



Contract Provisions and Plans

For Construction of:

**ORCAS LANDING MARINE FACILITY
IMPROVEMENTS**

County Road Project Number: 021602

**San Juan County
Public Works Department**

May 2018

SAN JUAN COUNTY CALL FOR BIDS

ORCAS LANDING MARINE FACILITY IMPROVEMENTS

County Road Project Number: 021602

First Advertised Wednesday May 16, 2018

Project Summary

Description of Work: This contract provides for the construction of pedestrian facilities near the State ferry terminal on Orcas Island. Work includes constructing gravity block retaining wall, concrete ramp and handrails, concrete driveway, utility relocation, removal of structures and obstructions, clearing, grading, rock excavation, and other work, all in accordance with the Contract Plans, Contract Provisions, and the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction 2018.

Estimated Cost: **\$250,000 to \$300,000**

Working Days: **40 days**

Informational Items

State Taxes: This contract is subject to WAC 458-20-171 Use Tax, Washington State Sales Tax Rule 171 and the bidder shall include for compensation the amount of any taxes paid in the various unit bid prices or other contract amounts (standard specification 1-07.2).

Wages: This Contract is funded with State and local funds, Washington State wage laws and rules apply (standard specification 1-07.9). Current Prevailing Wage rates and further information is available at Washington State Department of Labor and Industries.

Disadvantaged Business Enterprise (DBE): DBE and training goals are not required for this contract (standard specification 1-02.6).

Permits: All permits have been obtained for this project and any relevant provisions for the bidder have been included in the contract provisions and plans.

Pre-Bid Conference: The County is not holding a pre-bid conference for this project. The project site is open to bidders for inspection.

Insurance Requirements: Contractor will carry and maintain insurance requirements of standard specification 1-07.18 throughout the period of the contract.

Bid Information

Contract Provisions and Plans: Individual copies may be purchased for \$50 by sending or delivering a check to the San Juan County Public Works Department located at:

Physical Address: SJC Public Works, 915 Spring Street, Friday Harbor, WA 98250.

Mailing Address: SJC Public Works, PO Box 729, Friday Harbor, WA 98250.

Payment must be received prior to delivery. Purchase of Contract Provisions and Plans are not required to submit a bid. The Contract Provisions and Plans are available for viewing in person at the San Juan County Public Works Department and online at: <http://www.sanjuanco.com/278/Current-Projects>.

Amendments: Any Amendments to the Contract Provisions and Plans will be posted online. Only Bidders who have purchased a copy of the Contract Provisions and Plans will be notified by the Public Works Department of Amendments. Notification will be made using the contact information provided during purchasing.

Bidder Questions: In accordance with Standard Specification 1-02.4(1): Oral explanations, interpretations, or instructions given by anyone before the Award of a Contract will not be binding on the Contracting Agency. Any information given a prospective Bidder concerning any of the Bid Documents will be furnished to all prospective Bidders as an Addendum if that information is deemed by the Contracting Agency to be necessary in submitting Bids or if the Contracting Agency concludes that the lack of the information would be prejudicial to other prospective Bidders.

Bid Opening Time and Date: Sealed bids shall be marked (Bid Proposal: Orcas Landing Marine Facility Improvements) and delivered in accordance with Section 1-02.9 of the Special Provisions. Sealed bids are to be received at the Office of the County Clerk prior to the time and date specified.

Physical Address:

Clerk of the Council
55 Second Street 1st Floor
Friday Harbor, WA 98250

Mailing Address:

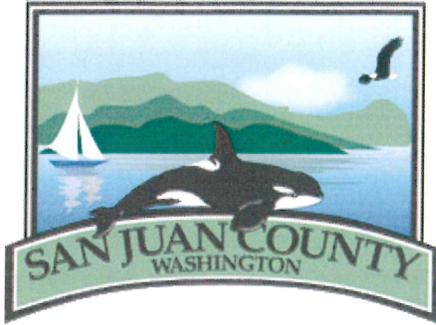
Clerk of the Council
350 Court St. #1
Friday Harbor, WA 98250

The bid opening date for this Contract is: **3:00 P.M. Wednesday June 6th, 2018**

The public bid opening will be held in conference room #119 at the above physical address.

Bidders are cautioned that delivery service to San Juan Island is subject to delays due to inclement weather and ferry service disruptions. Bidders who send their bids to San Juan County via USPS, Fed Ex, UPS or some other carrier shall place their bids in a sealed envelope, to ensure that a sealed bid is received by the County.

Additional Information: Contact the Public Works Department at (360) 370-0500.



Project Engineer Certification

For Construction of:

**ORCAS LANDING MARINE FACILITY
IMPROVEMENTS**

County Road Project Number: 021602

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



2018-05-11

Colin Huntmer, County Engineer

WSDOT

Standard Specifications Amendments

April 2, 2018

1 **INTRO.AP1**
2 **INTRODUCTION**

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

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

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

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

15
16 1-02.AP1

17 **Section 1-02, Bid Procedures and Conditions**
18 **April 2, 2018**

19 **1-02.4(1) General**

20 This section is supplemented with the following:

21

22 Prospective Bidders are advised that the Contracting Agency may include a partially
23 completed Washington State Department of Ecology (Ecology) Transfer of Coverage
24 (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit
25 (CSWGP) as part of the Bid Documents. When the Contracting Agency requires the
26 transfer of coverage of the CSWGP to the Contractor, an informational copy of the
27 Transfer of Coverage and the associated CSWGP will be included in the appendices.
28 As a condition of Section 1-03.3, the Contractor is required to complete sections I, III,
29 and VIII of the Transfer of Coverage and return the form to the Contracting Agency.

30

31 The Contracting Agency is responsible for compliance with the CSWGP until the end of
32 day that the Contract is executed. Beginning on the day after the Contract is executed,
33 the Contractor shall assume complete legal responsibility for compliance with the
34 CSWGP and full implementation of all conditions of the CSWGP as they apply to the
35 Contract Work.

36

37 **1-02.5 Proposal Forms**

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

39

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

42

43 **1-02.6 Preparation of Proposal**

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

45

46 1. A unit price for each item (omitting digits more than two places to the right of the
47 decimal point),

48

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

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

Bidders shall submit a UDBE Broker Agreement documenting the fees or commissions charged by the Broker for any Broker listed on the UDBE Utilization Certification in accordance with the Special Provisions. Bidders shall submit a completed UDBE Trucking Credit Form for each UDBE Trucking firm listed on the UDBE Utilization Certification in accordance with the Special Provisions. WSDOT Form 272-058 is available for this purpose.

The following new paragraph is inserted before the last paragraph:

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

1-02.13 Irregular Proposals

Item 1(h) is revised to read:

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

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

- i. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise Trucking Credit Form, if applicable, as required in Section 1-02.6, or if the Form that is submitted fails to meet the requirements of the Special Provisions;
- j. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise Broker Agreement, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that the fee/commission is reasonable as determined by the Contracting Agency; or
- k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.

1-03.AP1

Section 1-03, Award and Execution of Contract January 2, 2018

1-03.3 Execution of Contract

The first paragraph is revised to read:

Within 20 calendar days after the Award date, the successful Bidder shall return the signed Contracting Agency-prepared Contract, an insurance certification as required by Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the Construction Stormwater General Permit with sections I, III,

1 and VIII completed when provided, and shall be registered as a contractor in the state of
2 Washington.

3
4 **1-03.5 Failure to Execute Contract**

5 The first sentence is revised to read:

6
7 Failure to return the insurance certification and bond with the signed Contract as
8 required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's
9 Business Enterprise information if required in the Contract, or failure or refusal to sign
10 the Contract, or failure to register as a contractor in the state of Washington, or failure to
11 return the completed Transfer of Coverage for the Construction Stormwater General
12 Permit to the Contracting Agency when provided shall result in forfeiture of the proposal
13 bond or deposit of this Bidder.

14
15 1-05.AP1

16 **Section 1-05, Control of Work**

17 **April 2, 2018**

18 **1-05.9 Equipment**

19 The following new paragraph is inserted before the first paragraph:

20
21 Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose
22 dirt and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and
23 undercarriage. The Engineer will reject equipment from the site until it returns clean.

24
25 This section is supplemented with the following:

26
27 Upon completion of the Work, the Contractor shall completely remove all loose dirt and
28 vegetative debris from equipment before removing it from the job site.

29
30 1-06.AP1

31 **Section 1-06, Control of Material**

32 **January 2, 2018**

33 **1-06.1(3) Aggregate Source Approval (ASA) Database**

34 This section is supplemented with the following:

35
36 Regardless of status of the source, whether listed or not listed in the ASA database the
37 source owner may be asked to provide testing results for toxicity in accordance with
38 Section 9-03.21(1).

39
40 **1-06.2(2)D Quality Level Analysis**

41 This section is supplemented with the following new subsection:

42
43 **1-06.2(2)D5 Quality Level Calculation – HMA Compaction**

44 The procedures for determining the quality level and pay factor for HMA compaction are
45 as follows:

46
47 1. Determine the arithmetic mean, X_m , for compaction of the lot:

48

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46

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

Where:

- x = individual compaction test values for each subplot in the lot.
- $\sum x$ = summation of individual compaction test values
- n = total number test values

2. Compute the sample standard deviation, "S", for each constituent:

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

Where:

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

3. Compute the lower quality index (Q_L):

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

Where:

$$LSL = 91.5$$

4. Determine P_L (the percent within the lower Specification limit which corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is equal to 100 minus the table P_L . If the value of Q_L does not correspond exactly to a figure in the table, use the next higher value.
5. Determine the quality level (the total percent within Specification limits):

Quality Level = P_L
6. Using the quality level from step 5, determine the composite pay factor (CPF) from Table 2.
7. If the CPF determined from step 6 is 1.00 or greater: use that CPF for the compaction lot; however, the maximum HMA compaction CPF using an LSL = 91.5 shall be 1.05.
8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an LSL = 91.0. The value thus determined shall be the HMA compaction CPF for that lot; however, the maximum HMA compaction CPF using an LSL = 91.00 shall be 1.00.

1-06.2(2)D4 Quality Level Calculation

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

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

3
4 1-07.AP1

5 **Section 1-07, Legal Relations and Responsibilities to the Public**
6 **April 2, 2018**

7 **1-07.5 Environmental Regulations**

8 This section is supplemented with the following new subsections:

9
10 **1-07.5(5) U.S. Army Corps of Engineers**

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

13
14 If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special
15 Provisions, the Contractor shall retain a copy of the permit or the verification letter (in
16 the case of a Nationwide Permit) on the worksite for the life of the Contract. The
17 Contractor shall provide copies of the permit or verification letter to all subcontractors
18 involved with the authorized work prior to their commencement of any work in waters of
19 the U.S.

20
21 **1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service**

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

26
27 **1-07.5(1) General**

28 The first sentence is deleted and replaced with the following:

29
30 No Work shall occur within areas under the jurisdiction of resource agencies unless
31 authorized in the Contract.

32
33 The third paragraph is deleted.

34
35 **1-07.5(2) State Department of Fish and Wildlife**

36 This section is revised to read:

37
38 In doing the Work, the Contractor shall:

- 39
- 40 1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
 - 41
 - 42 2. Not place materials below or remove them from the ordinary high water line
43 except as may be specified in the Contract.
 - 44
 - 45 3. Not allow equipment to enter waters of the State except as specified in the
46 Contract.
 - 47
 - 48 4. Revegetate in accordance with the Plans, unless the Special Provisions permit
49 otherwise.
 - 50

- 1 5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of
2 water.
- 3
- 4 6. Ensure continuous stream flow downstream of the Work area.
- 5
- 6 7. Dispose of any project debris by removal, burning, or placement above high-
7 water flows.
- 8
- 9 8. Immediately notify the Engineer and stop all work causing impacts, if at any
10 time, as a result of project activities, fish are observed in distress or a fish kill
11 occurs.
- 12

13 If the Work in (1) through (3) above differs little from what the Contract requires, the
14 Contracting Agency will measure and pay for it at unit Contract prices. But if Contract
15 items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-
16 09.4. Work in (4) through (8) above shall be incidental to Contract pay items.

18 **1-07.5(3) State Department of Ecology**

19 This section is revised to read:

20
21 In doing the Work, the Contractor shall:

- 22 1. Comply with Washington State Water Quality Standards.
- 23
- 24 2. Perform Work in such a manner that all materials and substances not
25 specifically identified in the Contract documents to be placed in the water do
26 not enter waters of the State, including wetlands. These include, but are not
27 limited to, petroleum products, hydraulic fluid, fresh concrete, concrete
28 wastewater, process wastewater, slurry materials and waste from shaft drilling,
29 sediments, sediment-laden water, chemicals, paint, solvents, or other toxic or
30 deleterious materials.
- 31
- 32
- 33 3. Use equipment that is free of external petroleum-based products.
- 34
- 35 4. Remove accumulations of soil and debris from drive mechanisms (wheels,
36 tracks, tires) and undercarriage of equipment prior to using equipment below
37 the ordinary high water line.
- 38
- 39 5. Clean loose dirt and debris from all materials placed below the ordinary high
40 water line. No materials shall be placed below the ordinary high water line
41 without the Engineer's concurrence.
- 42
- 43 6. When a violation of the Construction Stormwater General Permit (CSWGP)
44 occurs, immediately notify the Engineer and fill out WSDOT Form 422-011,
45 Contractor ECAP Report, and submit the form to the Engineer within 48 hours
46 of the violation.
- 47
- 48 7. Once Physical Completion has been given, prepare a Notice of Termination
49 (Ecology Form ECY 020-87) and submit the Notice of Termination
50 electronically to the Engineer in a PDF format a minimum of 7 calendar days
51 prior to submitting the Notice of Termination to Ecology.
- 52

- 1 8. Transfer the CSWGP coverage to the Contracting Agency when Physical
2 Completion has been given and the Engineer has determined that the project
3 site is not stabilized from erosion.
4
5 9. Submit copies of all correspondence with Ecology electronically to the
6 Engineer in a PDF format within four calendar days.
7

8 **1-07.5(4) Air Quality**

9 This section is revised to read:

10 The Contractor shall comply with all regional clean air authority and/or State
11 Department of Ecology rules and regulations.
12

13
14 The air quality permit process may include additional State Environment Policy Act
15 (SEPA) requirements. Contractors shall contact the appropriate regional air pollution
16 control authority well in advance of beginning Work.
17

18 When the Work includes demolition or renovation of any existing facility or structure that
19 contains Asbestos Containing Material (ACM) and/or Presumed Asbestos-Containing
20 Material (PACM), the Contractor shall comply with the National Emission Standards for
21 Hazardous Air Pollutants (NESHAP).
22

23 Any requirements included in Federal and State regulations regarding air quality that
24 applies to the “owner or operator” shall be the responsibility of the Contractor.
25

26 **1-07.7(1) General**

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

28
29 When the Contractor moves equipment or materials on or over Structures, culverts or
30 pipes, the Contractor may operate equipment with only the load-limit restrictions in
31 Section 1-07.7(2).
32

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

34 Unit prices shall cover all costs for operating over Structures, culverts and pipes.
35
36

37 **1-07.9(2) Posting Notices**

38 The second sentence of the first paragraph (up until the colon) is revised to read:

39 The Contractor shall ensure the most current edition of the following are posted:
40

41
42 In items 1 through 10, the revision dates are deleted.
43

44 **1-07.11(2) Contractual Requirements**

45 In this section, “creed” is revised to read “religion”.
46

47 Item numbers 1 through 9 are revised to read 2 through 10, respectively.
48

49 After the preceding Amendment is applied, the following new item number 1 is inserted:
50

- 1 1. The Contractor shall maintain a Work site that is free of harassment, humiliation,
2 fear, hostility and intimidation at all times. Behaviors that violate this requirement
3 include but are not limited to:
4
5 a. Persistent conduct that is offensive and unwelcome.
6
7 b. Conduct that is considered to be hazing.
8
9 c. Jokes about race, gender, or sexuality that are offensive.
10
11 d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual
12 nature which interferes with a person's ability to perform their job or creates an
13 intimidating, hostile, or offensive work environment.
14
15 e. Language or conduct that is offensive, threatening, intimidating or hostile
16 based on race, gender, or sexual orientation.
17
18 f. Repeating rumors about individuals in the Work Site that are considered to be
19 harassing or harmful to the individual's reputation.
20

21 **1-07.11(5) Sanctions**

22 This section is supplemented with the following:

23
24 Immediately upon the Engineer's request, the Contractor shall remove from the Work
25 site any employee engaging in behaviors that promote harassment, humiliation, fear or
26 intimidation including but not limited to those described in these specifications.
27

28 **1-07.11(6) Incorporation of Provisions**

29 The first sentence is revised to read:

30
31 The Contractor shall include the provisions of Section 1-07.11(2) Contractual
32 Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract
33 including procurement of materials and leases of equipment.
34

35 **1-07.18 Public Liability and Property Damage Insurance**

36 Item number 1 is supplemented with the following new sentence:

37
38 This policy shall be kept in force from the execution date of the Contract until the
39 Physical Completion Date.
40

41 1-08.AP1

42 **Section 1-08, Prosecution and Progress** 43 **January 2, 2018**

44 **1-08.5 Time for Completion**

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

- 46
47 f. A copy of the Notice of Termination sent to the Washington State Department of
48 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
49 Notice of Termination by Ecology; and no rejection of the Notice of Termination by
50 Ecology. This requirement will not apply if the Construction Stormwater General

1 Permit is transferred back to the Contracting Agency in accordance with Section 8-
2 01.3(16).
3

4 **1-08.7 Maintenance During Suspension**

5 The fifth paragraph is revised to read:
6

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

10

11 1-09.AP1

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

13 **April 2, 2018**

14 **1-09.2(2) Specific Requirements for Batching Scales**

15 The last sentence of the first paragraph is revised to read:
16

17 Batching scales used for concrete or hot mix asphalt shall not be used for batching
18 other materials.
19

20

20 2-02.AP2

21 **Section 2-02, Removal of Structures and Obstructions**

22 **April 2, 2018**

23 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters**

24 In item number 3 of the first paragraph, the second sentence is revised to read:
25

26 For concrete pavement removal, a second vertical full depth relief saw cut offset 12 to
27 18 inches from and parallel to the initial saw cut is also required, unless the Engineer
28 allows otherwise.
29

30

30 2-09.AP2

31 **Section 2-09, Structure Excavation**

32 **April 2, 2018**

33 **2-09.2 Materials**

34 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
35 Cement Concrete” are revised to read:
36

37

37	Cement	9-01
38	Fine Aggregate for Concrete	9-03.1(2)

39

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

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

43

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

47

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

4 **3-01.1 Description**

5 The first paragraph is revised to read:

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

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

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

17 This section is supplemented with the following new paragraph:

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

24
25 5-01.AP5
26 **Section 5-01, Cement Concrete Pavement Rehabilitation**
27 **April 2, 2018**

28 **5-01.3(4) Replace Cement Concrete Panel**

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

30
31 If the replacement panel is located in an area that will be ground as part of concrete
32 pavement grinding in accordance with Section 5-01.3(9), the surface smoothness shall
33 be measured, by the Contractor, in conjunction with the smoothness measurement
34 done in accordance with Section 5-01.3(10).

35
36 5-04.AP5
37 **Section 5-04, Hot Mix Asphalt**
38 **April 2, 2018**

39 **5-04.1 Description**

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

41
42 The manufacture of HMA may include additives or processes that reduce the optimum
43 mixing temperature (Warm Mix Asphalt) or serve as a compaction aid in accordance
44 with these Specifications.

45
46 **5-04.2 Materials**

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

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

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

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

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

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

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

3. Changes in modifiers used in the asphalt binder.

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

This section, including title, is revised to read:

5-04.2(2)B Using HMA Additives

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

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

5-04.3(3)A Mixing Plant

In item number 5 of the first paragraph, “WSDOT T 168” is revised to read “FOP for AASHTO T 168”.

5-04.3(4) Preparation of Existing Paved Surfaces

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

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

5-04.3(6) Mixing

The first paragraph is revised to read:

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

The seventh paragraph is revised to read:

1 Upon discharge from the mixer, ensure that the temperature of the HMA does not
 2 exceed the optimum mixing temperature shown on the accepted Mix Design Report by
 3 more than 25°F, or as allowed by the Engineer. When an additive is included in the
 4 manufacture of HMA, do not heat the additive (at any stage of production including in
 5 binder storage tanks) to a temperature higher than the maximum recommended by the
 6 manufacturer of the additive.
 7

8 **5-04.3(7) Spreading and Finishing**

9 The last row of the table is revised to read:

10 $\frac{3}{8}$ inch	0.25 feet	0.30 feet
-----------------------	-----------	-----------

11
 12 **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

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

14
 15 The Contracting Agency’s combined aggregate bulk specific gravity (Gsb) blend as
 16 shown on the HMA Mix Design will be used for VMA calculations until the Contractor
 17 submits a written request for a Gsb test. The new Gsb will be used in the VMA
 18 calculations for HMA from the date the Engineer receives the written request for a Gsb
 19 retest. The Contractor may request aggregate specific gravity (Gsb) testing be
 20 performed by the Contracting Agency twice per project. The Gsb blend of the combined
 21 stockpiles will be used to calculate voids in mineral aggregate (VMA) of any HMA
 22 produced after the new Gsb is determined.
 23

24 **5-04.3(9)A1 Test Section – When Required, When to Stop**

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

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

27
 28 **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

29 In Table 9a, the test property “Gradation, Asphalt Binder, and V_a” is revised to read
 30 “Gradation, Asphalt Binder, VMA, and V_a”
 31

32 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

33 In Table 11, “V_a” is revised to read “VMA and V_a”
 34

35 **5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

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

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

38
 39 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

40 The second to last sentence is revised to read:

41
 42 The sample will be tested for a complete gradation analysis, asphalt binder content,
 43 VMA and V_a, and the results of the retest will be used for the acceptance of the HMA
 44 mixture in place of the original mixture subplot sample test results.
 45

1 **5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots**

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

- 3
- 4 • For a compaction lot in progress with a compaction CPF less than 0.75 using an
- 5 LSL = 91.0, a new compaction lot will begin at the Contractor’s request after the
- 6 Engineer is satisfied that material conforming to the Specifications can be
- 7 produced. See also Section 5-04.3(11)F.
- 8

9 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**

10 In the table, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO T 355”.

11

12 **5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments**

13 In the first paragraph, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for

14 AASHTO T 355”.

15

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

17

18 For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not

19 meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in

20 accordance with Section 1-06.2(2)D5 to determine the appropriate Composite Pay

21 Factor (CPF).

22

23 The last two paragraphs are revised to read:

24

25 Determine the Compaction Price Adjustment (CPA) from the table below, selecting the

26 equation for CPA that corresponds to the value of CPF determined above.

27

Calculating HMA Compaction Price Adjustment (CPA)	
Value of CPF	Equation for Calculating CPA
When CPF > 1.00	$CPA = [0.80 \times (CPF - 1.00)] \times Q \times UP$
When CPF = 1.00	CPA = \$0
When CPF < 1.0	$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$

28

29 Where

30 CPA = Compaction Price Adjustment for the compaction lot (\$)

31 CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)

32 Q = Quantity in the compaction lot (tons)

33 UP = Unit price of the HMA in the compaction lot (\$/ton)

34

35 **5-04.3(13) Surface Smoothness**

36 The second to last paragraph is revised to read:

37

38 When concrete pavement is to be placed on HMA, the surface tolerance of the HMA

39 shall be such that no surface elevation lies above the Plan grade minus the specified

40 Plan depth of concrete pavement. Prior to placing the concrete pavement, bring any

41 such irregularities to the required tolerance by grinding or other means allowed by the

42 Engineer.

1 **5-04.5 Payment**

2 The paragraph following the Bid item “Crack Sealing-LF”, per linear foot is revised to read:

3

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

6

7 5-05.AP5

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

9 **April 2, 2018**

10 **5-05.1 Description**

11 In the first paragraph, “portland cement concrete” is revised to read “cement concrete”.

12

13 **5-05.2 Materials**

14 In the first paragraph, the reference to “Portland Cement” is revised to read:

15

16 Cement 9-01

17

18 **5-05.3(1) Concrete Mix Design for Paving**

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

20

21 In item 4a, “Portland Cement” is revised to read “Cement”.

22

23 **5-05.3(4) Measuring and Batching Materials**

24 Item number 2 is revised to read:

25

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

30

31 **5-05.3(4)A Acceptance of Portland Cement Concrete Pavement**

32

33 This section’s title is revised to read:

34

35 **Acceptance of Portland Cement or Blended Hydraulic Cement Concrete Pavement**

36

37 The first sentence is revised to read:

38

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

41

42 **5-05.4 Measurement**

43 The last paragraph is revised to read:

44

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

47

48 **5-05.5 Payment**

49 The bid item “Portland Cement Concrete Compliance Adjustment”, by calculation, and the
50 paragraph following this bid item are revised to read:

1
2 “Cement Concrete Compliance Adjustment”, by calculation.
3
4 Payment for “Cement Concrete Compliance Adjustment” will be calculated by
5 multiplying the unit Contract price for the cement concrete pavement, times the volume
6 for adjustment, times the percent of adjustment determined from the calculated CPF
7 and the Deficiency Adjustment listed in Section 5-05.5(1)A.
8

9 6-01.AP6
10 **Section 6-01, General Requirements for Structures**
11 **January 2, 2018**

12 **6-01.10 Utilities Supported by or Attached to Bridges**
13 In the third paragraph, “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

14
15 **6-01.12 Final Cleanup**
16 The second paragraph is deleted.

17
18 6-02.AP6
19 **Section 6-02, Concrete Structures**
20 **April 2, 2018**

21 **6-02.1 Description**
22 The first sentence is revised to read:

23
24 This Work consists of the construction of all Structures (and their parts) made of
25 portland cement or blended hydraulic cement concrete with or without reinforcement,
26 including bridge approach slabs.

