1/4
END BRACE DIAGONAL	HSS 3X3X1/4
BRIDGE DECK	VULCRAFT 1.5C18 (36") G90
GAPPED DIAGONAL	HSS 3X2X1/4
SIDE DAM	C5X6.7
TOE PLATE	C4X4.5
SAFETY RAIL	L1 1/2X1 1/2X1/8
END DAM	PL 1/4"x5"

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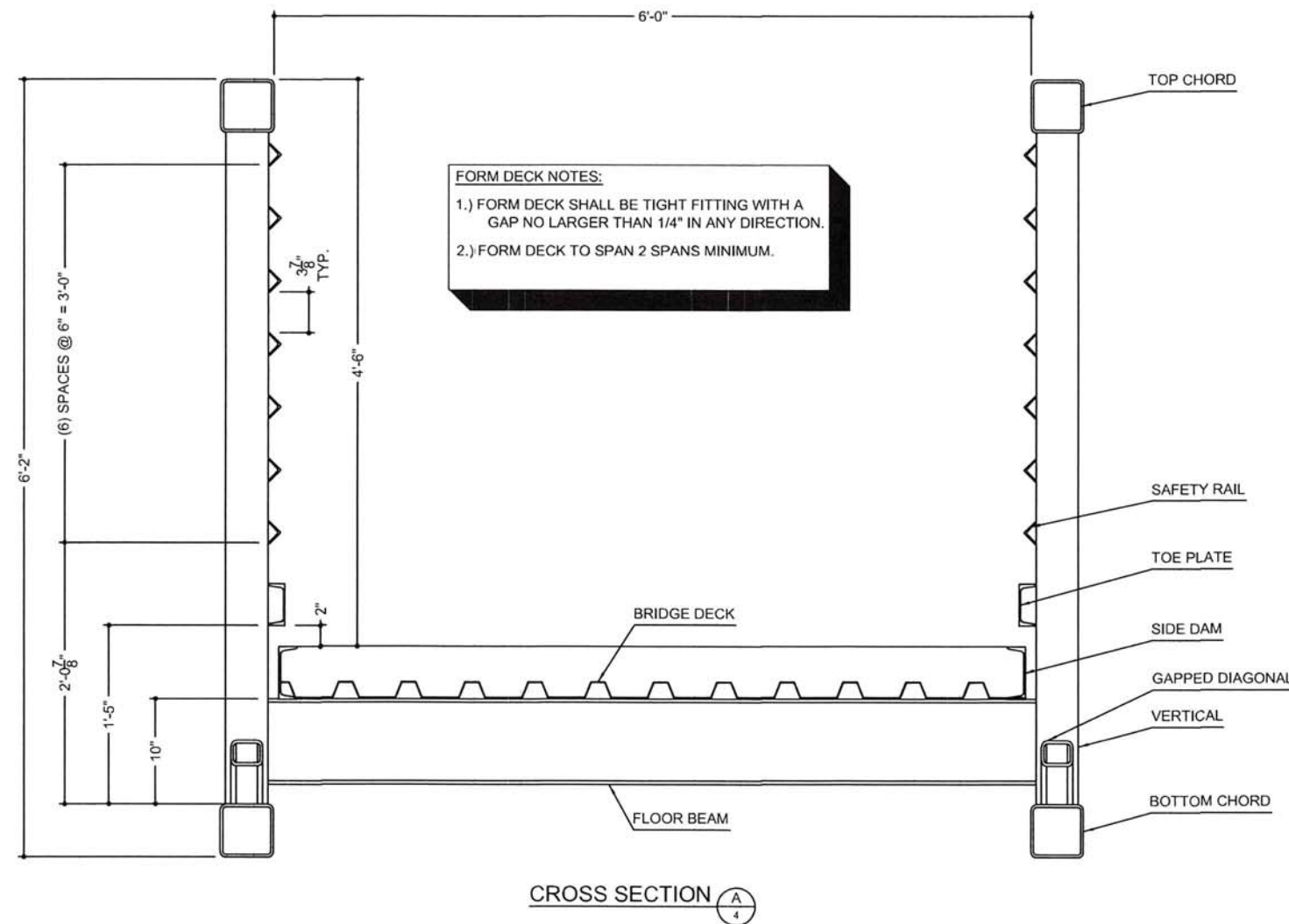
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NOTE: ALL CONCRETE & REBAR BY OTHERS

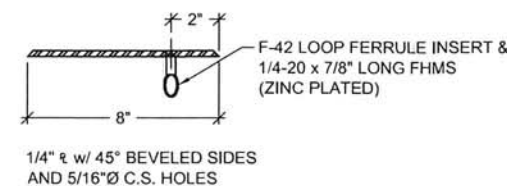
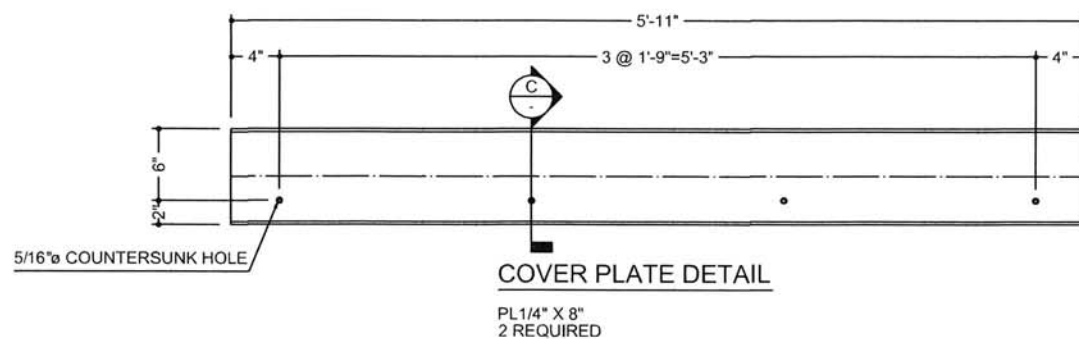
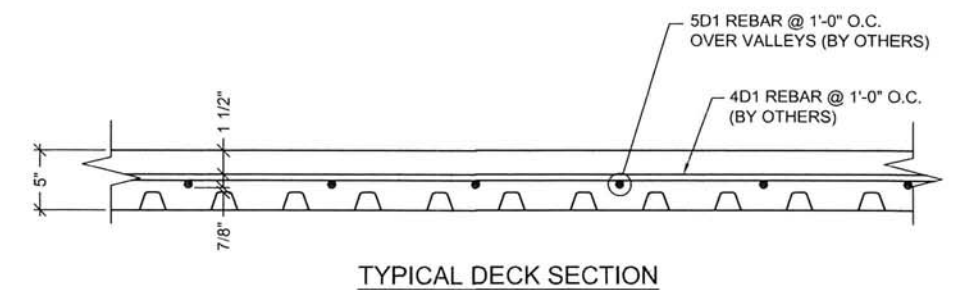
REBAR SCHEDULE				
MARK	TYPE	QUANTITY	LENGTH	REMARKS
4D1	STRAIGHT	85	5'-7"	
5D1	STRAIGHT	7	83'-0"	*

DIGIT PRECEDING LETTER DENOTES SIZE OF REBAR

* SEE CONCRETE NOTE 6 ON 2 FOR SPLICING



FORM DECK NOTES:
 1.) FORM DECK SHALL BE TIGHT FITTING WITH A GAP NO LARGER THAN 1/4" IN ANY DIRECTION.
 2.) FORM DECK TO SPAN 2 SPANS MINIMUM.



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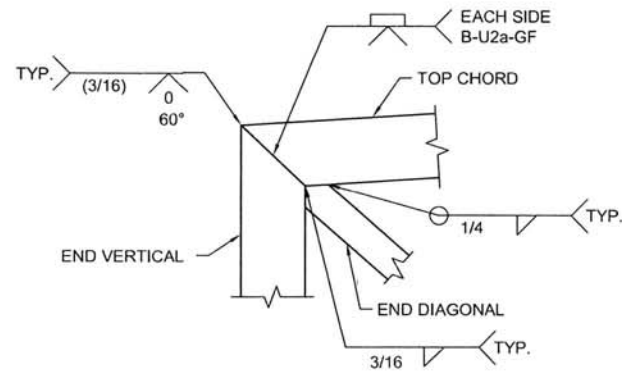
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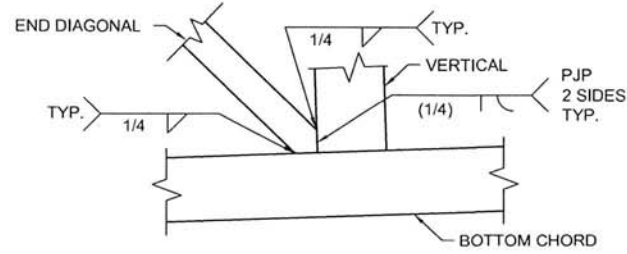
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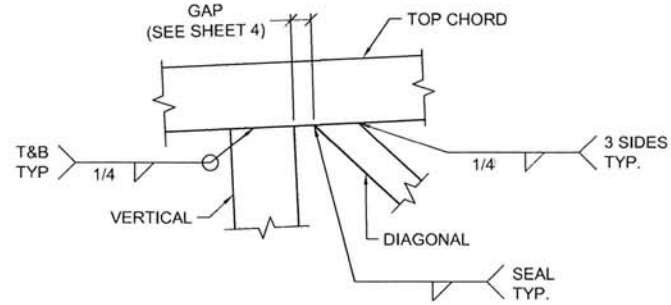
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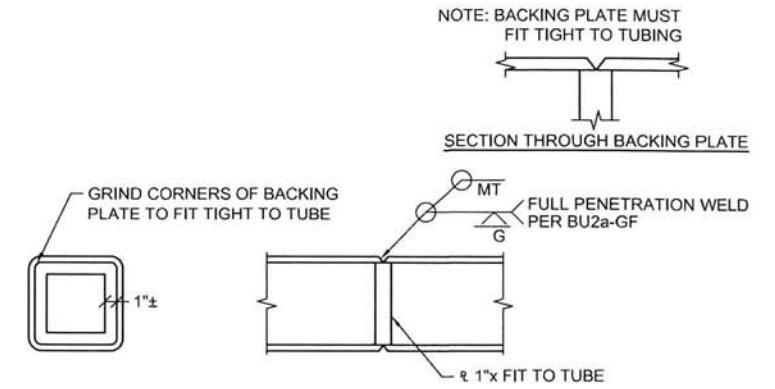
TOP CHORD AND END DIAGONAL AT END VERTICAL WELD DETAIL



