PART IV

SPECIAL PROVISIONS

SPECIAL PROVISIONS For City of Stanwood Viking Way Phase 2

April 2024

1 2	INTRODUCTION TO THE SPECIAL PROVISIONS
2 3 4	
4 5 6	(January 4, 2024 APWA GSP, Option B)
7 8 9	The work on this project shall be accomplished in accordance with the <i>Standard Specifications for Road, Bridge and Municipal Construction</i> , 2024 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA),
10 11 12 13	Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.
14 15 16 17 18 19 20 21	These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.
22 23 24	The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:
25 26 27 28	(March 8, 2013 APWA GSP) (April 1, 2013 (for WSDOT GSPs, only use date) (COS GSP) Agency Special Provision
29	Also incorporated into the Contract Documents by reference are:
30 31	 Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any
32 33	 Standard Plans for Road, Bridge and Municipal Construction, WSDOT Manual M21-01, current edition
34 35	 City of Stanwood Street and Utility Standards, City of Stanwood Public Works Department, current edition
36	 City of Stanwood Municipal Code (Current Web Edition)
37	 "Local Agency Guidelines" published by WSDOT
38 39 40	 Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way, published August 8, 2023, effective September 7, 2023
41	Contractor shall obtain copies of these publications, at Contractor's own expense.

1	Division 1
2	General Requirements
2 3 4 5	DESCRIPTION OF WORK (March 13, 1995)
5 6 7 8 9 10 11 12 13 14 15	This Contract provides for the improvement of *** roadways within Stanwood's Downtown Center by constructing the new street for Viking Way from west of 90 th Avenue NW to 92 nd Avenue NW by clearing and grubbing, removals, preloading, settlement monitoring, fencing, excavations and embankments, surfacing and hot mix asphalt pavement, drainage, landscaping, curbing, sidewalks and curb ramps, illumination, signing, channelization, retaining wall and handrail, erosion/water pollution control, traffic control, *** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.
16 17	1-01 Definition and Terms
18 19 20	1-01.3 Definitions (January 19, 2022 APWA GSP)
21 22 23	Delete the heading Completion Dates and the three paragraphs that follow it, and replace them with the following:
23	Dates
25	<i>Bid Opening Date</i>
26	The date on which the Contracting Agency publicly opens and reads the Bids.
27	Award Date
28	The date of the formal decision of the Contracting Agency to accept the lowest
29	responsible and responsive Bidder for the Work.
30	Contract Execution Date
31	The date the Contracting Agency officially binds the Agency to the Contract.
32	<i>Notice to Proceed Date</i>
33	The date stated in the Notice to Proceed on which the Contract time begins.
34	Substantial Completion Date
35	The day the Engineer determines the Contracting Agency has full and unrestricted
36	use and benefit of the facilities, both from the operational and safety standpoint, any
37	remaining traffic disruptions will be rare and brief, and only minor incidental work,
38	replacement of temporary substitute facilities, plant establishment periods, or
39	correction or repair remains for the Physical Completion of the total Contract.
40	Physical Completion Date
41	The day all of the Work is physically completed on the project. All documentation
42	required by the Contract and required by law does not necessarily need to be
43	furnished by the Contractor by this date.
44	Completion Date
45	The day all the Work specified in the Contract is completed and all the obligations of
46	the Contractor under the contract are fulfilled by the Contractor. All documentation
47	required by the Contract and required by law must be furnished by the Contractor
48	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 or WSDOT General Special Provisions, to the terms "Department of Transportation", "Washington State Transportation Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

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- All references to the terms "State" or "state" shall be revised to read "Contracting
 Agency" unless the reference is to an administrative agency of the State of Washington,
 a State statute or regulation, or the context reasonably indicates otherwise.
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- All references to "State Materials Laboratory" shall be revised to read "Contracting
 Agency designated location".
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- All references to "final contract voucher certification" shall be interpreted to mean the
 Contracting Agency form(s) by which final payment is authorized, and final completion
 and acceptance granted.
 - Additive
- A supplemental unit of work or group of bid items, identified separately in the Bid
 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
 to the base bid.
- 26 27

Alternate

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

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Business Day

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

36 Contract Bond

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

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41 Contract Documents

42 See definition for "Contract".

43 44 Contract Time

- The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.
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48 Notice of Award

- 49 The written notice from the Contracting Agency to the successful Bidder signifying the
- 50 Contracting Agency's acceptance of the Bid Proposal.
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1 2 3 4 5	Notice to Proceed The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.
4 5 7 8 9	Traffic Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.
10	1-02 BID PROCEDURES AND CONDITIONS
11 12	1-02.1 Prequalification of Bidders
13 14	Delete this section and replace it with the following:
15 16 17 18	1-02.1 Qualifications of Bidder (January 24, 2011 APWA GSP)
19 20 21 22	Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.
23 24 25	1-02.2 Plans and Specifications (June 27, 2011 APWA GSP)
26	Delete this section and replace it with the following:
27 28 29 30	Information as to where Bid Documents can be obtained or reviewed can be found in the Call for Bids (Advertisement for Bids) for the work.
31 32 33	After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:
	To Prime Contractor No. of Sets Basis of Distribution

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

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- Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.
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- 38 **1-02.4** Examination of Plans, Specifications and Site of Work 39
- 40 1-02.4(1) General
- 41 (December 30, 2022 APWA GSP Option A)

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2	The first sentence of the ninth paragraph, beginning with "Prospective Bidder desiring",
2 3	is revised to read:
4	is revised to read.
4 5 7	Prospective Bidders desiring an explanation or interpretation of the Bid Documents,
6	shall request the explanation or interpretation in writing soon enough to allow a written
7	reply to reach all prospective Bidders before the submission of their Bids.
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9	Section 1-02.4(1) is supplemented with the following:
10	Section 1 62.4(1) is supplemented with the following.
11	(September 3, 2019)
12	The Reference Information for this project is available for review by the bidder at the
13	following location:
14	ione milig recenterin
15	*** Appendix D of this Project Manual ***
16	
17	The Reference Information includes the following:
18	ine received an endlage and receiving.
19	*** Geotechnical Engineering Report, Boring Logs ***
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21	1-02.5 Proposal Forms
22	(July 31, 2017 APWA GSP)
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24	Delete this section and replace it with the following:
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26	The Proposal Form will identify the project and its location and describe the work. It will
27	also list estimated quantities, units of measurement, the items of work, and the materials
28	to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal
29	form that call for, but are not limited to, unit prices; extensions; summations; the total bid
30	amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment
31	of addenda; the bidder's name, address, telephone number, and signature; the bidder's
32	UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's
33	Registration Number; and a Business License Number, if applicable. Bids shall be
34	completed by typing or shall be printed in ink by hand, preferably in black ink. The
35	required certifications are included as part of the Proposal Form.
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37	The Contracting Agency reserves the right to arrange the proposal forms with alternates
38	and additives, if such be to the advantage of the Contracting Agency. The bidder shall
39	bid on all alternates and additives set forth in the Proposal Form unless otherwise
40	specified.
41	4.00.0 Deservation of Deservation
42 43	1-02.6 Preparation of Proposal
	Section 1-02.6 is supplemented with the following:
44	(November 20, 2022)
45	(November 20, 2023)
46	The Bidder shall submit with the Bid the following:
47	1) Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-056)
48	2) DBE Written Confirmation Form (WSDOT Form 422-031) - For each and every DBE
49	firm listed on the Bidder's completed Disadvantaged Business Enterprise Utilization
50	Certification, the Bidder shall submit written confirmation from that DBE firm that the