27
28 **6-02.2 Materials**
29 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
30 Cement Concrete” are revised to read:

31
32 Cement 9-01
33 Aggregates for Concrete 9-03.1

34
35 **6-02.3(2) Proportioning Materials**
36 The second paragraph is revised to read:

37
38 Unless otherwise specified, the Contractor shall use Type I or II portland cement or
39 blended hydraulic cement in all concrete as defined in Section 9-01.2(1).

40
41 **6-02.3(2)A Contractor Mix Design**
42 The last sentence of the last paragraph is revised to read:

43
44 For all other concrete, air content shall be a minimum of 4.5 percent and a maximum of
45 7.5 percent for all concrete placed above the finished ground line unless noted
46 otherwise.

47
48 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**
49 Item number 5 of the first paragraph is deleted.

1
2 Item number 6 of the first paragraph (after the preceding Amendment is applied) is
3 renumbered to 5.
4

5 **6-02.3(2)B Commercial Concrete**

6 The second paragraph is revised to read:
7

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

17 **6-02.3(4)D Temperature and Time For Placement**

18 The following is inserted after the first sentence of the first paragraph:
19

20 The upper temperature limit for placement for Class 4000D concrete may be increased
21 to a maximum of 80°F if allowed by the Engineer.
22

23 **6-02.3(5)C Conformance to Mix Design**

24 Item number 1 of the second paragraph is revised to read:
25

- 26 1. Cement weight plus 5 percent or minus 1 percent of that specified in the
27 mix design.
28

29 **6-02.3(6)A1 Hot Weather Protection**

30 The first paragraph is revised to read:
31

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

40 The second sentence of the second paragraph is revised to read:
41

42 These surfaces include forms, reinforcing steel, steel beam flanges, and any others that
43 touch the concrete.
44

45 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement**

46 This section, including title, is revised to read:
47

48 **6-02.3(10)D4 Vacant**
49

50 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

51 In the third subparagraph of the first paragraph, the last sentence is revised to read:
52

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

5
6 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

7 The last paragraph is deleted.

8
9 **6-02.3(13)A Strip Seal Expansion Joint System**

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

12
13 **6-02.3(23) Opening to Traffic**

14 This section is supplemented with the following new paragraph:

15
16 After curing bridge approach slabs in accordance with Section 6-02.3(11), the
17 bridge approach slabs may be opened to traffic when a minimum compressive strength
18 of 2,500 psi is achieved.

19
20 **6-02.3(24)C Placing and Fastening**

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

22
23 All epoxy-coated bars in the top mat of the bridge deck shall be tied at all intersections,
24 however they may be tied at alternate intersections when spacing is less than 1 foot in
25 each direction and they are supported by continuous supports meeting all other
26 requirements of supports for epoxy-coated bars.

27
28 The sixth paragraph (excluding the numbered list) is revised to read:

29
30 Precast concrete supports (or other accepted devices) shall be used to maintain the
31 concrete coverage required by the Plans. The precast concrete supports shall:

32
33 Item number 2 of the sixth paragraph is revised to read:

- 34
35 2. Have a compressive strength equal to or greater than that of the concrete in which
36 they are embedded.

37
38 The first sentence of the seventh paragraph is revised to read:

39
40 In slabs, each precast concrete support shall have either: (1) a grooved top that will hold
41 the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to the
42 reinforcing steel.

43
44 The eighth paragraph is revised to read:

45
46 Precast concrete supports may be accepted based on a Manufacturer's Certificate of
47 Compliance.

48
49 The ninth paragraph (excluding the numbered list) is revised to read:

50

1 In lieu of precast concrete supports, the Contractor may use metal or all-plastic supports
2 to hold uncoated bars. Any surface of a metal support that will not be covered by at
3 least ½ inch of concrete shall be one of the following:
4

5 The tenth paragraph is revised to read:
6

7 In lieu of precast concrete supports, epoxy-coated reinforcing bars may be supported by
8 one of the following:
9

- 10 1. Metal supports coated entirely with a dielectric material such as epoxy or
11 plastic,
12
- 13 2. Other epoxy-coated reinforcing bars, or
14
- 15 3. All-plastic supports.
16

17 The following new paragraph is inserted after the tenth paragraph:
18

19 Damaged coatings on metal bar supports shall be repaired prior to placing concrete.
20

21 The twelfth paragraph (after the preceding Amendment is applied) is revised to read:
22

23 All-plastic supports shall be lightweight, non-porous, and chemically inert in concrete.
24 All-plastic supports shall have rounded seatings, shall not deform under load during
25 normal temperatures, and shall not shatter or crack under impact loading in cold
26 weather. All-plastic supports shall be placed at spacings greater than 1 foot along the
27 bar and shall have at least 25 percent of their gross place area perforated to
28 compensate for the difference in the coefficient of thermal expansion between plastic
29 and concrete. The shape and configuration of all-plastic supports shall permit complete
30 concrete consolidation in and around the support.
31

32 The thirteenth paragraph (after the preceding Amendment is applied) is revised to read:
33

34 A “mat” is two adjacent and perpendicular layers of reinforcing steel. In bridge decks,
35 top and bottom mats shall be supported adequately enough to hold both in their proper
36 positions. If bar supports directly support, or are directly supported on No. 4 bars, they
37 shall be spaced at not more than 3-foot intervals (or not more than 4-foot intervals for
38 bars No. 5 and larger). Wire ties to girder stirrups shall not be considered as supports.
39 To provide a rigid mat, the Contractor shall add other supports and tie wires to the top
40 mat as needed.
41

42 **6-02.3(27) Concrete for Precast Units**

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

45 Type III portland cement or blended hydraulic cement is permitted to be used in precast
46 concrete units.
47

48 **6-02.3(28)B Curing**

49 In the second paragraph, the reference to Section 6-02.3(25)B is revised to read Section 6-
50 02.3(25)C.
51

1 **6-02.3(28)D Contractors Control Strength**

2 In the first paragraph, “WSDOT FOP for AASHTO T 23” is revised to read “FOP for AASHTO
3 T 23”.

4
5 6-05.AP6

6 **Section 6-05, Piling**

7 **January 2, 2018**

8 **6-05.3(9)A Pile Driving Equipment Approval**

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

10

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

14

15 6-07.AP6

16 **Section 6-07, Painting**

17 **January 2, 2018**

18 **6-07.3(6)A Paint Containers**

19 In item number 2 of the first paragraph, “Federal Standard 595” is revised to read “SAE AMS
20 Standard 595”.

21

22 6-08.AP6

23 **Section 6-08, Bituminous Surfacing on Structure Decks**

24 **January 2, 2018**

25 **6-08.3(7)A Concrete Deck Preparation**

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

27

28 The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish
29 the extent of bridge deck repair in accordance with Section 6-09.3(6).

30

31 6-09.AP6

32 **Section 6-09, Modified Concrete Overlays**

33 **January 2, 2018**

34 **6-09.3 Construction Requirements**

35 This section is supplemented with the following new subsection:

36

37 **6-09.3(15) Sealing and Texturing Concrete Overlay**

38 After the requirements for checking for bond have been met, all joints and visible cracks
39 shall be filled and sealed with a high molecular weight methacrylate resin (HMWM). The
40 Contractor may use compressed air to accelerate drying of the deck surface for crack
41 identification and sealing. Cracks 1/16 inch and greater in width shall receive two
42 applications of HMWM. Immediately following the application of HMWM, the wetted
43 surface shall be coated with sand for abrasive finish.

44

45 After all cracks have been filled and sealed and the HMWM resin has cured, the
46 concrete overlay surface shall receive a longitudinally sawn texture in accordance with
47 Section 6-02.3(10)D5.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

Traffic shall not be permitted on the finished concrete until it has reached a minimum compressive strength of 3,000 psi as verified by rebound number determined in accordance with ASTM C805 and the longitudinally sawn texture is completed.

6-09.3(1)B Rotary Milling Machines

This section is revised to read:

Rotary milling machines used to remove an upper layer of existing concrete overlay, when present, shall have a maximum operating weight of 50,000 pounds and conform to Section 6-08.3(5)B.

6-09.3(1)C Hydro-Demolition Machines

The first sentence of this section is revised to read:

Hydro-demolition machines shall consist of filtering and pumping units operating in conjunction with a remote-controlled robotic device, using high-velocity water jets to remove sound concrete to the nominal scarification depth shown in the Plans with a single pass of the machine, and with the simultaneous removal of deteriorated concrete.

6-09.3(1)D Shot Blasting Machines

This section, including title, is revised to read:

6-09.3(1)D Vacant

6-09.3(2) Submittals

Item number 1 and 2 are revised to read:

1. A Type 1 Working Drawing consisting of catalog cuts and operating parameters of the hydro-demolition machine selected by the Contractor for use in this project to scarify concrete surfaces.
2. A Type 1 Working Drawing consisting of catalog cuts, operating parameters, axle loads, and axle spacing of the rotary milling machine (if used to remove an upper layer of existing concrete overlay when present).

The first sentence of item number 3 is revised to read:

A Type 2 Working Drawing of the Runoff Water Disposal Plan.

6-09.3(5)A General

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

All areas of the deck that are inaccessible to the selected scarifying machine shall be scarified to remove the concrete surface matrix to a maximum nominal scarification depth shown in the Plans by a method acceptable to the Engineer.

This section is supplemented with the following:

Concrete process water generated by scarifying concrete surface and removing existing concrete overlay operations shall be contained, collected, and disposed of in

1 accordance with Section 5-01.3(11) and Section 6-09.3(5)C, and the Section 6-09.3(2)
2 Runoff Water Disposal Plan.

3
4 **6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines**

5 This section's title is revised to read:

6
7 **Testing of Hydro-Demolition Machines**

8
9 The second paragraph is revised to read:

10
11 In the "sound" area of concrete, the equipment shall be programmed to remove
12 concrete to the nominal scarification depth shown in the Plans with a single pass of the
13 machine.

14
15 **6-09.3(5)D Shot Blasting**

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

17
18 **6-09.3(5)D Vacant**

19
20 **6-09.3(5)E Rotomilling**

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

22
23 **6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling**
24 When the Contractor elects to remove the upper layer of existing concrete overlay,
25 when present, by rotomilling prior to final scarifying, the entire concrete surface of the
26 bridge deck shall be milled to remove the surface matrix to the depth specified in the
27 Plans with a tolerance as specified in Section 6-08.3(5)B. The operating parameters of
28 the rotary milling machine shall be monitored in order to prevent the unnecessary
29 removal of concrete below the specified removal depth.

30
31 **6-09.3(6) Further Deck Preparation**

32 The first paragraph is revised to read::

33
34 Once the lane or strip being overlaid has been cleaned of debris from scarifying, the
35 Contractor, with the Engineer, shall perform a visual inspection of the scarified surface.
36 The Contractor shall mark those areas of the existing bridge deck that are authorized by
37 the Engineer for further deck preparation by the Contractor.

38
39 Item number 4 of the second paragraph is deleted.

40
41 The first sentence of the third paragraph is deleted.

42
43 **6-09.3(6)A Equipment for Further Deck Preparation**

44 This section is revised to read:

45
46 Further deck preparation shall be performed using either power driven hand tools
47 conforming to Section 6-09.3(1)A, or hydro-demolition machines conforming to Section
48 6-09.3(1)C.

49
50 **6-09.3(6)B Deck Repair Preparation**

51 The second paragraph is deleted.

52

1 The last sentence of the second paragraph (after the preceding Amendment is applied) is
2 revised to read:

3
4 In no case shall the depth of a sawn vertical cut exceed $\frac{3}{4}$ inch or to the top of the top
5 steel reinforcing bars, whichever is less.

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

8
9 Where existing steel reinforcing bars inside deck repair areas show deterioration greater
10 than 20-percent section loss, the Contractor shall furnish and place steel reinforcing
11 bars alongside the deteriorated bars in accordance with the details shown in the
12 Standard Plans.

13
14 The last paragraph is deleted.

15
16 **6-09.3(7) Surface Preparation for Concrete Overlay**

17 The first seven paragraphs are deleted and replaced with the following:

18
19 Following the completion of any required further deck preparation the entire lane or strip
20 being overlaid shall be cleaned to be free from oil and grease, rust and other foreign
21 material that may still be present. These materials shall be removed by detergent-
22 cleaning or other method accepted by the Engineer followed by sandblasting.

23
24 After detergent cleaning and sandblasting is completed, the entire lane or strip being
25 overlaid shall be swept clean in final preparation for placing concrete using either
26 compressed air or vacuum machines.

27
28 Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or strip being
29 cleaned in final preparation for placing concrete shall be discontinued when final
30 preparation is begun. Scarifying and hand tool chipping shall remain suspended until
31 the concrete has been placed and the requirement for curing time has been satisfied.
32 Sandblasting and cleaning shall remain suspended for the first 24 hours of curing time
33 after the completion of concrete placing.

34
35 Scarification, and removal of the upper layer of concrete overlay when present, may
36 proceed during the final cleaning and overlay placement phases of the Work on
37 adjacent portions of the Structure so long as the scarification and concrete overlay
38 removal operations are confined to areas which are a minimum of 100 feet away from
39 the defined limits of the final cleaning or overlay placement in progress. If the
40 scarification and concrete overlay removal impedes or interferes in any way with the
41 final cleaning or overlay placement as determined by the Engineer, the scarification and
42 concrete overlay removal Work shall be terminated immediately and the scarification
43 and concrete overlay removal equipment removed sufficiently away from the area being
44 prepared or overlaid to eliminate the conflict. If the grade is such that water and
45 contaminants from the scarification and concrete overlay removal operation will flow into
46 the area being prepared or overlaid, the scarification and concrete overlay removal
47 operation shall be terminated and shall remain suspended for the first 24 hours of curing
48 time after the completion of concrete placement.

49
50 **6-09.3(12) Finishing Concrete Overlay**

51 The third paragraph is deleted.

52

1 The last paragraph is deleted.

2

3 **6-09.3(13) Curing Concrete Overlay**

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

5

6 As the finishing operation progresses, the concrete shall be immediately covered with a
7 single layer of clean, new or used, wet burlap.

8

9 The last sentence of the second paragraph is deleted.

10

11 The following two new paragraphs are inserted after the second paragraph:

12

13 As an alternative to the application of burlap and fog spraying described above, the
14 Contractor may propose a curing system using proprietary curing blankets specifically
15 manufactured for bridge deck curing. The Contractor shall submit a Type 2 Working
16 Drawing consisting of details of the proprietary curing blanket system, including product
17 literature and details of how the system is to be installed and maintained.

18

19 The wet curing regimen as described shall remain in place for a minimum of 42-hours.

20

21 The last paragraph is deleted.

22

23 **6-09.3(14) Checking for Bond**

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

25

26 After the requirements for curing have been met, the entire overlaid surface shall be
27 sounded by the Contractor, in a manner accepted by and in the presence of the
28 Engineer, to ensure total bond of the concrete to the bridge deck.

29

30 The last sentence of the first paragraph is deleted.

31

32 The second paragraph is deleted.

33

34 6-10.AP6

35 **Section 6-10, Concrete Barrier**

36 **April 2, 2018**

37 **6-10.2 Materials**

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

39

40 Cement 9-01

41

42 6-11.AP6

43 **Section 6-11, Reinforced Concrete Walls**

44 **April 2, 2018**

45 **6-11.2 Materials**

46 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
47 to read:

48

49 Aggregates for Concrete 9-03.1

50

1 6-12.AP6
2 **Section 6-12, Noise Barrier Walls**
3 **April 2, 2018**

4 **6-12.2 Materials**

5 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
6 to read:

7
8 Aggregates for Concrete 9-03.1
9

10 6-13.AP6
11 **Section 6-13, Structural Earth Walls**
12 **April 2, 2018**

13 **6-13.2 Materials**

14 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
15 to read:

16
17 Aggregates for Concrete 9-03.1
18

19 6-14.AP6
20 **Section 6-14, Geosynthetic Retaining Walls**
21 **April 2, 2018**

22 **6-14.2 Materials**

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

25
26 Cement 9-01
27 Aggregates for Concrete 9-03.1
28

29 6-16.AP6
30 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**
31 **April 2, 2018**

32 **6-16.2 Materials**

33 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is revised
34 to read:

35
36 Aggregates for Concrete 9-03.1
37

38 6-18.AP6
39 **Section 6-18, Shotcrete Facing**
40 **January 2, 2018**

41 **6-18.3(3) Testing**

42 In the last sentence of the first paragraph, “AASHTO T 24” is revised to read “ASTM C1604”.

43

44 **6-18.3(3)B Production Testing**

45 In the last sentence, “AASHTO T 24” is revised to read “ASTM C1604”.

46

1 **6-18.3(4) Qualifications of Contractor’s Personnel**

2 In the last sentence of the second paragraph, “AASHTO T 24” is revised to read “ASTM
3 C1604”.

4
5 6-19.AP6

6 **Section 6-19, Shafts**

7 **April 2, 2018**

8 **6-19.2 Materials**

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

11

12 Cement 9-01

13 Aggregates for Concrete 9-03.1

14

15 **6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft
16 Excavation Operations**

17 The first paragraph is supplemented with the following:

18

19 In no case shall shaft excavation and casing placement extend below the bottom of
20 shaft excavation as shown in the Plans.

21

22 **6-19.3(6)E Thermal Wire and Thermal Access Point (TAPS)**

23 The third sentence of the third paragraph is revised to read:

24

25 The thermal wire shall extend from the bottom of the reinforcement cage to the top of
26 the shaft, with a minimum of 5-feet of slack wire provided above the top of shaft.

27

28 The following new sentence is inserted after the third sentence of the third paragraph:

29

30 All thermal wires in a shaft shall be equal lengths.

31

32 7-02.AP7

33 **Section 7-02, Culverts**

34 **April 2, 2018**

35 **7-02.2 Materials**

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

38

39 Cement 9-01

40 Aggregates for Concrete 9-03.1

41

42 **7-02.3(6)A4 Excavation and Bedding Preparation**

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

44

45 The bedding course shall be a 6-inch minimum thickness layer of culvert bedding
46 material, defined as granular material either conforming to Section 9-03.12(3) or to
47 AASHTO Grading No. 57 as specified in Section 9-03.1(4)C.

48

1 7-08.AP7
2 **Section 7-08, General Pipe Installation Requirements**
3 **April 2, 2018**

4 **7-08.3(3) Backfilling**

5 The fifth sentence of the fourth paragraph is revised to read:

6
7 All compaction shall be in accordance with the Compaction Control Test of Section 2-
8 03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.

9
10 The following new sentences are inserted after the fifth sentence of the fourth paragraph:

11
12 When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written
13 request to use a test point evaluation for compaction acceptance. Test Point evaluation
14 shall be performed in accordance with SOP 738.

15
16 8-01.AP8

17 **Section 8-01, Erosion Control and Water Pollution Control**
18 **April 2, 2018**

19 **8-01.1 Description**

20 This section is revised to read:

21
22 This Work consists of furnishing, installing, maintaining, removing and disposing of best
23 management practices (BMPs), as defined in the Washington Administrative Code
24 (WAC) 173-201A, to manage erosion and water quality in accordance with these
25 Specifications and as shown in the Plans or as designated by the Engineer.

26
27 The Contracting Agency may have a National Pollution Discharge Elimination System
28 Construction Stormwater General Permit (CSWGP) as identified in the Contract Special
29 Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP
30 to the Contractor when a CSWGP has been obtained. The Contracting Agency may not
31 have a CSWGP for the project but may have another water quality related permit as
32 identified in the Contract Special Provisions or the Contracting Agency may not have
33 water quality related permits but the project is subject to applicable laws for the Work.
34 Section 8-01 covers all of these conditions.

35

36 **8-01.2 Materials**

37 The first paragraph is revised to read:

38

39 Materials shall meet the requirements of the following sections:

40

41	Corrugated Polyethylene Drain Pipe	9-05.1(6)
42	Quarry Spalls	9-13
43	Erosion Control and Roadside Planting	9-14
44	Construction Geotextile	9-33

45

46 **8-01.3(1) General**

47 This section is revised to read:

48

49 Adaptive management shall be employed throughout the duration of the project for the
50 implementation of erosion and water pollution control permit requirements for the

1 current condition of the project site. The adaptive management includes the selection
2 and utilization of BMPs, scheduling of activities, prohibiting unacceptable practices,
3 implementing maintenance procedures, and other managerial practices that when used
4 singularly or in combination, prevent or reduce the release of pollutants to waters of the
5 State. The adaptive management shall use the means and methods identified in this
6 section and means and methods identified in the Washington State Department of
7 Transportation's Temporary Erosion and Sediment Control Manual or the Washington
8 State Department of Ecology's Stormwater Management Manuals for construction
9 stormwater.

10
11 The Contractor shall install a high visibility fence along the site preservation lines shown
12 in the Plans or as instructed by the Engineer.

13
14 Throughout the life of the project, the Contractor shall preserve and protect the
15 delineated preservation area, acting immediately to repair or restore any fencing
16 damaged or removed.

17
18 All discharges to surface waters shall comply with surface water quality standards as
19 defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to
20 the ground shall comply with groundwater quality standards WAC Chapter 173-200.

21
22 The Contractor shall comply with the CSWGP when the project is covered by the
23 CSWGP. Temporary Work, at a minimum, shall include the implementation of:

- 24
- 25 1. Sediment control measures prior to ground disturbing activities to ensure all
26 discharges from construction areas receive treatment prior to discharging from
27 the site.
 - 28 2. Flow control measures to prevent erosive flows from developing.
 - 29 3. Water management strategies and pollution prevention measures to prevent
30 contamination of waters that will be discharged to surface waters or the
31 ground.
 - 32 4. Erosion control measures to stabilize erodible earth not being worked.
 - 33 5. Maintenance of BMPs to ensure continued compliant performance.
 - 34 6. Immediate corrective action if evidence suggests construction activity is not in
35 compliance. Evidence includes sampling data, olfactory or visual evidence
36 such as the presence of suspended sediment, turbidity, discoloration, or oil
37 sheen in discharges.
- 38
39
40
41
42
43

44 To the degree possible, the Contractor shall coordinate this temporary Work with
45 permanent drainage and erosion control Work the Contract requires.

46
47 Clearing, grubbing, excavation, borrow, or fill within the Right of Way shall never expose
48 more erodible earth than as listed below:

49

**Western Washington
(West of the Cascade
Mountain Crest)**

**Eastern Washington
(East of the Cascade
Mountain Crest)**

May 1 through September 30	17 Acres
October 1 through April 30	5 Acres

April 1 through October 31	17 Acres
November 1 through March 31	5 Acres

1
2
3
4
5
6
7
8
9

The Engineer may increase or decrease the limits based on project conditions.

Erodible earth is defined as any surface where soils, grindings, or other materials may be capable of being displaced and transported by rain, wind, or surface water runoff.

Erodible earth not being worked, whether at final grade or not, shall be covered within the specified time period (see the table below), using BMPs for erosion control.

Western Washington (West of the Cascade Mountain Crest)	
October 1 through April 30	2 days maximum
May 1 to September 30	7 days maximum

Eastern Washington (East of the Cascade Mountain Crest)	
October 1 through June 30	5 days maximum
November 1 through March 31	10 days maximum

10
11
12
13
14
15
16
17
18
19

When applicable, the Contractor shall be responsible for all Work required for compliance with the CSWGP including annual permit fees.

If the Engineer, under Section 1-08.6, orders the Work suspended, the Contractor shall continue to comply with this division during the suspension.

Nothing in this Section shall relieve the Contractor from complying with other Contract requirements.

8-01.3(1)A Submittals

This section's content is deleted.

This section is supplemented with the following new subsection:

8-01.3(1)A1 Temporary Erosion and Sediment Control

A Temporary Erosion and Sediment Control (TESC) plan consists of a narrative section and plan sheets that meets the Washington State Department of Ecology's Stormwater Pollution Prevention Plan (SWPPP) requirement in the CSWGP. Abbreviated TESC plans are not required to include plan sheets and are used on small projects that disturb soil and have the potential to discharge but are not covered by the CSWGP. The contract uses the term "TESC plan" to describe both TESC plans and abbreviated TESC plans. When the Contracting Agency has developed a TESC plan for a Contract, the narrative is included in the appendix to the Special Provisions and the TESC plan sheets, when required, are included in the Contract Plans. The Contracting Agency TESC plan will not include off-site areas used to directly support construction activity.

36
37
38

The Contractor shall either adopt the TESC Plan in the Contract or develop a new TESC Plan. If the Contractor adopts the Contracting Agency TESC Plan, the Contractor

1 shall modify the TESC Plan to meet the Contractor's schedule, method of construction,
2 and to include off-site areas that will be used to directly support construction activity
3 such as equipment staging yards, material storage areas, or borrow areas. Contractor
4 TESC Plans shall include all high visibility fence delineation shown on the Contracting
5 Agency Contract Plans. All TESC Plans shall meet the requirements of the current
6 edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109 and be
7 adaptively managed as needed throughout construction based on site inspections and
8 discharge samples to maintain compliance with the CSWGP. The Contractor shall
9 develop a schedule for implementation of the TESC work and incorporate it into the
10 Contractor's progress schedule.

11
12 The Contractor shall submit their TESC Plan (either the adopted plan or new plan) and
13 implementation schedule as Type 2 Working Drawings. At the request of the Engineer,
14 updated TESC Plans shall be submitted as Type 1 Working Drawings.

15
16 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**

17 This section is revised to read:

18
19 The Contractor shall identify the ESC Lead at the preconstruction discussions and in the
20 TESC Plan. The ESC Lead shall have, for the life of the Contract, a current Certificate
21 of Training in Construction Site Erosion and Sediment Control from a course approved
22 by the Washington State Department of Ecology. The ESC Lead must be onsite or on
23 call at all times throughout construction. The ESC Lead shall be listed on the
24 Emergency Contact List required under Section 1-05.13(1).