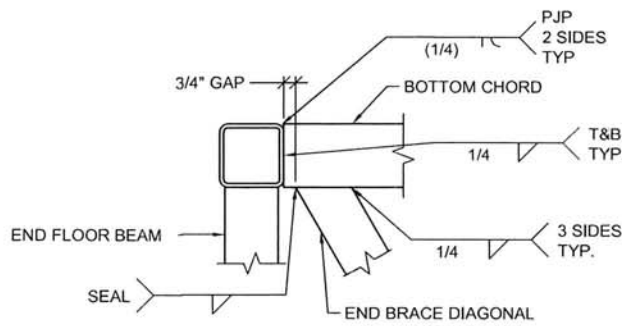
END DIAGONAL AT BOTTOM CHORD WELD DETAIL



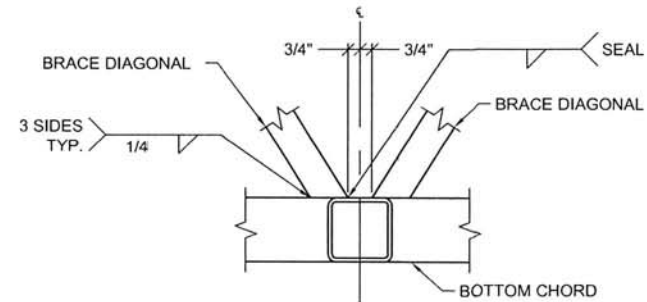
VERTICAL AND GAPPED DIAGONAL WELD DETAIL



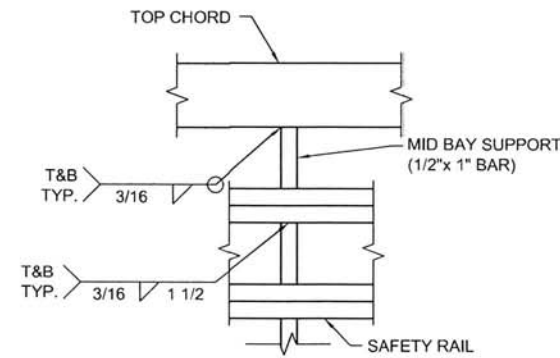
TYPICAL SHOP SPLICE DETAIL



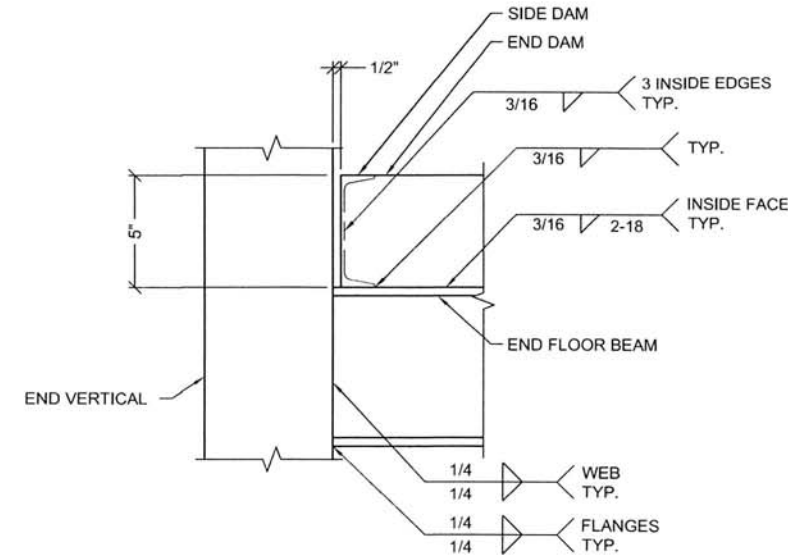
END BRACE DIAGONAL, BOTTOM CHORD AT END VERTICAL WELD DETAIL



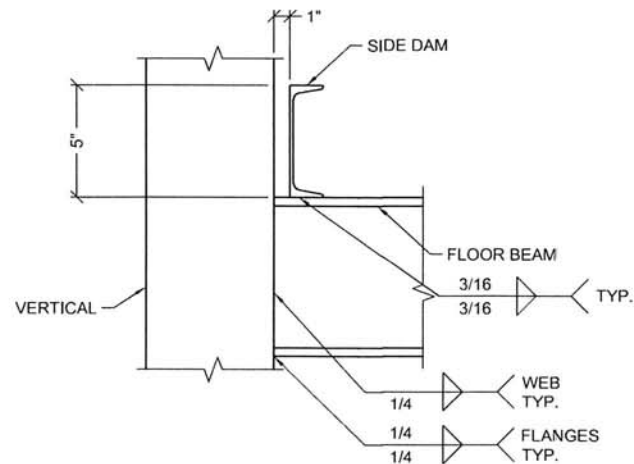
BRACE DIAGONAL AT VERTICAL WELD DETAIL



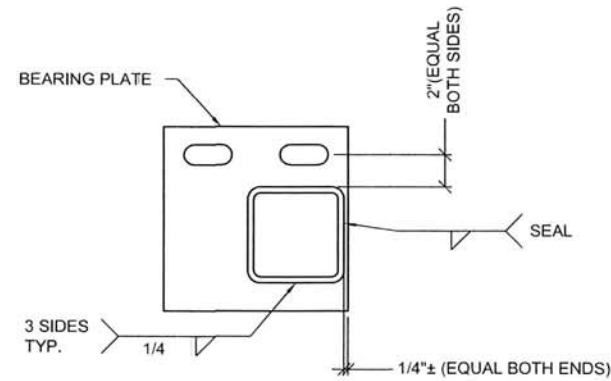
MID BAY SUPPORT WELD DETAIL



END FLOOR BEAM AND END VERTICAL WELD DETAIL



FLOOR BEAM AND VERTICAL WELD DETAIL



END VERTICAL AND BEARING PLATE WELD DETAIL

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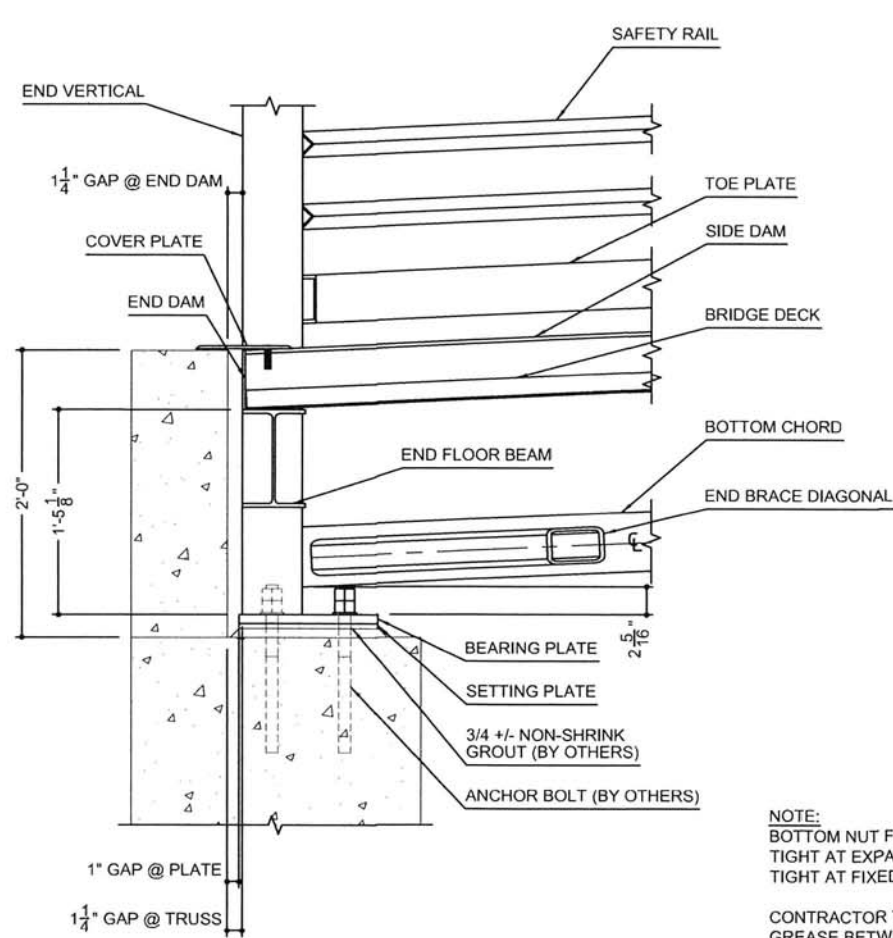
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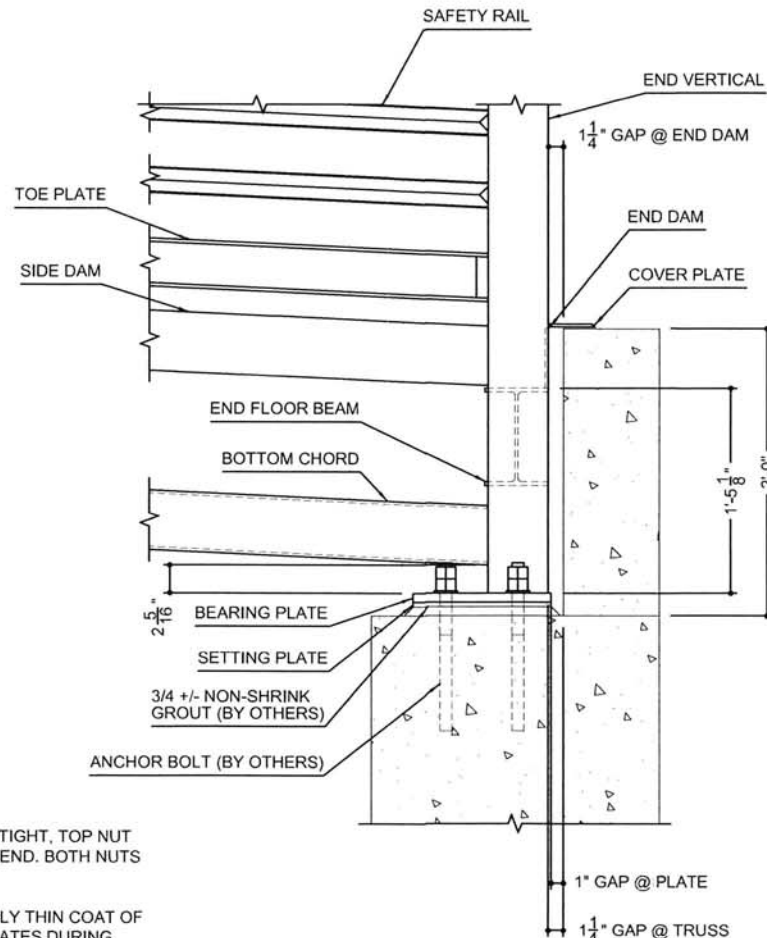
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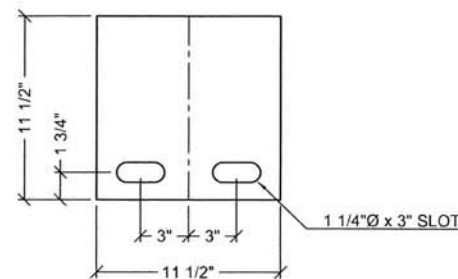
INSIDE ELEVATION
EXPANSION



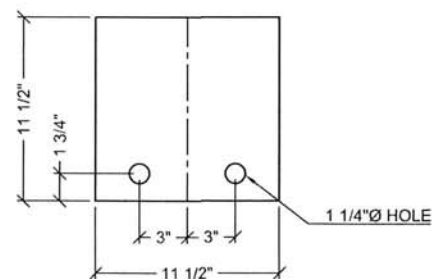
OUTSIDE ELEVATION
FIXED

NOTE:
BOTTOM NUT FINGER TIGHT, TOP NUT TIGHT AT EXPANSION END. BOTH NUTS TIGHT AT FIXED END.

CONTRACTOR TO APPLY THIN COAT OF GREASE BETWEEN PLATES DURING INSTALLATION.



BEARING PLATE
PL 3/4"x11 1/2" - QTY 4



SETTING PLATE
PL 3/8"x11 1/2" - QTY 4

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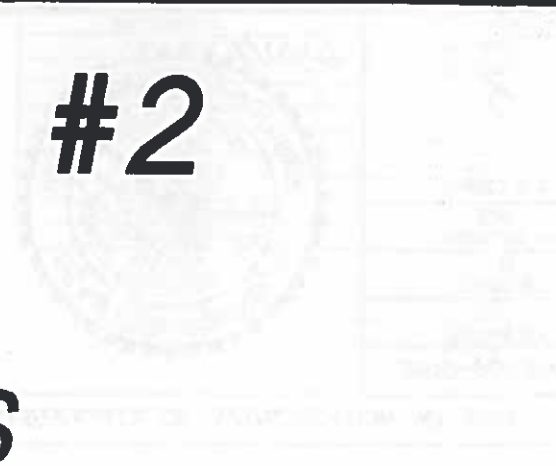
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PRESSENTIN PARK BRIDGE #2

MARBLEMOUNT, WA

SKAGIT COUNTY PUBLIC WORKS



REVIEW AND APPROVAL ***

DRAWING INDEX

APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
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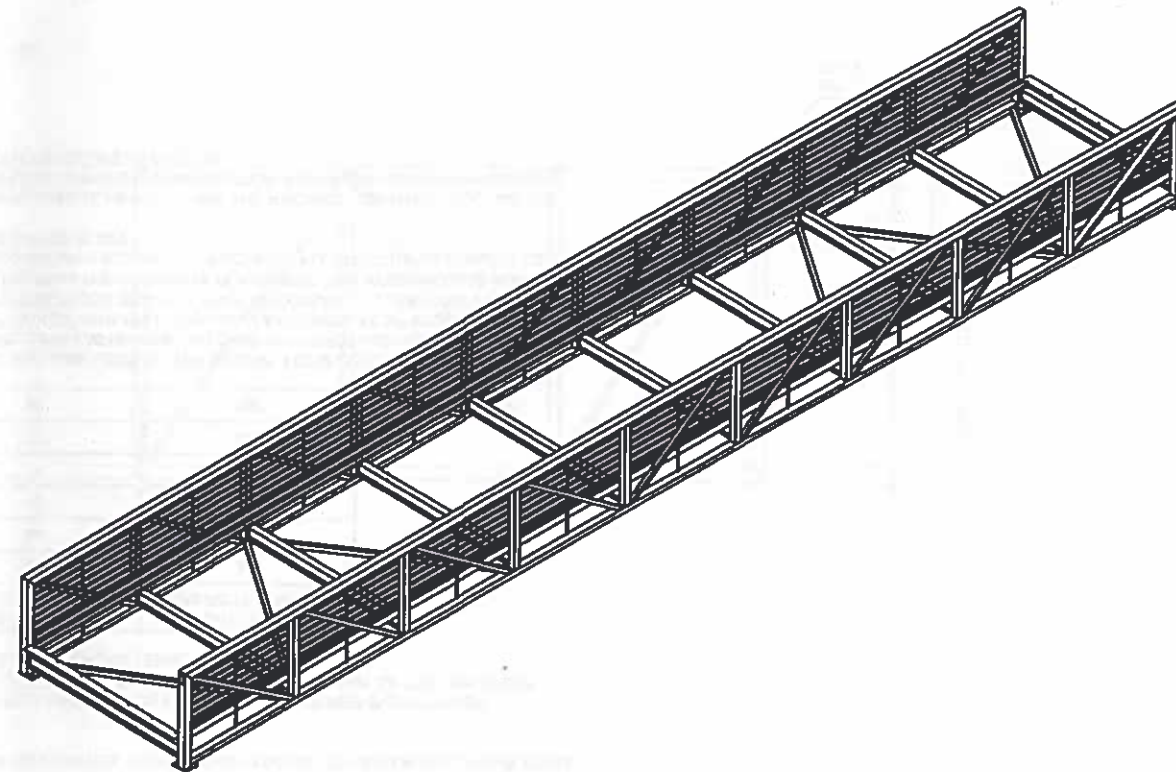
SHEET NO.	DESCRIPTION	REV A
1	TITLE PAGE	06/11/2019
2	GENERAL NOTES	06/11/2019
3	BEARING REACTION & ANCHOR BOLT LAYOUT	06/11/2019
4	ELEVATION & PLAN VIEW	06/11/2019
5	CROSS SECTION	06/11/2019
6	WELD DETAILS	06/11/2019
7	BEARING ELEVATIONS & PLATE DETAILS	06/11/2019

REVIEWED BY: *Harold Noble*
 COMPANY: *Herrera Environmental*
 DATE: *7-11-19*

BY RELEASING BIG R BRIDGE TO FABRICATE, CUSTOMER ACKNOWLEDGES BIG R BRIDGE SUBMITTAL PLANS HAVE BEEN REVIEWED BY ALL RELATED PARTIES TO THE PROJECT AND THEY ARE DIRECTING BIG R BRIDGE TO FABRICATE ACCORDING TO THE APPROVED PLANS.

PLEASE CHECK ONE BOX FOR EACH SHEET AND ADD COMMENTS AS NEEDED ON APPROPRIATE SHEETS

** See attached submittal reply dated 7-10-19 with notes from Herrera*



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1

6/11/19

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PRESSENTIN PARK BRIDGE #2

MARBLEMOUNT, WA

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REVIEW AND APPROVAL

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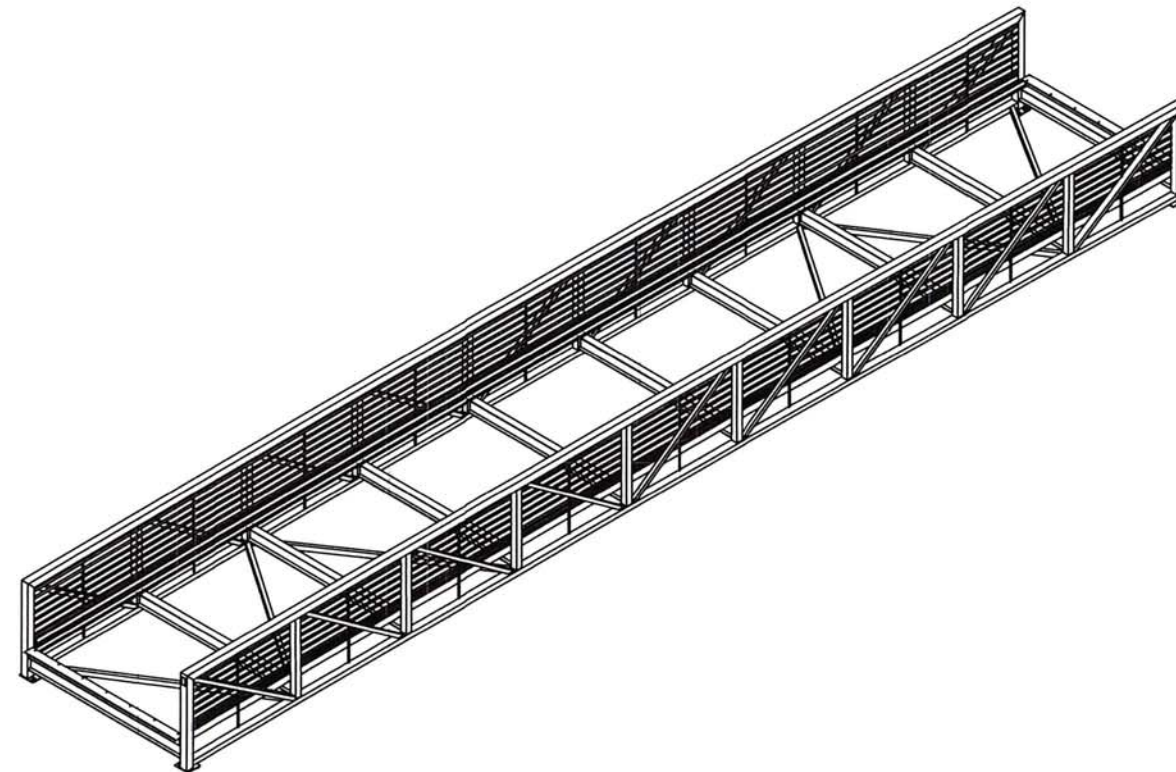
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1

GENERAL NOTES:

1. BIG R BRIDGE HAS AISC QUALITY CERTIFIED BRIDGE FABRICATION - ADVANCED (MAJOR) WITH A FRACTURE CRITICAL AND SOPHISTICATED PAINT ENDORSEMENT, AND CWB CERTIFIED TO CSA STANDARD W47.1 DIVISION 2.
2. DESIGN IS IN ACCORDANCE WITH THE "LRFD GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES" BY AASHTO, DECEMBER 2009.
3. MATERIALS (UNLESS NOTED OTHERWISE):

a. HSS SECTIONS:	ASTM A847 WEATHERING STEEL	Fy = 50 ksi MIN.
b. STEEL SHAPES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
c. STEEL PLATES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
4. DESIGN LOADINGS:
 - a. BRIDGE DEAD LOAD
 - b. UNIFORM PEDESTRIAN LIVE LOAD OF 90 PSF.
 - c. VEHICLE LIVE LOAD OF 15,000 LB TRUCK.
 - d. WIND LOAD FROM 90 MPH WIND AT A MAX HEIGHT OF 32.8' ABOVE GRADE.
 - e. SNOW LOAD OF 50 PSF
 - f. SEISMIC LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 3.10:
 - SITE CLASS: D
 - PGA = 0.24
 - S_v = 0.55
 - S_h = 0.18
 - PERIOD OF BRIDGE, T_m = 0.139 SEC
5. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AWS D1.1
6. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS.
7. FINISH:

ALL EXPOSED SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6, SSPC-SP6 COMMERCIAL BLAST CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE OF THE STRUCTURE. ALL OTHER SURFACES TO HAVE STANDARD MILL FINISH.
8. MAINTENANCE NOTE: DO NOT APPLY DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE.
9. SHOP SPLICES:
 - a. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS.
 - b. ALL HORIZONTAL RAIL COMPONENT JOINTS TO BE AT THE CENTERLINE OF VERTICALS, EACH END WELDED TO THE VERTICAL AND SEAL WELDED TOGETHER. SEAL WELD TO BE GROUND SMOOTH AND VISUAL INSPECTION ONLY REQUIRED.