1 2		DBE is in agreement with the DBE participation commitment that the Bidder has made in the Bidder's completed Disadvantaged Business Enterprise Utilization Certification.
3 4 5 6	3)	Good Faith Effort Documentation - Bidder must submit good faith effort documentation with the Disadvantaged Business Enterprise Utilization Certification ONLY In The Event the bidder's efforts to solicit sufficient DBE participation have been unsuccessful.
7 8 9	4)	DBE Item Breakdown (WSDOT Form 272-054) The Bidder shall submit a DBE Item Breakdown form defining the scope of work to be performed by each DBE listed on the DBE Utilization Certification.
10 11 12	Do	rections for delivery of the Disadvantaged Business Enterprise, Written Confirmation ocuments, and Disadvantaged Business Enterprise Good Faith Effort documentation e included in Sections 1-02.9 and 1-02.10.
13 14 15	(Janua	ry 4, 2024 APWA GSP 1-02.6, Option B)
16	Supple	ment the second paragraph with the following:
17 18	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.
19 20	5.	Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.
21 22 23	Delete	the last two paragraphs, and replace them with the following:
24 25 26 27 28 29	Cor as j Awa	e Bidder shall submit with their Bid a completed Contractor Certification Wage Law mpliance form, provided by the Contracting Agency. Failure to return this certification part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for ard. A Contractor Certification of Wage Law Compliance form is included in the posal Forms.
30 31	The	Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.
32 33 34		id by a corporation shall be executed in the corporate name, by the president or a president (or other corporate officer accompanied by evidence of authority to sign).
35 36 37 38	part	id by a partnership shall be executed in the partnership name, and signed by a tner. A copy of the partnership agreement shall be submitted with the Bid Form if any E requirements are to be satisfied through such an agreement.
39 40 41 42 43	mei with	id by a joint venture shall be executed in the joint venture name and signed by a mber of the joint venture. A copy of the joint venture agreement shall be submitted in the Bid Form if any DBE requirements are to be satisfied through such an eement.
43 44 45 46	1-02.7 (March	Bid Deposit 8, 2013 APWA GSP)
47 48	Supple	ment this section with the following:
49	Bid	bonds shall contain the following:
50	1.	Contracting Agency-assigned number for the project;

- 1 Name of the project; 2 The Contracting Agency named as obligee; 3 4. The amount of the bid bond stated either as a dollar figure or as a percentage which 4 represents five percent of the maximum bid amount that could be awarded; 5 Signature of the bidder's officer empowered to sign official statements. The signature 6 of the person authorized to submit the bid should agree with the signature on the 7 bond, and the title of the person must accompany the said signature; 8 6. The signature of the surety's officer empowered to sign the bond and the power of 9 attorney. 10 If so stated in the Contract Provisions, bidder must use the bond form included in the 11 12 Contract Provisions. 13 14 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit. 15 16 1-02.9 Delivery of Proposal 17 (January 4, 2024 APWA GSP, Option A) 18 19 Delete this section and replace it with the following: 20 21 DBE DOCUMENT SUBMITTAL REQUIREMENTS 22 General 23 Each Proposal shall be submitted in a sealed envelope, with the Project Name and 24 Project Number as stated in the Call for Bids clearly marked on the outside of the 25 envelope, or as otherwise required in the Bid Documents, to ensure proper handling and 26 delivery. 27 28 To be considered responsive on a FHWA-funded project, the Bidder may be required to 29 submit the following items, as required by Section 1-02.6: 30 31 DBE Utilization Certification (WSDOT 272-056) DBE Written Confirmation Document (WSDOT 422-031) from each DBE firm 32 33 listed on the Bidder's completed DBE Utilization Certification 34 Good Faith Effort (GFE) Documentation (if applicable) 35 DBE Bid Item Breakdown (WSDOT 272-054) . 36 37 Proposals that are received as required will be publicly opened and read as specified in 38 Section 1-02.12. The Contracting Agency will not open or consider any Bid Proposal that 39 is received after the time specified in the Call for Bids for receipt of Bid Proposals, or 40 received in a location other than that specified in the Call for Bids. The Contracting 41 Agency will not open or consider any "Supplemental Information" (DBE confirmations, or 42 GFE documentation) that is received after the time specified above, or received in a 43 location other than that specified in the Call for Bids. 44 45 If an emergency or unanticipated event interrupts normal work processes of the 46 Contracting Agency so that Proposals cannot be received at the office designated for 47 receipt of bids as specified in Section 1-02.12 the time specified for receipt of the 48 Proposal will be deemed to be extended to the same time of day specified in the 49 solicitation on the first work day on which the normal work processes of the Contracting
- 50 Agency resume.

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1 DBE Utilization Certification (WSDOT Form 272-056)

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

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9 DBE Written Confirmation (WSDOT Form 422-031) and/or GFE Documentation, (if 10 applicable)

11 The DBE Written Confirmation Documents and/or GFE Documents are not required to 12 be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or GFE 13 (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The 14 documents shall be received no later than 48 hours (not including Saturdays, Sundays 15 and Holidays) after the time for delivery of the Proposal. To be considered responsive, 16 Bidders shall submit Written Confirmation Documentation from each DBE firm listed on 17 the Bidder's completed DBE Utilization Certification and/or the GFE as required by 18 Section 1-02.6.

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DBE Bid Item Breakdown (WSDOT form 272-0-54)

21 The DBE Bid Item Breakdown shall be received either with the Bid Proposal or as a 22 Supplement to the Bid. The documents shall be received no later than 48 hours (not 23 including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. 24 The successful Bidder shall submit a completed DBE Bid Item Breakdown, however, minor 25 errors and corrections to DBE Bid Item Breakdown will be returned for correction for a 26 period up to five calendar days after bid opening (not including Saturdays, Sundays and 27 Holidays) DBE Bid Item Breakdown that are still incorrect after the correction period will 28 be determined to be non-responsive.

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The DBE Bid Item Breakdown will not be included as part of the executed Contract.

32 1-02.10 Withdrawing, Revising, or Supplementing Proposal

33 (July 23, 2015 APWA GSP) 34

35 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:

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

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

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

1-02.13 Irregular Proposals

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(January 4, 2024 APWA GSP)

- 8 Delete this section and replace it with the following:9
 - A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - The Bidder adds provisions reserving the right to reject or accept the Award, or enter into the Contract;
 - c. A price per unit cannot be determined from the Bid Proposal;
 - d. The Proposal form is not properly executed;
 - e. The Bidder fails to submit or properly complete a subcontractor list (WSDOT Form 271-015), if applicable, as required in Section 1-02.6;
 - f. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification (WSDOT Form 272-056), if applicable, as required in Section 1-02.6;
 - g. The Bidder fails to submit Written Confirmations (WSDOT Form 422-031) from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidder's DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - h. The Bidder fails to submit DBE 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 in accordance with Section 1-07.11;
 - The Bidder fails to submit a DBE Bid Item Breakdown (WSDOT Form 272-054), if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
 - The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.
 - 2. A Proposal may be considered irregular and may be rejected if:
 - a. The Proposal does not include a unit price for every Bid item;
 - Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - c. The authorized Proposal Form furnished by the Contracting Agency is not used or is altered;
 - The completed Proposal form contains unauthorized additions, deletions, alternate Bids, or conditions;
 - e. Receipt of Addenda is not acknowledged;
 - A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
 - g. If Proposal form entries are not made in ink.
 - CITY OF STANWOOD VIKING WAY PHASE 2 SPECIAL PROVISIONS

1 2 3	1-02.14 (May 17		squalification of Bidders 8 <i>APWA GSP</i> , <i>Option B)</i>
4	Delete tl	nis se	ction and replace it with the following:
4 5 6 7 8 9	bid	lder re	r will be deemed not responsible if the Bidder does not meet the mandatory esponsibility criteria in RCW 39.04.350(1), as amended; or does not meet nental Criteria 1-7 listed in this Section.
10 11 12 13 14	res tha	pons t the	ntracting Agency will verify that the Bidder meets the mandatory bidder ibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as ater in this Section.
15 16 17	1.	De	elinquent State Taxes
18 19 20 21		A	<u>Criterion</u> : The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.
22 23 24 25 26 27 28 29		B.	<u>Documentation</u> : The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder does not owe delinquent taxes to the Washington State Department of Revenue, or if delinquent taxes are owed to the Washington State Department of Revenue, the Bidder must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.
30 31	2.	<u>Fe</u>	deral Debarment
32 33		A	<u>Criterion</u> : The Bidder shall not currently be debarred or suspended by the Federal government.
34 35 36 37 38		В.	<u>Documentation</u> : The Bidder shall not be listed as having an "active exclusion" on the U.S. government's "System for Award Management" database (www.sam.gov).
39 40	3.	Su	bcontractor Responsibility
40 41 42 43 44 45 46 47 48 49		A	<u>Criterion</u> : The Bidder's standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder's subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also "responsible" subcontractors as defined by RCW 39.06.020.
49 50 51		В.	<u>Documentation</u> : The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting

1 2 3		Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.
4	4.	Claims Against Retainage and Bonds
5 6 7 8 9 10 11 12 13		A <u>Criterion</u> : The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
14 15 16 17 18		B. <u>Documentation</u> : The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:
19 20 21 22 23 24		 Name of project The owner and contact information for the owner; A list of claims filed against the retainage and/or payment bond for any of the projects listed; A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.
25 26	5.	Public Bidding Crime
27 28 29 30 31		A <u>Criterion</u> : The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.
32 33 34 35 36		B. <u>Documentation</u> : The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.
37 38	6.	Termination for Cause / Termination for Default
39 40 41 42 43		A <u>Criterion</u> : The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
43 44 45 46 47 48 49		B. <u>Documentation</u> : The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances
49 50 51	7.	Lawsuits

1 A Criterion: The Bidder shall not have lawsuits with judgments entered against 2 the Bidder in the five years prior to the bid submittal date that demonstrate a 3 pattern of failing to meet the terms of contracts, unless there are extenuating 4 circumstances and such circumstances are deemed acceptable to the 5 Contracting Agency 6 7 B. Documentation: The Bidder, if and when required as detailed below, shall sign 8 a statement (on a form to be provided by the Contracting Agency) that the 9 Bidder has not had any lawsuits with judgments entered against the Bidder in 10 the five years prior to the bid submittal date that demonstrate a pattern of 11 failing to meet the terms of contracts, or shall submit a list of all lawsuits with 12 judgments entered against the Bidder in the five years prior to the bid 13 submittal date, along with a written explanation of the circumstances 14 surrounding each such lawsuit. The Contracting Agency shall evaluate these 15 explanations to determine whether the lawsuits demonstrate a pattern of 16 failing to meet of terms of construction related contracts 17 18 As evidence that the Bidder meets the Supplemental Criteria stated above, the 19 apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the 20 second business day following the bid submittal deadline, a written statement verifying 21 that the Bidder meets the supplemental criteria together with supporting documentation 22 (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance 23 with the Supplemental Criteria. The Contracting Agency reserves the right to request 24 further documentation as needed from the low Bidder and documentation from other 25 Bidders as well to assess Bidder responsibility and compliance with all bidder 26 responsibility criteria. The Contracting Agency also reserves the right to obtain 27 information from third-parties and independent sources of information concerning a 28 Bidder's compliance with the mandatory and supplemental criteria, and to use that 29 information in their evaluation. The Contracting Agency may consider mitigating 30 factors in determining whether the Bidder complies with the requirements of the 31 supplemental criteria. 32 33 The basis for evaluation of Bidder compliance with these mandatory and supplemental 34 criteria shall include any documents or facts obtained by Contracting Agency (whether 35 from the Bidder or third parties) including but not limited to: (i) financial, historical, or 36 operational data from the Bidder; (ii) information obtained directly by the Contracting 37 Agency from others for whom the Bidder has worked, or other public agencies or 38 private enterprises; and (iii) any additional information obtained by the Contracting 39 Agency which is believed to be relevant to the matter. 40 41 If the Contracting Agency determines the Bidder does not meet the bidder 42 responsibility criteria above and is therefore not a responsible Bidder, the Contracting 43 Agency shall notify the Bidder in writing, with the reasons for its determination. If the 44 Bidder disagrees with this determination, it may appeal the determination within two (2) 45 business days of the Contracting Agency's determination by presenting its appeal and 46 any additional information to the Contracting Agency. The Contracting Agency will 47 consider the appeal and any additional information before issuing its final 48 determination. If the final determination affirms that the Bidder is not responsible, the 49 Contracting Agency will not execute a contract with any other Bidder until at least two 50 business days after the Bidder determined to be not responsible has received the 51 Contracting Agency's final determination. 52

1 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders 2 with concerns about the relevancy or restrictiveness of the Supplemental Bidder 3 Responsibility Criteria may make or submit requests to the Contracting Agency to 4 modify the criteria. Such requests shall be in writing, describe the nature of the 5 concerns, and propose specific modifications to the criteria. Bidders shall submit such 6 requests to the Contracting Agency no later than five (5) business days prior to the bid 7 submittal deadline and address the request to the Project Engineer or such other 8 person designated by the Contracting Agency in the Bid Documents.

10 1-02.15 Pre Award Information

11 (December 30, 2022 APWA GSP)

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13 Revise this section to read:

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

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

29 1-03 Award and Execution of Contract

- 31 1-03.1 Consideration of Bids
- 32 (December 30, 2022 APWA GSP)
- 33 34

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Revise the first paragraph to read:

36 After opening and reading proposals, the Contracting Agency will check them for 37 correctness of extensions of the prices per unit and the total price. If a discrepancy exists 38 between the price per unit and the extended amount of any bid item, the price per unit will 39 control. If a minimum bid amount has been established for any item and the bidder's unit 40 or lump sum price is less than the minimum specified amount, the Contracting Agency will 41 unilaterally revise the unit or lump sum price, to the minimum specified amount and 42 recalculate the extension. The total of extensions, corrected where necessary, including 43 sales taxes where applicable and such additives and/or alternates as selected by the 44 Contracting Agency, will be used by the Contracting Agency for award purposes and to fix 45 the Awarded Contract Price amount and the amount of the contract bond.

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- 47 1-03.3 Execution of Contract
- 48 (January 4, 2024 APWA GSP Option A)
- 49
- 50 This section is supplemented with the following:

1 2 3 4 5	the wh DB	thin 5 calendar days of the Award date (not including Saturdays, Sundays and Holidays), e successful Bidder shall provide DBE Trucking Credit Form(s) (WSDOT Form 272-058) en trucking appears on the DBE Utilization Certificate (WSDOT Form 272-056). The E Trucking Credit Form shall document how the DBE Trucking firm will be able to form the scope of work subcontracted to them.
6		
7 8		icking forms will be returned for correction. Trucking Credit Form(s) will not be included part of the executed Contract.
9		
10 11	DB	E Trucking Credit Forms shall be submitted in one of the following ways: 1) By E-mail *** Alan Lytton – <u>alan.lytton@ci.stanwood.wa.us</u> and
12		CRP@wsdot.wa.gov *** or
13 14		2) By Mail to: *** 10220 270th Street NW, Stanwood, WA 98292 ***
15 16		3) By *** N/A ***
17	1-03.4	Contract Bond
18		3, 2015 APWA GSP)
19		
20 21	Delete	the first paragraph and replace it with the following:
22	Th	e successful bidder shall provide executed payment and performance bond(s) for the
23		contract amount. The bond may be a combined payment and performance bond; or
24		separate payment and performance bonds. In the case of separate payment and
25 26	• • • • • • • • •	formance bonds, each shall be for the full contract amount. The bond(s) shall:
27		Be on Contracting Agency-furnished form(s); Be signed by an approved surety (or sureties) that:
28	۷.	a. Is registered with the Washington State Insurance Commissioner, and
29		 b. Appears on the current Authorized Insurance List in the State of Washington
30		published by the Office of the Insurance Commissioner,
31 32 33 34	3.	Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
35 36 37		a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
38		b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
39		Contractor) to pay all laborers, mechanics, subcontractors, lower tier
40		subcontractors, material person, or any other person who provides supplies or
41		provisions for carrying out the work;
42	4.	Be conditioned upon the payment of taxes, increases, and penalties incurred on the
43	F	project under titles 50, 51, and 82 RCW; and
44 45	Э.	Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
46	6	Be signed by an officer of the Contractor empowered to sign official statements (sole
47 48		proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the

authority of the individual signing the bond(s) to bind the corporation (i.e., corporate
 resolution, power of attorney, or a letter to such effect signed by the president or vice
 president).