25
26 The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not
27 limited to:

- 28
- 29 1. Installing, adaptively managing, and maintaining temporary erosion and
30 sediment control BMPs to assure continued performance of their intended
31 function. Damaged or inadequate BMPs shall be corrected immediately.
 - 32
33 2. Updating the TESC Plan to reflect current field conditions.
 - 34
35 3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to
36 the Washington State Department of Ecology in accordance with the CSWGP.
 - 37
38 4. Develop and maintain the Site Log Book as defined in the CSWGP. When the
39 Site Log Book or portion thereof is electronically developed, the electronic
40 documentation must be accessible onsite. As a part of the Site Log Book, the
41 Contractor shall develop and maintain a tracking table to show that identified
42 TESC compliance issues are fully resolved within 10 calendar days. The table
43 shall include the date an issue was identified, a description of how it was
44 resolved, and the date the issue was fully resolved.

45
46 The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site
47 erosion and sediment control BMPs, and all stormwater discharge points at least once
48 every calendar week and within 24-hours of runoff events in which stormwater
49 discharges from the site. Inspections of temporarily stabilized, inactive sites may be
50 reduced to once every calendar month. The Washington State Department of Ecology's
51 Erosion and Sediment Control Site Inspection Form, located at
52 <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general->

1 permits/Construction-stormwater-permit, shall be completed for each inspection and a
2 copy shall be submitted to the Engineer no later than the end of the next working day
3 following the inspection.
4

5 **8-01.3(1)C Water Management**

6 This section is supplemented with the following new subsections:
7

8 **8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High Water**
9 **Mark (OHWM)**

10 Work over surface waters of the state (defined in WAC 173-201A-010) or below the
11 OHWM (defined in RCW 90.58.030) must comply with water quality standards for
12 surface waters of the state of Washington.
13

14 **8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid**

15 All equipment containing hydraulic fluid that extends from a bridge deck over surface
16 waters of the state or below the OHWM, shall be equipped with an environmentally
17 acceptable hydraulic fluid. The fluid shall meet specific requirements for
18 biodegradability, aquatic toxicity, and bioaccumulation in accordance with the United
19 States Environmental Protection Agency (EPA) publication EPA800-R-11-002.
20 Acceptance shall be in accordance with Section 1-06.3, Manufacturer's Certification of
21 Compliance.
22

23 The designation of environmentally acceptable hydraulic fluid does not mean fluid spills
24 are acceptable. The Contractor shall respond to spills to land or water in accordance
25 with the Contract.
26

27 **8-01.3(1)C7 Turbidity Curtain**

28 All Work for the turbidity curtain shall be in accordance with the manufacturer's
29 recommendations for the site conditions. Removal procedures shall be developed and
30 used to minimize silt release and disturbance of silt. The Contractor shall submit a Type
31 2 Working Drawing, detailing product information, installation and removal procedures,
32 equipment and workforce needs, maintenance plans, and emergency
33 repair/replacement plans.
34

35 Turbidity curtain materials, installation, and maintenance shall be sufficient to comply
36 with water quality standards.
37

38 The Contractor shall notify the Engineer 10 days in advance of removing the turbidity
39 curtain. All components of the turbidity curtain shall be removed from the project.
40

41 **8-01.3(1)C1 Disposal of Dewatering Water**

42 This section is revised to read:
43

44 When uncontaminated groundwater is encountered in an excavation on a project it may
45 be infiltrated within vegetated areas of the right of way not designated as Sensitive
46 Areas or incorporated into an existing stormwater conveyance system at a rate that will
47 not cause erosion or flooding in any receiving surface water.
48

49 Alternatively, the Contractor may pursue independent disposal and treatment
50 alternatives that do not use the stormwater conveyance system provided it is in
51 compliance with the applicable WACs and permits.
52

1 **8-01.3(1)C2 Process Wastewater**

2 This section is revised to read:

3
4 Wastewater generated on-site as a byproduct of a construction process shall not be
5 discharged to surface waters of the State. Some sources of process wastewater may be
6 infiltrated in accordance with the CSWGP with concurrence from the Engineer. Some
7 sources of process wastewater may be disposed via independent disposal and
8 treatment alternatives in compliance with the applicable WACs and permits.
9

10 **8-01.3(1)C3 Shaft Drilling Slurry Wastewater**

11 This section is revised to read:

12
13 Wastewater generated on-site during shaft drilling activity shall be managed and
14 disposed of in accordance with the requirements below. No shaft drilling slurry
15 wastewater shall be discharged to surface waters of the State. Neither the sediment nor
16 liquid portions of the shaft drilling slurry wastewater shall be contaminated, as
17 detectable by visible or olfactory indication (e.g., chemical sheen or smell).
18

- 19 1. Water-only shaft drilling slurry or water slurry with accepted flocculants may be
20 infiltrated on-site. Flocculants used shall meet the requirements of Section 9-
21 14.5(1) or shall be chitosan products listed as General Use Level Designation
22 (GULD) on the Washington State Department of Ecology's stormwater
23 treatment technologies webpage for construction treatment. Infiltration is
24 permitted if the following requirements are met:
25
- 26 a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.
 - 27
 - 28 b. The amount of flocculant added to the slurry shall be kept to the minimum
29 needed to adequately settle out solids. The flocculant shall be thoroughly
30 mixed into the slurry.
 - 31
 - 32 c. The slurry removed from the shaft shall be contained in a leak proof cell or
33 tank for a minimum of 3 hours.
 - 34
 - 35 d. The infiltration rate shall be reduced if needed to prevent wastewater from
36 leaving the infiltration location. The infiltration site shall be monitored
37 regularly during infiltration activity. All wastewater discharged to the
38 ground shall fully infiltrate and discharges shall stop before the end of
39 each work day.
 - 40
 - 41 e. Drilling spoils and settled sediments remaining in the containment cell or
42 tank shall be disposed of in accordance with Section 6-19.3(4)F.
 - 43
 - 44 f. Infiltration locations shall be in upland areas at least 150 feet away from
45 surface waters, wells, on-site sewage systems, aquifer sensitive recharge
46 areas, sole source aquifers, well head protection areas, and shall be
47 marked on the plan sheets before the infiltration activity begins.
 - 48
 - 49 g. Prior to infiltration, the Contractor shall submit a Shaft Drilling Slurry
50 Wastewater Management and Infiltration Plan as a Type 2 Working
51 Drawing. This Plan shall be kept on-site, adapted if needed to meet the
52 construction requirements, and updated to reflect what is being done in

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

the field. The Working Drawing shall include, at a minimum, the following information:

- i. Plan sheet showing the proposed infiltration location and all surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas within 150 feet.
 - ii. The proposed elevation of soil surface receiving the wastewater for infiltration and the anticipated phreatic surface (i.e., saturated soil).
 - iii. The source of the water used to produce the slurry.
 - iv. The estimated total volume of wastewater to be infiltrated.
 - v. The accepted flocculant to be used (if any).
 - vi. The controls or methods used to prevent surface wastewater runoff from leaving the infiltration location.
 - vii. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.
 - viii. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.
 - ix. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.
 - x. The strategy for cleaning up the infiltration location after the infiltration activity is done. Cleanup shall include stabilizing any loose sediment on the surface within the infiltration area generated as a byproduct of suspended solids in the infiltrated wastewater or soil disturbance associated with BMP placement and removal.
2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not allowed for infiltration shall be contained and disposed of by the Contractor at an accepted disposal facility in accordance with Section 2-03.3(7)C. Spoils that have come into contact with mineral slurry shall be disposed of in accordance with Section 6-19.3(4)F.

8-01.3(1)C4 Management of Off-Site Water

This section is revised to read:

Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site surface water and overland flow that will run-on to the project. Off-site surface water run-on shall be diverted through or around the project in a way that does not introduce construction related pollution. It shall be diverted to its preconstruction discharge location in a manner that does not increase preconstruction flow rate and velocity and

1 protects contiguous properties and waterways from erosion. The Contractor shall submit
2 a Type 2 Working Drawing consisting of the method for performing this Work.

3
4 **8-01.3(1)E Detention/Retention Pond Construction**

5 This section is revised to read:

6
7 Whether permanent or temporary, ponds shall be constructed before beginning other
8 grading and excavation Work in the area that drains into that pond. Detention/retention
9 ponds may be constructed concurrently with grading and excavation when allowed by
10 the Engineer. Temporary conveyances shall be installed concurrently with grading in
11 accordance with the TESC Plan so that newly graded areas drain to the pond as they
12 are exposed.

13
14 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

15 In the table, the second column heading is revised to read:

16
17 **Eastern Washington¹**
18 **(East of the Cascade Mountain Crest)**

19
20 Footnote 1 in the table is revised to read:

21
22 Seeding may be allowed outside these dates when allowed or directed by the Engineer.

23
24 **8-01.3(5) Plastic Covering**

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

26
27 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled materials,
28 slopes or bare soils shall be installed and maintained in a way that prevents water from
29 intruding under the plastic and prevents the plastic cover from being damaged by wind.

30
31 **8-01.3(7) Stabilized Construction Entrance**

32 The first paragraph is revised to read:

33
34 Temporary stabilized construction entrance shall be constructed in accordance with the
35 *Standard Plans*, prior to construction vehicles entering the roadway from locations that
36 generate sediment track out on the roadway. Material used for stabilized construction
37 entrance shall be free of extraneous materials that may cause or contribute to track out.

38
39 **8-01.3(8) Street Cleaning**

40 This section is revised to read:

41
42 Self-propelled pickup street sweepers shall be used to remove and collect dirt and other
43 debris from the Roadway. The street sweeper shall effectively collect these materials
44 and prevent them from being washed or blown off the Roadway or into waters of the
45 State. Street sweepers shall not generate fugitive dust and shall be designed and
46 operated in compliance with applicable air quality standards. Material collected by the
47 street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

48
49 When allowed by the Engineer, power broom sweepers may be used in non-
50 environmentally sensitive areas. The broom sweeper shall sweep dirt and other debris
51 from the roadway into the work area. The swept material shall be prevented from
52 entering or washing into waters of the State.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52

Street washing with water will require the concurrence of the Engineer.

8-01.3(12) Compost Socks

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

Compost socks are used to disperse flow and sediment. Compost socks shall be installed as soon as construction will allow but before flow conditions create erosive flows or discharges from the site. Compost socks shall be installed prior to any mulching or compost placement.

8-01.3(13) Temporary Curb

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

Temporary curbs shall be a minimum of 4 inches in height.

8-01.3(14) Temporary Pipe Slope Drain

The third and fourth paragraphs are revised to read:

The pipe fittings shall be water tight and the pipe secured to the slope with metal posts, wood stakes, sand bags, or as allowed by the Engineer.

The water shall be discharged to a stabilized conveyance, sediment trap, stormwater pond, rock splash pad, or vegetated strip, in a manner to prevent erosion and maintain water quality compliance.

The last paragraph is deleted.

8-01.3(15) Maintenance

This section is revised to read:

Erosion and sediment control BMPs shall be maintained or adaptively managed as required by the CSWGP until the Engineer determines they are no longer needed. When deficiencies in functional performance are identified, the deficiencies shall be rectified immediately.

The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B for damage and sediment deposits. Damage to or undercutting of BMPs shall be repaired immediately.

In areas where the Contractor's activities have compromised the erosion control functions of the existing grasses, the Contractor shall overseed at no additional cost to the Contracting Agency.

The quarry spalls of construction entrances shall be refreshed, replaced, or screened to maintain voids between the spalls for collecting mud and dirt.

Unless otherwise specified, when the depth of accumulated sediment and debris reaches approximately 1/3 the height of the BMP the deposits shall be removed. Debris or contaminated sediment shall be disposed of in accordance with Section 2-03.3(7)C. Clean sediments may be stabilized on-site using BMPs as allowed by the Engineer.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

8-01.3(16) Removal

This section is revised to read:

The Contractor shall remove all temporary BMPs, all associated hardware and associated accumulated sediment deposition from the project limits prior to Physical Completion unless otherwise allowed by the Engineer. When the temporary BMP materials are made of natural plant fibers unaltered by synthetic materials the Engineer may allow leaving the BMP in place.

The Contractor shall remove BMPs and associated hardware in a way that minimizes soil disturbance. The Contractor shall permanently stabilize all bare and disturbed soil after removal of BMPs. If the installation and use of the erosion control BMPs have compacted or otherwise rendered the soil inhospitable to plant growth, such as construction entrances, the Contractor shall take measures to rehabilitate the soil to facilitate plant growth. This may include, but is not limited to, ripping the soil, incorporating soil amendments, or seeding with the specified seed.

At the request of the Contractor and at the sole discretion of the Engineer the CSWGP may be transferred back to the Contracting Agency. Approval of the Transfer of Coverage request will require the following:

1. All other Work required for Contract Completion has been completed.
2. All Work required for compliance with the CSWGP has been completed to the maximum extent possible. This includes removal of BMPs that are no longer needed and the site has undergone all Stabilization identified for meeting the requirements of Final Stabilization in the CSWGP.
3. An Equitable Adjustment change order for the cost of Work that has not been completed by the Contractor.
4. Submittal of the Washington State Department of Ecology Transfer of Coverage form (Ecology form ECY 020-87a) to the Engineer.

If the Engineer approves the transfer of coverage back to the Contracting Agency, the requirement in Section 1-07.5(3) for the Contractor’s submittal of the Notice of Termination form to the Washington State Department of Ecology will not apply.

8-01.4 Measurement

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

8-01.4(1) Lump Sum Bid for Project (No Unit Items)

When the Bid Proposal contains the item “Erosion Control and Water Pollution Prevention” there will be no measurement of unit or force account items for Work defined in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also, except as described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are deleted.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

8-01.4(2) Item Bids

When the Proposal does not contain the items “Erosion Control and Water Pollution Prevention”, Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will contain some or all of the following items measured as noted.

ESC lead will be measured per day for each day that an inspection is made and a report is filed.

Biodegradable erosion control blanket and plastic covering will be measured by the square yard along the ground slope line of surface area covered and accepted.

Turbidity curtains will be measured by the linear foot along the ground line of the installed curtain.

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

Stabilized construction entrances will be measured by the square yard by ground slope measurement for each entrance constructed.

Tire wash facilities will be measured per each for each tire wash installed.

Street cleaning will be measured by the hour for the actual time spent cleaning pavement, refilling with water, dumping and transport to and from cleaning locations within the project limits, as authorized by the Engineer. Time to mobilize the equipment to or from the project limits on which street cleaning is required will not be measured.

Inlet protections will be measured per each for each initial installation at a drainage structure.

Silt fence, gravel filter, compost berms, and wood chip berms will be measured by the linear foot along the ground line of the completed barrier.

Wattles and compost socks will be measured by the linear foot.

Temporary curbs will be measured by the linear foot along the ground line of the completed installation.

Temporary pipe slope drains will be measured by the linear foot along the flow line of the pipe.

Coir logs will be measured by the linear foot along the ground line of the completed installation.

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

Tackifiers will be measure by the acre by ground slope measurement.

1 **8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and Water**
2 **Pollution Prevention**

3 The Contract Provisions may establish the project as lump sum, in accordance with
4 Section 8-01.4(1) and also include one or more of the items included above in Section
5 8-01.4(2). When that occurs, the corresponding measurement provision in Section 8-
6 01.4(2) is not deleted and the Work under that item will be measured as specified.
7

8 **8-01.4(4) Items not included with Lump Sum Erosion Control and Water Pollution**
9 **Prevention**

10 Compost blanket will be measured by the square yard by ground slope surface area
11 covered and accepted.

12
13 Mulching will be measured by the acre by ground slope surface area covered and
14 accepted.

15
16 Seeding, fertilizing, liming, mulching, and mowing, will be measured by the acre by
17 ground slope measurement.

18
19 Seeding and fertilizing by hand will be measured by the square yard by ground slope
20 measurement. No adjustment in area size will be made for the vegetation free zone
21 around each plant.

22
23 Fencing will be measured by the linear foot along the ground line of the completed
24 fence.
25

26 **8-01.5 Payment**

27 This section's content is deleted and replaced with the following new subsections:
28

29 **8-01.5(1) Lump Sum Bid for Project (No Unit Items)**

30 Payment will be made for the following Bid item when it is included in the Proposal:
31

32 "Erosion Control and Water Pollution Prevention", lump sum.
33

34 The lump sum Contract price for "Erosion Control and Water Pollution Prevention"
35 shall be full pay to perform the Work as described in Section 8-01 except for costs
36 compensated by Bid Proposal items inserted through Contract Provisions as
37 described in Section 8-01.4(2). Progress payments for the lump sum item "Erosion
38 Control and Water Pollution Prevention" will be made as follows:
39

- 40 1. The Contracting Agency will pay 15 percent of the bid amount for the
41 initial set up for the item. Initial set up includes the following:
42
43 a. Acceptance of the TESC Plan provided by the Contracting Agency or
44 submittal of a new TESC Plan,
45
46 b. Submittal of a schedule for the installation of the BMPs, and
47
48 c. Identifying water quality sampling locations.
49
50 2. 70 percent of the bid amount will be paid in accordance with Section 1-
51 09.9.
52

1 3. Once the project is physically complete and copies of the all reports
2 submitted to the Washington State Department of Ecology have been
3 submitted to the Engineer, and, if applicable, transference of the CSWGP
4 back to the Contracting Agency is complete, the remaining 15 percent of
5 the bid amount shall be paid in accordance with Section 1-09.9.
6

7 **8-01.5(2) Item Bids**

- 8 "ESC Lead", per day.
9
10 "Turbidity Curtain", per linear foot.
11
12 "Biodegradable Erosion Control Blanket", per square yard.
13
14 "Plastic Covering", per square yard.
15
16 "Check Dam", per linear foot.
17
18 "Inlet Protection", per each.
19
20 "Gravel Filter Berm", per linear foot.
21
22 "Stabilized Construction Entrance", per square yard.
23
24 "Street Cleaning", per hour.
25
26 "Silt Fence", per linear foot.
27
28 "Wood Chip Berm", per linear foot.
29
30 "Compost Berm", per linear foot.
31
32 "Wattle", per linear foot.
33
34 "Compost Sock", per linear foot.
35
36 "Coir Log", per linear foot.
37
38 "Temporary Curb", per linear foot.
39
40 "Temporary Pipe Slope Drain", per linear foot.
41
42 "Temporary Seeding", per acre.
43
44 "Outlet Protection", per each.
45
46 "Tackifier", per acre.
47
48 "Erosion/Water Pollution Control", by force account as provided in Section 1-09.6.
49
50 Maintenance and removal of erosion and water pollution control devices including
51 removal and disposal of sediment, stabilization and rehabilitation of soil disturbed
52 by these activities, and any additional Work deemed necessary by the Engineer to

1 control erosion and water pollution will be paid by force account in accordance with
2 Section 1-09.6.

3
4 To provide a common Proposal for all Bidders, the Contracting Agency has entered an
5 amount in the Proposal to become a part of the Contractor's total Bid.

6
7 **8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and Water**
8 **Pollution Prevention**

9 The Contract may establish the project as lump sum, in accordance with Section 8-
10 01.4(1) and also reinstate the measurement of one or more of the items described in
11 Section 8-01.4(2), except for Erosion/Water Pollution Control, by force account. When
12 that occurs, the corresponding payment provision in Section 8-01.5(2) is not deleted
13 and the Work under that item will be paid as specified.

14
15 **8-01.5(4) Items not included with Lump Sum Erosion Control and Water Pollution**
16 **Prevention**

17 Payment will be made for each of the following Bid items when they are included in the
18 Proposal:

- 19
20 "Compost Blanket", per square yard.
21
22 "Mulching", per acre
23
24 "Mulching with PAM", per acre
25
26 "Mulching with Short-Term Mulch", per acre.
27
28 "Mulching with Moderate-Term Mulch", per acre.
29
30 "Mulching with Long-Term Mulch", per acre.
31
32 "Seeding, Fertilizing and Mulching", per acre.
33
34 "Seeding and Fertilizing", per acre.
35
36 "Seeding and Fertilizing by Hand", per square yard.
37
38 "Second Application of Fertilizer", per acre.
39
40 "Liming", per acre.
41
42 "Mowing", per acre.
43
44 "Seeding and Mulching", per acre.
45
46 "High Visibility Fence", per linear foot.
47

1 8-02.AP8
2 **Section 8-02, Roadside Restoration**
3 **January 2, 2018**

4 **8-02.2 Materials**

5 The reference to the material "Soil" is revised to read "Topsoil".
6

7 **8-02.5 Payment**

8 The following new paragraph is inserted following the Bid item "Plant Selection ____", per
9 each:

10

11 The unit Contract price for "Plant Selection ____", per each shall be full pay for all Work
12 to perform the work as specified within the planting area prior to planting for weed
13 control, planting area preparation and installation of plants with initial watering.
14

15 The paragraph following the Bid item "PSIPE ____", per each is revised to read:

16

17 The unit Contract price for "PSIPE ____", per each, shall be full pay for all Work to
18 perform the work as specified within the planting area for weed control and planting
19 area preparation, planting, cleanup, and water necessary to complete planting
20 operations as specified to the end of first year plant establishment.
21

22 8-04.AP8

23 **Section 8-04, Curbs, Gutters, and Spillways**
24 **April 2, 2018**

25 **8-04.2 Materials**

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

27

28 Cement 9-01
29

30 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

31 The first paragraph is supplemented with the following:

32

33 Roundabout truck apron cement concrete curb and gutter shall be constructed with air
34 entrained concrete Class 4000 conforming to the requirements of Section 6-02.
35

36 8-06.AP8

37 **Section 8-06, Cement Concrete Driveway Entrances**
38 **April 2, 2018**

39 **8-06.2 Materials**

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

41

42 Cement 9-01
43

44 **8-06.3 Construction Requirements**

45 The first paragraph is revised to read:

46

47 Cement concrete driveway approaches shall be constructed with air entrained concrete
48 Class 4000 conforming to the requirements of Section 6-02 or Portland Cement or

1 Blended Hydraulic Cement Concrete Pavement conforming to the requirements of
2 Section 5-05.

3
4 8-07.AP8

5 **Section 8-07, Curbs, Gutters, and Spillways**

6 **April 2, 2018**

7 **8-07.3(1) Installing Curbs**

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

9
10 The curb shall be firmly bedded for its entire length and breadth on a mortar bed
11 conforming to Section 9-20.4(3) composed of one part Portland cement or blended
12 hydraulic cement and two parts sand.

13
14 The fourth paragraph is revised to read:

15
16 All joints between adjacent pieces of curb except joints for expansion and/or drainage
17 as designated by the Engineer shall be filled with mortar composed of one part Portland
18 cement or blended hydraulic cement and two parts sand.

19
20 8-11.AP8

21 **Section 8-11, Guardrail**

22 **April 2, 2018**

23 **8-11.3(1)C Terminal and Anchor Installation**

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

25
26 Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail
27 shall be supervised at all times by a manufacturer's representative, or an installer who
28 has been trained and certified by the manufacturer.

29
30 The last paragraph is revised to read:

31
32 Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test
33 and evaluation criteria in the Manual for Assessing Safety Hardware (MASH).

34
35 **8-11.4 Measurement**

36 The third paragraph is revised to read:

37
38 Measurement of beam guardrail _____ terminal will be per each for the
39 completed terminal.

40
41 The fourth paragraph is revised to read:

42
43 Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot
44 for the completed terminal.

45
46 **8-11.5 Payment**

47 The Bid item "Beam Guardrail Buried Terminal Type 1", per each is deleted from this
48 section.

49

1 The Bid item “Beam Guardrail Buried Terminal Type 2”, per linear foot and the following
2 paragraph are revised to read:
3
4 “Beam Guardrail Type 31 Buried Terminal Type 2”, per linear foot.
5
6 The unit Contract price per linear foot for “Beam Guardrail Type 31 Buried Terminal
7 Type 2” shall be full payment for all costs to obtain and provide materials and perform
8 the Work as described in Section 8-11.3(1)C.
9

10 8-14.AP8
11 **Section 8-14, Cement Concrete Sidewalks**
12 **April 2, 2018**

13 **8-14.2 Materials**
14 In the first paragraph, the reference to “Portland Cement” is revised to read:
15
16 Cement 9-01
17

18 In the second paragraph, each reference to “Federal Standard 595” is revised to read “SAE
19 AMS Standard 595”.
20

21 8-16.AP8
22 **Section 8-16, Concrete Slope Protection**
23 **April 2, 2018**

24 **8-16.2 Materials**
25 In the first paragraph, the last two material references are revised to read:
26
27 Poured Portland Cement or Blended Hydraulic Cement
28 Concrete Slope Protection 9-13.5(2)
29 Pneumatically Placed Portland Cement or Blended
30 Hydraulic Cement Concrete Slope Protection 9-13.5(3)
31

32 8-20.AP8
33 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**
34 **Systems, and Electrical**
35 **April 2, 2018**

36 **8-20.1(1) Regulations and Code**
37 The last paragraph is revised to read:
38
39 Persons performing electrical Work shall be certified in accordance with and supervised
40 as required by RCW 19.28.161. Proof of certification shall be worn at all times in
41 accordance with WAC 296-46B-942. Persons failing to meet these certification
42 requirements may not perform any electrical work, and shall stop any active electrical
43 work, until their certification is provided and worn in accordance with this Section.
44

45 **8-20.2(2) Equipment List and Drawings**
46 This section is renumbered:
47

1 **8-20.2(1) Equipment List and Drawings**

2

3 **8-20.3(4) Foundations**

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

5

6 Concrete for Type II, III, IV, V, and CCTV signal standards and light standard
7 foundations shall be Class 4000P and does not require air entrainment.

8

9 **8-20.3(5)A General**

10 The last two sentences of the last paragraph is deleted.

11

12 This section is supplemented with the following:

13

14 All conduits shall include a pull tape with the equipment grounding conductor. The pull
15 tape shall be attached to the conduit near the end bell or grounded end bushing, or to
16 duct plugs or caps if present, at both ends of the conduit.

17

18 **8-20.3(8) Wiring**

19 The seventeenth paragraph is supplemented with the following:

20

21 Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string may not be
22 used.