CONCRETE NOTES:

1. BIG R BRIDGE IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION ARE OUTSIDE OF BIG R BRIDGE'S RESPONSIBILITY.
2. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS. IF THESE ITEMS ARE NOT COVERED IN THE PROJECT CONTRACT DOCUMENTS THE REQUIREMENTS OF SECTION 552 OF FEDERAL HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-14) SHALL BE USED. FP-14 CAN BE VIEWED OR DOWNLOADED AT: <http://fh.fhwa.dot.gov/business/resources/specs/>
3. MINIMUM MATERIAL REQUIREMENTS:
 - a. CONCRETE:
 - f_c = 4000 psi AT 28 DAY
 - AIR CONTENT OF 5% +/- 1%
 - UNIT WEIGHT OF 145 PCF MAX
 - b. REINFORCING:
 - ASTM A615 OR AASHTO M31 GRADE 60
4. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF BIG R BRIDGE.
5. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.
6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPLICES SHALL BE LOCATED AT OR NEAR THE ONE-THIRD POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE (145 PCF)	LIGHT WEIGHT CONCRETE (120 PCF)
#4	31"	35"
#5	39"	44"
#6	46"	53"
#7	58"	66"
#8	76"	86"
#9	96"	108"
7. STAY IN PLACE GALVANIZED FORM DECK SHALL BE USED ON THE BRIDGE. FORM DECK SHALL BE SHOP ATTACHED TO FLOOR BEAMS VIA SELF-DRILLING FASTENERS, WELDING OR POWER ACTUATED FASTENERS. LONGITUDINAL SHEET LAPS SHALL BE ATTACHED WITH SELF-DRILLING FASTENERS AT 36" MAXIMUM SPACING. THE ATTACHMENT OF THE FORM DECK TO THE FLOOR BEAMS IS ONLY NECESSARY TO KEEP THE FORM DECK IN PLACE DURING TRANSPORTATION AND DURING THE CONCRETE PLACEMENT. THE FORM DECK IS NOT REQUIRED FOR DIAPHRAGM ACTION OR COMPOSITE ACTION AND PROVIDES NO STRUCTURAL BENEFIT TO THE TRUSS OR THE DECK AFTER THE CONCRETE IS SET.
8. THE USE OF GROOVED CONTRACTION JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTION JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.

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Index	Description	Author	Date
A	ISSUED FOR APPROVAL	RDH	06/11/2019

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78'-3 1/2" x 12'-0"
PRESENTIN PARK BRIDGE #2
MARBLEMOUNT, WA
SKAGIT COUNTY PUBLIC WORKS

CERTIFICATE OF AUTHORIZATION NO. 3895



BR19-00321/2

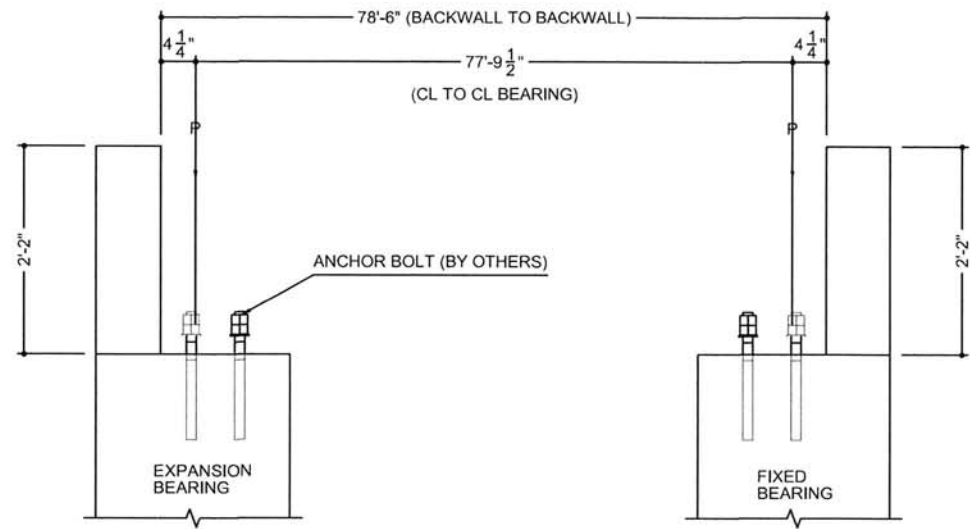
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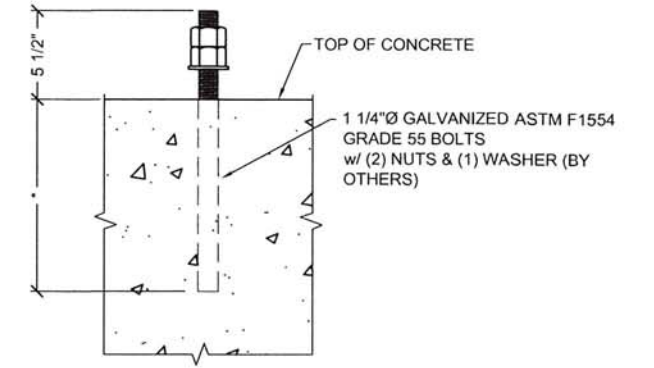
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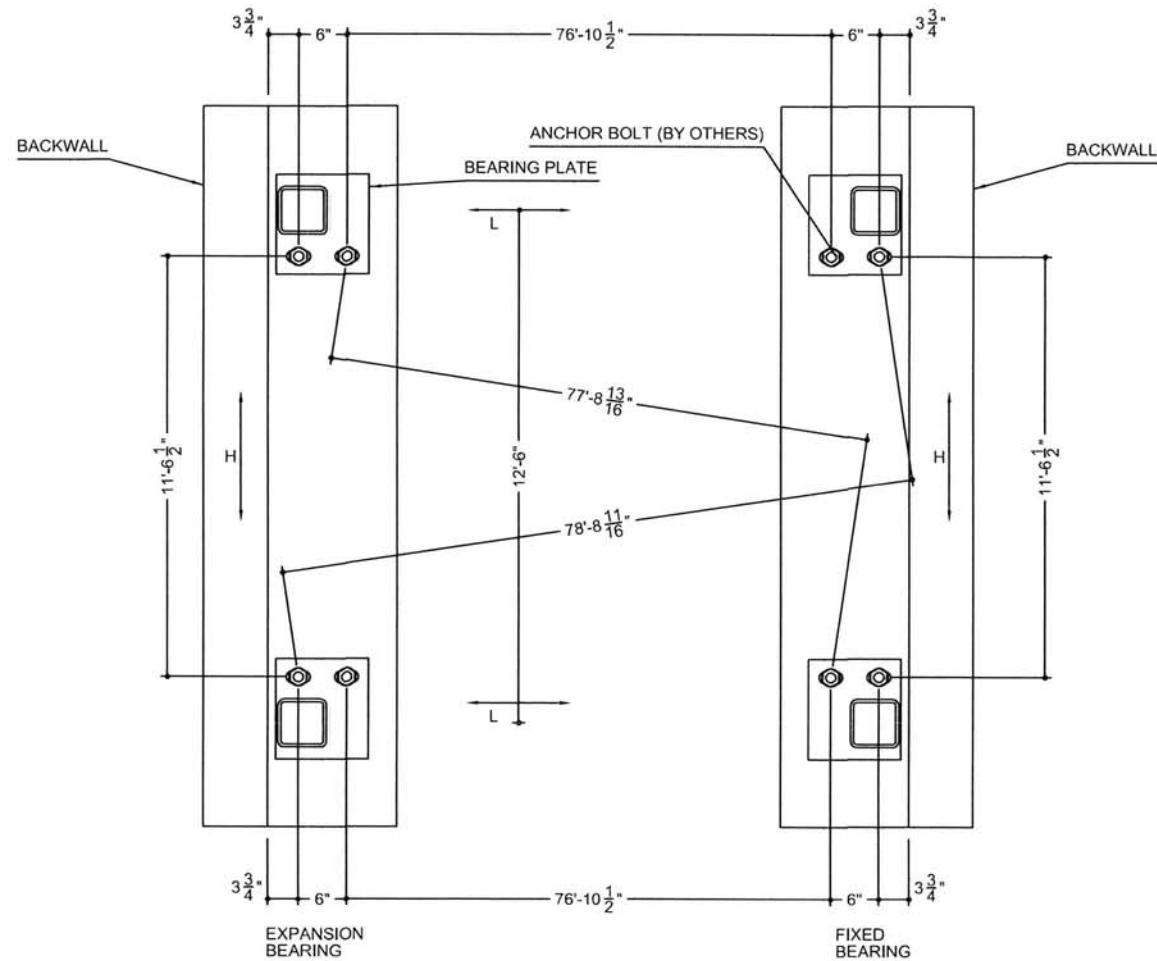
ANCHOR BOLT ELEVATION LAYOUT

NOTE:
 BACK WALL HEIGHT, DISTANCE BETWEEN BACK WALLS AND ANCHOR BOLT LAYOUT MAY DIFFER FROM CONTRACT PLANS. CONTRACTOR IS RESPONSIBLE FOR BUILDING THE FOUNDATION SUPPORT SYSTEM TO THE DIMENSIONS SHOWN IN THESE BIG R PLANS, EVEN IF THEY DIFFER FROM THE CONTRACT PLANS. ACTUAL FIELD DIMENSIONS OF BRIDGE MAY VARY FROM THE DIMENSIONS SHOWN WITHIN THESE BIG R PLANS DUE TO THERMAL EXPANSION, FABRICATION TOLERANCES AND CAMBER ROTATIONS. THESE VARIANCES HAVE BEEN ACCOUNTED FOR WITHIN THE FOUNDATION DIMENSIONS SHOWN IN THESE BIG R PLANS.



ANCHOR BOLT DETAIL

*** NOTE:**
 ANCHOR BOLTS ARE DESIGNED BY BIG R BRIDGE FOR STEEL STRENGTH IN SHEAR AND TENSION OF THE ANCHOR BOLT ONLY. ALL DESIGN CONSIDERATIONS REGARDING CONCRETE BREAKOUT STRENGTH IN SHEAR AND TENSION, PULLOUT STRENGTH, CONCRETE SIDE-FACE BLOWOUT STRENGTH, CONCRETE PRYOUT STRENGTH, EMBEDMENT DEPTH, TYPE OF ANCHORAGE OR ANY OTHER CONCRETE FAILURE MODES ARE NOT CONSIDERED AND ARE NOT THE RESPONSIBILITY OF BIG R BRIDGE. IF LARGER DIAMETER BOLTS ARE REQUIRED TO MEET ANY OF THESE REQUIREMENTS, THAT INFORMATION MUST BE PROVIDED TO BIG R BRIDGE PRIOR TO BEGINNING ANY FABRICATION ON THE BRIDGE.



ANCHOR BOLT PLAN LAYOUT

BRIDGE REACTIONS	P (LBS)	H (LBS)	L (LBS)
DEAD	20,100		
LIVE (90 PSF)	21,200		
VEHICLE (15000 LB)	8,900		
WIND (90 MPH)	±3,000	11,500	
OVERTURNING (20 PSF)	-7,000		
SNOW (50 PSF)	11,800		
SEISMIC		37,900	37,900
THERMAL			3,100

P: FOUR PER BRIDGE
 H: TWO PER BRIDGE (ONE PER ABUTMENT)
 L: FOUR PER BRIDGE

LIFTING WEIGHTS			
ITEM	QTY	UNIT WEIGHT (LBS)	TOTAL WEIGHT (LBS)
BRIDGE SECTION #1	1	21,260	21,260
LOOSE ITEMS		-	255
* TOTAL BRIDGE WEIGHT:			21,515