5 1-03.7 Judicial Review

(December 30, 2022 APWA GSP)

8 Revise this section to read:

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

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1-04 Scope of the Work

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- 19 1-04.2 Coordination of Contract Documents, Plans, Special Provisions,
 20 Specifications, and Addenda
- 21 (December 30, 2022 APWA GSP) 22
- 23 Revise the second paragraph to read:
- Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):
- 27 1. Addenda,
- 28 2. Proposal Form,
- 29 3. Special Provisions,
- 30 4. Contract Plans,
- 31 5. Standard Specifications,
 - 6. Contracting Agency's Standard Plans or Details (if any), and
 - 7. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.
- 35 1-04.4 Changes
- 36 (January 19, 2022 APWA GSP)
- 38 The first two sentences of the last paragraph of Section 1-04.4 are deleted.

39 40 1-04.4(1) Minor Changes

- 41 (May 30, 2019 APWA GSP)
- 42

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43 Delete the first paragraph and replace it with the following:

- Payments or credits for changes amounting to \$25,000 or less may be made under the
 Bid item "Minor Change". At the discretion of the Contracting Agency, this procedure for
 Minor Changes may be used in lieu of the more formal procedure as outlined in Section
 1-04.4, Changes. All "Minor Change" work will be within the scope of the Contract Work
 and will not change Contract Time.
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2 (COS GSP) 3

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Section 1-04.11 is deleted in its entirety and replaced with the following:

From time to time or as may be ordered by the Engineer, the Contractor shall cleanup and remove debris, refuse, and discarded materials of any kind resulting from the Work. Failure to do so may result in cleanup done by the Owner and the costs deducted from the Contractor's progress estimate.

The Contractor shall perform final cleanup as provided in this Section. The Engineer will not establish the Physical Completion Date until this is done. All public and private property the Contractor occupied to do the Work, including but not limited to the Street 14 Right of Way, material sites, borrow and waste sites, and construction staging area shall 15 be left neat and presentable. Immediately after completion of the Work, the Contractor 16 shall cleanup and remove all refuse and unused materials of any kind resulting from the Work. Failure to do the final cleanup may result in the final cleanup being done by the 18 Owner and the costs deducted from the Contractor's final progress estimate.

- The Contractor shall:
 - 1. Remove all rubbish, surplus materials, discarded materials, falsework, piling, camp buildings, temporary structures, equipment, and debris;
 - 2. Remove from the Project, all unneeded, oversized rock left from grading, surfacing, or paving unless the Contract specifies otherwise, or the Engineer approves otherwise;
 - 3. On all concrete and asphalt pavement work, flush the pavement clean and remove the wash water and debris;
 - Sweep and flush structure decks and remove wash water and debris:
 - 5. Clean out from all open culverts and drains, inlets, catch basins, manholes and water main valve chambers, within the limits of the Project Site, all dirt and debris of any kind that is the result of the Contractor's operations;
 - 6. Level and fine grade all excavated material not used for backfill where the Contract requires;
 - 7. Fine grade all slopes;
 - 8. Upon completion of grading and cleanup operations at any privately-owned site for which a written agreement between the Contractor and property owner is required, the Contractor shall obtain and furnish to the Engineer a written release from all damages, duly executed by the property owner, stating that the restoration of the property has been satisfactorily accomplished.

All costs associated with cleanup shall be incidental to the Work and shall be included in the various Bid items in the Bid and shall be at no additional cost to the Owner.

45 1-05 **Control of Work**

- 46
- 47 1-05.4 Conformity With And Deviations From Plans And Stakes
- 48 Section 1-05.4 is supplemented with the following:
- 49
- 50 (January 13, 2021)
- 51 Contractor Surveying - Roadway
- 52 The Contracting Agency has provided primary survey control in the Plans.

1		
2	The Cor	ntractor shall be responsible for setting, maintaining, and resetting all alignment
3		slope stakes, and grades necessary for the construction of the roadbed, drainage,
4		g, paving, channelization and pavement marking, illumination and signals,
5		ils and barriers, and signing. Except for the survey control data to be furnished
6		
		Contracting Agency, calculations, surveying, and measuring required for setting
7	and mai	ntaining the necessary lines and grades shall be the Contractor's responsibility.
8		
9	The Cor	ntractor shall inform the Engineer when monuments are discovered that were not
10	identifie	d in the Plans and construction activity may disturb or damage the monuments.
11	All monu	uments noted on the plans "DO NOT DISTURB" shall be protected throughout the
12		f the project or be replaced at the Contractors expense.
13	.	
14	Detailed	survey records shall be maintained, including a description of the work
15		ed on each shift, the methods utilized, and the control points used. The record
16		adequate to allow the survey to be reproduced. A copy of each day's record shall
17	be provi	ded to the Engineer within three working days after the end of the shift.
18		
19		aning of words and terms used in this provision shall be as listed in "Definitions of
20		ng and Associated Terms" current edition, published by the American Congress
21	on Surve	eying and Mapping and the American Society of Civil Engineers.
22		
23	The surv	vey work shall include but not be limited to the following:
24		
25	1.	Verify the primary horizontal and vertical control furnished by the Contracting
26	• •	Agency, and expand into secondary control by adding stakes and hubs as well
27		as additional survey control needed for the project. Provide descriptions of
28		secondary control to the Contracting Agency. The description shall include
29		coordinates and elevations of all secondary control points.
30		
31	2.	Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on
32		centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and
33		at points on the alignments spaced no further than 50 feet.
34		
35	3.	Establish clearing limits, placing stakes at all angle points and at intermediate
36		points not more than 50 feet apart. The clearing and grubbing limits shall be 5
37		feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise
38		shown in the Plans.
39		
40	4.	Establish grading limits, placing slope stakes at centerline increments not more
	·**.	
41		than 50 feet apart. Establish offset reference to all slope stakes. If Global
42		Positioning Satellite (GPS) Machine Controls are used to provide grade control,
43		then slope stakes may be omitted at the discretion of the Contractor
44		
45	5.	Establish the horizontal and vertical location of all drainage features, placing
46		offset stakes to all drainage structures and to pipes at a horizontal interval not
47		greater than 25 feet.
48		
49	6.	Establish roadbed and surfacing elevations by placing stakes at the top of
50		subgrade and at the top of each course of surfacing. Subgrade and surfacing
51		stakes shall be set at horizontal intervals not greater than 50 feet in tangent
52		sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-
52		sections, 20 reet in ourve sections with a radius less than 500 reet, and at 10-

1 2 3 4 5 6 7		stakes shall be placed at all additional points such that the	locations where the ne transverse spaci ols are used to prov	less than 10 feet. Transversely, e roadway slope changes and at ng of stakes is not more than 12 vide grade control, then roadbed cretion of the Contractor.
7 8 9	7.	Establish intermediate ele throughout the project.	vation benchmark	s as needed to check work
10 11 12 13	8.			ntervals or provide simultaneous of paving pins as they are being
14 15 16 17 18	9.	limited to channelization a	nd pavement mar signing) provide sta	this provision, (including but not rking, illumination and signals, aking and layout as necessary to ecific construction activity.
19 20 21 22 23 24 25	10.	sections shown in the Cont and drainage where matchin from new pavement to exis	ract Plans in order g into existing featu ting pavement. The	eded to the profiles or roadway to achieve proper smoothness ures, such as a smooth transition e Contractor shall submit these al 10 days prior to the beginning
26 27 28	staking	data when requested by the E	Engineer.	copies of any calculations and
29 30	The Cor	ntractor shall ensure a survey	ing accuracy within	the following tolerances:
31 32 33	2 - 1 (10) (2 - 1)	pe stakes ograde grade stakes set	<u>Vertical</u> ±0.10 feet	<u>Horizontal</u> ±0.10 feet
34 35 36 37 38		0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
39 40 41 42 43 44	Alig	tioning on roadway Inment on roadway facing grade stakes	N/A N/A ±0.01 feet	±0.1 feet ±0.04 feet ±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
45 46 47 48 49 50 51		adway paving pins for surfacing or paving	±0.01 feet	±0.2 feet (parallel to alignment) ±0.1 feet (normal to alignment)

- 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 roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.
- 8 The Contractor shall calculate coordinates for the alignment. The Contracting Agency will 9 verify these coordinates prior to issuing approval to the Contractor for commencing with 10 the work. The Contracting Agency will require up to seven calendar days from the date 11 the data is received.
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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.