23

24 8-21.AP8

25 **Section 8-21, Permanent Signing**

26 **January 2, 2018**

27 **8-21.3(9)F Foundations**

28 Item number 3 of the twelfth paragraph is supplemented with the following new sentence:

29

30 Class 4000P concrete for roadside sign structures does not require air entrainment.

31

32 9-02.AP9

33 **Section 9-02, Bituminous Materials**

34 **April 2, 2018**

35 **9-02.1 Asphalt Material, General**

36 The second paragraph is revised to read:

37

38 The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified
39 asphalt shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2
40 “Standard Practice for Asphalt Suppliers That Certify Performance Graded and
41 Emulsified Asphalts”. The Asphalt Supplier’s QCP shall be submitted and receive the
42 acceptance of the WSDOT State Materials Laboratory. Once accepted, any change to
43 the QCP will require a new QCP to be submitted for acceptance. The Asphalt Supplier
44 of PG asphalt binder and emulsified asphalt shall certify through the Bill of Lading that
45 the PG asphalt binder or emulsified asphalt meets the Specification requirements of the
46 Contract.

47

48 **9-02.1(4) Performance Graded Asphalt Binder (PGAB)**

49 This section’s title is revised to read:

1
2 **Performance Graded (PG) Asphalt Binder**
3

4 The first paragraph is revised to read:

5
6 PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades
7 specified in the Contract shall be used in the production of HMA. For HMA with greater
8 than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt
9 binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the
10 proportions of the mix design shall meet the PG asphalt binder requirements of
11 AASHTO M 332 Table 1 for the grade of asphalt binder specified by the Contract.
12

13 The second paragraph, including the table, is revised to read:

14
15 In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders
16 shall meet the following requirements:
17

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	Test Method	PG58S-22	PG58H-22	PG58V-22	PG64S-28	PG64H-28	PG64V-28
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 350 ¹			30% Min.	20% Min.	25% Min.	30% Min.
¹ Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

18
19 The third paragraph is revised to read:

20
21 The RTFO $J_{nr diff}$ and the PAV direct tension specifications of AASHTO M 332 are not
22 required.
23

24 This section is supplemented with the following:

25
26 If the asphalt binder verification sample test results fail to meet AASHTO Test Method T
27 350 “Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of
28 Asphalt Binder Using a Dynamic Shear Rheometer (DSR)” for average percent recovery
29 @ 3.2 kPa for the applicable grades of binder in accordance with Section 9-02.1(4), the
30 Contracting Agency may elect to test the sample using AASHTO Test Method T 301
31 “Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of a
32 Ductilometer.”
33

34 When AASHTO T 301 is used, a minimum of 65% elastic recovery (ER) will be required
35 when tested at 25°C ± 0.5°C.
36

37 **9-02.1(6) Cationic Emulsified Asphalt**

38 This section is revised to read:
39

1 Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208 Table 1 of the
2 grades specified in the Contract shall be used.
3

4 **9-02.5 Warm Mix Asphalt (WMA) Additive**

5 This section, including title, is revised to read:
6

7 **9-02.5 HMA Additive**

8 Additives for HMA shall be accepted by the Engineer.
9

10 9-03.AP9

11 **Section 9-03, Aggregates**

12 **April 2, 2018**

13 **9-03.1 Aggregates for Portland Cement Concrete**

14 This section's title is revised to read:
15

16 **Aggregates for Concrete**
17

18 **9-03.1(1) General Requirements**

19 The first two sentences of the first paragraph are revised to read:
20

21 Concrete aggregates shall be manufactured from ledge rock, talus, or sand and gravel
22 in accordance with the provisions of Section 3-01. Reclaimed aggregate may be used if
23 it complies with the specifications for concrete.
24

25 The second paragraph (up until the colon) is revised to read:
26

27 Aggregates for concrete shall meet the following test requirements:
28

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

31 The Contractor shall submit test results according to ASTM C1567 through the Engineer
32 to the State Materials Laboratory that demonstrate that the proposed fly ash when used
33 with the proposed aggregates and cement will control the potential expansion to 0.20
34 percent or less before the fly ash and aggregate sources may be used in concrete.
35

36 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**

37 This section's title is revised to read:
38

39 **Fine Aggregate for Concrete**
40

41 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**

42 This section's title is revised to read:
43

44 **Coarse Aggregate for Concrete**
45

46 **9-03.1(4)C Grading**

47 The first paragraph (up until the colon) is revised to read:
48

1 Coarse aggregate for concrete when separated by means of laboratory sieves shall
2 conform to one or more of the following gradings as called for elsewhere in these
3 Specifications, Special Provisions, or in the Plans:
4

5 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

6 This section's title is revised to read:

7

8 **Combined Aggregate Gradation for Concrete**

9

10 **9-03.1(5)B Grading**

11 In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read
12 "FOP for WAQTC/AASHTO T 27/T 11".
13

14 **9-03.2 Aggregate for Job-Mixed Portland Cement Mortar**

15 This section's title is revised to read:

16

17 **Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar**

18

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

20

21 Fine aggregate for portland cement or blended hydraulic cement mortar shall consist of
22 sand or other inert materials, or combinations thereof, accepted by the Engineer, having
23 hard, strong, durable particles free from adherent coating.
24

25 **9-03.4(1) General Requirements**

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

27

28 Aggregate for bituminous surface treatment shall be manufactured from ledge rock,
29 talus, or gravel, in accordance with Section 3-01. Aggregates for Bituminous Surface
30 Treatment shall meet the following test requirements:
31

32 **9-03.8(1) General Requirements**

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

34

35 Aggregates for Hot Mix Asphalt shall meet the following test requirements:
36

37 **9-03.8(7) HMA Tolerances and Adjustments**

38 In the table in item number 1, the fifth row is revised to read:
39

Asphalt binder	-0.4% to 0.5%		±0.7%
----------------	---------------	--	-------

40

41 In the table in item number 1, the following new row is inserted before the last row:
42

Voids in Mineral Aggregate, VMA	-1.5%		
---------------------------------	-------	--	--

43

44 **9-03.9(1) Ballast**

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

46

47 Aggregates for ballast shall meet the following test requirements:
48

1 **9-03.14(4) Gravel Borrow for Structural Earth Wall**

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

3

4 The material shall be substantially free of shale or other soft, poor durability particles,
5 and shall not contain recycled materials, such as glass, shredded tires, concrete rubble,
6 or asphaltic concrete rubble.

7

8 **9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled**
9 **Material**

10 "Portland Cement" is deleted from the first two rows in the table.

11

12 9-04.AP9

13 **Section 9-04, Joint and Crack Sealing Materials**

14 **April 2, 2018**

15 **9-04.1(2) Premolded Joint Filler for Expansion Joints**

16 In this section, each reference to "AASHTO T 42" is revised to read "ASTM D 545".

17

18 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

19 This section is supplemented with the following:

20

21 Hot poured sealant for cement concrete pavement is acceptable for installations in joints
22 where cement concrete pavement abuts a bituminous pavement.

23

24 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

25 This section is supplemented with the following:

26

27 Hot poured sealant for bituminous pavement is acceptable for installations in joints
28 where cement concrete pavement abuts a bituminous pavement.

29

30 **9-04.2(1)B Sand Slurry for Bituminous Pavement**

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

32

33 2. Two percent portland cement or blended hydraulic cement, and

34

35 **9-04.3 Joint Mortar**

36 The first paragraph is revised to read:

37

38 Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one
39 part portland cement or blended hydraulic cement, three parts fine sand, and sufficient
40 water to allow proper workability.

41

42 9-05.AP9

43 **Section 9-05, Drainage Structures and Culverts**

44 **April 2, 2018**

45 **9-05.3(1)C Age at Shipment**

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

47

48 Unless it is tested and accepted at an earlier age, it shall not be considered ready for
49 shipment sooner than 28 days after manufacture when made with Type II portland

1 cement or blended hydraulic cement, nor sooner than 7 days when made with Type III
2 portland cement.

3
4 9-06.AP9

5 **Section 9-06, Structural Steel and Related Materials**
6 **January 2, 2018**

7 **9-06.5 Bolts**

8 This section's title is revised to read:

9

10 **Bolts and Rods**

11

12 **9-06.5(4) Anchor Bolts**

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

14

15 **9-06.5(4) Anchor Bolts and Anchor Rods**

16 Anchor bolts and anchor rods shall meet the requirements of ASTM F1554 and, unless
17 otherwise specified, shall be Grade 105 and shall conform to Supplemental
18 Requirements S2, S3, and S4.

19

20 Nuts for ASTM F1554 Grade 105 black anchor bolts and anchor rods shall conform to
21 ASTM A563, Grade D or DH. Nuts for ASTM F1554 Grade 105 galvanized anchor bolts
22 and anchor rods shall conform to either ASTM A563, Grade DH, or AASHTO M292,
23 Grade 2H, and shall conform to the overtapping, lubrication, and rotational testing
24 requirements in Section 9-06.5(3). Nuts for ASTM F1554 Grade 36 or 55 black or
25 galvanized anchor bolts and anchor rods shall conform to ASTM A563, Grade A or DH.
26 Washers shall conform to ASTM F436.

27

28 The bolts and rods shall be tested by the manufacturer in accordance with the
29 requirements of the pertinent Specification and as specified in these Specifications.
30 Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the
31 project site. The Contractor shall submit to the Engineer for acceptance a
32 Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and
33 washers, as defined in Section 1-06.3. If the Engineer deems it appropriate, the
34 Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for
35 testing.

36

37 All bolts, rods, nuts, and washers shall be marked and identified as required in the
38 pertinent Specification.

39

40 **9-06.18 Metal Bridge Railing**

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

42

43 Steel used for metal railings, when galvanized after fabrication in accordance with
44 AASHTO M111, shall have a controlled silicon content of either 0.00 to 0.06 percent or
45 0.15 to 0.25 percent.

46

1 9-07.AP9
2 **Section 9-07, Reinforcing Steel**
3 **April 2, 2018**

4 **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and**
5 **Cement Concrete Pavement Rehabilitation)**

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

7
8 Corrosion resistant dowel bars shall be 1½ inch outside diameter plain round steel bars
9 or tubular bars 18 inches in length and meet the requirements of one of the following:

10
11 Item number 4 and 5 of the first paragraph are revised to read:

- 12
13 4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete
14 reinforcement meeting all the requirements of ASTM A 1035 Alloy Type CS Grade
15 100 or Alloy Type CS Grade 120.
16
17 5. Zinc Clad dowel bars shall be 1½ inch solid bars or tubular bars with 1.695 inch
18 outside diameter by 0.120 inch wall and shall have a minimum 0.035 inch A710
19 Zinc alloy clad to a plain steel inner bar meeting the chemical and physical
20 properties of AASHTO M 31, Grade 60, or AASHTO M 255, Grade 60. A710 Zinc
21 shall be composed of: zinc: 99.5 percent, by weight, minimum; copper: 0.1-0.25
22 percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each end of
23 tubular bars shall be plugged using a snug-fitting insert to prohibit any intrusion of
24 concrete or other materials.
25

26 9-08.AP9
27 **Section 9-08, Paints and Related Materials**
28 **January 2, 2018**

29 **9-08.1(2)K Orange Equipment Enamel**

30 In the second sentence of the first paragraph, the reference to “Federal Standard 595” is
31 revised to read “SAE AMS Standard 595”.

32
33 **9-08.1(8) Standard Colors**

34 In the first paragraph, the reference to “Federal Standard 595” is revised to read “SAE AMS
35 Standard 595”.

36
37 9-13.AP9
38 **Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion**
39 **and Scour Protection and Rock Walls**
40 **April 2, 2018**

41 **9-13.1(1) General**

42 The last paragraph is revised to read:

43
44 Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
45 defects tending to destroy its resistance to weather and shall meet the following test
46 requirements:
47

1 **9-13.5 Concrete Slope Protection**

2 This section is revised to read:

3

4 Concrete slope protection shall consist of reinforced portland cement or blended
5 hydraulic cement concrete poured or pneumatically placed upon the slope with a
6 rustication joint pattern or semi-open concrete masonry units placed upon the slope
7 closely adjoining each other.

8

9 **9-13.5(2) Poured Portland Cement Concrete Slope Protection**

10 This section's title is revised to read:

11

12 **Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection**

13

14 **9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection**

15 This section's title is revised to read:

16

17 **Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete**
18 **Slope Protection**

19

20 The first paragraph is revised to read:

21

22 **Cement** – This material shall be portland cement or blended hydraulic cement as
23 specified in Section 9-01.

24

25 **9-13.7(1) Rock for Rock Walls and Chinking Material**

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

27

28 Rock for rock walls and chinking material shall be hard, sound and durable material,
29 free from seams, cracks, and other defects tending to destroy its resistance to weather,
30 and shall meet the following test requirements:

31

32 9-14.AP9

33 **Section 9-14, Erosion Control and Roadside Planting**

34 **January 2, 2018**

35 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

36 In the second column of Table 1, "ASTM D 586" is revised to read "AASHTO T 267".

37

38 In Table 1, the second to last row is deleted.

39

40 9-16.AP9

41 **Section 9-16, Fence and Guardrail**

42 **April 2, 2018**

43 **9-16.3(5) Anchors**

44 The last paragraph is revised to read:

45

46 Cement grout shall conform to Section 9-20.3(4) and consist of one part portland
47 cement or blended hydraulic cement and two parts sand.

48

1 9-18.AP9
2 **Section 9-18, Precast Traffic Curb**
3 **April 2, 2018**

4 **9-18.1(1) Aggregates and Proportioning**

5 Item number 1 of the first paragraph is revised to read:

- 6
7 1. Portland cement or blended hydraulic cement shall conform to the requirements of
8 Section 9-01 except that it may be Type I portland cement conforming to AASHTO
9 M 85.

10

11 9-20.AP9

12 **Section 9-20, Concrete Patching Material, Grout, and Mortar**
13 **January 2, 2018**

14 **9-20.5 Bridge Deck Repair Material**

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

16

- 17 3. Permeability of less than 2,000 coulombs at 28-days or more in accordance with
18 AASHTO T 277.

19

20 9-21.AP9

21 **Section 9-21, Raised Pavement Markers (RPM)**
22 **January 2, 2018**

23 **9-21.2 Raised Pavement Markers Type 2**

24 This section's content is deleted.

25

26 **9-21.2(1) Physical Properties**

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

28

29 **9-21.2(1) Standard Raised Pavement Markers Type 2**

30 The marker housing shall contain reflective faces as shown in the Plans to reflect
31 incident light from either a single or opposite directions and meet the requirements of
32 ASTM D 4280 including Flexural strength requirements.

33

34 **9-21.2(2) Optical Requirements**

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

36

37 **9-21.2(2) Abrasion Resistant Raised Markers Type 2**

38 Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and
39 meet the requirements of ASTM D 4280 with the following additional requirement: The
40 coefficient of luminous intensity of the markers shall be measured after subjecting the
41 entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop
42 apparatus. After the exposure described above, retroreflected values shall not be less
43 than 0.5 times a nominal unblemished sample.

44

45 **9-21.2(3) Strength Requirements**

46 This section is deleted in its entirety.

47

1 9-26.AP9
2 **Section 9-26, Epoxy Resins**
3 **April 2, 2018**

4 **9-26.1(2) Packaging and Marking**

5 The second paragraph is revised to read:

6
7 Containers shall be identified as “Component A” (contains the Epoxy Resin) and
8 “Component B” (Contains the Curing Agent) and shall show the type, grade, class, and
9 mixing directions as defined by these Specifications. Each container shall be marked by
10 permanent marking with the name of the formulator, the lot or batch number, the date of
11 packaging, expiration date and the quantity contained in pounds or gallons. If the two
12 containers are furnished in a single cartridge, that cartridge shall be marked by
13 permanent marking to the cartridge with the name of the formulator and the lots or batch
14 numbers for both Component A and Component B, the date of packaging, expiration
15 date, and the quantity contained in ounces or milliliters.

16
17 9-28.AP9

18 **Section 9-28, Signing Materials and Fabrication**
19 **April 2, 2018**

20 **9-28.10 Vacant**

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

22
23 **9-28.10 Digital Printing**

24 Transparent and opaque durable inks used in digital printed sign messages shall be as
25 recommended by the manufacturer. When properly applied, digital printed colors shall
26 have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall
27 present a smooth surface, free from foreign material, and all messages and borders
28 shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective
29 minimum values established for its type and color. Digitally printed signs shall meet the
30 daytime color and luminance, and nighttime color requirements of ASTM D 4956. No
31 variations in color or overlapping of colors will be permitted. Digital printed permanent
32 traffic signs shall have an integrated engineered match component clear protective
33 overlay recommended by the sheeting manufacturer applied to the entire face of the
34 sign. On Temporary construction/maintenance signs printed with black ink only, the
35 protective overlay film is optional, as long as the finished sign has a warranty of a
36 minimum of three years from sign sheeting manufacturer.

37
38 All digital printed traffic control signs shall be an integrated engineered match
39 component system. The integrated engineered match component system shall consist
40 of retroreflective sheeting, durable ink(s), and clear overlay film all from the same
41 manufacturer applied to aluminum substrate conforming to Section 9-28.8.

42
43 The sign fabricator shall use an approved integrated engineered match component
44 system as listed on the Qualified Products List (QPL). Each approved digital printer
45 shall only use the compatible retroreflective sign sheeting manufacturer’s engineered
46 match component system products.

47
48 Each retroreflective sign sheeting manufacturer/integrated engineered match
49 component system listed on the QPL shall certify a department approved sign fabricator
50 is approved to operate their compatible digital printer. The sign fabricator shall re-certify

1 annually with the retroreflective sign manufacturer to ensure their digital printer is still
2 meeting manufacturer's specifications for traffic control signs. Documentation of each
3 re-certification shall be submitted to the QPL Engineer annually.
4

5 **9-28.11 Hardware**

6 The last paragraph is revised to read:
7

8 All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and
9 related connecting hardware shall be galvanized in accordance with ASTM F 2329.
10

11 **9-28.14(2) Steel Structures and Posts**

12 The first sentence of the third paragraph is revised to read:
13

14 Anchor rods for sign bridge and cantilever sign structure foundations shall conform to
15 Section 9-06.5(4), including Supplemental Requirement S4 tested at -20°F.
16

17 In the second sentence of the fourth paragraph, "AASHTO M232" is revised to read "ASTM
18 F 2329".
19

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

22 Except as otherwise noted, steel used for sign structures and posts shall have a
23 controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.
24

25 The last sentence of the last paragraph is revised to read:
26

27 If such modifications are contemplated, the Contractor shall submit a Type 2 Working
28 Drawing of the proposed modifications.
29

30 9-29.AP9

31 **Section 9-29, Illumination, Signal, Electrical**

32 **April 2, 2018**

33 **9-29.1 Conduit, Innerduct, and Outerduct**

34 This section is supplemented with the following new subsection:
35

36 **9-29.1(10) Pull Tape**

37 Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a
38 minimum width of ½-inch and a minimum tensile strength of 500 pounds. Pull tape may
39 have measurement marks.
40

41 **9-29.2(1) Junction Boxes**

42 The first paragraph is revised to read:
43

44 For the purposes of this Specification concrete is defined as portland cement or blended
45 hydraulic cement concrete and non-concrete is all others.
46

47 **9-29.2(1)A2 Non-Concrete Junction Boxes**

48 The first paragraph is revised to read:
49

1 Material for the non-concrete junction boxes shall be of a quality that will provide for a
2 similar life expectancy as portland cement or blended hydraulic cement concrete in a
3 direct burial application.
4

5 **9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes**

6 In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:
7

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

8

9 **9-29.6 Light and Signal Standards**

10 In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F
11 2329".
12

13 Item number 2 of the last paragraph is revised to read:
14

- 15 2. The steel light and signal standard fabricator's shop drawing submittal, including
16 supporting design calculations, submitted as a Type 2E Working Drawing in
17 accordance with Section 8-20.2(1) and the Special Provisions.
18

19 **9-29.6(1) Steel Light and Signal Standards**

20 In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
21

22 The first sentence of the last paragraph is revised to read:
23

24 Steel used for light and signal standards shall have a controlled silicon content of either
25 0.00 to 0.06 percent or 0.15 to 0.25 percent.
26

27 **9-29.6(5) Foundation Hardware**

28 In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
29

30 **9-29.10(1) Conventional Roadway Luminaires**

31 This section is revised to read:
32

33 All conventional roadway luminaires shall meet 3G vibration requirements as described
34 in ANSI C136.31.
35

36 All luminaires shall have housings fabricated from aluminum. The housing shall be
37 painted flat gray, SAE AMS Standard 595 color chip No. 26280, unless otherwise
38 specified in the Contract. Painted housings shall withstand a 1,000 hour salt spray test
39 as specified in ASTM B117.
40

41 Each housing shall include a four bolt slip-fitter mount capable of accepting a nominal 2"
42 tenon and adjustable within +/- 5 degrees of the axis of the tenon. The clamping
43 bracket(s) and the cap screws shall not bottom out on the housing bosses when
44 adjusted within the +/- 5 degree range. No part of the slipfitter mounting brackets on the
45 luminaires shall develop a permanent set in excess of 0.2 inch when the cap screws
46 used for mounting are tightened to a torque of 32 foot-pounds. Each luminaire shall
47 include leveling reference points for both transverse and longitudinal adjustment.
48

1 All luminaires shall include shorting caps when shipped. The caps shall be removed and
2 provided to the Contracting Agency when an alternate control device is required to be
3 installed in the photocell socket. House side shields shall be included when required by
4 the Contract. Order codes shall be modified to the minimum extent necessary to include
5 the option for house side shields.
6

7 This section is supplemented with the following new subsections:
8

9 **9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway Luminaires**

10 HPS conventional roadway luminaires shall meet the following requirements:

- 11 1. General shape shall be “cobrahead” style, with flat glass lens and full cutoff
12 optics.
13
- 14 2. Light pattern distribution shall be IES Type III.
15
- 16 3. The reflector of all luminaires shall be of a snap-in design or secured with
17 screws. The reflector shall be polished aluminum or prismatic borosilicate
18 glass.
19
- 20 4. Flat lenses shall be formed from heat resistant, high-impact, molded
21 borosilicate or tempered glass.
22
- 23 5. The lens shall be mounted in a doorframe assembly, which shall be hinged to
24 the luminaire and secured in the closed position to the luminaire by means of
25 an automatic latch. The lens and doorframe assembly, when closed, shall
26 exert pressure against a gasket seat. The lens shall not allow any light output
27 above 90 degrees nadir. Gaskets shall be composed of material capable of
28 withstanding the temperatures involved and shall be securely held in place.
29
- 30 6. The ballast shall be mounted on a separate exterior door, which shall be
31 hinged to the luminaire and secured in the closed position to the luminaire
32 housing by means of an automatic type of latch (a combination hex/slot
33 stainless steel screw fastener may supplement the automatic-type latch).
34
- 35 7. Each luminaire shall be capable of accepting a 150, 200, 250, 310, or 400 watt
36 lamp complete and associated ballast. Lamps shall mount horizontally.
37
38

39 **9-29.10(1)B Light Emitting Diode (LED) Conventional Roadway Luminaires**

40 LED Conventional Roadway Luminaires are divided into classes based on their
41 equivalent High Pressure Sodium (HPS) luminaires. Current classes are 200W, 250W,
42 310W, and 400W. LED luminaires are required to be pre-approved in order to verify
43 their photometric output. To be considered for pre-approval, LED luminaires must meet
44 the requirements of this section.
45

46 LED luminaires shall include a removable access door, with tool-less entry, for access
47 to electronic components and the terminal block. The access door shall be removable,
48 but include positive retention such that it can hang freely without disconnecting from the
49 luminaire housing. LED drivers may be mounted either to the interior of the luminaire
50 housing or to the removable door itself.
51

1 LED drivers shall be removable for user replacement. All internal modular components
 2 shall be connected by means of mechanical plug and socket type quick disconnects.
 3 Wire nuts may not be used for any purpose. All external electrical connections to the
 4 luminaire shall be made through the terminal block.
 5
 6 LED luminaires shall include a 7-pin NEMA photocell receptacle. The LED driver(s)
 7 shall be dimmable from ten volts to zero volts. LED output shall have a Correlated Color
 8 Temperature (CCT) of 4000K nominal (4000-4300K) and a Color Rendering Index (CRI)
 9 of 70 or greater. LED output shall be a minimum of 85% at 75,000 hours at 25 degrees
 10 Celsius.
 11
 12 LED luminaires shall be available for 120V, 240V, and 480V supply voltages. Voltages
 13 refer to the supply voltages to the luminaires present in the field. LED power usage shall
 14 not exceed the following maximum values for the applicable wattage class:
 15

Class	Max. Wattage
200W	110W
250W	165W
310W	210W
400W	275W

16
 17 Only one brand of LED conventional roadway luminaire may be used on a Contract.
 18 They do not necessarily have to be the same brand as any high-mast, underdeck, or
 19 wall-mount luminaires when those types of luminaires are specified in the Contract.
 20 LED luminaires shall include a standard 10 year manufacturer warranty.
 21
 22 The list of pre-approved LED Conventional Roadway Luminaires is available at
 23 <http://www.wsdot.wa.gov/Design/Traffic/ledluminaires.htm>.
 24

25 **9-29.10(2) Decorative Luminaires**

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

27
 28 **9-29.10(2) Vacant**
 29

30 **9-29.12 Electrical Splice Materials**

31 This section is supplemented with the following new subsections:

32
 33 **9-29.12(3) Splice Enclosures**

34 **9-29.12(3)A Heat Shrink Splice Enclosure**

35 Heat shrink splice enclosures shall be medium or heavy wall cross-linked
 36 polyolefin, meeting the requirements of AMS-DTL-23053/15, with thermoplastic
 37 adhesive sealant. Heat shrink splices used for “wye” connections require rubber
 38 electrical mastic tape.
 39

40 **9-29.12(3)B Molded Splice Enclosure**

41 Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The
 42 material used shall be compatible with the insulation material of the insulated
 43 conductor or cable. The component materials of the resin insulation shall be
 44 packaged ready for convenient mixing without removing from the package.
 45