* FULL STRUCTURE NOT INCLUDING WEIGHT OF CONCRETE

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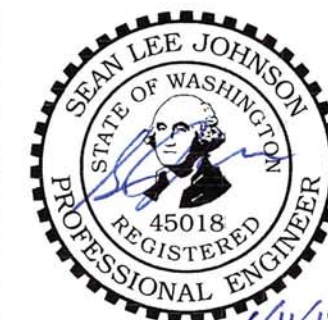
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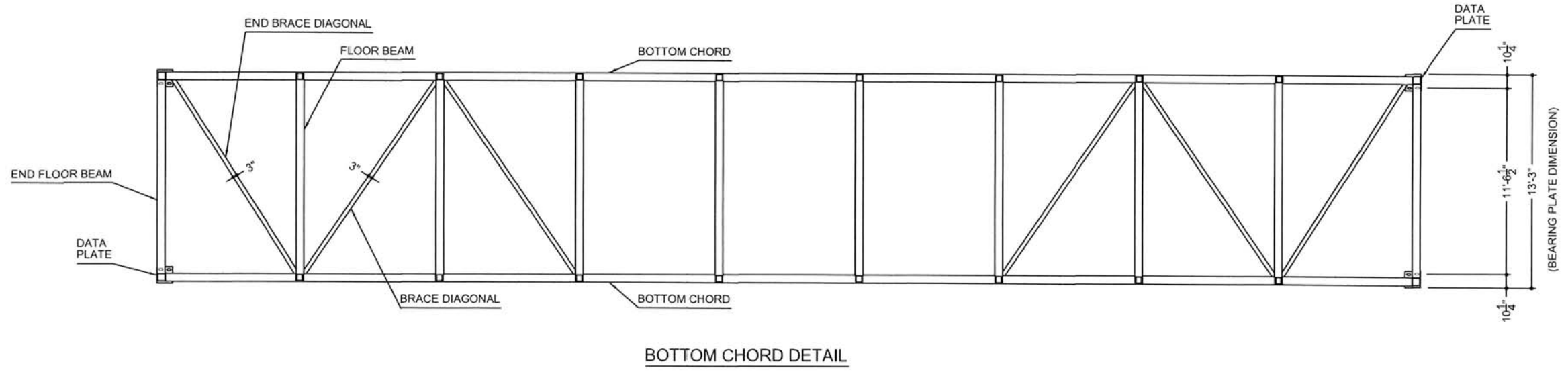
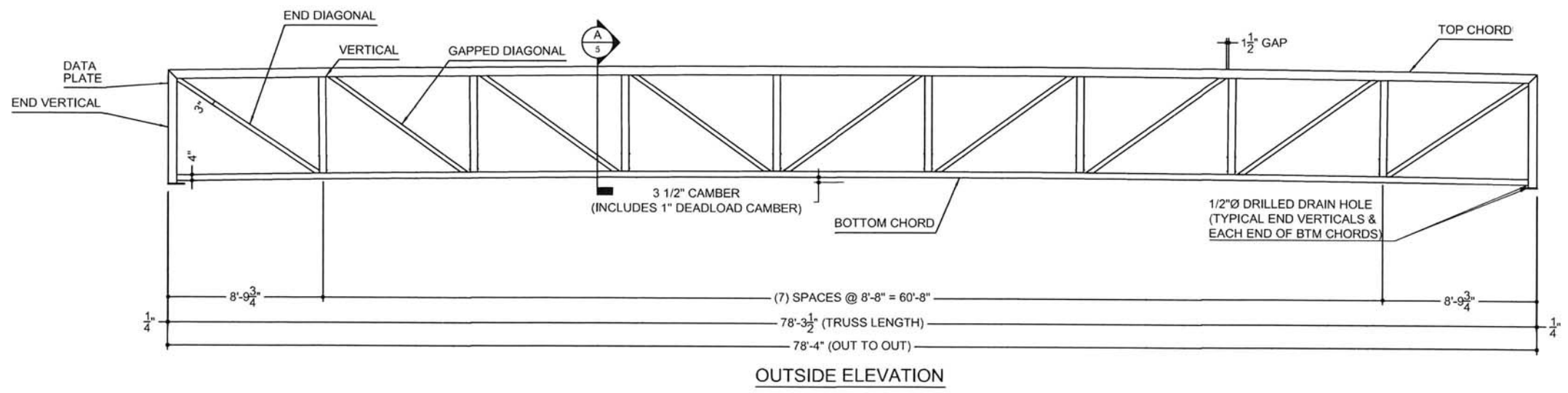


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 RDH
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 ENL
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3

MEMBERS	SIZE
END VERTICAL	HSS 6X6X3/8
TOP CHORD	HSS 6X6X3/8
BOTTOM CHORD	HSS 6X4X3/8
END FLOOR BEAM	W10x22
FLOOR BEAM	W10x22
VERTICAL	HSS 5X5X1/4
END DIAGONAL	HSS 5X3X1/4
BRACE DIAGONAL	HSS 4X3X1/4
END BRACE DIAGONAL	HSS 4X3X1/4
GAPPED DIAGONAL	HSS 3X3X1/4
SIDE DAM	C6X8.2
BRIDGE DECK	VULCRAFT 2C18 (36") G90
TOE PLATE	C4X4.5
SAFETY RAIL	L1 1/2X1 1/2X1/8
END DAM	PL 1/4"x6"



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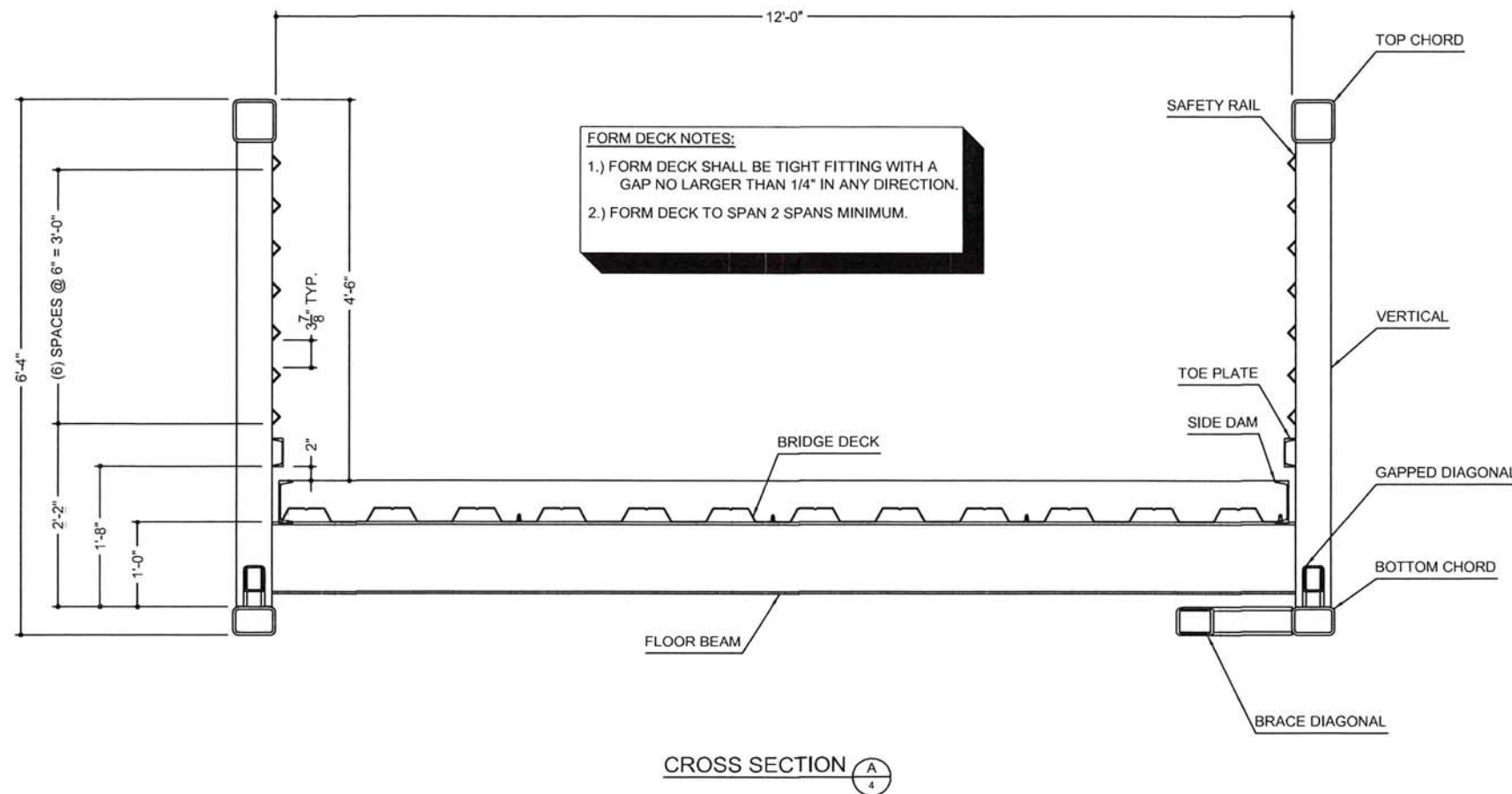
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NOTE: ALL CONCRETE & REBAR BY OTHERS

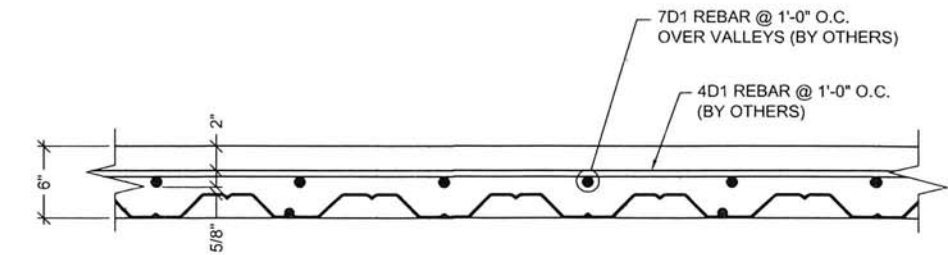
REBAR SCHEDULE				
MARK	TYPE	QUANTITY	LENGTH	REMARKS
4D1	STRAIGHT	80	11'-7"	
7D1	STRAIGHT	13	77'-11"	*

DIGIT PRECEDING LETTER DENOTES SIZE OF REBAR

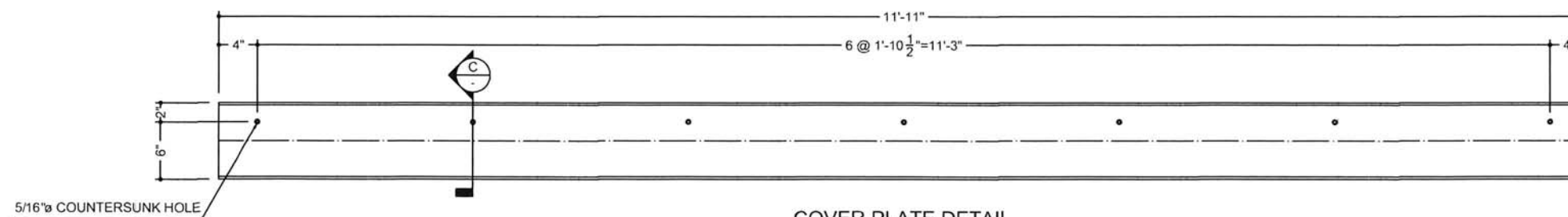
* SEE CONCRETE NOTE 6 ON 2 FOR SPLICING



FORM DECK NOTES:
 1.) FORM DECK SHALL BE TIGHT FITTING WITH A GAP NO LARGER THAN 1/4" IN ANY DIRECTION.
 2.) FORM DECK TO SPAN 2 SPANS MINIMUM.

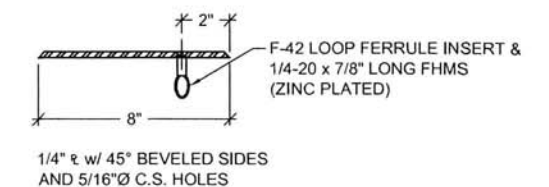


TYPICAL DECK SECTION



COVER PLATE DETAIL

PL 1/4" X 8"
2 REQUIRED



SECTION C-C

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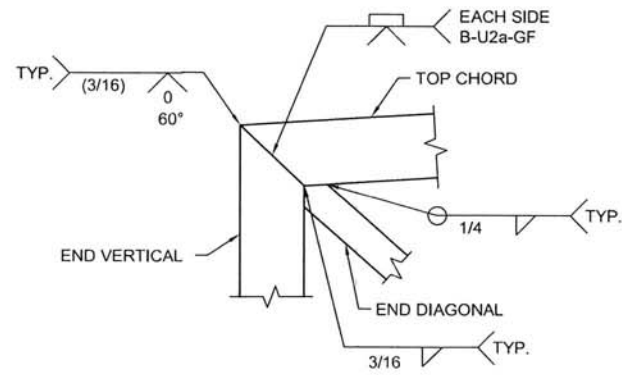
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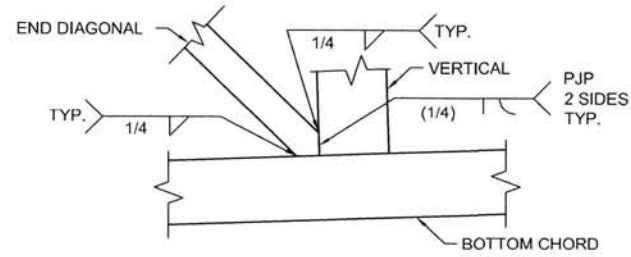


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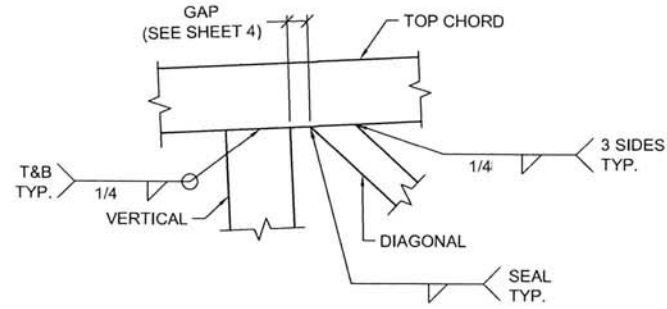
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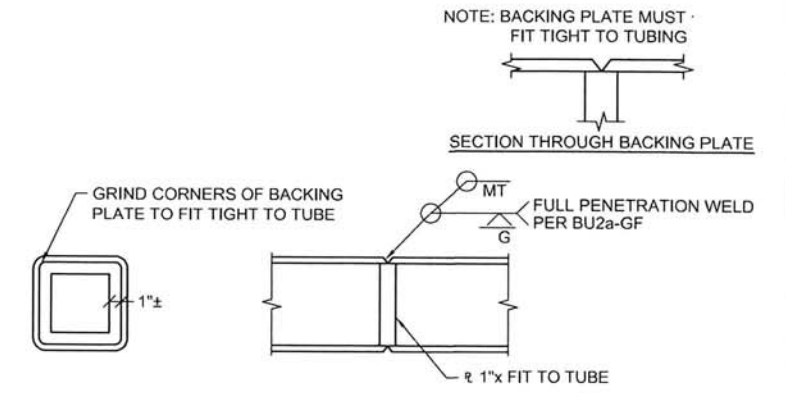
TOP CHORD AND END DIAGONAL AT END VERTICAL WELD DETAIL