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

Payment

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

"Roadway Surveying", lump sum.

The lump sum contract price for "Roadway 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.

(March 9, 2023)

Contractor Surveying – ADA Features

ADA Feature Staking Requirements

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

41 ADA Feature Contract Compliance

42 The Contractor shall be responsible for completing measurements to verify all ADA 43 features comply with the Contract in the presence of the Engineer. 44

- ADA Feature As-Built Measurements
- 46 The Contractor shall be responsible for providing the latitude and longitude of each 47 ADA feature as indicated on the ADA Inspection Form(s) (WSDOT Form 224-020).
- 48
- The completed ADA Inspection Form(s) (WSDOT Form 224-020) shall be submitted as a Type 3 Working Drawing and transmitted to the Engineer within 30 calendar days of completing the ADA feature. After acceptance, the Contracting Agency will submit the final form(s) to the WSDOT ADA Steward.

Payment

Payment will be made for the following bid item that is included in the Proposal:

"ADA Features Surveying", lump sum.

The lump sum Contract price for "ADA Features Surveying" shall be full pay for all the Work as specified.

In the instance where an ADA feature does not meet accessibility requirements, all work to replace non-compliant work and then to measure, record the as-built measurements, and transmit the electronic forms to the Engineer shall be completed at no additional cost to the Contracting Agency.

Contractor Surveying – Preloading

Settlement Monitoring

The Contractor shall engage a professional surveyor licensed in the State of Washington to perform during-construction settlement plate surveys. The Contractor shall survey the top of each base plate and the adjacent ground surface at the time interval specified herein or as approved by the Engineer in the event of damage/disturbance to the installation or to rectify erroneous survey information. No extra cost shall be allowed for such additional survey Work resulting from damages to the settlement plates or survey errors. The Contractor shall be responsible for providing safe access to the top of the preload embankment to avoid damaging erosion control measures.

The Contractor shall notify the Engineer when settlement plate installation is scheduled to begin. The Contractor shall coordinate with their professional surveyor to assure the surveyor has access during the installation process and for all recording periods. The testing procedure frequency used by the surveyor shall be as follows:

- Immediately after the initial installation of a settlement plate. The elevation
 of the base plate shall be surveyed through the use of a survey rod or
 metallic survey tape lowered to the base plate through the attached pipe
 section. This elevation, as well as the elevation of the adjacent ground
 surface, shall be recorded within two (2) hours following the completion of
 the installation.
- 2. At the conclusion of a workday when any embankment construction has occurred during that workday. The elevation of the base plate and ground at all settlement plate locations, within twenty-five (25) feet of an area filled during that workday, shall be recorded within twenty-four (24) hours after the conclusion of that workday and before any following embankment construction is restarted.
- 3. On a weekly basis for all settlement plate locations for the first month following completion of the preload embankment, bi-weekly for the next three (3) months, and monthly thereafter until the Engineer determines that settlements are substantially complete.

The elevation of each settlement plate base plate shall be determined by the surveyor to the nearest 0.01 foot. Adjacent fill elevation shall be determined to the

4	
1	nearest 0.1 foot. Elevation measurements shall be made relative to a temporary
2 3 4 5 6 7	benchmark. The temporary benchmark shall be established on stable ground, not
3	subject to embankment preload settlement; and be located at least 200 feet away
4	from the embankment; and be in a condition such that it is available to the Engineer
5	for follow-up survey after the embankment placement is complete.
6	
1	Survey data, in the form of tabulated elevations for each of the settlement plate
8 9	location, shall be available for review by the Engineer and Contracting Agency within
	forty-eight (48) hours of when the settlement plate was surveyed.
10	Be establish Original Organd
11 12	Re-establish Original Ground
12	Once the Engineer determines that settlements are substantially complete, the
14	Contractor shall survey the existing ground throughout the preloading area and
15	provide the Engineer with the survey, in AutoCAD 2020 or xml format. This survey will be used to confirm roadway excavation and embankment quantities as specified
16	in Special Provision Section 2-03.
17	III Special Frovision Section 2-03.
18	Payment
19	Payment will be made for the following bid item that is included in the Proposal:
20	r ayment will be made for the following bid item that is included in the r roposal.
21	"Preload Surveying", lump sum.
22	r roload odrivojnig , lanp odri.
23	The unit Contract price per lump sum for "Preload Surveying" shall be full pay for all the
24	Work as specified.
25	
26	1-05.7 Removal of Defective and Unauthorized Work
27	(October 1, 2005 APWA GSP)
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	Supplement this section with the following:
28 29 30	
28 29 30 31	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified
28 29 30 31 32	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by
28 29 30 31 32 33	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be
28 29 30 31 32 33 34	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as
28 29 30 31 32 33 34 35	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be
28 29 30 31 32 33 34 35 36	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.
28 29 30 31 32 33 34 35 36 37	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer
28 29 30 31 32 33 34 35 36 37 38	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and
28 29 30 31 32 33 34 35 36 37 38 39	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced,
28 29 30 31 32 33 34 35 36 37 38 39 40	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency
28 29 30 31 32 33 34 35 36 37 38 39 40 41	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	Supplement this section with the following: If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary. If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the
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1 2 3 4	No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.							
5 6 7 8	The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damage with respect to the Contractor's failure to perform the work as required.							
9 10	1-05.9 Equipment (COS GSP)							
11	,							
12 13	The followin	he following new paragraph is inserted between the second and third paragraphs:						
14 15 16		Use of equipment with metal tracks will not be permitted on concrete or asphalt surfaces unless otherwise authorized by the Engineer.						
17 18	1-05.11	Final Inspection						
19 20	Delete this s	section and replace it with the following:						
21 22 23	1-05.11 (Octobe)	Final Inspections and Operational Testing r 1, 2005 APWA GSP)						
24 25	1-05.11(1-05.11(1) Substantial Completion Date						
26 27 28 29 30 31 32 33	shall so Complet remain t schedule	e Contractor considers the work to be substantially complete, the Contractor notify the Engineer and request the Engineer establish the Substantial ion Date. The Contractor's request shall list the specific items of work that o be completed in order to reach physical completion. The Engineer will e an inspection of the work with the Contractor to determine the status of on. The Engineer may also establish the Substantial Completion Date illy.						
34 35 36 37 38 39 40	substant the Cont Enginee	his inspection, the Engineer concurs with the Contractor that the work is tially complete and ready for its intended use, the Engineer, by written notice to tractor, will set the Substantial Completion Date. If, after this inspection the r does not consider the work substantially complete and ready for its intended Engineer will, by written notice, so notify the Contractor giving the reasons						
41 42 43 44 45 46	Upon receipt of written notice concurring in or denying substantial completion is applicable, the Contractor shall pursue vigorously, diligently and without un interruption, the work necessary to reach Substantial and Physical Completio Contractor shall provide the Engineer with a revised schedule indicating when Contractor expects to reach substantial and physical completion of the work.							
47 48 49		ove process shall be repeated until the Engineer establishes the Substantial ion Date and the Contractor considers the work physically complete and ready for pection.						
50 51 52	1-05.11(2) Final Inspection and Physical Completion Date						

1 When the Contractor considers the work physically complete and ready for final 2 inspection, the Contractor by written notice, shall request the Engineer to schedule a 3 final inspection. The Engineer will set a date for final inspection. The Engineer and the 4 Contractor will then make a final inspection and the Engineer will notify the Contractor in 5 writing of all particulars in which the final inspection reveals the work incomplete or 6 unacceptable. The Contractor shall immediately take such corrective measures as are 7 necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, 8 diligently, and without interruption until physical completion of the listed deficiencies. This 9 process will continue until the Engineer is satisfied the listed deficiencies have been 10 corrected.