- 1 **9-29.12(4) Re-Enterable Splice Enclosure**
2 Re-enterable splice enclosures shall use either dielectric grease or a flexible resin
3 contained in a two-piece plastic mold. The mold shall either snap together or use
4 stainless steel hose clamps.
5
- 6 **9-29.12(5) Vinyl Electrical Tape for Splices**
7 Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-
8 24391C.
9
- 10 **9-29.12(1) Illumination Circuit Splices**
11 This section is revised to read:
12
- 13 Underground illumination circuit splices shall be solderless crimped connections
14 capable of securely joining the wires, both mechanically and electrically, as defined in
15 Section 8-20.3(8). Aerial illumination splices shall be solderless crimp connectors or
16 split bolt vice-type connectors.
17
- 18 **9-29.12(1)A Heat Shrink Splice Enclosure**
19 This section is deleted in its entirety.
20
- 21 **9-29.12(1)B Molded Splice Enclosure**
22 This section is deleted in its entirety.
23
- 24 **9-29.12(2) Traffic Signal Splice Material**
25 This section is revised to read:
26
- 27 Induction loop splices and magnetometer splices shall use an uninsulated barrel-type
28 crimped connector capable of being soldered.
29
- 30 **9-29.16(2)E Painting Signal Heads**
31 In the first sentence, “Federal Standard 595” is revised to read “SAE AMS Standard 595”.
32
- 33 **9-29.17 Signal Head Mounting Brackets and Fittings**
34 In the first paragraph, item number 2 under **Stainless Steel** is revised to read:
35
- 36 2. Bands or cables for Type N mount.
37
- 38 **9-29.20 Pedestrian Signals**
39 In item 2C of the second paragraph, “Federal Standard 595” is revised to read “SAE AMS
40 Standard 595”.
41
- 42 9-34.AP9
- 43 **Section 9-34, Pavement Marking Material**
44 **January 2, 2018**
- 45 **9-34.2(2) Color**
46 Each reference to “Federal Standard 595” is revised to read “SAE AMS Standard 595”.
47
- 48 **9-34.2(5) Low VOC Waterborne Paint**
49 The heading “Standard Waterborne Paint” is supplemented with “Type 1 and 2”.
50

- 1 The heading “High-Build Waterborne Paint” is supplemented with “Type 4”.
- 2
- 3 The heading “Cold Weather Waterborne Paint” is supplemented with “Type 5”.
- 4
- 5 In the row beginning with “° @90°F”, each minimum value is revised to read “60”.
- 6
- 7 In the row beginning with “Fineness of Grind, (Hegman Scale)”, each minimum value is
- 8 revised to read “3”.
- 9
- 10 The last four rows are replaced with the following:
- 11

Vehicle Composition	ASTM D 2621	100% acrylic emulsion	100% cross-linking acrylic ⁴	100% acrylic emulsion
Freeze-Thaw Stability, KU	ASTM D 2243 and D 562	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 3 cycles show no coagulation or change in viscosity greater than ± 10 KU
Heat Stability	ASTM D 562 ²	± 10 KU from the initial viscosity	± 10 KU from the initial viscosity	± 10 KU from the initial Viscosity
Low Temperature Film Formation	ASTM D 2805 ³	No Cracks*		No Cracks
Cold Flexibility ⁵	ASTM D522	Pass at 0.5 in mandrel*		
Test Deck Durability ⁶	ASTM D913	≥70% paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

- 12
- 13 After the preceding Amendments are applied, the following new column is inserted after the
- 14 “Standard Waterborne Paint Type 1 and 2” column:
- 15

Semi-Durable Waterborne Paint Type 3			
White		Yellow	
Min.	Max.	Min.	Max.
Within ± 0.3 of qualification sample			
80	95	80	95
60		60	
77		77	
	65		65
43		43	
	1.25		1.25
3		3	
0.98		0.96	
88		50	
100°		100°	
9.5		9.5	
	10		10
100% acrylic emulsion			
@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU			
± 10 KU from the initial viscosity			
No Cracks			
Pass at 0.25 in mandrel			
≥70% paint retention in wheel track			
No Cracks			

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

The footnotes are supplemented with the following:

⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F Section 3.1.1.

⁵Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness of 15 mils and allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B) shall be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and immediately tested to according to ASTM D522 to evaluate cold flexibility. Paint must show no evidence of cracking, chipping or flaking when bent 180 degrees over a mandrel bar of specified diameter.

⁶NTPEP test deck, or a test deck conforming to ASTM D713, shall be conducted for a minimum of six months with the following additional requirements: it shall be applied at 15 wet mils to a test deck that is located at 40N latitude or higher with at least 10,000 ADT and which was applied during the months of September through November.

⁷Paint is applied to an approximately 4"x12" aluminum panel using a drawdown bar with a 50 mil gap. The coated panel is allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. Visual evaluation of the dry film shall reveal no cracks.

9-34.3 Plastic

In the first sentence of the last paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".

9-34.3(2) Type B – Pre-Formed Fused Thermoplastic

In the last two paragraphs, each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".

9-34.7(1) Requirements

The first paragraph is revised to read:

Field performance evaluation is required for low VOC solvent-based paint per Section 9-34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B – preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section 9-34.3(4).

The last paragraph is deleted.

9-34.7(1)C Auto No-Track Time

The first paragraph is revised to read:

Auto No-Track Time will only be required for low VOC solvent-based paint in accordance with Section 9-34.2(4).

The second and third sentences of the second paragraph are deleted.

San Juan County

Special Provisions

May 11, 2018

1 **INTRODUCTION TO THE SPECIAL PROVISIONS**

2
3 *(August 14, 2013 APWA GSP)*

4 The work on this project shall be accomplished in accordance with the *Standard*
5 *Specifications for Road, Bridge and Municipal Construction*, 2018 edition, as issued by the
6 Washington State Department of Transportation (WSDOT) and the American Public Works
7 Association (APWA), Washington State Chapter (hereafter “Standard Specifications”). The
8 Standard Specifications, as modified or supplemented by the Amendments to the Standard
9 Specifications and these Special Provisions, all of which are made a part of the Contract
10 Documents, shall govern all of the Work.

11
12 These Special Provisions are made up of both General Special Provisions (GSPs) from
13 various sources, which may have project-specific fill-ins; and project-specific Special
14 Provisions. Each Provision either supplements, modifies, or replaces the comparable
15 Standard Specification, or is a new Provision. The deletion, amendment, alteration, or
16 addition to any subsection or portion of the Standard Specifications is meant to pertain only
17 to that particular portion of the section, and in no way should it be interpreted that the
18 balance of the section does not apply.

19
20 The project-specific Special Provisions are not labeled as such. The GSPs are labeled
21 under the headers of each GSP, with the effective date of the GSP and its source. For
22 example:

- 23
24 *(March 8, 2013 APWA GSP)*
25 *(April 1, 2013 WSDOT GSP)*
26 *(*****) Notes a Project Specific Special Provision*
27

28 Also incorporated into the Contract Documents by reference are:

- 29 • *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently
30 adopted edition, with Washington State modifications, if any
31 • *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA,
32 current edition
33 • Redi-Rock Design Resource Manual, Redi-Rock International LLC. Issue Date:
34 March 31,2016 - Form No. RRI-001-033116DRM. Available online at:
35 [https://www.redi-rock.com/documents/Engineering/DRM/Redi-Rock-Design-](https://www.redi-rock.com/documents/Engineering/DRM/Redi-Rock-Design-Resource-Manual-Complete.pdf)
36 [Resource-Manual-Complete.pdf](https://www.redi-rock.com/documents/Engineering/DRM/Redi-Rock-Design-Resource-Manual-Complete.pdf)
37

38 Contractor shall obtain copies of these publications, at Contractor’s own expense.
39
40

**DIVISION 1
GENERAL REQUIREMENTS**

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

This Contract provides for the improvement of *** pedestrian facilities near the State ferry terminal on Orcas Island. Work includes constructing gravity block retaining wall, concrete ramp and handrails, concrete driveway, utility relocation, removal of structures and obstructions, clearing, grading, rock excavation *** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions

(January 4, 2016 APWA GSP)

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

Dates

Bid Opening Date

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

Award Date

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

Contract Execution Date

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

Notice to Proceed Date

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

Substantial Completion Date

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

Physical Completion Date

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

Completion Date

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

Final Acceptance Date

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

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions, to the terms "Department of Transportation", "Washington State

1 Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”,
2 “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.
3

4 All references to the terms “State” or “state” shall be revised to read “Contracting
5 Agency” unless the reference is to an administrative agency of the State of Washington,
6 a State statute or regulation, or the context reasonably indicates otherwise.
7

8 All references to “State Materials Laboratory” shall be revised to read “Contracting
9 Agency designated location”.
10

11 All references to “final contract voucher certification” shall be interpreted to mean the
12 Contracting Agency form(s) by which final payment is authorized, and final completion
13 and acceptance granted.
14

15 **Additive**

16 A supplemental unit of work or group of bid items, identified separately in the Bid
17 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
18 to the base bid.
19

20 **Alternate**

21 One of two or more units of work or groups of bid items, identified separately in the Bid
22 Proposal, from which the Contracting Agency may make a choice between different
23 methods or material of construction for performing the same work.
24

25 **Business Day**

26 A business day is any day from Monday through Friday except holidays as listed in
27 Section 1-08.5.
28

29 **Contract Bond**

30 The definition in the Standard Specifications for “Contract Bond” applies to whatever
31 bond form(s) are required by the Contract Documents, which may be a combination of a
32 Payment Bond and a Performance Bond.
33

34 **Contract Documents**

35 See definition for “Contract”.
36

37 **Contract Time**

38 The period of time established by the terms and conditions of the Contract within which
39 the Work must be physically completed.
40

41 **Notice of Award**

42 The written notice from the Contracting Agency to the successful Bidder signifying the
43 Contracting Agency’s acceptance of the Bid Proposal.
44

45 **Notice to Proceed**

46 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
47 and directing the Contractor to proceed with the Work and establishing the date on which
48 the Contract time begins.
49

50 **Traffic**

51 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
52 equestrian traffic.

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

2

3 **1-02.1 Prequalification of Bidders**

4

5 *(January 24, 2011 APWA GSP)*

6 Delete this section and replace it with the following:

7

8 **1-02.1 Qualifications of Bidder**

9

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

13

14 **1-02.2 Plans and Specifications**

15

16 *(June 27, 2011 APWA GSP)*

17 Delete this section and replace it with the following:

18

19 Information as to where Bid Documents can be obtained or reviewed can be found in the
20 Call for Bids (Advertisement for Bids) for the work.

21

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

24

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	3	Furnished automatically upon award.
Contract Provisions	3	Furnished automatically upon award.
Large plans (22" x 34")	2	Furnished only upon request.

25

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

28

29 **1-02.4 Examinations of Plans, Specifications, and Site of Work**

30

31 **1-02.4(1) General**

32

33 *(August 15, 2016 APWA GSP Option A)*

34

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

36

37 Any prospective Bidder desiring an explanation or interpretation of the Bid
38 Documents, must request the explanation or interpretation in writing soon enough to
39 allow a written reply to reach all prospective Bidders before the submission of their
40 Bids.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1-02.4(2) Subsurface Information

(March 8, 2013 APWA GSP)

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

The Summary of Geotechnical Conditions and the boring logs, if and when included as an appendix to the Special Provisions, shall be considered as part of the Contract.

1-02.5 Proposal Forms

(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

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

1-02.6 Preparation of Proposal

(June 20, 2017 APWA GSP)

Section 1-02.6 is supplemented with the following:

Supplement the second paragraph with the following:

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

Delete the fourth paragraph and replace it with the following:

The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that UDBE firm that the UDBE is in agreement with the UDBE participation commitment that the Bidder has made in the Bidder's completed Underutilized

1 Disadvantaged Business Enterprise Utilization Certification. WSDOT [Form 422-031U](#)
2 (Underutilized Disadvantaged Business Enterprise Written Confirmation Document) is to
3 be used for this purpose. Bidder must submit good faith effort documentation with the
4 Underutilized Disadvantaged Business Enterprise Utilization Certification only in the
5 event the bidder's efforts to solicit sufficient UDBE participation have been unsuccessful.
6 Directions for delivery of the Underutilized Disadvantaged Business Enterprise Written
7 Confirmation Documents and Underutilized Disadvantaged Business Enterprise Good
8 Faith Effort documentation are included in Sections 1-02.9
9

10 Delete the last paragraph, and replace it with the following:

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

12
13 A bid by a corporation shall be executed in the corporate name, by the president or a
14 vice president (or other corporate officer accompanied by evidence of authority to sign).
15

16
17 A bid by a partnership shall be executed in the partnership name, and signed by a
18 partner. A copy of the partnership agreement shall be submitted with the Bid Form if any
19 UDBE requirements are to be satisfied through such an agreement.
20

21 A bid by a joint venture shall be executed in the joint venture name and signed by a
22 member of the joint venture. A copy of the joint venture agreement shall be submitted
23 with the Bid Form if any UDBE requirements are to be satisfied through such an
24 agreement.
25

26 **1-02.7 Bid Deposit**

27
28 *(March 8, 2013 APWA GSP)*

29 Supplement this section with the following:

30 Bid bonds shall contain the following:

- 31
- 32 1. Contracting Agency-assigned number for the project;
 - 33 2. Name of the project;
 - 34 3. The Contracting Agency named as obligee;
 - 35 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
36 represents five percent of the maximum bid amount that could be awarded;
 - 37 5. Signature of the bidder's officer empowered to sign official statements. The signature
38 of the person authorized to submit the bid should agree with the signature on the
39 bond, and the title of the person must accompany the said signature;
 - 40 6. The signature of the surety's officer empowered to sign the bond and the power of
41 attorney.
42

43 If so stated in the Contract Provisions, bidder must use the bond form included in the
44 Contract Provisions.
45

46 *(*****)*

47 The Bidder must use the bond form included in the Contract Provisions.
48

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52

(*****)

Cash will not be accepted for a bid deposit.

1-02.9 Delivery of Proposal

(July 31, 2017 APWA GSP, Option A)

Delete this section and replace it with the following:

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

If the project has FHWA funding and requires UDBE Written Confirmation Document(s) or Good Faith Effort (GFE) Documentation, then to be considered responsive, the Bidder shall submit Written Confirmation Documentation from each UDBE firm listed on the Bidder’s completed UDBE Utilization Certification, form 272-056U, as required by Section 1-02.6. The UDBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The document(s) shall be received no later than 24 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

The Bidder shall submit to the Contracting Agency a signed “Certification of Compliance with Wage Payment Statutes” document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1) (g), as required per Section 1-02.14. The “Certification of Compliance with Wage Payment Statutes” document shall be received either with the Bid Proposal or no later than 24 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted in a sealed envelope labeled the same as for the Proposal, with “Supplemental Information” added. All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any “Supplemental Information” (UDBE confirmations, GFE documentation, or Certification of Compliance with Wage Payment Statutes) that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

1-02.10 Withdrawing, Revising, or Supplementing Proposal

(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

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

- 1 1. The Bidder submits a written request signed by an authorized person and
- 2 physically delivers it to the place designated for receipt of Bid Proposals, and
- 3 2. The Contracting Agency receives the request before the time set for receipt of
- 4 Bid Proposals, and
- 5 3. The revised or supplemented Bid Proposal (if any) is received by the
- 6 Contracting Agency before the time set for receipt of Bid Proposals.
- 7

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

13
14 Late revised or supplemented Bid Proposals or late withdrawal requests will be date
15 recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed
16 requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

18 **1-02.13 Irregular Proposals**

19
20 *(June 20, 2017 APWA GSP)*

21 Delete this section and replace it with the following:

- 22
23 1. A Proposal will be considered irregular and will be rejected if:
 - 24 a. The Bidder is not prequalified when so required;
 - 25 b. The authorized Proposal form furnished by the Contracting Agency is not
 - 26 used or is altered;
 - 27 c. The completed Proposal form contains any unauthorized additions, deletions,
 - 28 alternate Bids, or conditions;
 - 29 d. The Bidder adds provisions reserving the right to reject or accept the award,
 - 30 or enter into the Contract;
 - 31 e. A price per unit cannot be determined from the Bid Proposal;
 - 32 f. The Proposal form is not properly executed;
 - 33 g. The Bidder fails to submit or properly complete a Subcontractor list, if
 - 34 applicable, as required in Section 1-02.6;
 - 35 h. The Bidder fails to submit or properly complete an Underutilized
 - 36 Disadvantaged Business Enterprise Certification, if applicable, as required in
 - 37 Section 1-02.6;
 - 38 i. The Bidder fails to submit written confirmation from each UDBE firm listed on
 - 39 the Bidder's completed UDBE Utilization Certification that they are in
 - 40 agreement with the bidder's UDBE participation commitment, if applicable, as
 - 41 required in Section 1-02.6, or if the written confirmation that is submitted fails
 - 42 to meet the requirements of the Special Provisions;
 - 43 j. The Bidder fails to submit UDBE Good Faith Effort documentation, if
 - 44 applicable, as required in Section 1-02.6, or if the documentation that is
 - 45 submitted fails to demonstrate that a Good Faith Effort to meet the Condition
 - 46 of Award was made;
 - 47 k. The Bid Proposal does not constitute a definite and unqualified offer to meet
 - 48 the material terms of the Bid invitation; or
 - 49 l. More than one Proposal is submitted for the same project from a Bidder
 - 50 under the same or different names.
- 51
52 2. A Proposal may be considered irregular and may be rejected if:

- 1 a. The Proposal does not include a unit price for every Bid item;
- 2 b. Any of the unit prices are excessively unbalanced (either above or below the
- 3 amount of a reasonable Bid) to the potential detriment of the Contracting
- 4 Agency;
- 5 c. Receipt of Addenda is not acknowledged;
- 6 d. A member of a joint venture or partnership and the joint venture or
- 7 partnership submit Proposals for the same project (in such an instance, both
- 8 Bids may be rejected); or
- 9 e. If Proposal form entries are not made in ink.

10
11 **1-02.14 Disqualification of Bidders**

12
13 *(July 31, 2017 APWA GSP, Option A)*

14 Delete this section and replace it with the following:

15
16 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory
17 bidder responsibility criteria in RCW 39.04.350(1), as amended.

18
19 The Contracting Agency will verify that the Bidder meets the mandatory bidder
20 responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the
21 Contracting Agency reserves the right to request documentation as needed from the
22 Bidder and third parties concerning the Bidder's compliance with the mandatory bidder
23 responsibility criteria.

24
25 The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance
26 with Wage Payment Statutes", document where the Bidder under penalty of perjury
27 verifies that the Bidder is in compliance with responsible bidder criteria in RCW
28 39.04.350 subsection (1)(g). A form appropriate for "Certification of Compliance with
29 Wage Payment Statutes" will be provided by the Contracting Agency in the Bid
30 Documents. The form provided in the Bid Documents shall be submitted with the Bid as
31 stated in Section 1-02.9.

32
33 If the Contracting Agency determines the Bidder does not meet the mandatory bidder
34 responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the
35 Contracting Agency shall notify the Bidder in writing, with the reasons for its
36 determination. If the Bidder disagrees with this determination, it may appeal the
37 determination within two (2) business days of the Contracting Agency's determination by
38 presenting its appeal and any additional information to the Contracting Agency. The
39 Contracting Agency will consider the appeal and any additional information before
40 issuing its final determination. If the final determination affirms that the Bidder is not
41 responsible, the Contracting Agency will not execute a contract with any other Bidder
42 until at least two business days after the Bidder determined to be not responsible has
43 received the Contracting Agency's final determination.

44

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

2

3 **1-03.1 Consideration of Bids**

4

5 *(January 23, 2006 APWA GSP)*

6 Revise the first paragraph to read:

7

8 After opening and reading proposals, the Contracting Agency will check them for
9 correctness of extensions of the prices per unit and the total price. If a discrepancy
10 exists between the price per unit and the extended amount of any bid item, the price per
11 unit will control. If a minimum bid amount has been established for any item and the
12 bidder's unit or lump sum price is less than the minimum specified amount, the
13 Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum
14 specified amount and recalculate the extension. The total of extensions, corrected
15 where necessary, including sales taxes where applicable and such additives and/or
16 alternates as selected by the Contracting Agency, will be used by the Contracting
17 Agency for award purposes and to fix the Awarded Contract Price amount and the
18 amount of the contract bond.

19

20 **1-03.3 Execution of Contract**

21

22 *(October 1, 2005 APWA GSP)*

23 Revise this section to read:

24

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

29

30 Within *** 20 *** calendar days after the award date, the successful bidder shall return
31 the signed Contracting Agency-prepared contract, an insurance certification as required
32 by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4.
33 Before execution of the contract by the Contracting Agency, the successful bidder shall
34 provide any pre-award information the Contracting Agency may require under Section 1-
35 02.15.

36

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

41

42 If the bidder experiences circumstances beyond their control that prevents return of the
43 contract documents within the calendar days after the award date stated above, the
44 Contracting Agency may grant up to a maximum of *** 20 *** additional calendar days
45 for return of the documents, provided the Contracting Agency deems the circumstances
46 warrant it.

47

48 **1-03.4 Contract Bond**

49

50 *(July 23, 2015 APWA GSP)*

51 Delete the first paragraph and replace it with the following:

52

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

31
32 **1-03.7 Judicial Review**

33
34 *(July 23, 2015 APWA GSP)*

35 Revise this section to read:

36
37 Any decision made by the Contracting Agency regarding the Award and execution of the
38 Contract or Bid rejection shall be conclusive subject to the scope of judicial review
39 permitted under Washington Law. Such review, if any, shall be timely filed in the
40 Superior Court of the county where the Contracting Agency headquarters is located,
41 provided that where an action is asserted against a county, RCW 36.01.05 shall control
42 venue and jurisdiction.
43
44

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

2

3 **1-04.6 Variation in Estimated Quantities**

4

5 *(May 25, 2006 APWA GSP)*

6 Supplement this section with the following:

7

8 The quantities for "ROCK BREAKING", "STRUCTURE EXCAVATION CLASS B INCL.
9 HAUL" and "BACKFILL FOR ROCK WALLS" have been entered into the Proposal only
10 to provide a common proposal for bidders. Actual quantities will be determined in the
11 field as the work progresses, and will be paid at the original bid price, regardless of final
12 quantity. These bid items shall not be subject to the provisions of 1-04.6 of the Standard
13 Specifications.

14

15

1 **1-05 CONTROL OF WORK**

2

3 **1-05.4 Conformity With and Deviations From Plans and Stakes**

4

5 Section 1-05.4 is supplemented with the following:

6

7 *(August 7, 2017 WSDOT GSP)*

8

9

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

10

11

12

13

14

15

16

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

17

18

19

20

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

21

22

23

24

25

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

26

27

28

29

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

30

31

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

32

33

34

35

36

37

38

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

39

40

41

2. Establish, by placing hubs and/or marked stakes, the location with offsets of foundation shafts and piles.

42

43

3. Establish offsets to footing centerline of bearing for structure excavation.

44

45

4. Establish offsets to footing centerline of bearing for footing forms.

46

47

5. Establish wing wall, retaining wall, and noise wall horizontal alignment.

48

49

6. Establish retaining wall top of wall profile grade.

50

51

7. Establish elevation benchmarks for all substructure formwork.

- 1 8. Check elevations at top of footing concrete line inside footing formwork
- 2 immediately prior to concrete placement.
- 3
- 4 9. Check column location and pier centerline of bearing at top of footing
- 5 immediately prior to concrete placement.
- 6
- 7 10. Establish location and plumbness of column forms, and monitor column
- 8 plumbness during concrete placement.
- 9
- 10 11. Establish pier cap and crossbeam top and bottom elevations and centerline of
- 11 bearing.
- 12
- 13 12. Check pier cap and crossbeam top and bottom elevations and centerline of
- 14 bearing prior to and during concrete placement.
- 15
- 16 13. Establish grout pad locations and elevations.
- 17
- 18 14. Establish structure bearing locations and elevations, including locations of
- 19 anchor bolt assemblies.
- 20
- 21 15. Establish box girder bottom slab grades and locations.
- 22
- 23 16. Establish girder and/or web wall profiles and locations.
- 24
- 25 17. Establish diaphragm locations and centerline of bearing.
- 26
- 27 18. Establish roadway slab alignment, grades and provide dimensions from top of
- 28 girder to top of roadway slab. Set elevations for deck paving machine rails.
- 29
- 30 19. Establish traffic barrier and curb profile.
- 31
- 32 20. Profile all girders prior to the placement of any deadload or construction live
- 33 load that may affect the girder's profile.
- 34

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

37
38 To facilitate the establishment of these lines and elevations, the Contracting Agency will
39 provide the Contractor with the following primary survey and control information:

- 40
- 41 1. Descriptions of two primary control points used for the horizontal and vertical
- 42 control. Primary control points will be described by reference to the project
- 43 alignment and the coordinate system and elevation datum utilized by the
- 44 project. In addition, the Contracting Agency will supply horizontal coordinates
- 45 for the beginning and ending points and for each Point of Intersection (PI) on
- 46 each alignment included in the project.
- 47
- 48 2. Horizontal coordinates for the centerline of each bridge pier.
- 49
- 50 3. Computed elevations at top of bridge roadway decks at one-tenth points along
- 51 centerline of each girder web. All form grades and other working grades shall
- 52 be calculated by the Contractor.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48

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

	<u>Vertical</u>	<u>Horizontal</u>
1. Stationing on structures		±0.02 feet
2. Alignment on structures		±0.02 feet
3. Superstructure elevations	±0.01 feet variation from plan elevation	
4. Substructure	±0.02 feet variation from Plan grades.	

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

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

- Piles
- Shafts
- Footings
- Columns

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

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

Payment

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

"Structure Surveying", lump sum.

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

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

2
3 *(October 1, 2005 APWA GSP)*

4 Supplement this section with the following:

5
6 If the Contractor fails to remedy defective or unauthorized work within the time specified
7 in a written notice from the Engineer, or fails to perform any part of the work required by
8 the Contract Documents, the Engineer may correct and remedy such work as may be
9 identified in the written notice, with Contracting Agency forces or by such other means as
10 the Contracting Agency may deem necessary.