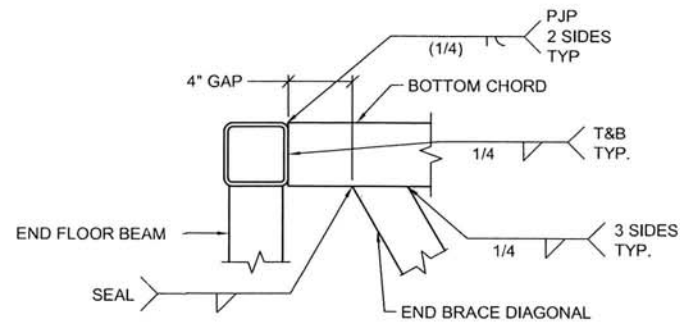
END DIAGONAL AT BOTTOM CHORD WELD DETAIL



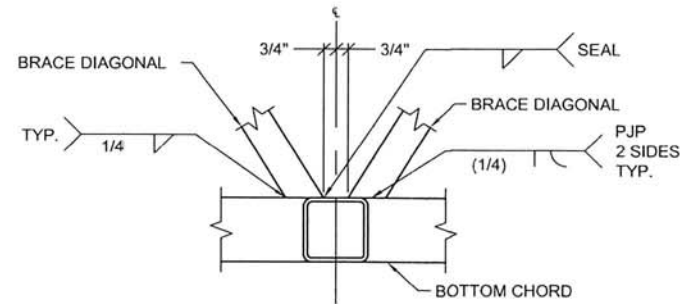
VERTICAL AND GAPPED DIAGONAL WELD DETAIL



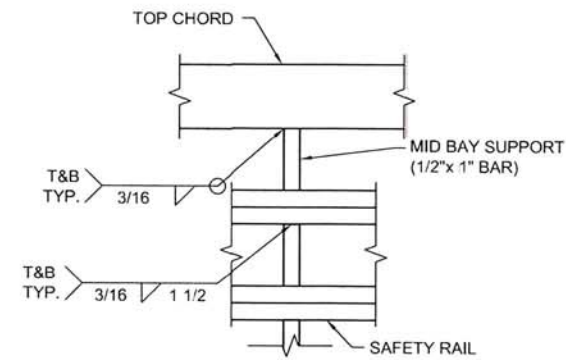
TYPICAL SHOP SPLICE DETAIL



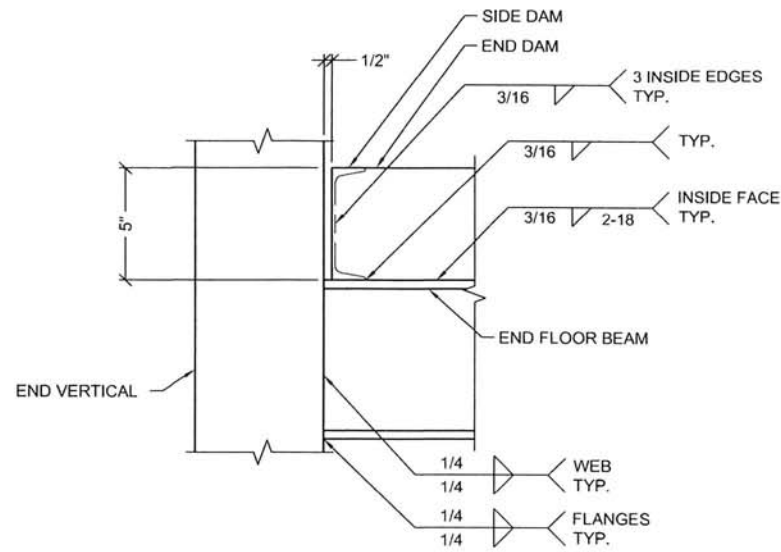
END BRACE DIAGONAL, BOTTOM CHORD AT END VERTICAL WELD DETAIL



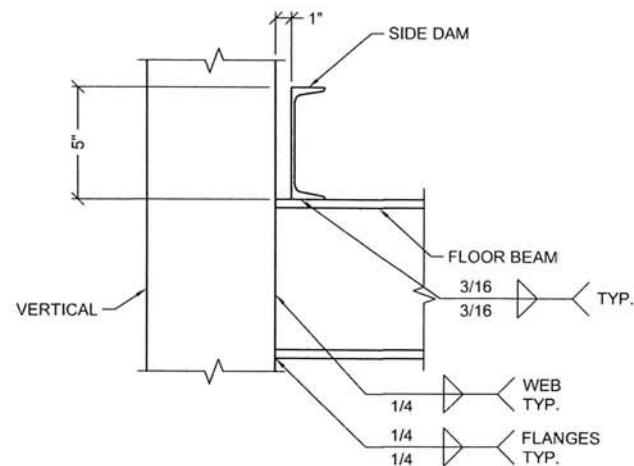
BRACE DIAGONAL AT VERTICAL WELD DETAIL



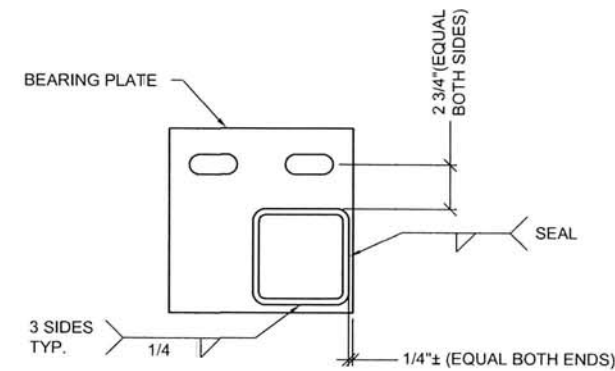
MID BAY SUPPORT WELD DETAIL



END FLOOR BEAM AND END VERTICAL WELD DETAIL



FLOOR BEAM AND VERTICAL WELD DETAIL



END VERTICAL AND BEARING PLATE WELD DETAIL

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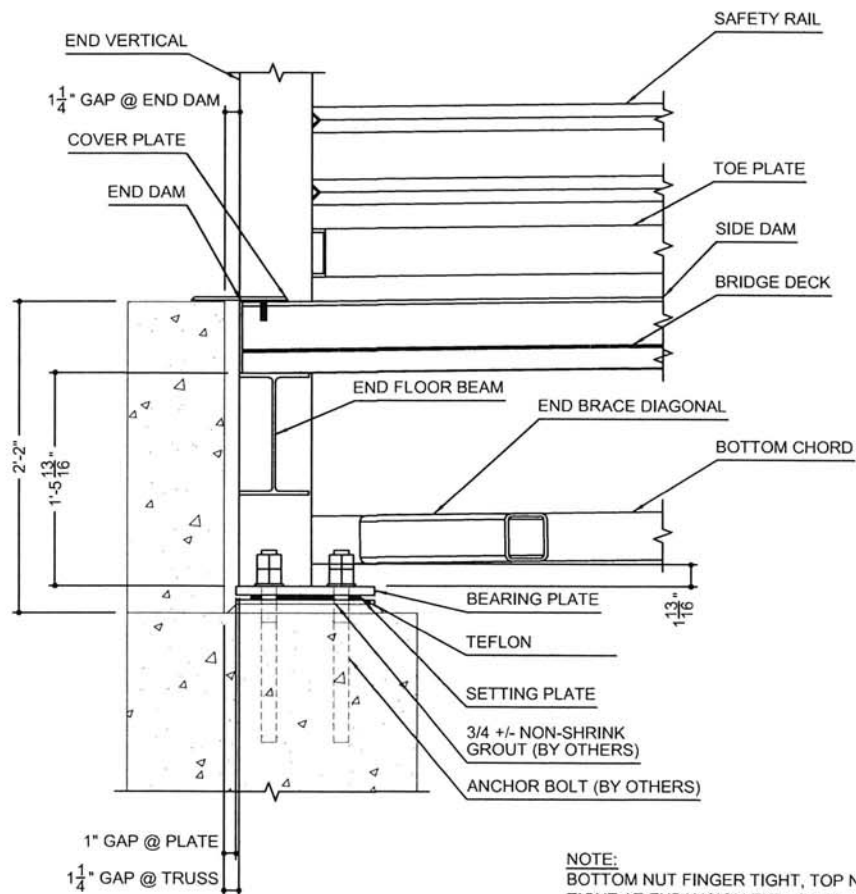
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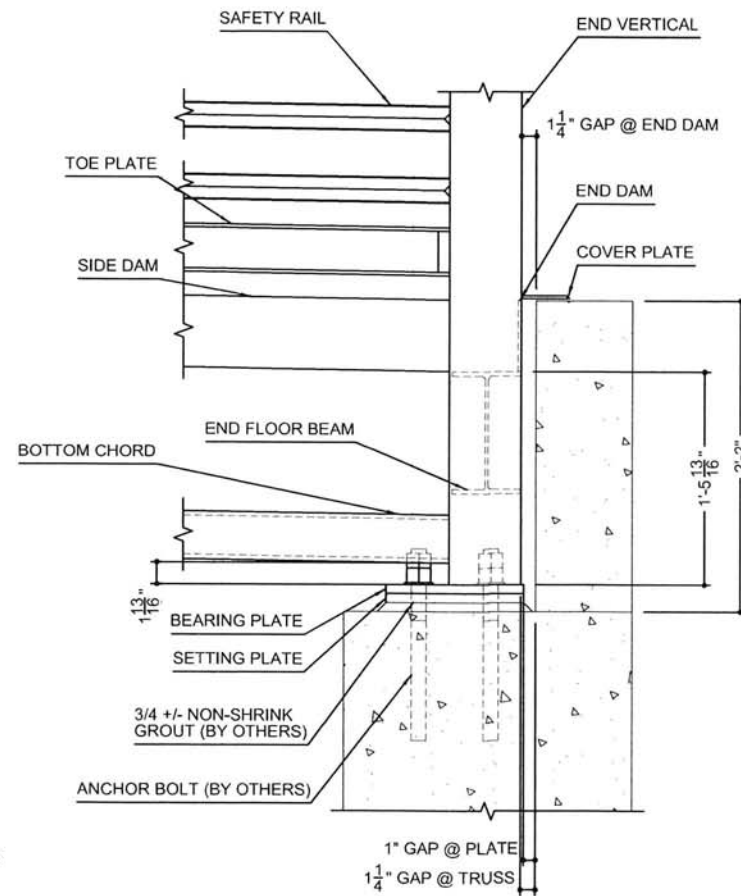
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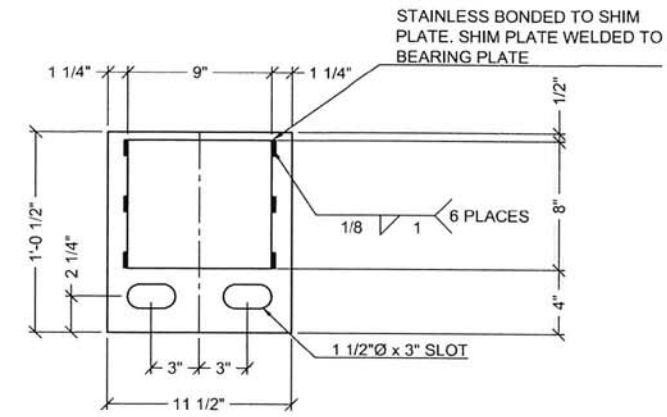


INSIDE ELEVATION
EXPANSION

NOTE:
BOTTOM NUT FINGER TIGHT, TOP NUT
TIGHT AT EXPANSION END. BOTH NUTS
TIGHT AT FIXED END.

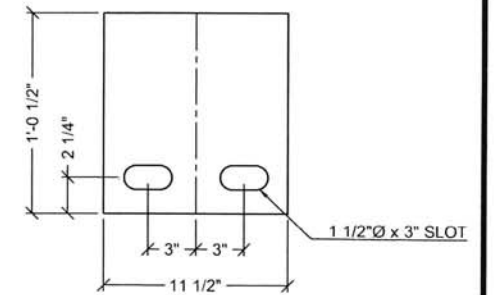


OUTSIDE ELEVATION
FIXED



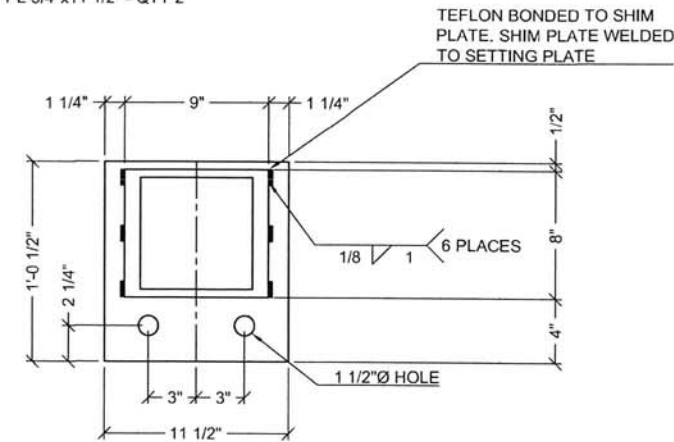
EXPANSION END BEARING PLATE

PL 3/4"x11 1/2" - QTY 2



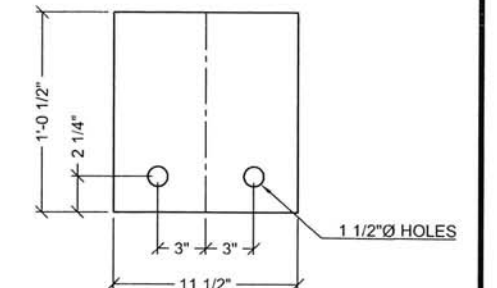
FIXED END BEARING PLATE

PL 3/4"x11 1/2" - QTY 2



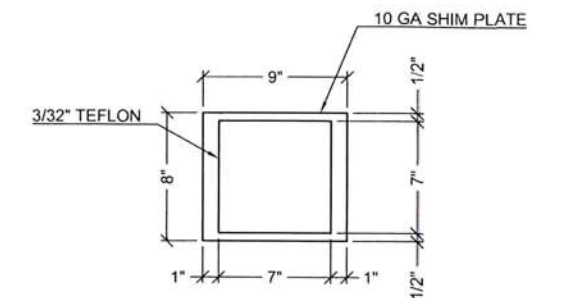
EXPANSION END SETTING PLATE

PL 3/8"x11 1/2" - QTY 2



FIXED END SETTING PLATE

PL 3/4"x11 1/2" - QTY 2



TEFLON/SHIM PLATE LAYOUT

QTY 2

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7

PRESSENTIN PARK BRIDGE #3

MARBLEMOUNT, WA

SKAGIT COUNTY PUBLIC WORKS



REVIEW AND APPROVAL

APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
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REVIEWED BY: Christi Obelto
 COMPANY: Herrera Environmental
 DATE: 7-11-19

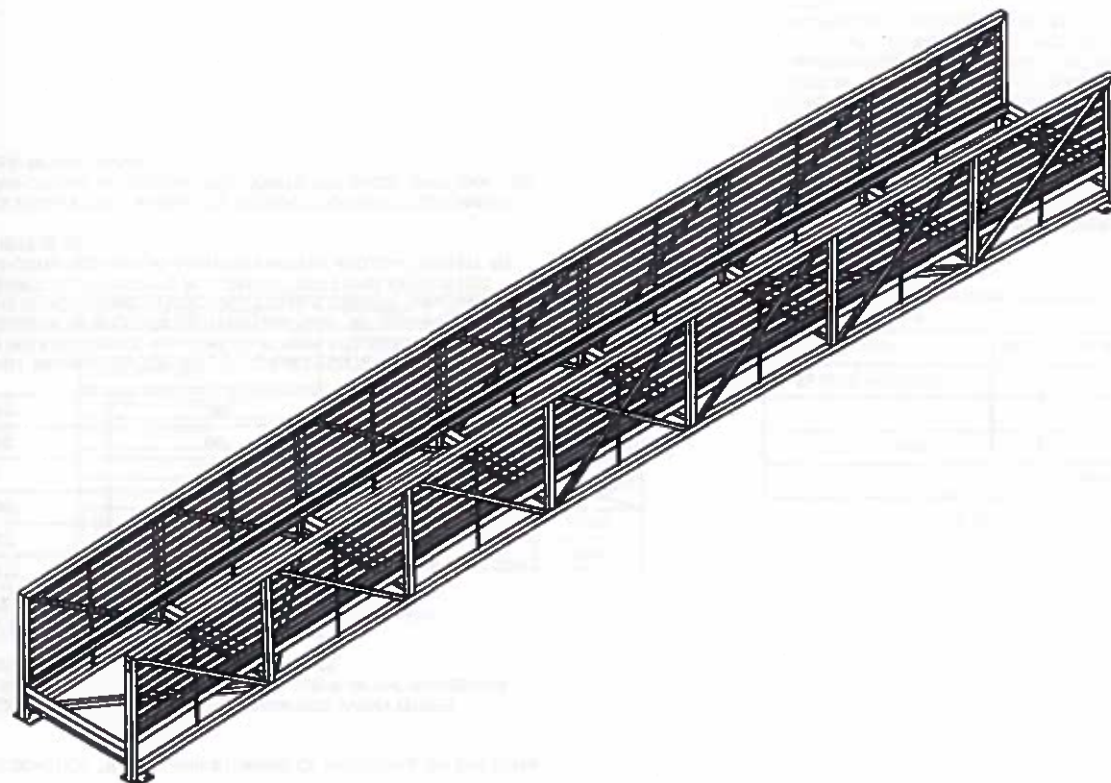
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1	TITLE PAGE	06/11/19
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3	BEARING REACTION & ANCHOR BOLT LAYOUT	06/11/19
4	ELEVATION & PLAN VIEW	06/11/19
5	CROSS SECTION	06/11/19
6	WELD DETAILS	06/11/19
7	BEARING ELEVATIONS & PLATE DETAILS	06/11/19


BY RELEASING BIG R BRIDGE TO FABRICATE, CUSTOMER ACKNOWLEDGES BIG R BRIDGE SUBMITTAL PLANS HAVE BEEN REVIEWED BY ALL RELATED PARTIES TO THE PROJECT AND THEY ARE DIRECTING BIG R BRIDGE TO FABRICATE ACCORDING TO THE APPROVED PLANS.