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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.

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20 Upon correction of all deficiencies, the Engineer will notify the Contractor and the 21 Contracting Agency, in writing, of the date upon which the work was considered physically 22 complete. That date shall constitute the Physical Completion Date of the contract, but shall 23 not imply acceptance of the work or that all the obligations of the Contractor under the 24 contract have been fulfilled. 25

1-05.11(3) Operational Testing

28 It is the intent of the Contracting Agency to have at the Physical Completion Date a 29 complete and operable system. Therefore when the work involves the installation of 30 machinery or other mechanical equipment; street lighting, electrical distribution or signal 31 systems; irrigation systems; buildings; or other similar work it may be desirable for the 32 Engineer to have the Contractor operate and test the work for a period of time after final 33 inspection but prior to the physical completion date. Whenever items of work are listed in 34 the Contract Provisions for operational testing they shall be fully tested under operating 35 conditions for the time period specified to ensure their acceptability prior to the Physical 36 Completion Date. During and following the test period, the Contractor shall correct any 37 items of workmanship, materials, or equipment which prove faulty, or that are not in first 38 class operating condition. Equipment, electrical controls, meters, or other devices and 39 equipment to be tested during this period shall be tested under the observation of the 40 Engineer, so that the Engineer may determine their suitability for the purpose for which 41 they were installed. The Physical Completion Date cannot be established until testing 42 and corrections have been completed to the satisfaction of the Engineer.

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

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48 Operational and test periods, when required by the Engineer, shall not affect a 49 manufacturer's guaranties or warranties furnished under the terms of the contract.

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51 1-05.13 Superintendents, Labor and Equipment of Contractor

52 (August 14, 2013 APWA GSP)

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2	Delete the sixth and seventh paragraphs of this section.						
3							
4	1-05.14 Cooperation With Other Contractors						
5	Section 1-05.14 is supplemented with the following:						
6 7							
	(March 13, 1995)						
8	Other Contracts Or Other Work						
9	It is anticipated that the following work adjacent to or within the limits of this project will						
10 11	be performed by others during the course of this project and will require coordination of the work:						
12	the work.						
13	***						
14	271st Street NW Near Term Improvements: 88th Avenue NW to 84th Avenue NW						
15	City of Stanwood						
16	Alan Lytton						
17	(360) 502-1326						
18	Alan.Lytton@ci.stanwood.wa.us						
19	***						
20							
21	1-05.15 Method of Serving Notices						
22	(January 4, 2024 APWA GSP)						
23 24	Device the second encount to used						
24	Revise the second paragraph to read:						
26	All correspondence from the Contractor shall be served and directed to the Engineer.						
27	All correspondence from the Contractor constituting any notification, notice of protest,						
28	notice of dispute, or other correspondence constituting notification required to be						
29	furnished under the Contract, must be written in paper format, hand delivered or sent						
30	via certified mail delivery service with return receipt requested to the Engineer's office.						
31	Electronic copies such as e-mails or electronically delivered copies of correspondence						
32	will not constitute such notice and will not comply with the requirements of the Contract.						
33							
34	Add the following new section:						
35	4 OF 46 Water and Dewar						
36 37	1-05.16 Water and Power						
38	(October 1, 2005 APWA GSP)						
39	The Contractor shall make necessary arrangements, and shall bear the costs for power						
40	and water necessary for the performance of the work, unless the contract includes power						
41	and water as a pay item.						
42							
43	Add the following new section:						
44							
45	1-05.18 Record Drawings						
46	(March 8, 2013 APWA GSP)						
47							
48	The Contractor shall maintain one set of full size plans for Record Drawings, updated						
49 50	with clear and accurate red-lined field revisions on a daily basis, and within 2 business						
50	days after receipt of information that a change in Work has occurred. The Contractor shall not conceal any work until the required information is recorded.						
52	shan not concear any work until the required information is recorded.						
52							

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

7 The preparation and upkeep of the Record Drawings is to be the assigned responsibility 8 of a single, experienced, and qualified individual. The quality of the Record Drawings, in 9 terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting 10 Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a 11 complete set of Record Drawings for the Contracting Agency without further investigative 12 effort by the Contracting Agency.

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

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

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

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31 When the Contract calls for the Contractor to do the surveying/staking, the applicable 32 tolerance limits include, but are not limited to the following:

foot ± 0.01 foot
1 foot ± 0.001 foot
foot ± 0.10 foot
foot ± 0.10 foot
foot ± 0.10 foot
foot ± 0.10 foot
± 0.10 foot
1

- 34 Making Entries on the Record Drawings:
- 35 36

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 Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:

- 38 Additions Red
- 39 Deletions Green
- 40 Comments Blue

- Dimensions- Graphite
 - Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
 - Date all entries.

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 Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

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

- 15 Payment will be made for the following bid item:
 - Record Drawings Lump Sum (Minimum Bid \$5,000)

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

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

- 26 1-06 Control of Material
- 27 Section 1-06 is supplemented with the following:28
 - Build America/Buy America
- 31 (December 20, 2023)

32 General Requirements

In accordance with Buy America Preferences for Infrastructure Projects requirements
 contained in 2 CFR 184 and Division G, Title IX - Build America, Buy America Act (BABA),
 of Public Law 117-58 (Infrastructure Investment and Jobs Act), the following materials
 must be American-made:

- All steel and iron used in the project are produced in the United States. This
 means all manufacturing processes, from the initial melting stage through the
 application of coatings, occurred in the United States.
- 2. All manufactured products used in the project are produced in the United States. This means the manufactured product was manufactured in the United States, and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation.

1 3. All construction materials are manufactured in the United States. This means 2 that all manufacturing processes for the construction material occurred in the 3 United States. 4 5 An article, material, or supply will be classified in one of three categories: 1) Steel and 6 Iron, 2) Manufactured Product or 3) Construction Material. Only a single category will 7 apply to an item and be subject to the requirements of the BABA requirements of that 8 category. Some contract items are composed of multiple parts that may fall into different 9 categories. Individual components will be categorized as a construction material. 10 manufactured product, or steel and iron based on their composition when they arrive at 11 the staging area or work site. When steel or iron are a component of a manufactured 12 product or construction material, the steel and iron components will be subject to "Steel 13 and Iron Requirements" of this Specification. 14 Definitions 15 16 1. Construction material: Defined as any article, material, or supply brought to the 17 construction site for incorporation into the final product. Construction materials 18 include an article, material, or supply that is or consists primarily of: 19 20 Non-ferrous metals including all manufacturing processes, from initial smelting a. 21 or melting through final shaping, coating, and assembly; 22 23 b. Plastic and polymer-based products including all manufacturing processes, from 24 initial combination of constituent plastic or polymer-based inputs, or, where 25 applicable, constituent composite materials, until the item is in its final form); 26 27 C. Glass including all manufacturing processes, from initial batching and melting of 28 raw materials through annealing, cooling, and cutting); 29 30 Fiber optic cable (includes drop cable) including all manufacturing processes, d. 31 50 from initial ribboning (if applicable), through buffering, fiber stranding and 32 jacketing, (fiber optic cable also includes the standards for glass and optical 33 fiber); 34 35 Optical fiber including all manufacturing processes, from the initial preform e. 36 fabrication stage, though the completion of the draw; 37 38 f. Lumber including all manufacturing processes, from initial debarking through 39 treatment and planing; 40 41 Drywall including all manufacturing processes, from initial blending of mined or g. 42 synthetic gypsum plaster and additives through cutting and drying of 43 sandwiched panels; or 44 45 Engineered wood including all manufacturing processes from the initial h. 46 combination of constituent materials until the wood product is in its final form. 47 48 Construction Materials do not include items of primarily iron or steel; manufactured 49 products; cement and cementitious materials; aggregates such as stone, sand, or 50 gravel; or aggregate binding agents or additives. 51

- If a Construction Material is not manufactured in the United States it shall be considered a Foreign Construction Material.
- Manufactured Product: A Manufactured product includes any item produced as a 2. result of the manufacturing process. Items that consist of two or more of the listed construction materials that have been combined together through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials.
- Manufactured in the United States: A construction material will be considered as 3. manufactured in the United States if all manufacturing processes have occurred in the United States.
 - 4. Structural Steel: Defined as all structural steel products included in the project.
 - 5. United States: To further define the coverage, a domestic product is a manufactured steel construction material that was produced in one of the 50 states, the District of Columbia, Puerto Rico, or in the territories and possessions of the United States.