11
12 If the Contractor fails to comply with a written order to remedy what the Engineer
13 determines to be an emergency situation, the Engineer may have the defective and
14 unauthorized work corrected immediately, have the rejected work removed and replaced,
15 or have work the Contractor refuses to perform completed by using Contracting Agency
16 or other forces. An emergency situation is any situation when, in the opinion of the
17 Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk
18 of loss or damage to the public.

19
20 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
21 remedying defective or unauthorized work, or work the Contractor failed or refused to
22 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
23 monies due, or to become due, the Contractor. Such direct and indirect costs shall
24 include in particular, but without limitation, compensation for additional professional
25 services required, and costs for repair and replacement of work of others destroyed or
26 damaged by correction, removal, or replacement of the Contractor's unauthorized work.

27
28 No adjustment in contract time or compensation will be allowed because of the delay in
29 the performance of the work attributable to the exercise of the Contracting Agency's
30 rights provided by this Section.

31
32 The rights exercised under the provisions of this section shall not diminish the
33 Contracting Agency's right to pursue any other avenue for additional remedy or damages
34 with respect to the Contractor's failure to perform the work as required.

35
36
37 **1-05.11 Final Inspection**

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

40
41 **1-05.11 Final Inspections and Operational Testing**

42 *(October 1, 2005 APWA GSP)*

43
44 **1-05.11(1) Substantial Completion Date**

45
46 When the Contractor considers the work to be substantially complete, the Contractor
47 shall so notify the Engineer and request the Engineer establish the Substantial
48 Completion Date. The Contractor's request shall list the specific items of work that
49 remain to be completed in order to reach physical completion. The Engineer will
50 schedule an inspection of the work with the Contractor to determine the status of
51 completion. The Engineer may also establish the Substantial Completion Date
52 unilaterally.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52

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

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

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

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

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

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

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

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

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final

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

11
12 The costs for power, gas, labor, material, supplies, and everything else needed to
13 successfully complete operational testing, shall be included in the unit contract prices
14 related to the system being tested, unless specifically set forth otherwise in the proposal.

15
16 Operational and test periods, when required by the Engineer, shall not affect a
17 manufacturer's guaranties or warranties furnished under the terms of the contract.

18
19 **1-05.13 Superintendents, Labor and Equipment of Contractor**

20
21 *(August 14, 2013 APWA GSP)*

22 Delete the sixth and seventh paragraphs of this section.

23
24 Add the following new section:

25
26 **1-05.16 Water and Power**

27
28 *(October 1, 2005 APWA GSP)*

29
30 The Contractor shall make necessary arrangements, and shall bear the costs for power
31 and water necessary for the performance of the work, unless the contract includes power
32 and water as a pay item.
33

1 **1-06 CONTROL OF MATERIAL**

2

3 **1-06.6 Recycled Materials**

4

5 Delete this section, including its subsections, and replace it with the following:

6

7 *(January 4, 2016 APWA GSP)*

8

9

10

11

12

13

14

15

16

17

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

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

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

2

3 **1-07.17 Utilities and Similar Facilities**

4

5 Section 1-07.17 is supplemented with the following:

6

7 *(April 2, 2007 WSDOT GSP)*

8

9 Locations and dimensions shown in the Plans for existing facilities are in accordance

10

11 with available information obtained without uncovering, measuring, or other verification.

12

13 Public and private utilities, or their Contractors, will furnish all work necessary to adjust,

14

15 relocate, replace, or construct their facilities unless otherwise provided for in the Plans or

16

17 these Special Provisions. Such adjustment, relocation, replacement, or construction will

18

19 be done during the prosecution of the work for this project. It is anticipated that utility

20

21 adjustment, relocation, replacement or construction within the project limits will be

22

23 completed as follows:

24

25

26 The Contractor shall attend a mandatory utility preconstruction meeting with the

27

28 Engineer, all affected Subcontractors, and all utility owners and their Contractors prior to

29

30 beginning onsite work.

31

32 The following addresses and telephone numbers of utility companies or their Contractors

33

34 that will be adjusting, relocating, replacing or constructing utilities within the project limits

35

36 are supplied for the Contractor's use:

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

(*****)

(*****)

1. OPALCO (Orcas Power and Light Company)
Electric, Fiber Optic
Main Phone: (360) 376-3500
Dan Vekved, Desk: (360) 376-3591
2. Rock Island Communications
Fiber Optic
Main Phone: (360) 378-5884
Alan Smith, Mobile: (360) 622-6232
3. Century Link
Fiber Optic, Telecommunications
Main Phone: (888) 723-8010
Scott Coffinger, Office: (360) 647-4484
4. Eastsound Sewer and Water District
Sewer
Main Phone: (360) 376-2720
Roy Light, Cell:(360) 376-4530

1
2
3
4
5
6
7
8
9
10

5. Orcas Landing Inc.
Class A Water Utility
Richard Fralick, Cell (360) 317-8292

6. Bangs Trust
Class A Water Utility
Bob Eagan, Office: (360) 376-2769

1 **1-08 PROSECUTION AND PROGRESS**

2

3 *(May 25, 2006 APWA GSP)*

4 Add the following new section:

5

6 **1-08.0 Preliminary Matters**

7

8 *(October 10, 2008 APWA GSP)*

9 Add the following new section:

10

11 **1-08.0(1) Preconstruction Conference**

12

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

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

24

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

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

29

30 *(December 8, 2014 APWA GSP)*

31 Add the following new section:

32

33 **1-08.0(2) Hours of Work**

34

35 Except in the case of emergency or unless otherwise approved by the Engineer, the
36 normal working hours for the Contract shall be any consecutive 8-hour period between
37 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the
38 Contractor desires different than the normal working hours stated above, the request
39 must be submitted in writing prior to the preconstruction conference, subject to the
40 provisions below. The working hours for the Contract shall be established at or prior to
41 the preconstruction conference.

42

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

45

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

51

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

20
21 **1-08.1 Subcontracting**
22

23 The eighth and ninth paragraphs are revised to read:

24
25 *(February 16, 2018 APWA GSP)*

26 On all projects, the Contractor shall certify to the actual amount received from the
27 Contracting Agency and amounts paid to all firms that were used as Subcontractors, lower
28 tier subcontractors, manufacturers, regular dealers, or service providers on the Contract.
29 This includes all Disadvantaged, Minority, Small, Veteran or Women's Business Enterprise
30 firms. This Certification shall be submitted to the Engineer on a monthly basis each month
31 between Execution of the Contract and Physical Completion of the Contract using the
32 application available at: <https://wsdot.diversitycompliance.com>. A monthly report shall be
33 submitted for every month between Execution of the Contract and Physical Completion
34 regardless of whether payments were made or work occurred.

35
36 The Contractor shall comply with the requirements of RCW 39.04.250, 39.76.011,
37 39.76.020, and 39.76.040, in particular regarding prompt payment to Subcontractors.
38 Whenever the Contractor withholds payment to a Subcontractor for any reason including
39 disputed amounts, the Contractor shall provide notice within 10 calendar days to the
40 Subcontractor with a copy to the Contracting Agency identifying the reason for the
41 withholding and a clear description of what the Subcontractor must do to have the
42 withholding released. Retainage withheld by the Contractor prior to completion of the
43 Subcontractors work is exempt from reporting as a payment withheld and is not included in
44 the withheld amount. The Contracting Agency's copy of the notice to Subcontractor for
45 deferred payments shall be submitted to the Engineer concurrently with notification to the
46 Subcontractor.

47
48 **1-08.3(2)A Type A Progress Schedule**

49
50 Revise this section to read:

51
52 *(March 13, 2012 APWA GSP)*

1 The Contractor shall submit *** 2 *** copies of a Type A Progress Schedule no later than
2 at the preconstruction conference, or some other mutually agreed upon submittal time.
3 The schedule may be a critical path method (CPM) schedule, bar chart, or other
4 standard schedule format. Regardless of which format used, the schedule shall identify
5 the critical path. The Engineer will evaluate the Type A Progress Schedule and approve
6 or return the schedule for corrections within 15 calendar days of receiving the submittal.

7
8 **1-08.4 Prosecution of Work**

9
10 Delete this section and replace it with the following:

11
12 *(July 23, 2015 APWA GSP)*

13 **1-08.4 Notice to Proceed and Prosecution of Work**

14
15 Notice to Proceed will be given after the contract has been executed and the contract
16 bond and evidence of insurance have been approved and filed by the Contracting
17 Agency. The Contractor shall not commence with the work until the Notice to Proceed
18 has been given by the Engineer. The Contractor shall commence construction activities
19 on the project site within ten days of the Notice to Proceed Date, unless otherwise
20 approved in writing. The Contractor shall diligently pursue the work to the physical
21 completion date within the time specified in the contract. Voluntary shutdown or slowing
22 of operations by the Contractor shall not relieve the Contractor of the responsibility to
23 complete the work within the time(s) specified in the contract.

24
25 When shown in the Plans, the first order of work shall be the installation of high visibility
26 fencing to delineate all areas for protection or restoration, as described in the Contract.
27 Installation of high visibility fencing adjacent to the roadway shall occur after the
28 placement of all necessary signs and traffic control devices in accordance with 1-10.1(2).
29 Upon construction of the fencing, the Contractor shall request the Engineer to inspect the
30 fence. No other work shall be performed on the site until the Contracting Agency has
31 accepted the installation of high visibility fencing, as described in the Contract.

32
33 **1-08.5 Time for Completion**

34
35 Revise the third and fourth paragraphs to read:

36
37 *(September 12, 2016 APWA GSP, Option A)*

38 Contract time shall begin on the first working day following the Notice to Proceed Date.

39
40 Each working day shall be charged to the contract as it occurs, until the contract work is
41 physically complete. If substantial completion has been granted and all the authorized
42 working days have been used, charging of working days will cease. Each week the
43 Engineer will provide the Contractor a statement that shows the number of working days:
44 (1) charged to the contract the week before; (2) specified for the physical completion of
45 the contract; and (3) remaining for the physical completion of the contract. The
46 statement will also show the nonworking days and any partial or whole day the Engineer
47 declares as unworkable. Within 10 calendar days after the date of each statement, the
48 Contractor shall file a written protest of any alleged discrepancies in it. To be considered
49 by the Engineer, the protest shall be in sufficient detail to enable the Engineer to
50 ascertain the basis and amount of time disputed. By not filing such detailed protest in
51 that period, the Contractor shall be deemed as having accepted the statement as
52 correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10

1 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be
2 charged as a working day then the fifth day of that week will be charged as a working
3 day whether or not the Contractor works on that day.
4

5 Revise the sixth paragraph to read:
6

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

- 11 1. The physical work on the project must be complete; and
- 12 2. The Contractor must furnish all documentation required by the contract and
13 required by law, to allow the Contracting Agency to process final acceptance of
14 the contract. The following documents must be received by the Project Engineer
15 prior to establishing a completion date:
 - 16 a. Certified Payrolls (per Section 1-07.9(5)).
 - 17 b. Material Acceptance Certification Documents
 - 18 c. Monthly Reports of Amounts Credited as DBE Participation, as required by
19 the Contract Provisions.
 - 20 d. Final Contract Voucher Certification
 - 21 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
22 and all Subcontractors
 - 23 f. Property owner releases per Section 1-07.24

24
25
26
27 **Section 1-08.5**

28 is supplemented with the following:
29

30
31 *(March 13, 1995 WSDOT GSP)*

32 This project shall be physically completed within *** 40 *** working days.
33

34 **1-08.9 Liquidated Damages**
35

36 Revise the fourth paragraph to read:
37

38 *(August 14, 2013 APWA GSP)*

39 When the Contract Work has progressed to Substantial Completion as defined in the
40 Contract, the Engineer may determine that the work is Substantially Complete. The
41 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
42 overruns in Contract time occurring after the date so established, the formula for
43 liquidated damages shown above will not apply. For overruns in Contract time occurring
44 after the Substantial Completion Date, liquidated damages shall be assessed on the
45 basis of direct engineering and related costs assignable to the project until the actual
46 Physical Completion Date of all the Contract Work. The Contractor shall complete the
47 remaining Work as promptly as possible. Upon request by the Project Engineer, the
48 Contractor shall furnish a written schedule for completing the physical Work on the
49 Contract.

1 **1-09 MEASUREMENT AND PAYMENT**

2

3 **1-09.2 Weighing Equipment**

4

5 **1-09.2(1) General Requirements for Weighing Equipment**

6

7 Revise item 4 of the fifth paragraph to read:

8

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

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

15

16 **1-09.2(5) Measurement**

17

18 Revise the first paragraph to read:

19

20 *(May 2, 2017 APWA GSP)*

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

24

25 **1-09.6 Force Account**

26

27 Supplement this section with the following:

28

29 *(October 10, 2008 APWA GSP)*

- 30 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
- 31 all items to be paid per force account, only to provide a common proposal for Bidders.
- 32 All such dollar amounts are to become a part of Contractor's total bid. However, the
- 33 Contracting Agency does not warrant expressly or by implication, that the actual amount
- 34 of work will correspond with those estimates. Payment will be made on the basis of the
- 35 amount of work actually authorized by Engineer.

36

37 **1-09.11(3) Time Limitation and Jurisdiction**

38

39 Revise this section to read:

40

41 *(July 23, 2015 APWA GSP)*

- 42 For the convenience of the parties to the Contract it is mutually agreed by the parties that
- 43 any claims or causes of action which the Contractor has against the Contracting Agency
- 44 arising from the Contract shall be brought within 180 calendar days from the date of final
- 45 acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further
- 46 agreed that any such claims or causes of action shall be brought only in the Superior
- 47 Court of the county where the Contracting Agency headquarters is located, provided
- 48 that where an action is asserted against a county, RCW 36.01.05 shall control venue and
- 49 jurisdiction. The parties understand and agree that the Contractor's failure to bring suit
- 50 within the time period provided, shall be a complete bar to any such claims or causes of
- 51 action. It is further mutually agreed by the parties that when any claims or causes of
- 52 action which the Contractor asserts against the Contracting Agency arising from the

1 Contract are filed with the Contracting Agency or initiated in court, the Contractor shall
2 permit the Contracting Agency to have timely access to any records deemed necessary
3 by the Contracting Agency to assist in evaluating the claims or action.
4

5 **1-09.13(3)A Administration of Arbitration**

6
7 Revise the third paragraph to read:
8

9 *(July 23, 2015 APWA GSP)*
10 The Contracting Agency and the Contractor mutually agree to be bound by the decision
11 of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered
12 in the Superior Court of the county in which the Contracting Agency's headquarters is
13 located, provided that where claims subject to arbitration are asserted against a county,
14 RCW 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of
15 the arbitrator and the specific basis for the decision shall be in writing. The arbitrator
16 shall use the Contract as a basis for decisions.

1 **1-10 TEMPORARY TRAFFIC CONTROL**

2

3 **1-10.2 Traffic Control Management**

4

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

6

7 *(January 3, 2017 WSDOT GSP)*

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

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

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

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778

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

**DIVISION 2
EARTHWORK**

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.2 Disposal of Usable Material and Debris

2-01.2(1) Disposal Method No. 1 – Open Burning

Section 2-01.2(1) is supplemented with the following:

(*****)

Onsite burning is not permitted

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description

Section 2-02.1 is supplemented with the following:

(*****)

Work shall include the following items as shown in the Plans in the following approximate quantities:

- A. Removal and disposal of pavement:
Orcas Landing Driveway: Approx. 450 S.F. of concrete
- B. Removal and disposal of storm drain:
4" drainpipe from existing rockery underdrain to catch basin: approx. 25 LF
- C. Removal and disposal of storm drain:
4" perforated underdrain pipe for rockery: approx. 25 LF
- D. Removal and disposal of concrete structures around viewing deck:
Conc. pad parallel to existing wooden deck: approx. 60 SF
Wooden platforms and conc. pad in bedrock bank above deck: approx. 34 SF
Conc. Block in bank adjacent to wooden stairs and walkway: approx. 6 SF
- E. Removal and disposal of Wooden Stair Case:
Structure including fence, railing, walkway and support structure: approx. 30 LF
- F. Removal and disposal of Wooden Deck:
Structure including all wooden decking adjacent to concrete shed: approx. 1,000 SF
- G. Removal of Rockery adjacent to existing block retaining wall:
Structure including existing rockery: approx. 28 CU. YD.

1 **2-03 ROADWAY EXCAVATION AND EMBANKMENT**

2

3 **2-03.3 Construction Requirements**

4

5 Add the following new section:

6

7 (*****)

8

2-03.3(20) Rock Breaking

9

10 Rock breaking shall, when necessary, provide for the initial fracturing of rock that is
11 required prior to its excavation. Rock breaking includes controlled blasting, hydraulic rock
12 hammering or other means approved by the Engineer. Rock breaking shall also include
13 the breaking of boulders prior to excavation as identified by the Engineer.

14

15 Rock breaking does not include the excavation, hauling, compaction or other further
16 handling of the material.

17

18 For this work, hardpan, hard clay, glacial till, sandstone, siltstone, shale, or other
19 sedimentary rocks, which are soft, weathered, or extensively fissured will not be
20 classified as rock. Rock is defined as one that has a modulus of elasticity of more than
21 200,000 psi or unconfined compressive strength at field moisture content of more than
22 2,000 psi.

23

24 The Contractor shall provide the Engineer with two full working days' notice prior to
25 performing any rock breaking by clearly identifying the areas where rock breaking is
26 proposed. The Engineer, after verifying that the rock is meeting the specifications of this
27 section, will order a topographical survey of the site to be performed, at no expense to
28 the Contractor, for measurement in accordance with Section 2-03.4. If no prior
29 excavation has been performed in the identified area, the Engineer may choose to use
30 the existing ground measurement performed in accordance with Section 2-03.4.

31

32 Upon request, the Engineer will provide the Contractor with the topographical data
33 collected in accordance with this Section in a readily available digital format.

34

35 **2-03.4 Measurement**

36

37 Section 2-03.4 is supplemented with the following:

38

39 (*****)

40

41 Rock breaking will be measured by the cubic yard, determined by the position and space
42 the rock occupied before the breaking was performed. Quantities will be computed by
43 computer models, and verified manually, by comparing the topographical measurements
44 performed, as described in Section 2-03.2, to the finished elevations shown in the plans.

45

46 **2-03.5 Payment**

47

48 Section 2-03.5 is supplemented with the following:

49

50 (*****)

51

52 "Rock Breaking", per cubic yard.

1
2
3
4
5

The unit Contract price per cubic yard for "Rock Breaking" shall be full payment for all costs to perform the Work as described in Sections 2-03.3.

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

4
5 **7-15 SERVICE CONNECTIONS**

6
7 **7-15.1 Description**

8
9 Section 7-15.1 is supplemented with the following:

10
11 (*****)

12 This Work includes the relocation of the existing water service connection as shown on
13 the Contract Plans.

14
15 **7-15.2 Materials**

16
17 Section 7-15.2 is supplemented with the following:

18
19 (*****)

20 All materials shall be of the types and size specified in the Plans or as required by the
21 Uniform Plumbing Code.

22
23 **7-15.3 Construction Requirements**

24
25 Section 7-15.3 is supplemented with the following:

26
27 (*****)

28 Water service shall be maintained and may not be disrupted during construction except
29 as may be specifically approved by the Engineer for pre-scheduled limited duration
30 cross-overs or other critically necessary interruptions.

31
32 **7-15.5 Payment**

33
34 Section 7-15.5 is supplemented with the following:

35
36 (*****)

37 "Water Utility Relocation", Lump Sum.

38 The Contract Lump Sum price for "Water Service Relocation" shall be full pay for all
39 Work to relocate the existing water service connection, including but not limited to,
40 excavating, laying and jointing the pipe and fittings and appurtenances, backfilling,
41 testing, flushing, and disinfection of the service connection, as well as removal of existing
42 infrastructure as shown in the plans.

**DIVISION 8
MISCELLANEOUS CONSTRUCTION**

8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL

8-20.1 Description

Section 8-20.1 is supplemented with the following:

(*****)

4. Electrical Utility Relocation.

8-20.2 Materials

Section 8-20.2 is supplemented with the following:

(*****)

Electrical utility relocation shall be of the types and size specified in the Contract Plans.

8-20.3 Construction Requirements

Section 8-20.3 is supplemented with the following:

(*****)

Electrical service shall be maintained and may not be disrupted during construction except as may be specifically approved by the Engineer for pre-scheduled limited duration cross-overs or other critically necessary interruptions.

8-20.5 Payment

Section 8-20.5 is supplemented with the following:

(*****)

“Electrical Utility Relocation”, Lump Sum.

The Contract Lump Sum price for “Electrical Utility Relocation” shall be full pay for the construction of the complete electrical system, modifying existing systems, or both, as described above and as shown in the Plans, and herein specified, including excavation, backfilling, concrete foundations, conduit, wiring, restoring facilities destroyed or damaged during construction, salvaging existing materials, and for making all required tests. All additional materials and labor, not shown in the Plans or called for herein and which are required to complete the electrical system, shall be included in the lump sum Contract price.

1 **8-24 ROCK AND GRAVITY BLOCK WALL AND GABION CRIBBING**

2

3 **8-24.3 Construction Requirements**

4

5 Section 8-24.3(2) is supplemented with the following:

6

7

(*****)

8

The Specifications for the construction requirements for "GRAVITY BLOCK WALL" are included in Appendix: A Redi-Rock Specifications.

10

11

12

1 Replace the following section with:

2 (*****)

3

4 **8-26 PEDESTRIAN HANDRAIL**

5

6 **8-26.1 Description**

7

8 This Work shall consist of furnishing and installing pedestrian handrails as shown in the
9 plans.

10

11 **8-26.2 Materials**

12

13 All materials used in the fabrication of pedestrian handrails shall meet the requirements
14 of ASTM B241 or B429 alloy 6061-T6 schedule 40. All aluminum parts shall be given a
15 non-dyed anodic coating meeting MIL-A-8625, Type II, Class 1 at least 1mil (0.025mm)
16 thick and be sealed to meet the requirements of ASTM B136 and shall have a uniform
17 finish. All handrail and guardrail posts shall be 1-1/2 inch diameter aluminum pipe.

18

19 **8-26.3 Construction Requirements**

20

21 The Contractor shall construct the pedestrian handrails as shown in the Plans.
22 Pedestrian handrails shall be installed to the line and grade as shown in the plans or as
23 designated by the Engineer. Rail posts shall be plumb. The Contractor shall make all the
24 necessary field measurements prior to fabrication. All pedestrian handrail surfaces,
25 including welds, shall be smooth. Welding of aluminum shall be in accordance with the
26 Structural Welding Code – Aluminum, AWS D 1.2 (most current version). Rails, posts,
27 and balusters shall be machine cut to provide a uniform length prior to assembly. Each
28 piece shall be shop welded in as large a section as practical to avoid multiple field-
29 welded connections. Provide a heavy coating of asphalt varnish or coal-tar pitch paint
30 (both inside and out) to the portion of aluminum post set into non-shrink grout.

31

32 **8-26.5**

33

34 Pedestrian handrails will be measured by the linear foot along the line and slope of the
35 completed handrail.

36

37 **8-26.5 Payment**

38

39 “Pedestrian Handrail”, per linear foot

40

41 The unit contract price per linear foot for “Pedestrian Handrail” shall be full pay for the
42 fabricating, constructing and installing the pedestrian handrail as specified, including all
43 attachment hardware, anchor bolts, post excavation, grading, finishing, and concrete. All
44 additional materials and labor, not shown in the Plans or called for herein and which are
45 required to complete the pedestrian handrail, shall be included in the linear foot Contract
price.