*See Attached submittal reply dated 7-10-19 with notes from Herrera



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58'-4" x 6'-0"
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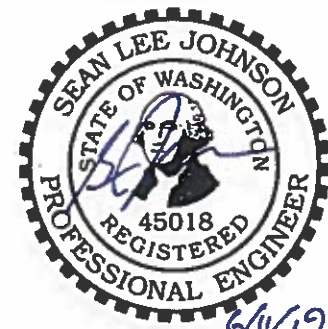
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1



6/11/19

PRESSENTIN PARK BRIDGE #3

MARBLEMOUNT, WA

SKAGIT COUNTY PUBLIC WORKS

REVIEW AND APPROVAL

APPROVED FOR FABRICATION	APPROVED AS NOTED FOR FABRICATION	REVISE & RESUBMIT
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REVIEWED BY: _____

COMPANY: _____

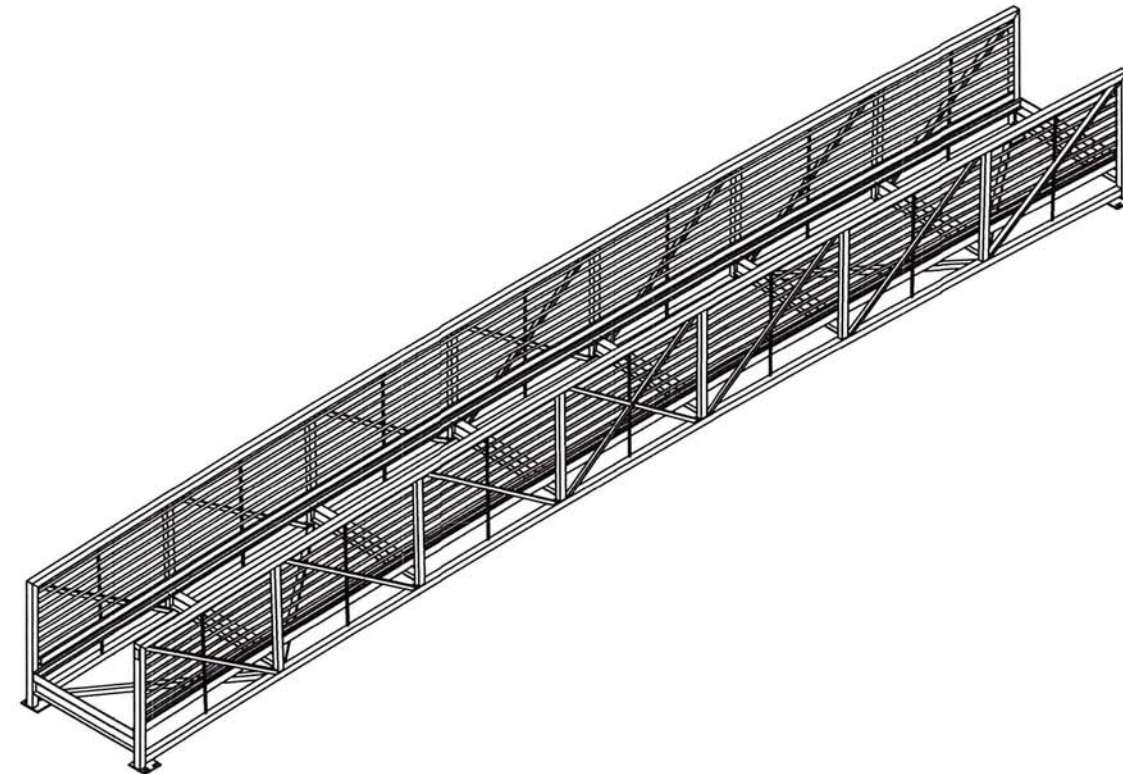
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58'-4" x 6'-0"

PRESSENTIN PARK BRIDGE #3
 MARBLEMOUNT, WA
 SKAGIT COUNTY PUBLIC WORKS

GENERAL NOTES:

1. BIG R BRIDGE HAS AISC QUALITY CERTIFIED BRIDGE FABRICATION - ADVANCED (MAJOR) WITH A FRACTURE CRITICAL AND SOPHISTICATED PAINT ENDORSEMENT, AND CWB CERTIFIED TO CSA STANDARD W47.1 DIVISION 2.
2. DESIGN IS IN ACCORDANCE WITH THE "LRFD GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES" BY AASHTO, DECEMBER 2009.
3. MATERIALS (UNLESS NOTED OTHERWISE):

a. HSS SECTIONS:	ASTM A847 WEATHERING STEEL	Fy = 50 ksi MIN.
b. STEEL SHAPES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
c. STEEL PLATES:	ASTM A588 WEATHERING STEEL	Fy = 50 ksi
4. DESIGN LOADINGS:
 - a. BRIDGE DEAD LOAD
 - b. UNIFORM PEDESTRIAN LIVE LOAD OF 90 PSF.
 - c. VEHICLE LIVE LOAD OF 4,000 LB TRUCK.
 - d. WIND LOAD FROM 90 MPH WIND AT A MAX HEIGHT OF 32.8' ABOVE GRADE.
 - e. SNOW LOAD OF 50 PSF
 - f. SEISMIC LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 3.10:
 SITE CLASS: D
 PGA = 0.24
 S_w = 0.55
 S_v = 0.18
 PERIOD OF BRIDGE, T_m = 0.152 SEC
5. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AWS D1.1
6. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS.
7. FINISH:
 ALL EXPOSED SURFACES OF STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6, SSPC-SP6 COMMERCIAL BLAST CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE OF THE STRUCTURE. ALL OTHER SURFACES TO HAVE STANDARD MILL FINISH.
8. MAINTENANCE NOTE: DO NOT APPLY DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE.
9. SHOP SPLICES:
 - a. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS.
 - b. ALL HORIZONTAL RAIL COMPONENT JOINTS TO BE AT THE CENTERLINE OF VERTICALS, EACH END WELDED TO THE VERTICAL AND SEAL WELDED TOGETHER. SEAL WELD TO BE GROUND SMOOTH AND VISUAL INSPECTION ONLY REQUIRED.

CONCRETE NOTES

1. BIG R BRIDGE IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION ARE OUTSIDE OF BIG R BRIDGE'S RESPONSIBILITY.
2. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS. IF THESE ITEMS ARE NOT COVERED IN THE PROJECT CONTRACT DOCUMENTS THE REQUIREMENTS OF SECTION 552 OF FEDERAL HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-14) SHALL BE USED. FP-14 CAN BE VIEWED OR DOWNLOADED AT: <http://fh.fhwa.dot.gov/business/resources/specs/>
3. MINIMUM MATERIAL REQUIREMENTS:
 - a. CONCRETE: f_c = 4000 psi AT 28 DAY
 AIR CONTENT OF 5% +/- 1%
 UNIT WEIGHT OF 145 PCF MAX
 - b. REINFORCING: ASTM A615 OR AASHTO M31 GRADE 60
4. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF BIG R BRIDGE.
5. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.
6. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPLICES SHALL BE LOCATED AT OR NEAR THE ONE-THIRD POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:

BAR SIZE	NORMAL WEIGHT CONCRETE (145 PCF)	LIGHT WEIGHT CONCRETE (120 PCF)
#4	31"	35"
#5	39"	44"
#6	46"	53"
#7	58"	66"
#8	76"	86"
#9	96"	108"

7. STAY IN PLACE GALVANIZED FORM DECK SHALL BE USED ON THE BRIDGE. FORM DECK SHALL BE SHOP ATTACHED TO FLOOR BEAMS VIA SELF-DRILLING FASTENERS, WELDING OR POWER ACTUATED FASTENERS. LONGITUDINAL SHEET LAPS SHALL BE ATTACHED WITH SELF-DRILLING FASTENERS AT 36" MAXIMUM SPACING. THE ATTACHMENT OF THE FORM DECK TO THE FLOOR BEAMS IS ONLY NECESSARY TO KEEP THE FORM DECK IN PLACE DURING TRANSPORTATION AND DURING THE CONCRETE PLACEMENT. THE FORM DECK IS NOT REQUIRED FOR DIAPHRAGM ACTION OR COMPOSITE ACTION AND PROVIDES NO STRUCTURAL BENEFIT TO THE TRUSS OR THE DECK AFTER THE CONCRETE IS SET.
8. THE USE OF GROOVED CONTRACTION JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTION JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.

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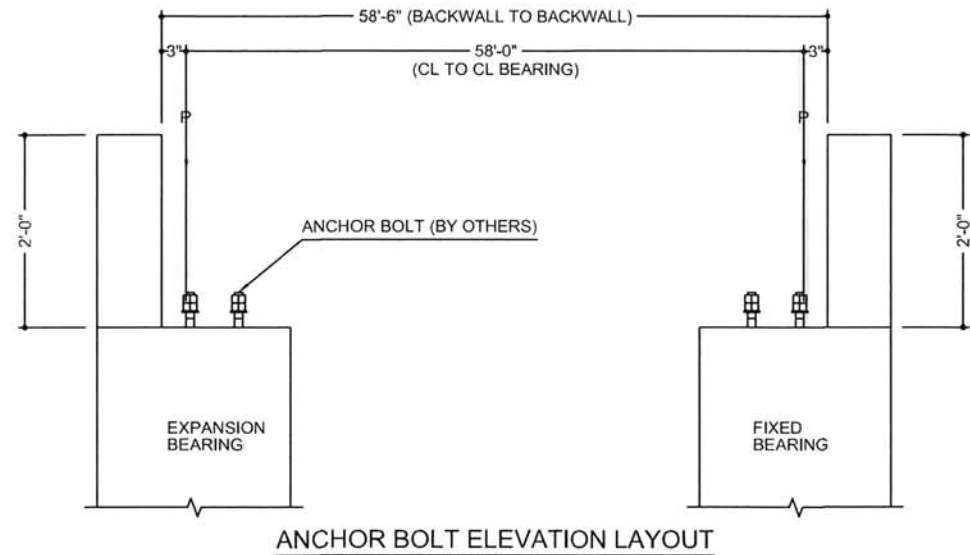


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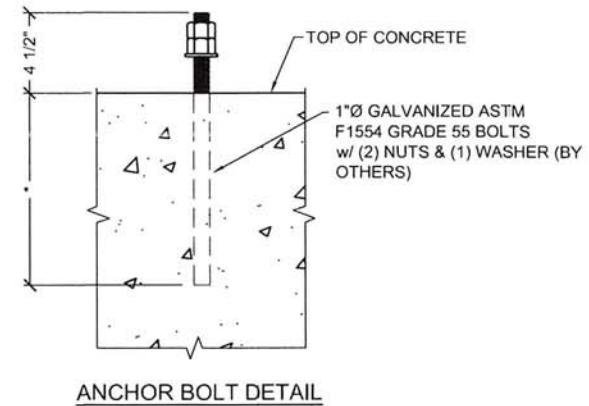
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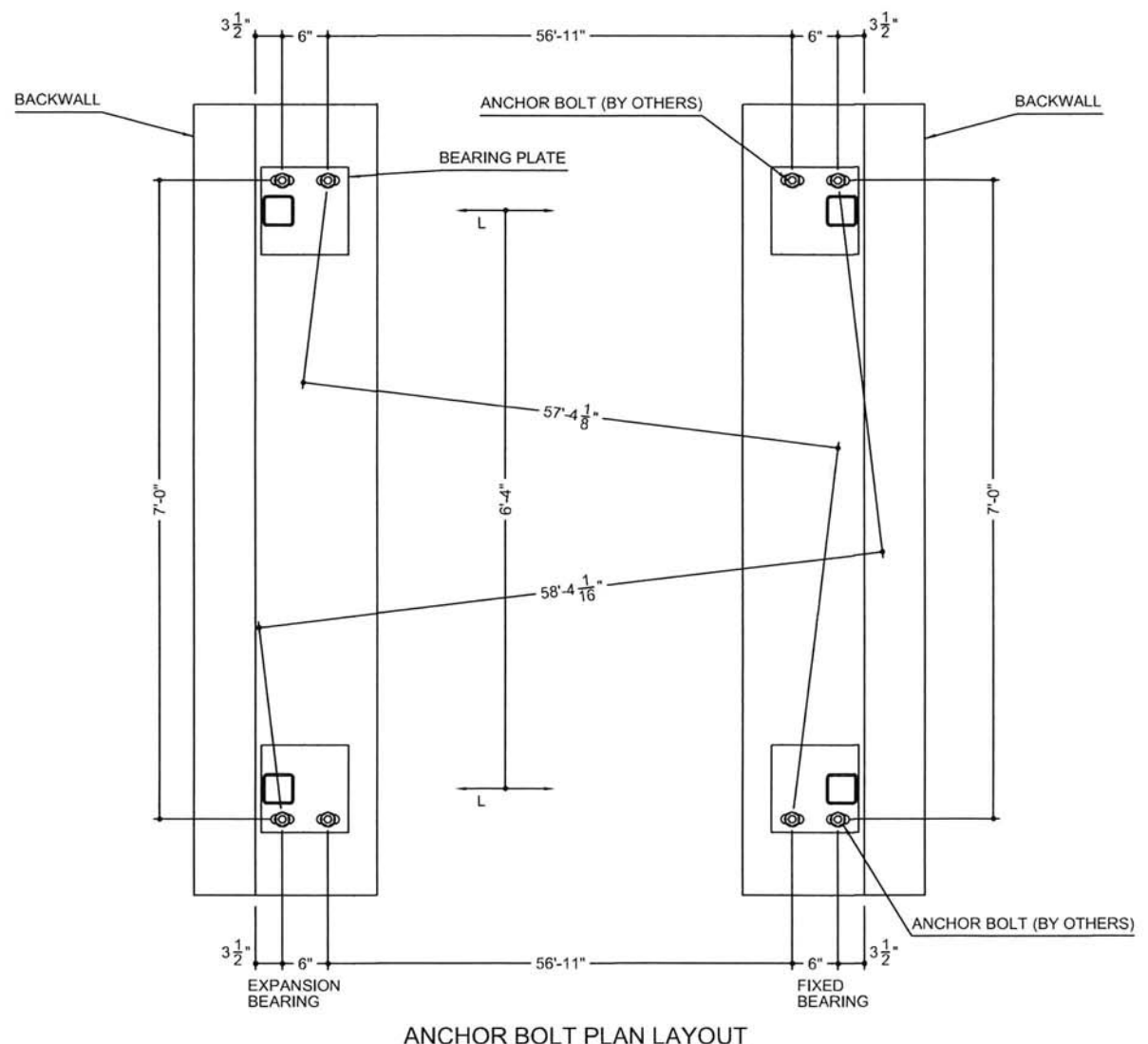


ANCHOR BOLT ELEVATION LAYOUT

NOTE:
 BACK WALL HEIGHT, DISTANCE BETWEEN BACK WALLS AND ANCHOR BOLT LAYOUT MAY DIFFER FROM CONTRACT PLANS. CONTRACTOR IS RESPONSIBLE FOR BUILDING THE FOUNDATION SUPPORT SYSTEM TO THE DIMENSIONS SHOWN IN THESE BIG R PLANS, EVEN IF THEY DIFFER FROM THE CONTRACT PLANS. ACTUAL FIELD DIMENSIONS OF BRIDGE MAY VARY FROM THE DIMENSIONS SHOWN WITHIN THESE BIG R PLANS DUE TO THERMAL EXPANSION, FABRICATION TOLERANCES AND CAMBER ROTATIONS. THESE VARIANCES HAVE BEEN ACCOUNTED FOR WITHIN THE FOUNDATION DIMENSIONS SHOWN IN THESE BIG R PLANS.