21 Steel and Iron Requirements

Major guantities of steel and iron construction materials that are permanently incorporated into the project shall consist of American-made materials only. BABA requirements do not apply to temporary steel or iron items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and falsework.

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

American-made material is defined as material having all manufacturing processes 32 occurring domestically.

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34 If domestically produced steel billets or iron ingots are exported outside of the area of 35 coverage, as defined above, for any manufacturing process then the resulting product 36 does not conform to the BABA requirements. Additionally, products manufactured domestically from foreign source steel billets or iron ingots do not conform to the BABA 38 requirements because the initial melting and mixing of alloys to create the material 39 occurred in a foreign country.

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41 Manufacturing begins with the initial melting and mixing and continues through the coating 42 stage. Any process which modifies the chemical content, the physical size or shape, or 43 the final finish is considered a manufacturing process. The processes include rolling, 44 extruding, machining, bending, grinding, drilling, welding, and coating. The action of 45 applying a coating to steel or iron is deemed a manufacturing process. Coating includes 46 epoxy coating, galvanizing, aluminizing, painting, and any other coating that protects or 47 enhances the value of steel or iron. Any process from the original reduction from ore to 48 the finished product constitutes a manufacturing process for iron.

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50 Due to a nationwide waiver, BABA requirements do not apply to raw materials (iron ore 51 and alloys), scrap (recycled steel or iron), and pig iron ore processed, pelletized, and 52 reduced iron ore.

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2 3	The follo	ollowing are considered to be steel manufacturing processes:							
4	1.	Pro	duction of steel by any of the following processes:						
6 7		a.	Open hearth furnace.						
8		b.	Basic oxygen.						
9 10		C.	Electric furnace.						
11 12		d.	Direct reduction.						
13 14	2.	Rol	ling, heat treating, and any other similar processing.						
15 16	3.	Fab	prication of the products:						
17 18		a.	Spinning wire into cable or strand.						
19 20		b.	Corrugating and rolling into culverts.						
21 22		C.	Shop fabrication.						
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	steel or perman by the I Enginee informat Manufa follow "S Constr A Contr progress certifica material Buy Am Enginee	r iron ent w Engir er, or tion a actur a nati cture Steel ractor s es tion i ls ins herica er, or tion a	n of materials origin will be required for all items comprised of, or containing, a construction materials prior to such items being incorporated into the ork. The Contractor will not receive payment until the certification is received heer. The certification shall be on WSDOT Form 350-109 provided by the such other form the Contractor chooses, provided it contains the same is WSDOT Form 350-109. red Products ionwide waiver, BABA requirements do not apply to manufactured products. Id products that contain steel and iron, regardless of a nationwide waiver, will and Iron Requirements" of this Specification. on Material Requirements r provided certification of materials origin will be required before each timate or payment. The Contractor shall certify that all construction talled during the current progress estimate period meets the Build America, Act. The certification shall be on WSDOT Form 350-110 provided by the such other form the Contractor chooses, provided it contains the same is WSDOT Form 350-110.						
46 47 48	Waiver for De Minimis Costs Minor amounts of Foreign Construction Materials may be utilized in this project, provided that the total cost of the Foreign Construction Materials does not exceed \$1,000,000 and does not exceed 5 percent of the total applicable material costs calculated as follows:								
49									
50			$\frac{Total\ cost\ of\ Foreign\ Construction\ Materials}{Total\ applicable\ material\ costs} < 0.05$						
51									

1 The total applicable material costs shall be the sum of the costs all Construction Materials, 2 all Steel and Iron, and all Manufactured Products. Total applicable material costs does 3 not include the cost of cement and cementitious materials; aggregates such as stone, 4 sand, or gravel; or aggregate binding agents or additives. 5 6 Steel and iron materials shall follow the "Steel and Iron Requirements" of this 7 Specification. 8 (*****) 9 10 Section 1-06 is supplement with the following: 11 12 The following proprietary drainage structure and illumination system equipment specified 13 for use on this Project contains foreign steel in the amount of \$220.00 and less than \$50, 14 respectively, and these amounts will be applied against the 1/10 or 1% of the contract 15 total allowed for foreign steel under Division G, Title IX - Build America, Buy America Act 16 (BABA), of Public Law 117-58 (Infrastructure Investment and Jobs Act): 17 18 • Modular Wetland 4 Ft. x 6 Ft. 19 Assembly parts including, but not limited to, bolts, nuts, and washers for the . 20 following Lumec light fixtures: 21 DMS50-SHA-110W64LED4K-R-LE3-BKTX-SMB 22 DMS60-SHA-80W48LED4K-R-LE4-UNIV-BKTX 23 DMS60-SHA-35W32LED4K-R-LE4-UNIV-BKTX 24 25 1-06.1 Approval of Materials Prior to Use 26 (COS GSP) 27 28 Section 1-06.1 is supplemented with the following: 29 30 Approval of a Material source shall not mean acceptance of the Material. The Material 31 shall meet the requirements of the Contract. 32 33 1-06.6 **Recycled Materials** 34 (January 4, 2016 APWA GSP) 35 36 Delete this section, including its subsections, and replace it with the following: 37 38 The Contractor shall make their best effort to utilize recycled materials in the construction 39 of the project. Approval of such material use shall be as detailed elsewhere in the 40 Standard Specifications. 41 42 Prior to Physical Completion the Contractor shall report the quantity of recycled materials 43 that were utilized in the construction of the project for each of the items listed in Section 44 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled 45 glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material 46 and aggregates from concrete returned to the supplier). The Contractor's report shall be 47 provided on DOT form 350-075 Recycled Materials Reporting. 48 1-07 Legal Relations and Responsibilities to the Public 49 50 51 1-07.1 Laws to be Observed 52

- (October 1, 2005 APWA GSP)
- 3 Supplement this section with the following:

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

- 8 The Washington State Department of Labor and Industries shall be the sole and 9 paramount administrative agency responsible for the administration of the provisions of 10 the Washington Industrial Safety and Health Act of 1973 (WISHA).
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12 The Contractor shall maintain at the project site office, or other well known place at the 13 project site, all articles necessary for providing first aid to the injured. The Contractor 14 shall establish, publish, and make known to all employees, procedures for ensuring 15 immediate removal to a hospital, or doctor's care, persons, including employees, who 16 may have been injured on the project site. Employees should not be permitted to work 17 on the project site before the Contractor has established and made known procedures 18 for removal of injured persons to a hospital or a doctor's care.

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20 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of 21 the Contractor's plant, appliances, and methods, and for any damage or injury resulting 22 from their failure, or improper maintenance, use, or operation. The Contractor shall be 23 solely and completely responsible for the conditions of the project site, including safety 24 for all persons and property in the performance of the work. This requirement shall apply 25 continuously, and not be limited to normal working hours. The required or implied duty of 26 the Engineer to conduct construction review of the Contractor's performance does not. 27 and shall not, be intended to include review and adequacy of the Contractor's safety 28 measures in, on, or near the project site.