**DIVISION 9
MATERIALS**

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Contract Plans

(*****)

The Contract Plans consist of the following plan sets:

1. Orcas Landing Marine Facility Improvements
Civil Plans
San Juan County Public Works
Sheets 1 through 7

Appendices

The following appendix is attached and made a part of this contract:

(January 2, 2012 WSDOT GSP)

APPENDIX A: Redi-Rock Specifications

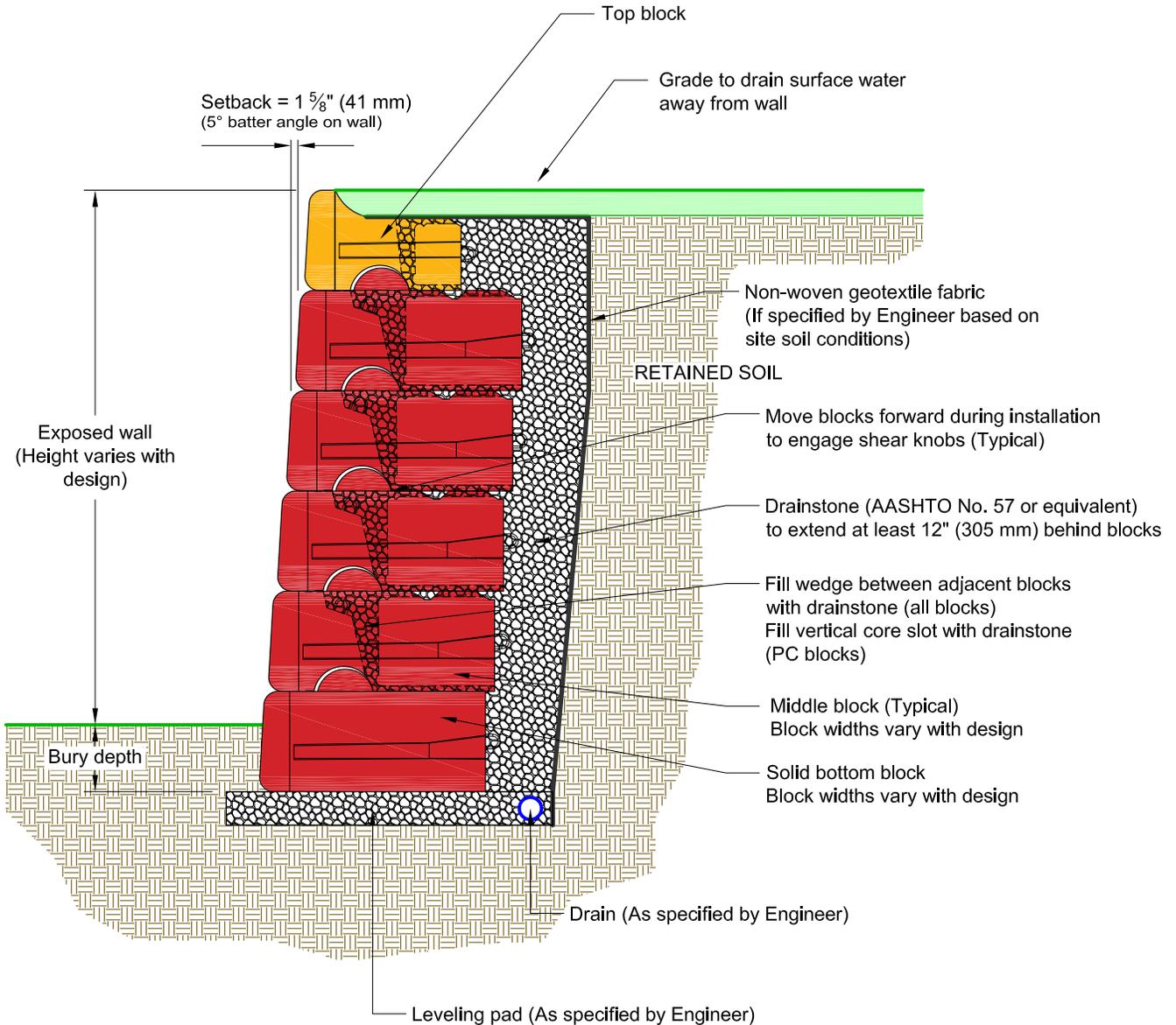
APPENDIX B: WSDOT Geotechnical Memo

APPENDIX C: Washington State Prevailing Wage

APPENDIX A

Redi-Rock Specifications

Typical Gravity Wall Section



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	JRJ	TITLE:	<h1 style="margin: 0;">Typical Gravity Wall Detail</h1>	REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ	FILE:		
DATE:	17MAR2016	1 Typical Gravity Wall Detail 031716.dwg		
SHEET:	1 of 1			

APPENDIX B

WSDOT Geotechnical Memo



November 6, 2015

TO: C. Torres/F. Fiedler
WSF TB-83

FROM: T. M. Allen/J. G. Cuthbertson
Geotechnical Office, 47365

SUBJECT: SR-20 Spur, MP 55.67, XL-4553
Orcas Island Terminal Facility ADA Compliance Improvements
Gravity Block Wall
Geotechnical Recommendations

This memorandum presents the geotechnical recommendations for the subject project at the Orcas Island Ferry Terminal, see Figure 1. The analyses, conclusions, and recommendations presented in this memorandum are based on the project description and site conditions that existed at the time of the field review. We assume the subsurface conditions throughout the project area are consistent with those described in this memorandum. If different subsurface conditions are encountered or appear to be present, we should be contacted so that we can reevaluate our recommendations and assist you.

It is our understanding that WSF plans to make improvements to the Terminal by providing more ADA parking and access. To accomplish this, WSF plans to enhance the parking along Orcas Rd. and provide an ADA accessible ramp from Orcas Rd. to the terminal. The ramp will be located Northwest of the building. Currently there is a driveway that provides access to the adjacent dock and nearby buildings. The north side of the driveway has a rock wall that varies in height up to about 5 ft, and above the wall is a slope that leads up to Orcas Rd. The rock wall will be replaced with a modular block gravity wall and the slope above the wall will be flattened to form a paved path. The path will turn-back on itself and will eventually meet the grade of Orcas Rd. where Orcas Rd. and the ferry dock road meet. Figure 2 shows the proposed wall alignment and Figure 3 shows an elevation view of the wall.

WSF would like to utilize Redi-Rock modular blocks to construct the wall. Redi-Rock blocks are a precast product made from first-purpose, air-entrained, wet cast concrete. Redi-Rock provides the block molds to a local precasting company who manufactures and delivers the blocks to the job site. The wall will then be assembled by a general contractor following plans prepared by WSF based on recommendation from our office.

Site Conditions

The location of the proposed wall was field reviewed by Pete Palmerson of our office. He stated that soil thickness on the slope was variable in depth, but in general he believed it was less than 3 feet in thickness. Bedrock was exposed in several places. On August 26, 2015, Tony Allen and Jim Cuthbertson of the Geotechnical Office met with Frank Fiedler and Mark Anderson of WSF to discuss WSF's plans for the ramp. We discussed the

slope in the vicinity of the wall being mostly rock with variable soil cover thickness. We also discussed WSF's limited funds to invest in geotechnical borings. Based on Pete's review of the conditions, what we know of the terminal area in general, and WSF being willing to incur some construction risk, it was agreed that the Geotechnical Office would proceed with geotechnical design for the wall without performing geotechnical borings specifically for this design. The geotechnical office will have the opportunity to observe conditions when the cut is made to construct the wall. If conditions are not consistent with our design we will have the opportunity to modify our recommendations, if necessary.

The Geotechnical Office files do contain two borings in the vicinity of the wall. One is located at the east end of the rockery TH-1-93, the other (TH-2-93) is on the north side of Orcas Rd. The borings were completed for a utility trench which was being constructed in 1993. The borings indicate that the east end of the block wall will likely bear on medium dense to dense, moist, slightly silty, slightly gravelly, fine to medium SAND. The bedrock was encountered about 6 ft below the ground surface. Copies of the boring logs are attached along with a very crude map showing their locations.

Groundwater was not encountered in the borings and no visible seeps or springs are present in the slope.

Wall Design

Our office has determined the block sizes and stacking arrangement necessary to support the backfill using the general geometry provided by WSF. Our design was completed in conformance with the AASHTO LRFD Bridge Design Specifications Seventh Edition 2014. The wall will have adequate bearing resistance, sliding resistance, and meet eccentricity requirements for the Strength and Service limit states described in AASHTO. At the service limit state, wall settlement is expected to be less than 1-inch. Post construction settlement is expected to be negligible.

In conformance with AASHTO section 11.5.4.2, Extreme Event I seismic design was not completed for the wall. The site adjusted peak ground acceleration A_s for the site is 0.34 g which is less than 0.4 g when seismic design is required.

Excavation

The existing rock wall will need to be removed. We expect that the excavation for the new wall will encounter both bedrock and the sand described above. The bedrock in the area is generally mapped as marine sedimentary rocks of the Constitution Formation, see Figure 4. Our records have very little information about the unconfined compressive strength or the degree of fracturing for the rock. We do have information offshore and at considerable depth, but the rock near the wall is much shallower and has been more exposed to weathering processes than the rock at depth. Therefore, we do not consider the deep rock information to be representative of the conditions near the wall, and we have not included it with this memorandum.

We expect that the bedrock will be difficult to excavate. It is probable that the contractor may need to mechanically break the rock in order to excavate it. Weathering, fracturing, equipment size, and equipment power will have a direct bearing on the ripability and

excavation of the rock. Due to the proximity of nearby structures and the sensitive environmental area, blasting will not likely be an option.

Temporary excavation slopes are the responsibility of the contractor to design. Temporary slopes should be designed in accordance with the WSDOT Standard Specifications, WSDOT Geotechnical Design Manual, and L&I requirements. We recommend that WSF assume the contractor will utilize 1.5H:1V temporary slopes when estimating backfill and excavation quantities.

WSF will need to ensure that the contractor is aware of any utilities near the excavations so that he can avoid damaging them. During periods of wet weather, utility trenches may be a potential source of water entering the excavation area.

Foundation Preparation

The Redi-Rock blocks need to be placed on a firm level surface. We recommend placing a minimum of 6-inches of crushed rock on the subgrade regardless of the material exposed in the excavation. If bedrock is present, the crushed material will provide a cushion to prevent point loading of the blocks from the underlying bedrock. The crushed material can also be easily leveled. If sand is present, placing the crushed material and compacting it will ensure that the foundation is well prepared for block placement. The crushed material will also ensure that the foundation is well drained and will assist in preventing frost heave. We are recommending that the blocks be placed with one foot of embedment. The wall design does not rely on passive soil resistance at the toe to resist sliding. Sliding is resisted solely by base shear.

The crushed rock should be 9-03.9(1) Ballast or 9-03.9(3) Crushed Surfacing Base Course compacted to 95% maximum density.

Redi-Rock Blocks

We recommend using Redi-Rock blocks with Redi-Rock's standard batter. The batter is 5° and is accomplished by setting each block back 1 ⁵/₈ inches from the block below it. The setback occurs automatically as the blocks have shear knobs (domes) cast into their tops and corresponding indentations in the bottoms. As the blocks are stacked, the block on top needs to be slid forward slightly to fully engage the shear knobs. When the knob on the bottom is in contact with the block on top, the correct batter will occur. Blocks should be stacked in a running-bond pattern so that continuous vertical joints are not formed.

Except for some specialty blocks, Redi-Rock blocks all have the same thickness when measured vertically, 18-inches. The block widths that are exposed in the wall face are also standardized and are 46 ¹/₈ inches. The depth of the block perpendicular to the wall face is how Redi-Rock distinguishes one block size from another. For this wall, we are recommending three different block sizes be used for most of the wall; 28-inch, 41-inch, and 60-inch. The larger, deeper blocks are used in the bottom of the wall and the narrower blocks towards the top. Figure 3 shows the recommended distribution of block sizes in the wall.

In general, the recommended block arrangement ensures that the 28-inch blocks never retain more than 3 block's worth of backfill (4.5 ft). Where the wall retains more than 4.5 ft of backfill (4 blocks) and up to 7.5 ft of backfill (5 blocks), 41-inch blocks are required below the upper 28-inch blocks. The larger blocks are required to prevent overturning and sliding. Where more than 5 blocks are needed to retain soil, the large 60-inch blocks should be used in the bottom. To accommodate steps in wall profile at either the top of wall or bottom, half width blocks can be used.

Redi-Rock blocks are manufactured in two styles. One they call a middle unit, the other a bottom unit. Middle units have the shear knobs on top of the block and also shear indentations on the bottom to mate with blocks that are placed above and below them. Bottom units have a solid flat bottom with no shear indentations to maximize soil to block contact. All blocks that bear directly on the foundation subgrade should be bottom unit blocks.

Architectural Treatments and Railings

The proposed wall configuration does have some architectural treatments. Above the grade of the trail there are exposed blocks and cap units to make the trail more visually pleasing. Redi-Rock manufactures what they call free standing blocks which have texture cast on two opposite faces. Where blocks will be exposed on both sides, Free Standing Straight Top and Free Standing Straight Middle blocks should be used. Again, the "middle" term denotes a block with shear knobs on top and shear recesses on the bottom. The top most block should be the Straight Top version which can accept a cap block. The block layout shown in Figure 3 does not show the top most exposed blocks as being Redi-Rock Free Standing blocks. We are relying on WSF and their architect to determine which blocks at the top of the wall should be "free standing" and visible. The free standing blocks are suitable to retain backfill and can be substituted for 28-inch blocks at the top of the wall.

We understand that pedestrian rail will be installed. Tube type rails with foundations independent of the blocks may be used. Alternately, Redi-Rock block columns can be constructed with railing between the columns. The block wall, as designed, has sufficient bearing and overturning resistance for either system. The wall has not been designed for vehicular impact forces.

Backfill and Drainage

Backfill should be 9-03.9(1) Ballast or 9-03.9(3) Crushed Surfacing Base Course compacted to 90% maximum density. Material meeting Ballast or CSBC specifications will provide adequate drainage for the wall. Separate or different drainage material is not required. The backfill material should also be used to core fill block recesses and between blocks.

Redi-Rock recommends that non-woven geosynthetic be placed along block joints and along the surface of the v-shaped joint between adjacent block units of the same course. Geosynthetic should be Construction Geotextile for Underground Drainage, Moderate survivability, Nonwoven, Class A in conformance with Standard Specification 9-33. A six-inch underdrain similar to the one shown in Design Manual M 22-01, Exhibit 730-11

should be installed behind the blocks and allowed to daylight at the lowest elevation of the wall. The same geotextile recommended above can be used for the drain. When backfilling against the temporary excavation slope made in the native materials, construction geotextile is not required, but hillside terraces as required in section 2-03.3(14) should be used.

Specifications and Plans for Construction

We recommend that WSF assemble the specifications and plans for construction of the wall, and that they incorporate the recommendations contained in this memorandum. Section 8-24 Rock and Gravity Block Wall and Gabion Cribbing of the Standard Specifications discusses gravity block walls. WSDOT also has General Special Provisions for section 8-24 that concern gravity block walls. The GSPs are not suitable for use with Redi-Rock blocks. The GSPs will require editing and modification if they are used for construction. Likewise, Redi-Rock has suggested specifications for construction of their wall system on their web-site. The Redi-Rock special provision should not be incorporated into the contract without reviewing its content and editing it. The Redi-Rock specification contains materials and material acceptance requirements which are not necessarily compatible with WSDOT's way of accepting materials.

Closure

If you have questions or require further information, please contact Tony Allen at (360) 709-5450 or Jim Cuthbertson at (360) 709-5452.

□ □ □



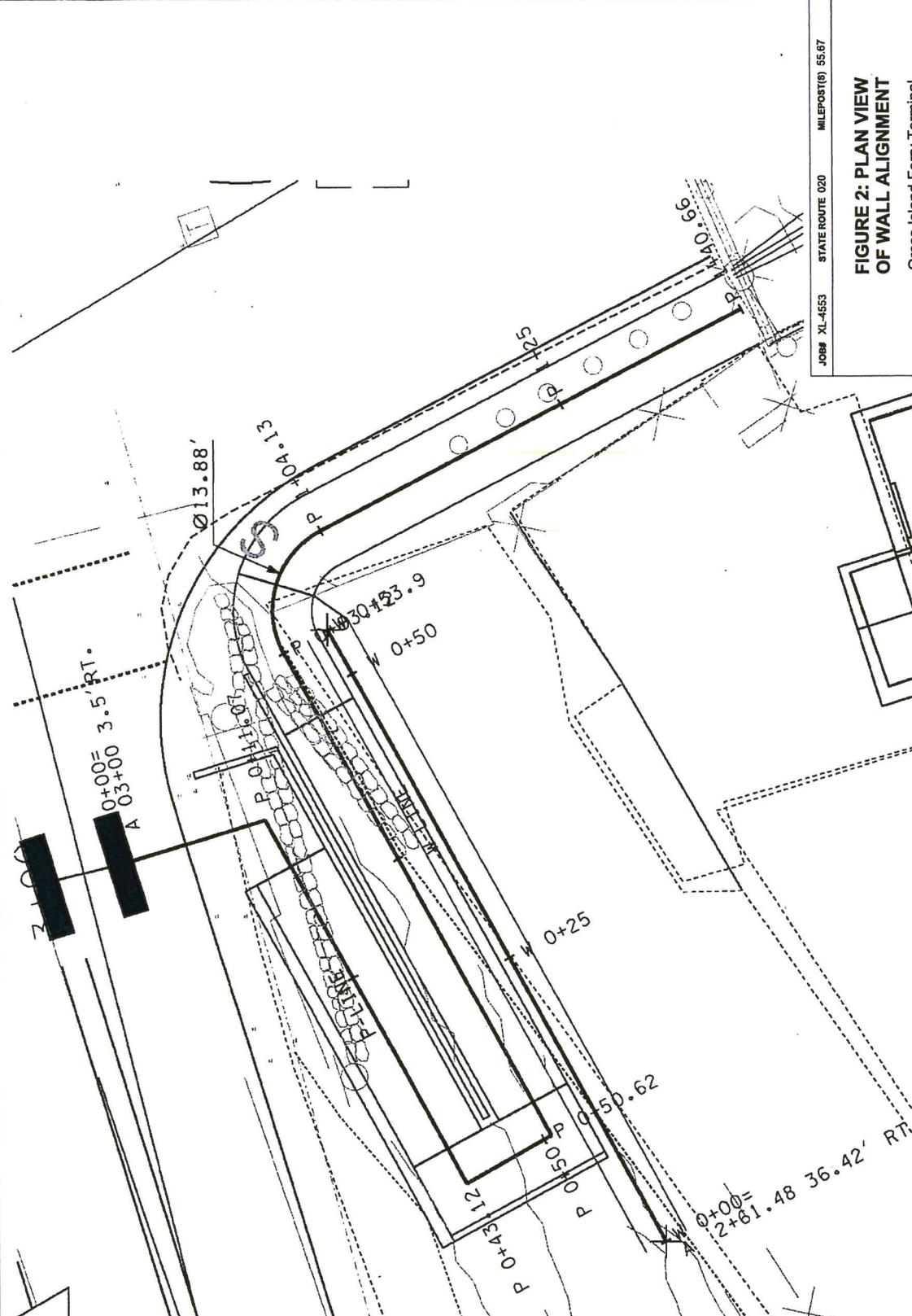
A handwritten signature in black ink, appearing to read "Tony M. Allen".

Prepared By:
James G. Cuthbertson
Chief Foundations Engineer

Agency Approval Authority:
Tony M. Allen
State Geotechnical Engineer

TMA/jgc
Attachment:

cc: M. Anderson, WSF TB-32



JOB# XL-4553 STATE ROUTE 020 MILEPOST(S) 55.67

FIGURE 2: PLAN VIEW OF WALL ALIGNMENT

Orcas Island Ferry Terminal
 ADA Compliance Improvements
 Gravity Block Wall

Washington State Department of Transportation
GEOTECHNICAL DIVISION

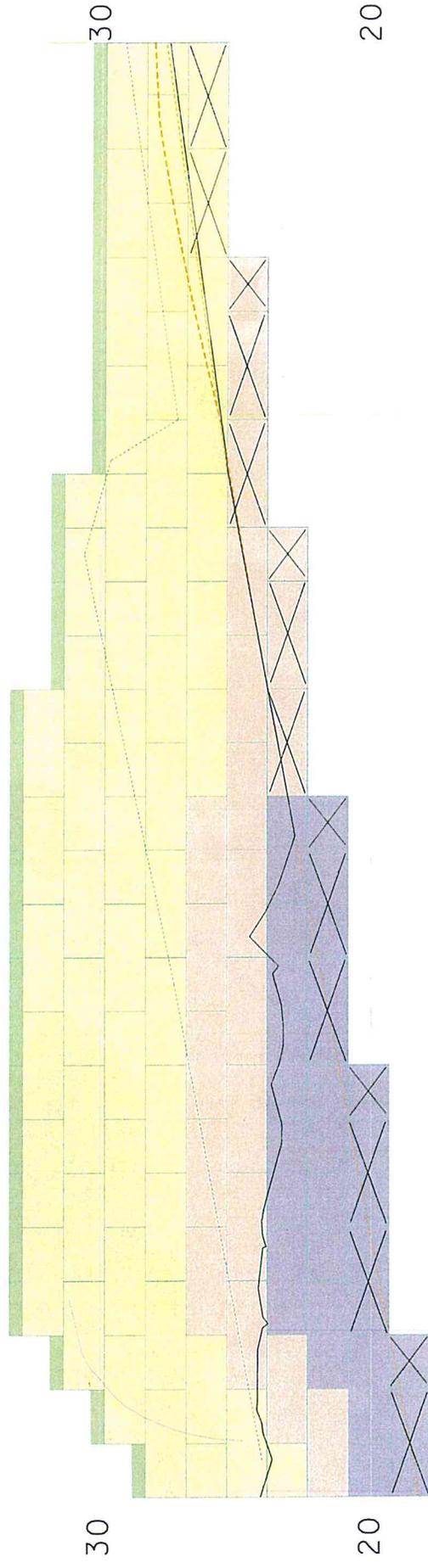
PREPARED BY Dale Glitz DATE November 6, 2015

NO TO SCALE

0+53.9

0+00

ORCAS WALL PROFILE



LEGEND

- 10 Two-Sided 28 1/2" Cap Block
- 28-Inch; Standard Batter
- 41-Inch; Standard Batter
- 60-Inch; Standard Batter
- Denotes Bottom Unit

NO TO SCALE

JOB# XL-4553 STATE ROUTE 020 MILEPOST(S) 55.67

FIGURE 3: ELEVATION VIEW OF WALL

Orcas Island Ferry Terminal
ADA Compliance Improvements
Gravity Block Wall



PREPARED BY Dale Gletz

DATE November 6, 2015

File Location: J:\projects\4-4553 Orcas Island ADA\13w131c_Wall_Profile_FF.dgn

FIGURE 4 LOCAL GEOLOGY
ORCAS ISLAND FERRY TERMINAL



- LEGEND**
- Ferry Terminals
 - Ferry Routes
 - Rivers & Streams
 - Water Bodies

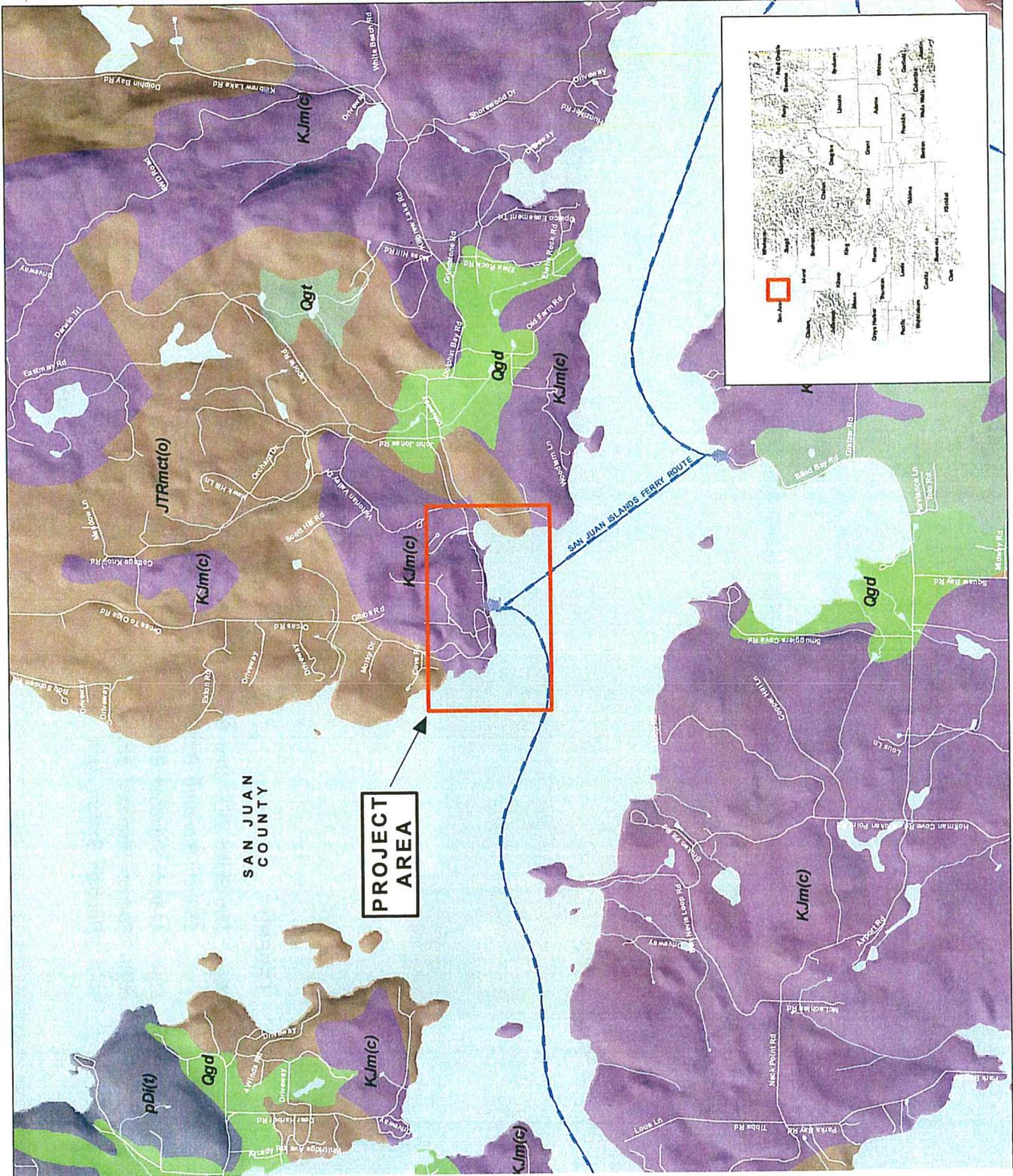
- Geology**
- Advance Continental Glacial Outwash, Fraser (Qga)
 - Chert-Rich Marine Sedimentary Rocks (JTRmct(o))
 - Continental Glacial Drift, Fraser-Age (Qgd)
 - Continental Glacial Till, Fraser-Age (Qgt)
 - Glaciomarine Drift, Fraser-Age (Qgdm(e))
 - Intrusive Rocks, Undivided (pDi(i))
 - Marine Sedimentary Rocks (KJm(c))
 - Marine Sedimentary Rocks (KJm(f))