ANCHOR BOLT DETAIL



ANCHOR BOLT PLAN LAYOUT

*** NOTE:**
 ANCHOR BOLTS ARE DESIGNED BY BIG R BRIDGE FOR STEEL STRENGTH IN SHEAR AND TENSION OF THE ANCHOR BOLT ONLY. ALL DESIGN CONSIDERATIONS REGARDING CONCRETE BREAKOUT STRENGTH IN SHEAR AND TENSION, PULLOUT STRENGTH, CONCRETE SIDE-FACE BLOWOUT STRENGTH, CONCRETE PRYOUT STRENGTH, EMBEDMENT DEPTH, TYPE OF ANCHORAGE OR ANY OTHER CONCRETE FAILURE MODES ARE NOT CONSIDERED AND ARE NOT THE RESPONSIBILITY OF BIG R BRIDGE. IF LARGER DIAMETER BOLTS ARE REQUIRED TO MEET ANY OF THESE REQUIREMENTS, THAT INFORMATION MUST BE PROVIDED TO BIG R BRIDGE PRIOR TO BEGINNING ANY FABRICATION ON THE BRIDGE.

BRIDGE REACTIONS	P (LBS)	H (LBS)	L (LBS)
DEAD	7,300		
LIVE (90 PSF)	7,900		
VEHICLE (4000 LBS)	2,600		
WIND (90 MPH)	±3,800	7,700	
OVERTURNING (20 PSF)	-2,600		
SNOW (50 PSF)	4400		
SEISMIC		13,900	13,900
THERMAL			2,600

"P": FOUR PER BRIDGE
 "H": TWO PER BRIDGE (ONE PER ABUTMENT)
 "L": FOUR PER BRIDGE

LIFTING WEIGHTS			
ITEM	QTY	UNIT WEIGHT (LBS)	TOTAL WEIGHT (LBS)
BRIDGE SECTION #1	1	9,490	9,490
LOOSE ITEMS		-	55
* TOTAL BRIDGE WEIGHT:			9,545

* FULL STRUCTURE NOT INCLUDING WEIGHT OF CONCRETE

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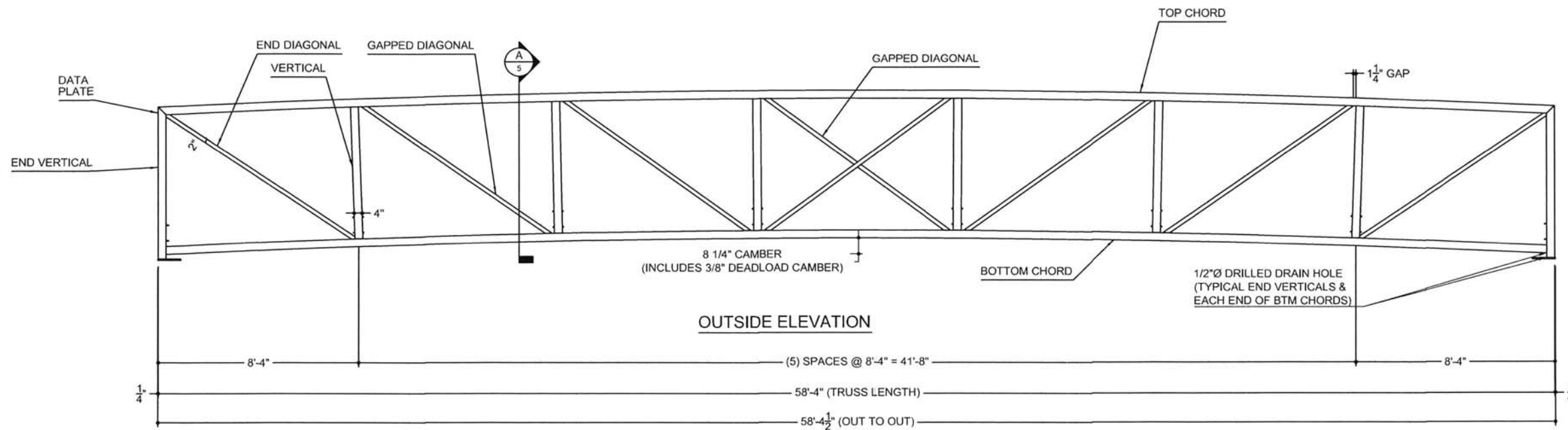
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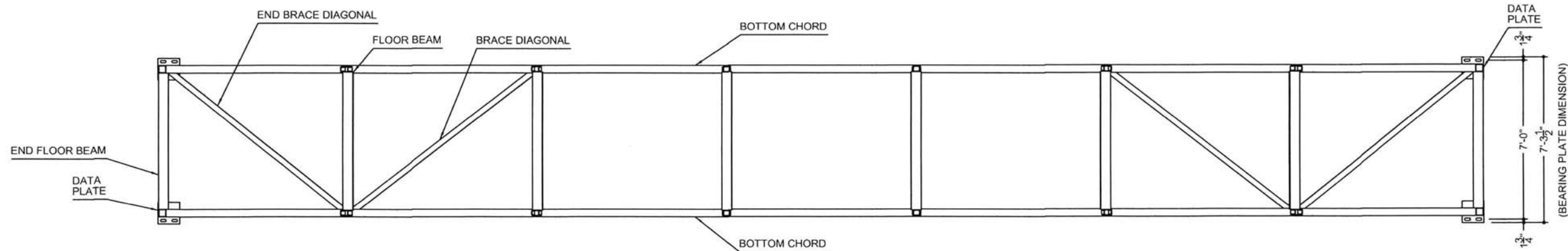
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OUTSIDE ELEVATION



BOTTOM CHORD DETAIL

MEMBERS	SIZE
END FLOOR BEAM	W8x18
FLOOR BEAM	W8x18
BOTTOM CHORD	HSS 4X4X1/4
END VERTICAL	HSS 4X4X1/4
TOP CHORD	HSS 4X4X1/4
VERTICAL	HSS 4X3X1/4
BRACE DIAGONAL	HSS 3X3X1/4
END BRACE DIAGONAL	HSS 3X3X1/4
BRIDGE DECK	VULCRAFT 1.5C18 (36") G90
END DIAGONAL	HSS 3X2X1/4
SIDE DAM	C5X6.7
GAPPED DIAGONAL	HSS 2X2X1/4
TOE PLATE	C4X4.5
SAFETY RAIL	L1 1/2X1 1/2X1/8
END DAM	PL 1/4"x5"

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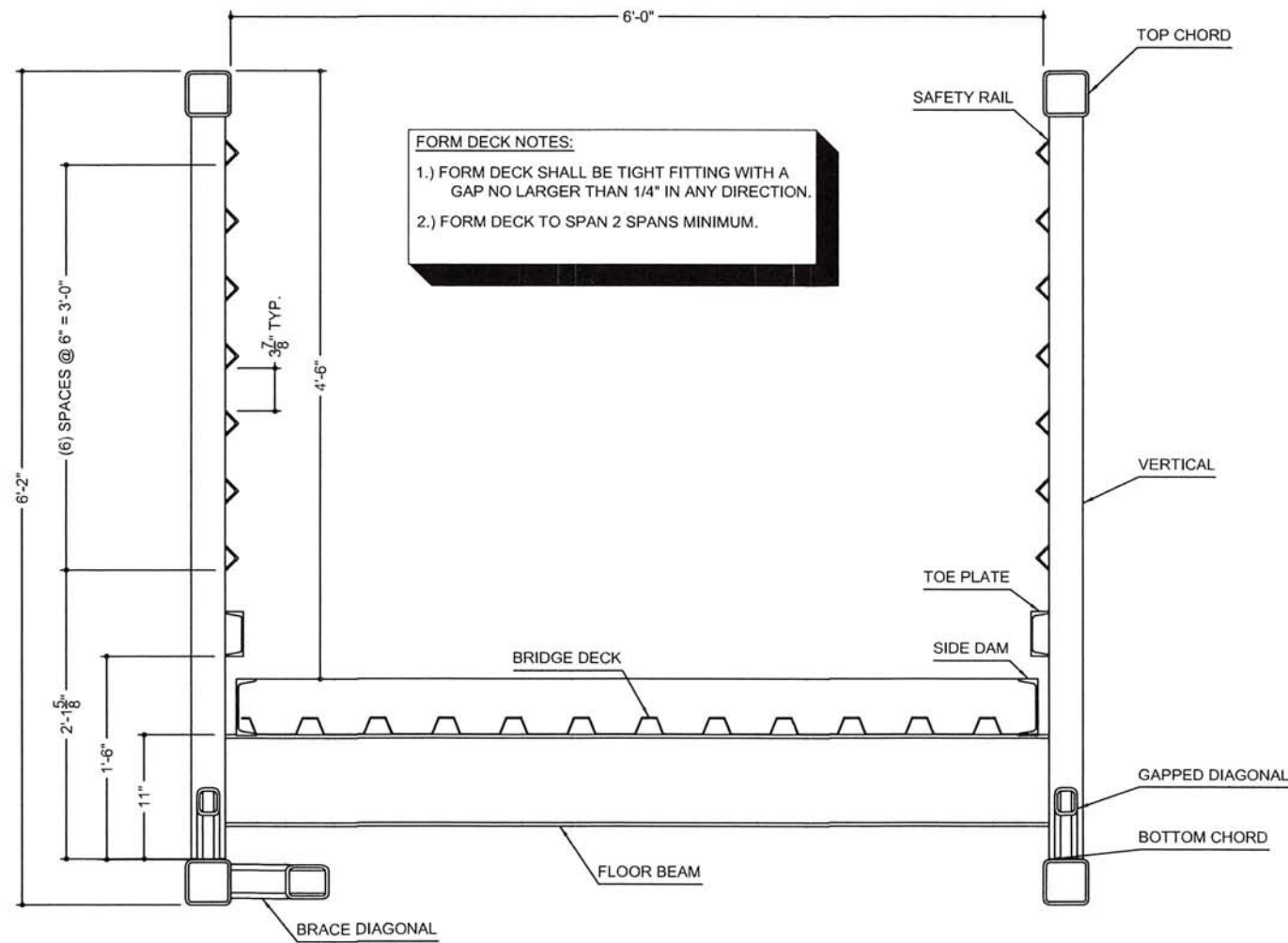
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NOTE: ALL CONCRETE & REBAR BY OTHERS

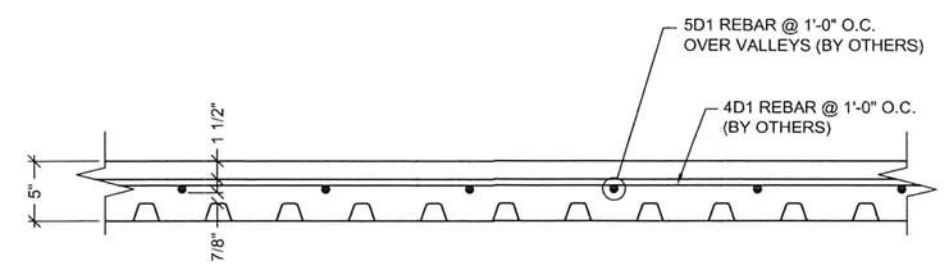
REBAR SCHEDULE				
MARK	TYPE	QUANTITY	LENGTH	REMARKS
4D1	STRAIGHT	60	5'-7"	
5D1	STRAIGHT	7	58'-0"	*

DIGIT PRECEDING LETTER DENOTES SIZE OF REBAR

* SEE CONCRETE NOTE 6 ON 2 FOR SPLICING



FORM DECK NOTES:
 1.) FORM DECK SHALL BE TIGHT FITTING WITH A GAP NO LARGER THAN 1/4" IN ANY DIRECTION.
 2.) FORM DECK TO SPAN 2 SPANS MINIMUM.