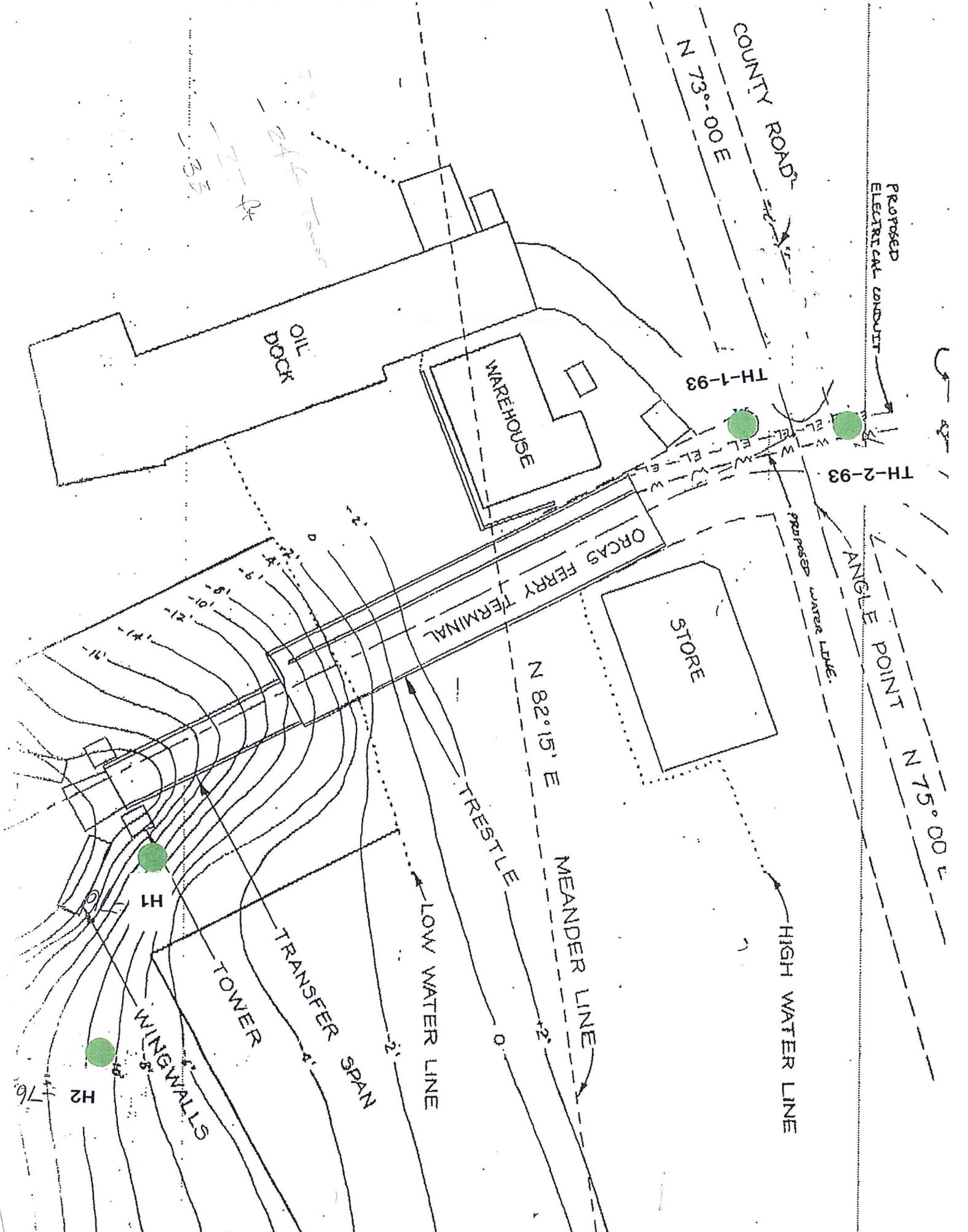
DATA SOURCES
 Geologic Data Provided By Washington State Department of Natural Resources,
 Division of Geology and Earth Resources
 WSDOT GeoData Catalog - Ferry Terminals, Ferry Routes, Local Roads,
 Water Bodies and River & Streams



PROJECT MANAGER	ANDREW FISKE
PROJECT NAME	ORCA FERRY TERMINAL
JOB #	XL 3042
STATE ROUTE	N/A
MILEPOST(S)	N/A
MAP ID	SR000-XL3042-04-ORCAFERRY-GEOLOGY
MAP AUTHOR	JEFF FISHER
DATE	10/05/2007

DISCLAIMER: This map was prepared by the Washington State Department of Natural Resources, Division of Geology and Earth Resources, and is not a warranty, representation, or endorsement of any products or services. The user assumes all liability for any use of this map. The user agrees to hold the Washington State Department of Natural Resources, Division of Geology and Earth Resources, and its employees, agents, and contractors harmless for any use of this map.





LOG OF TEST BORING



Washington State
Department of Transportation

S.R. _____ SECTION Orcas Island Ferry Terminal Job No. OL-1451
 Hole No. TH-1-93 Sub Section _____ Cont. Sec. _____
 Station See Plan Sheet Offset _____ Ground El. See Log
 Type of Boring Diedrich D-25 Augers Casing _____ W.T. El. No Free Water
 Inspector _____ Date January 12, 1993 Sheet 1 of 1

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.		DESCRIPTION OF MATERIAL
		[Dotted Pattern]			ACP
	29		STD PEN 1	4 6 23	Brown, dense, moist, slightly silty, slightly gravelly, fine to medium SAND.
5					
					Bedrock at -6.0 ft.
					Notes: Sampled SPT on bedrock. Sampler bounced with no penetration. Ground elevation same as County Road.
10					End of test boring at 6.0 ft. below ground elevation.
					This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications.
15					
20					

LOG OF TEST BORING



Washington State
Department of Transportation

S.R. _____ SECTION Orcas Island Ferry Terminal Job No. OL-1451
 Hole No. TH-2-93 Sub Section _____ Cont. Sec. _____
 Station See Plan Sheet Offset _____ Ground El. See Log
 Type of Boring Diedrich D-25 Augers Casing _____ W.T. El. No Free Water
 Inspector _____ Date January 12, 1993 Sheet 1 of 1

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.		DESCRIPTION OF MATERIAL
		●●●●●●			ACP
	22		STD PEN 1	6 10 12	Brown, medium dense, moist, slightly silty, slightly gravelly, fine to medium SAND .
5					Bedrock at -4.0 ft. Notes: Sampled SPT on bedrock. Sampler bounced with no penetration. Ground elevation same as County Road. End of test boring at 4.0 ft. below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications.
10					
15					
20					

APPENDIX C

Washington State Prevailing Wage

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: 4/27/2018

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
San Juan	Carpenters	Acoustical Worker	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Bridge, Dock And Wharf Carpenters	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Carpenter	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Carpenters on Stationary Tools	\$57.31	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Creosoted Material	\$57.28	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Floor Finisher	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Floor Layer	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Carpenters	Scaffold Erector	\$57.18	<u>5D</u>	<u>4C</u>	
San Juan	Electrical Fixture Maintenance Workers	Journey Level	\$11.50		<u>1</u>	
San Juan	Electricians - Inside	Journey Level	\$37.27		<u>1</u>	
San Juan	Electricians - Powerline Construction	Cable Splicer	\$79.43	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Certified Line Welder	\$69.75	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Groundperson	\$46.28	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$69.75	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Journey Level Lineperson	\$69.75	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Line Equipment Operator	\$59.01	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Meter Installer	\$46.28	<u>5A</u>	<u>4D</u>	<u>8W</u>
San Juan	Electricians - Powerline Construction	Pole Sprayer	\$69.75	<u>5A</u>	<u>4D</u>	
San Juan	Electricians - Powerline Construction	Powderperson	\$52.20	<u>5A</u>	<u>4D</u>	
San Juan	Fence Erectors	Fence Erector	\$18.95		<u>1</u>	
San Juan	Flaggers	Journey Level	\$15.00		<u>1</u>	
San Juan	Laborers	Air, Gas Or Electric Vibrating Screed	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Airtrac Drill Operator	\$48.02	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Ballast Regular Machine	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Batch Weighman	\$39.48	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Brick Pavers	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Brush Cutter	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Brush Hog Feeder	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Burner	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Caisson Worker	\$48.02	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Carpenter Tender	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Caulker	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Cement Dumper-paving	\$47.44	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Cement Finisher Tender	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Change House Or Dry Shack	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Chipping Gun (under 30 Lbs.)	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Chipping Gun(30 Lbs. And Over)	\$47.44	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Choker Setter	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Chuck Tender	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Clary Power Spreader	\$47.44	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Clean-up Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
San Juan	Laborers	Concrete Dumper/chute Operator	\$47.44	<u>7A</u>	<u>3I</u>	

San Juan	Laborers	Concrete Form Stripper	\$46.57	7A	3I
San Juan	Laborers	Concrete Placement Crew	\$47.44	7A	3I
San Juan	Laborers	Concrete Saw Operator/core Driller	\$47.44	7A	3I
San Juan	Laborers	Crusher Feeder	\$39.48	7A	3I
San Juan	Laborers	Curing Laborer	\$46.57	7A	3I
San Juan	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$46.57	7A	3I
San Juan	Laborers	Ditch Digger	\$46.57	7A	3I
San Juan	Laborers	Diver	\$48.02	7A	3I
San Juan	Laborers	Drill Operator (hydraulic,diamond)	\$47.44	7A	3I
San Juan	Laborers	Dry Stack Walls	\$46.57	7A	3I
San Juan	Laborers	Dump Person	\$46.57	7A	3I
San Juan	Laborers	Epoxy Technician	\$46.57	7A	3I
San Juan	Laborers	Erosion Control Worker	\$46.57	7A	3I
San Juan	Laborers	Faller & Bucker Chain Saw	\$47.44	7A	3I
San Juan	Laborers	Fine Graders	\$46.57	7A	3I
San Juan	Laborers	Firewatch	\$39.48	7A	3I
San Juan	Laborers	Form Setter	\$46.57	7A	3I
San Juan	Laborers	Gabian Basket Builders	\$46.57	7A	3I
San Juan	Laborers	General Laborer	\$46.57	7A	3I
San Juan	Laborers	Grade Checker & Transit Person	\$48.02	7A	3I
San Juan	Laborers	Grinders	\$46.57	7A	3I
San Juan	Laborers	Grout Machine Tender	\$46.57	7A	3I
San Juan	Laborers	Groutmen (pressure)including Post Tension Beams	\$47.44	7A	3I
San Juan	Laborers	Guardrail Erector	\$46.57	7A	3I
San Juan	Laborers	Hazardous Waste Worker (level A)	\$48.02	7A	3I
San Juan	Laborers	Hazardous Waste Worker (level B)	\$47.44	7A	3I
San Juan	Laborers	Hazardous Waste Worker (level C)	\$46.57	7A	3I
San Juan	Laborers	High Scaler	\$48.02	7A	3I
San Juan	Laborers	Jackhammer	\$47.44	7A	3I
San Juan	Laborers	Laserbeam Operator	\$47.44	7A	3I
San Juan	Laborers	Maintenance Person	\$46.57	7A	3I
San Juan	Laborers	Manhole Builder-mudman	\$47.44	7A	3I
San Juan	Laborers	Material Yard Person	\$46.57	7A	3I
San Juan	Laborers	Motorman-dinky Locomotive	\$47.44	7A	3I
San Juan	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$47.44	7A	3I
San Juan	Laborers	Pavement Breaker	\$47.44	7A	3I
San Juan	Laborers	Pilot Car	\$39.48	7A	3I
San Juan	Laborers	Pipe Layer Lead	\$48.02	7A	3I
San Juan	Laborers	Pipe Layer /tailor	\$47.44	7A	3I
San Juan	Laborers	Pipe Pot Tender	\$47.44	7A	3I
San Juan	Laborers	Pipe Reliner	\$47.44	7A	3I
San Juan	Laborers	Pipe Wrapper	\$47.44	7A	3I
San Juan	Laborers	Pot Tender	\$46.57	7A	3I
San Juan	Laborers	Powderman	\$48.02	7A	3I
San Juan	Laborers	Powderman's Helper	\$46.57	7A	3I
San Juan	Laborers	Power Jacks	\$47.44	7A	3I
San Juan	Laborers	Railroad Spike Puller - Power	\$47.44	7A	3I
San Juan	Laborers	Raker - Asphalt	\$48.02	7A	3I
San Juan	Laborers	Re-timberman	\$48.02	7A	3I
San Juan	Laborers	Remote Equipment Operator	\$47.44	7A	3I
San Juan	Laborers	Rigger/signal Person	\$47.44	7A	3I
San Juan	Laborers	Rip Rap Person	\$46.57	7A	3I
San Juan	Laborers	Rivet Buster	\$47.44	7A	3I
San Juan	Laborers	Rodder	\$47.44	7A	3I

San Juan	Laborers	Scaffold Erector	\$46.57	7A	3I	
San Juan	Laborers	Scale Person	\$46.57	7A	3I	
San Juan	Laborers	Sloper (over 20")	\$47.44	7A	3I	
San Juan	Laborers	Sloper Sprayer	\$46.57	7A	3I	
San Juan	Laborers	Spreader (concrete)	\$47.44	7A	3I	
San Juan	Laborers	Stake Hopper	\$46.57	7A	3I	
San Juan	Laborers	Stock Piler	\$46.57	7A	3I	
San Juan	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$47.44	7A	3I	
San Juan	Laborers	Tamper (multiple & Self-propelled)	\$47.44	7A	3I	
San Juan	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$47.44	7A	3I	
San Juan	Laborers	Toolroom Person (at Jobsite)	\$46.57	7A	3I	
San Juan	Laborers	Topper	\$46.57	7A	3I	
San Juan	Laborers	Track Laborer	\$46.57	7A	3I	
San Juan	Laborers	Track Liner (power)	\$47.44	7A	3I	
San Juan	Laborers	Traffic Control Laborer	\$42.22	7A	3I	8R
San Juan	Laborers	Traffic Control Supervisor	\$42.22	7A	3I	8R
San Juan	Laborers	Truck Spotter	\$46.57	7A	3I	
San Juan	Laborers	Tugger Operator	\$47.44	7A	3I	
San Juan	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$92.60	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$97.63	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$101.31	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$107.01	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$109.13	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$114.23	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$116.13	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$118.13	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$120.13	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Guage and Lock Tender	\$48.12	7A	3I	8Q
San Juan	Laborers	Tunnel Work-Miner	\$48.12	7A	3I	8Q
San Juan	Laborers	Vibrator	\$47.44	7A	3I	
San Juan	Laborers	Vinyl Seamer	\$46.57	7A	3I	
San Juan	Laborers	Watchman	\$35.88	7A	3I	
San Juan	Laborers	Welder	\$47.44	7A	3I	
San Juan	Laborers	Well Point Laborer	\$47.44	7A	3I	
San Juan	Laborers	Window Washer/cleaner	\$35.88	7A	3I	
San Juan	Laborers - Underground Sewer & Water	General Laborer & Topman	\$46.57	7A	3I	
San Juan	Laborers - Underground Sewer & Water	Pipe Layer	\$47.44	7A	3I	
San Juan	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	\$20.00		1	
San Juan	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	\$20.28		1	
San Juan	Landscape Construction	Landscaping Or Planting Laborers	\$32.83		1	
San Juan	Plumbers & Pipefitters	Journey Level	\$67.47	5A	1G	
San Juan	Power Equipment Operators	Journey Level	\$23.44		1	
San Juan	Power Equipment Operators- Underground Sewer & Water	Journey Level	\$15.92		1	
San Juan	Residential Carpenters	Journey Level	\$28.00		1	
San Juan	Residential Cement Masons	Journey Level	\$11.50		1	
San Juan	Residential Electricians	JOURNEY LEVEL	\$24.49		1	
San Juan	Surveyors	All Classifications	\$11.50	Null	1	

San Juan	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
San Juan	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
San Juan	Truck Drivers	Dump Truck	\$18.69		<u>1</u>	
San Juan	Truck Drivers	Dump Truck And Trailer	\$18.69		<u>1</u>	
San Juan	Truck Drivers	Other Trucks	\$14.65		<u>1</u>	
San Juan	Truck Drivers	Transit Mixer	\$18.97		<u>1</u>	



Proposal for Bidding Purposes

For Construction of:

**ORCAS LANDING MARINE FACILITY
IMPROVEMENTS**

County Road Project Number: 021602

**San Juan County
Public Works Department**

May 2018

**Note: All pages herein must be returned with the bid.
Missing pages may subject your bid to rejection.**

Local Agency Name
Local Agency Address

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name _____

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

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

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

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

Subcontractor Name _____
 Work to be Performed _____

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



Local Agency 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 the State of Washington 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 highway construction, to wit:

ORCAS LANDING MARINE FACILITY IMPROVEMENTS

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 the _____ within a period of twenty (20) 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 _____, _____.

(Principal)

(Surety)

(Attorney-in-fact)



PROPOSAL

TO SAN JUAN COUNTY PUBLIC WORKS

THIS CERTIFIES THAT THE UNDERSIGNED HAS EXAMINED THE LOCATION OF

ORCAS LANDING MARINE FACILITY IMPROVEMENTS

AND THAT THE PLANS, SPECIFICATIONS AND CONTRACT GOVERNING THE WORK EMBRACED IN THIS IMPROVEMENT, AND THE METHOD BY WHICH PAYMENT WILL BE MADE FOR SAID WORK IS UNDERSTOOD. THE UNDERSIGNED HEREBY PROPOSES TO UNDERTAKE AND COMPLETE THE WORK EMBRACED IN THIS IMPROVEMENT, OR AS MUCH THEREOF AS CAN BE COMPLETED WITH THE MONEY AVAILABLE IN ACCORDANCE WITH THE SAID PLANS, SPECIFICATIONS AND CONTRACT, AND THE FOLLOWING SCHEDULE OF RATES AND PRICES:

(NOTE: UNIT PRICES FOR ALL ITEMS, ALL EXTENSIONS, AND TOTAL AMOUNT OF BID SHALL BE SHOWN. ALL ENTRIES MUST BE TYPED OR ENTERED IN INK. SHOW PRICES IN FIGURES ONLY. FIGURES WRITTEN TO THE RIGHT OF THE DOT SHALL BE INTERPRETED AS CENTS.)

ITEM NO.	SPEC.	PLAN QUANTITY	ITEM DESCRIPTION	PRICE PER UNIT	TOTAL AMOUNT
DIVISION 1 GENERAL REQUIREMENTS					
1	1-05.4 (S.P.)	LUMP SUM	STRUCTURE SURVEYING	LUMP SUM	•
2	1-07.15(1)	LUMP SUM	SPCC PLAN <i>(Minimum Bid S.P. 1-02.6)</i>	LUMP SUM	• <i>(\$500.00 Minimum)</i>
3	1-09.7	LUMP SUM	MOBILIZATION	LUMP SUM	•
4	1-10.5(1)	LUMP SUM	PROJECT TEMPORARY TRAFFIC CONTROL <i>(Minimum Bid S.P. 1-02.6)</i>	LUMP SUM	• <i>(\$2,500.00 Minimum)</i>

ITEM NO.	SPEC.	PLAN QUANTITY	ITEM DESCRIPTION	PRICE PER UNIT	TOTAL AMOUNT
----------	-------	---------------	------------------	----------------	--------------

DIVISION 2 EARTHWORK

5	2-01.5	LUMP SUM	CLEARING AND GRUBBING	LUMP SUM	•
6	2-01.5	ESTIMATE	ROADSIDE CLEANUP	EST.	5,000 • 00
7	2-02.5 (S.P.)	LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	•
8	2-03.5 (S.P.)	50 CU. YD.	ROCK BREAKING <i>(Estimated Quantity S.P. 1-04.6)</i>	AT • PER CU. YD.	•

DIVISION 4 BASES

9	4-04.5	50 TON	CRUSHED SURFACING BASE COURSE	AT • PER TON	•
---	--------	-----------	-------------------------------	--------------------	---

DIVISION 5 SURFACE TREATMENTS AND PAVEMENTS

10	5-05.5	3 CU. YD.	CEMENT CONCRETE PAVEMENT	AT • PER CU. YD.	•
----	--------	--------------	--------------------------	------------------------	---

DIVISION 7 DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND CONDUITS

11	7-01.5	25 L.F.	DRAIN PIPE POLYVINYL CHLORIDE (PVC) 6IN. DIA.	AT • PER LIN. FT	•
12	7-01.5	25 L.F.	UNDERDRAIN PIPE POLYVINYL CHLORIDE (PVC) PERFORATED - 6IN. DIA.	AT • PER LIN. FT	•
13	7-05.5	1 EACH	CONNECTION TO DRAINAGE STRUCTURE	AT • PER EACH	•
14	7-15.5 (S.P.)	LUMP SUM	WATER UTILITY RELOCATION	LUMP SUM	•

ITEM NO.	SPEC.	PLAN QUANTITY	ITEM DESCRIPTION	PRICE PER UNIT	TOTAL AMOUNT
----------	-------	---------------	------------------	----------------	--------------

DIVISION 8 MISCELLANEOUS CONSTRUCTION
--

15	8-01.5	ESTIMATE	EROSION/WATER POLLUTION CONTROL	EST.	5,000 • 00
16	8-12.5	125 L.F.	CHAIN LINK FENCE	AT • PER LIN. FT.	•
17	8-14.5	45 SQ. YD.	CEMENT CONCRETE SIDEWALK	AT • PER SQ. YD.	•
18	8-24.5	680 SQ. FT.	GRAVITY BLOCK WALL	AT • PER SQ. FT.	•
19	8-24.5	85 SQ. YD.	CONSTRUCTION GEOTEXTILE	AT • PER SQ. YD.	•
20	8-24.5	85 CU. YD.	STRUCTURE EXCAVATION CLASS B INCL. HAUL <i>(Estimated Quantity S.P. 1-04.6)</i>	AT • PER CU. YD.	•
21	8-24.5	525 SQ. FT.	SHOREING OR EXTRA EXCAVATION CLASS B	AT • PER SQ. FT.	•
22	8-24.5	200 TON	BACKFILL FOR ROCK WALLS <i>(Estimated Quantity S.P. 1-04.6)</i>	AT • PER CU. YD.	•
23	8-26.5 (S.P.)	132 L.F.	PEDESTRIAN HANDRAIL	AT • PER LIN. FT.	•
24	8-20.5 (S.P.)	LUMP SUM	ELECTRICAL UTILITY RELOCATION	LUMP SUM	•

CONTRACT TOTAL:	•
-----------------	---



Bid Proposal – Signature Page

The bidder is hereby advised that by signature of this proposal they are deemed to have acknowledged all requirements and signed all certificates contained herein.

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

Note: Cash will not be accepted as a bid deposit.

- Cashier’s Check _____ Dollars
- Certified Check (\$ _____) Payable to the San Juan County Public Works
- Proposal Bond In the Amount of 5% of the Bid

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

Signature of Authorized Official

PROPOSAL MUST BE SIGNED →

Legal Name _____

Signature _____ Date _____

Firm Name _____

Address _____
Street City State Zip

Phone Number _____ E-Mail _____

The following information is required per RCW 39.04.350

WA L&I Construction Contractor License Number WA Unified Business Identifier Number (UBI)

WA L&I Industrial Insurance Account Number WA DOR B&O Excise Tax Number

WA ESD Employment Security Reference Number Federal Employer Identification Number (EIN)

Note:

- (1) This proposal form is not transferable and alteration of the firm’s name entered hereon without prior permission from Contracting Agency 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 for the preparation of this proposal.

Note:

**The following contract forms are
for informational purposes only.**

**Do not submit these forms
with your bid.**

**The contract will be
executed upon award.**

Local Agency Performance Bond

PERFORMANCE BOND

to [City of _____ or _____ County], WA

Bond No. _____

The [City of _____ or _____ County], Washington ([City or County]) has awarded to _____ (Principal), a contract for the construction of the project designated as _____, Project No. _____, in [location], Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principal, and _____ (Surety), a corporation, organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of _____ US Dollars (\$ _____) Total Contract Amount, subject to the provisions herein.

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

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

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

PRINCIPAL

Principal Signature Date

Printed Name Date

Title

SURETY

Surety Signature Date

Printed Name Date

Title

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

Approved as to form:

[City or County] Attorney, [City of _____ or _____ County] _____ Date

Local Agency Payment Bond - Highway Construction

PUBLIC WORKS PAYMENT BOND

to [City of _____ or _____ County], WA

Bond No. _____

The [City of _____ or _____ County], Washington ([City or County]) has awarded to _____ (Principal), a contract for the construction of the project designated as _____, Project No. _____, in [location], Washington (Contract), and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principal, and _____ (Surety), a corporation organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the [City or County], in the sum of _____ US Dollars (\$ _____) Total Contract Amount, subject to the provisions herein.

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

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

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

PRINCIPAL

SURETY

Principal Signature Date

Surety Signature Date

Printed Name Date

Printed Name Date

Title

Title

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

Approved as to form:

[City or County] Attorney, [City of _____ or _____ County] Date

Exhibit C

**SAN JUAN COUNTY CONTRACT FOR A PUBLIC WORKS PROJECT
ORCAS LANDING MARINE FACILITY IMPROVEMENTS
021602**

This Contract is made between SAN JUAN COUNTY, a political subdivision of the state of Washington, hereafter referred to as "County," and _____, hereafter referred to as "Contractor."

In consideration of the terms, conditions, covenants and performance contained in this Contract, the parties agree as follows:

1. The Contractor's Proposal; the Contract Provisions and Plans; all Addenda; (collectively "the Bidding Documents"); and the Washington State Department of Transportation Standard Specifications for Road, Bridge and Municipal Construction, 2018 Edition as amended, ("WSDOT Specifications 2018") all of which are on file in the office of the San Juan County **Public Works** Department, shall constitute a part of this Contract and are by this reference incorporated and made a part of this Contract as though fully set forth. Each of the parties expressly covenants and agrees to carry out and fully perform each and all of the provisions of these documents upon its or his part to be performed.

2. Contractor agrees to furnish all equipment, material, and labor for Orcas Landing Marine Facility Improvements in accordance with its proposal dated _____ and attached as Exhibit A.

3. The County agrees to retain the Contractor to perform the work described in the Bidding Documents and agrees to pay for that work in accordance with the provisions of this Contract.

Dated this _____ day of _____ 2018.

[COMPANY NAME]
[INSERT NAME]
[INSERT TITLE]

SAN JUAN COUNTY PUBLIC WORKS
Russ Harvey
Director

Date

Date

APPROVED AS TO FORM ONLY
Randall K. Gaylord
San Juan County Prosecuting Attorney

FINAL APPROVAL
Michael J. Thomas
County Manager

By: _____
Date

Date