TYPICAL DECK SECTION

CROSS SECTION A

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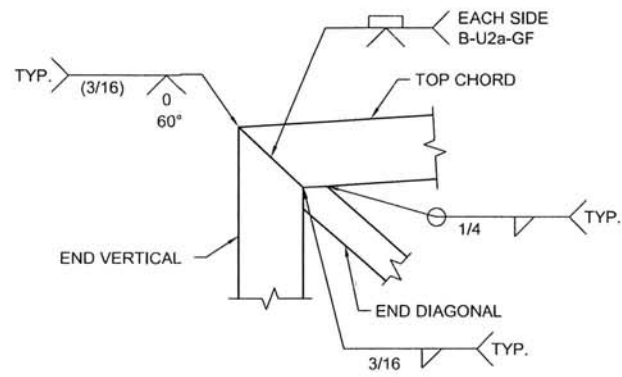
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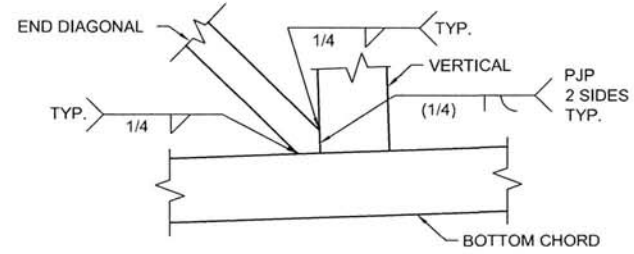
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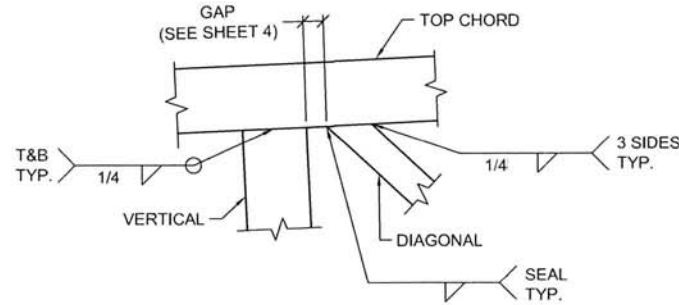
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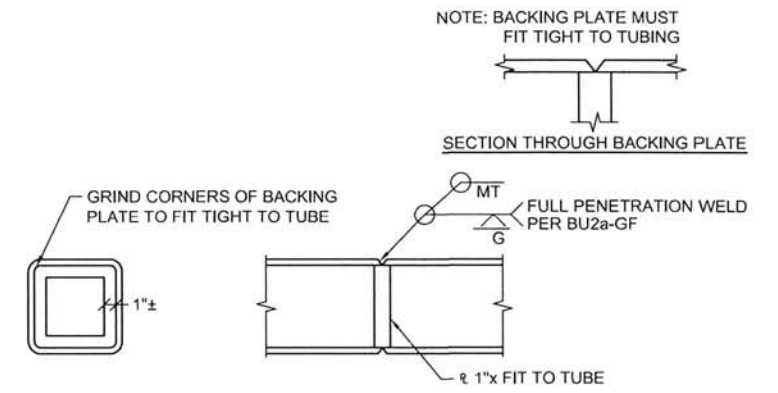
TOP CHORD AND END DIAGONAL AT END VERTICAL WELD DETAIL



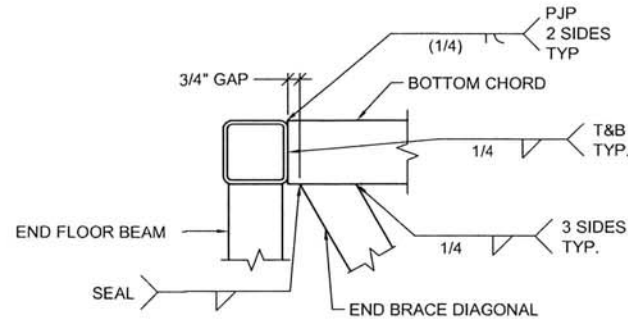
END DIAGONAL AT BOTTOM CHORD WELD DETAIL



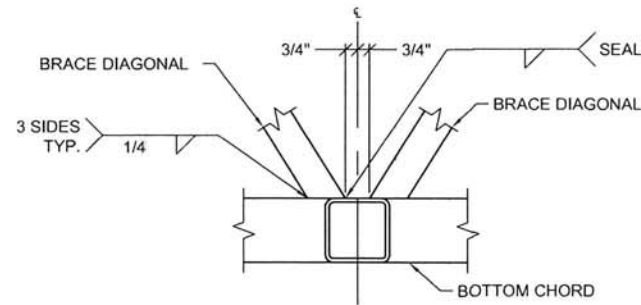
VERTICAL AND GAPPED DIAGONAL WELD DETAIL



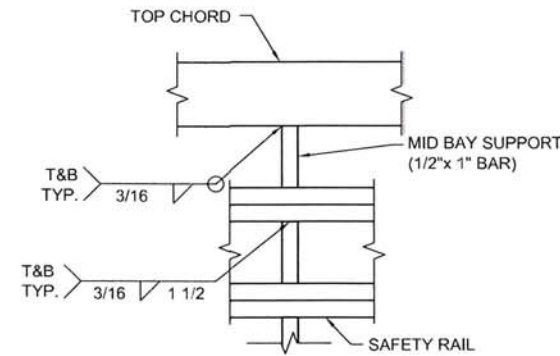
TYPICAL SHOP SPLICE DETAIL



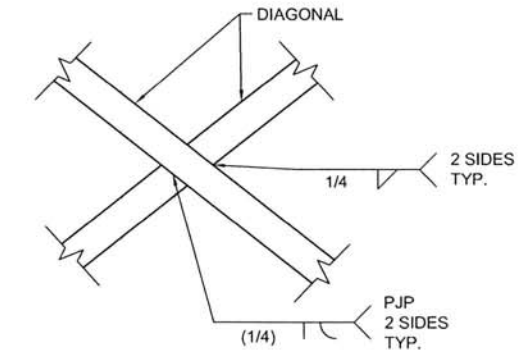
END BRACE DIAGONAL, BOTTOM CHORD AT END VERTICAL WELD DETAIL



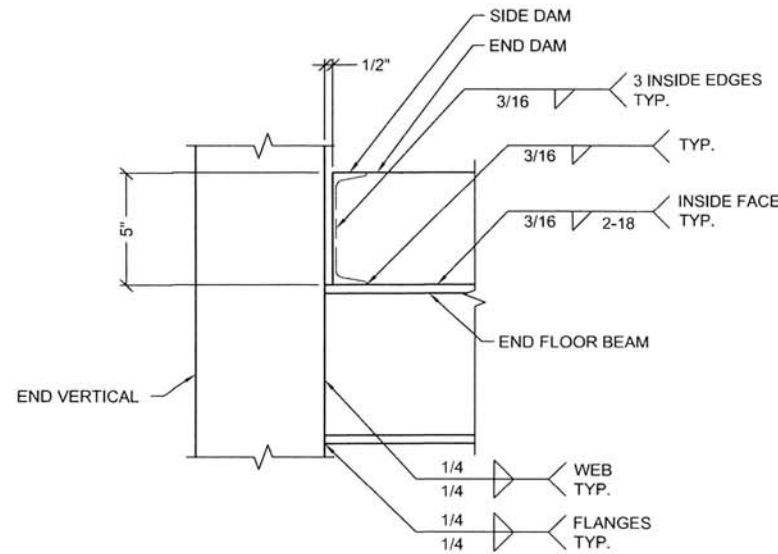
BRACE DIAGONAL AT VERTICAL WELD DETAIL



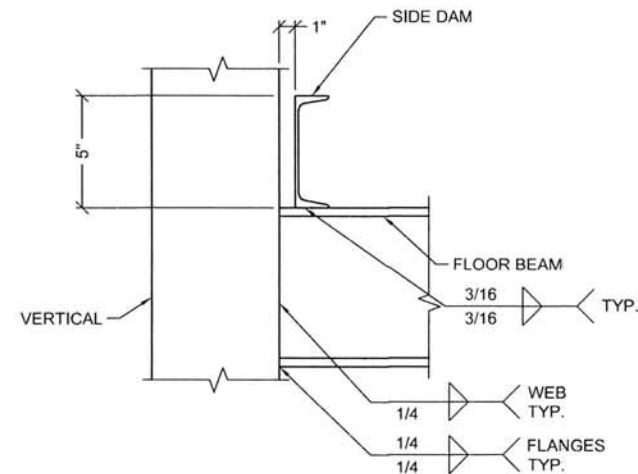
MID BAY SUPPORT WELD DETAIL



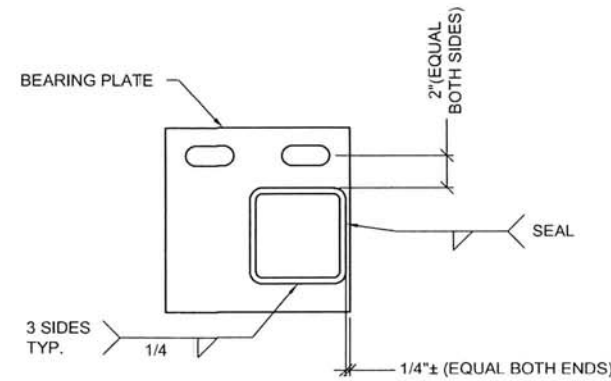
CROSS DIAGONAL WELD DETAIL



END FLOOR BEAM AND END VERTICAL WELD DETAIL



FLOOR BEAM AND VERTICAL WELD DETAIL



END VERTICAL AND BEARING PLATE WELD DETAIL

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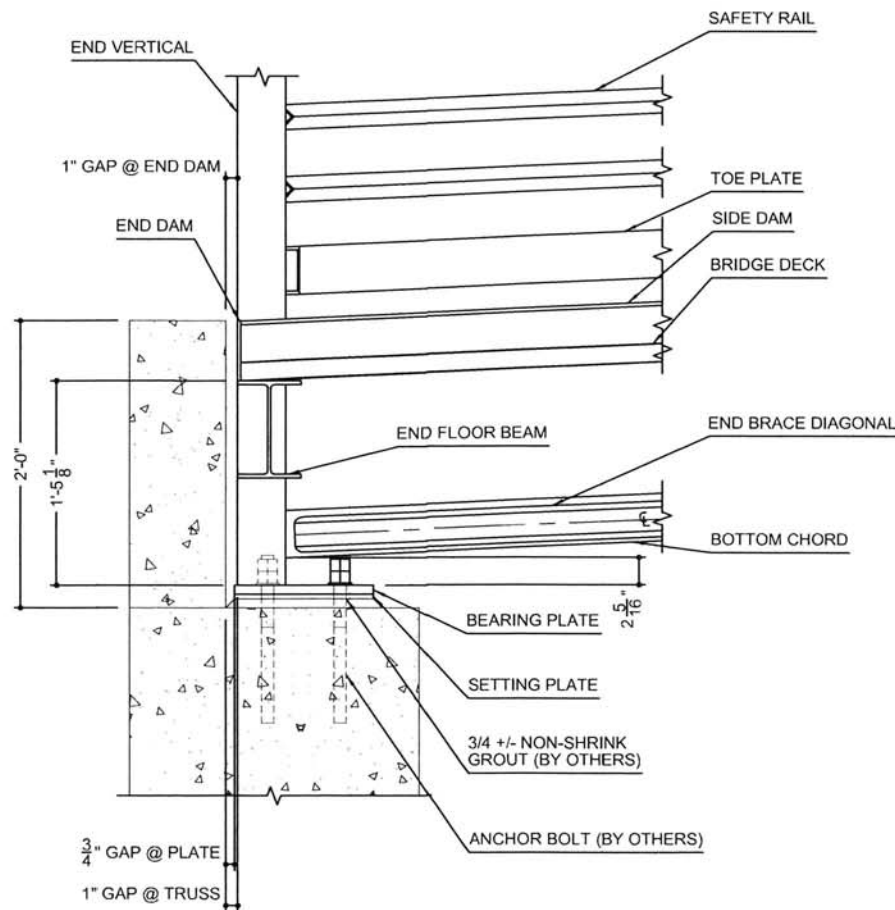
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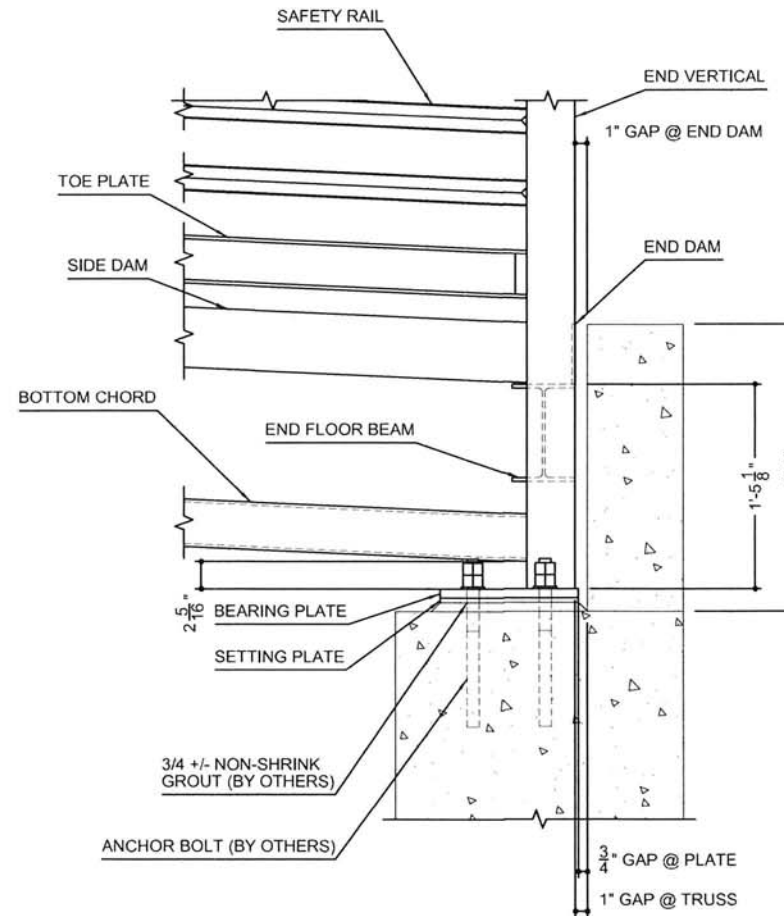


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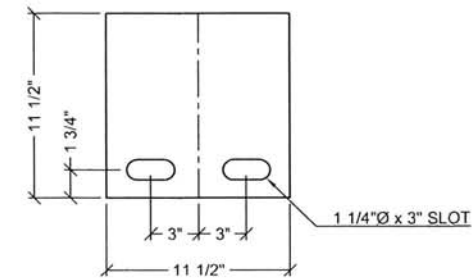
INSIDE ELEVATION
EXPANSION



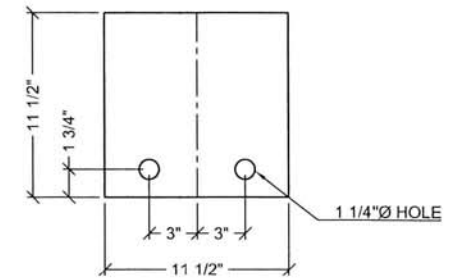
OUTSIDE ELEVATION
FIXED

NOTE:
BOTTOM NUT FINGER TIGHT, TOP NUT TIGHT AT EXPANSION END. BOTH NUTS TIGHT AT FIXED END.

CONTRACTOR TO APPLY THIN COAT OF GREASE BETWEEN PLATES DURING INSTALLATION.



BEARING PLATE
PL 3/4"x11 1/2" - QTY 4



SETTING PLATE
PL 3/8"x11 1/2" - QTY 4

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7

APPENDIX L

Picnic Shelter Special Provisions

8-26 Picnic Shelters

Furnish all labor, materials, tools, equipment, and services necessary to complete the custom picnic shelters as specified on the Contract Plans.

8-26.1 Description

This Work consists of constructing the two picnic shelters (Meadow Picnic Shelter and Orchard Picnic Shelter) including site preparation, foundation, footings, concrete slab, framing, roofing, custom fasteners, and all specified materials in accordance with the Contract Plans, these Special Provisions, and the Standard Specifications.

8-26.2 Materials

1. Refer to Contract Plan Drawings for size and quantity of materials.
 - a. Concrete slab
 - b. Concrete footings
 - c. Reinforcing steel
 - d. Dimensional lumber
 - e. Pressure Treated lumber
 - i. All Pressure Treated (PT) to be BROWN in color. Green wood will be rejected
 - f. Custom galvanized and painted fasteners
 - g. Sheathing
 - h. Roofing and edge trim
 - i. Oil based finish
 - j. All other required fasteners to be hot-dipped Galvanized Steel unless noted otherwise in the Contract Plans.

8-26.3 Construction Requirements

- a. Subgrade to be prepped according to contact plans
- b. Shelter(s) to be located per contract plans. Stake locations prior to beginning work and field verify locations with project engineer
- c. Concrete slab to have control joints per plans or every 10 feet as needed
- d. All cut end of PT lumber to be treated with wood preservative that is brown in color

8-26.4 Measurement

Measurement for Meadow Picnic Shelter and Orchard Picnic Shelter will be per each

8-26.5 Payment

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

Meadow Picnic Shelter per each.
Orchard Picnic Shelter per each.

The unit Contract price for each shelter shall be full pay for furnishing all labor and materials to complete construction of each shelter as shown on the Contract Plans and described in these Special Provisions.