29 30 (COS GSP)

31 Section 1-07.1 is supplemented with the following:

The Contractor shall at all times eliminate noise to the maximum practicable extent. Air compressing plants shall be equipped with silencers, and the exhaust of all gasoline motors or other power equipment shall be provided with mufflers. Special care shall be used to avoid noise or other nuisances, and the Contractor shall strictly observe all federal, state, and local regulations concerning noise.

- 39 1-07.1(2) Health and Safety
 - Section 1-07.1(2) is supplemented with the following:
 - (April 3, 2006)
- 42 43 **Confined Space**
 - Confined spaces are known to exist at the following locations:
 - ***
- Catch Basin Type 2 Locations detailed in the Contract Plans
- Modular Wetland No. 1 at Approx. Station 17+50 RT ***
- 50 51 The Contractor shall be fully responsible for the safety and health of all on-site workers 52 and compliant with Washington Administrative Code (WAC 296-809).

2 The Contractor shall prepare and implement a confined space program for each of the 3 confined spaces identified above. The Contractors Confined Space program shall be 4 sent to the Contracting Agency at least 30 days prior to the Contractor beginning work in 5 or adjacent to the confined space. No work shall be performed in or adjacent to the 6 confined space until the plan is submitted to the Engineer as required. The Contractor 7 shall communicate with the Engineer to ensure a coordinated effort for providing and 8 maintaining a safe worksite for both the Contracting Agency's and Contractor's workers 9 when working in or near a confined space.

- All costs to prepare and implement the confined space program shall be included in the bid prices for the various items associated with the confined space work.
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14 (COS GSP) 15

This project, the Contractor and its subcontractors, shall, at all times, be governed by Chapter XIII of Title 29, Code of Federal Regulations, Part 1518 - Safety and Health Regulations for Construction (35 CFR 75), as amended to date.

To implement the program, and to provide safe and healthful working conditions for all persons, the construction superintendent or his/her designated safety officer shall conduct general project safety meetings at the site at least once each month during the course of construction.

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The prime contractor and all subcontractors shall immediately report all accidents, injuries, and health hazards to the Manager, in writing. This shall not obviate any mandatory reporting under the provisions of the Occupational Safety and Health Act of 1970. This program shall become a part of the contract documents and the contract between the Owner and the Contractor, and all subcontractors, as though fully written therein.

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Where the location of the work is in proximity to overhead wires and power lines, the Contractor shall coordinate all work with the utility and shall provide for such measures as may be necessary for the protection of the workers.

36 1-07.2 State Taxes

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

- 1-07.2 State Sales Tax
- 40 (June 27, 2011 APWA GSP)
- 41

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

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- 48 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
- 49 contract amounts. In some cases, however, state retail sales tax will not be included.
- 50 Section 1-07.2(2) describes this exception.
- 51

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

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1-07.2(1) State Sales Tax — Rule 171

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11 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, 12 roads, etc., which are owned by a municipal corporation, or political subdivision of the 13 state, or by the United States, and which are used primarily for foot or vehicular traffic. 14 This includes storm or combined sewer systems within and included as a part of the 15 street or road drainage system and power lines when such are part of the roadway 16 lighting system. For work performed in such cases, the Contractor shall include 17 Washington State Retail Sales Taxes in the various unit bid item prices, or other contract 18 amounts, including those that the Contractor pays on the purchase of the materials, 19 equipment, or supplies used or consumed in doing the work.

- 20 21 **1-07.2(2) State Sales Tax — Rule 170**
- 21 22

23 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or 24 existing buildings, or other structures, upon real property. This includes, but is not 25 limited to, the construction of streets, roads, highways, etc., owned by the state of 26 Washington; water mains and their appurtenances; sanitary sewers and sewage 27 disposal systems unless such sewers and disposal systems are within, and a part of, a 28 street or road drainage system; telephone, telegraph, electrical power distribution lines, 29 or other conduits or lines in or above streets or roads, unless such power lines become a 30 part of a street or road lighting system; and installing or attaching of any article of 31 tangible personal property in or to real property, whether or not such personal property 32 becomes a part of the realty by virtue of installation.

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

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40 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor 41 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or 42 consumable supplies not integrated into the project. Such sales taxes shall be included 43 in the unit bid item prices or in any other contract amount.

- 44 45
- 1-07.2(3) Services
- 46

47 The Contractor shall not collect retail sales tax from the Contracting Agency on any

- 48 contract wholly for professional or other services (as defined in Washington State
- 49 Department of Revenue Rules 138 and 244).
- 50

51 1-07.5 Environmental Regulations

52 Section 1-07.5 is supplemented with the following:

2 (September 20, 2010)

Environmental Commitments

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

(August 3, 2009)

10 Payment

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

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

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

(August 4, 2014)

The Contractor shall submit a written notification to the Engineer no later than 10 calendar days prior to beginning any ground disturbing activities *** extending into native soil for tribal monitoring and trench excavations more than five (5) feet below existing grade west of Station 18+50. ***. The Contractor shall not commence any such ground disturbing activities until the monitor is present.

25 1-07.6 Permits and Licenses

26 Section 1-07.6 is supplemented with the following:

(*****)

The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits, are required to be onsite at all times.

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> 33 Contact with the permitting agencies, concerning the below-listed permit(s), shall be 34 made through the Engineer. The Contractor shall be responsible for obtaining Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical 35 36 Treatment Form). The Contractor shall obtain additional permits as necessary. All costs 37 to obtain and comply with additional permits shall be included in the applicable Bid items 38 for the Work involved. The Contractor shall, at their expense, arrange to have all permits 39 issued by the City of Stanwood extended, if in the course of the Contract the permits 40 expire.

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Permit or Approval	Permit #	Issuing Agency	Issued	Expires
Right of Way Permit	22-0101	City of Stanwood	11/17/2022	11/17/2024
SEPA	22-0101	City of Stanwood	11/17/2022	11/17/2024
NEPA		WSDOT Local Programs	10/20/2022	10/20/2025

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45 (COS GSP)

46 Business License

1 2 3 4	The Contractor and subcontractors must obtain, at their own expense, a City of Stanwood business license. The Contractor may apply for a city business license at https://stanwoodwa.org/488/Business-Licensing .
5 6	1-07.7 Load Limits Section 1-07.7 is supplemented with the following:
7 8 9 10 11	(March 13, 1995) If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.
12 13 14	1-07.9 Wages
15 16 17	1-07.9(1) General Section 1-07.9(1) is supplemented with the following:
18 19 20 21	<i>(January 10, 2024)</i> The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20240001.
22 23 24 25	The State rates incorporated in this contract are applicable to all construction activities associated with this contract.
26 27 28	1-07.9(5)A Required Documents (December 30, 2022 APWA GSP)
29 30	This section is revised to read as follows:
31 32 33 34 35	All Statements of Intent to Pay Prevailing Wages, Affidavits of Wages Paid and Certified Payrolls, including a signed Statement of Compliance for Federal-aid projects, shall be submitted to the Engineer and to the State L&I online Prevailing Wage Intent & Affidavit (PWIA) system.
36 37 38	1-07.11 Requirements for Nondiscrimination Section 1-07.11 is supplemented with the following:
39 40 41 42	(October 3, 2022) Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)
43 44 45 46	 The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.

1 2 3 4 5 6 7	2.	The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:					
6		Women - Statewide					
8 9		<u>Timetable</u> <u>Goal</u>					
10		Until further notice 6.9%					
11 12		Minorities - by Standard Metropolitan Statistical Area (SMSA)					
13		Spokane, WA:					
14		SMSA Counties:					
15		Spokane, WA 2.8					
16		WA Spokane.					
17 18		Non-SMSA Counties 3.0					
19		WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.					
20							
21		Richland, WA					
22		SMSA Counties:					
23		Richland Kennewick, WA 5.4					
24		WA Benton; WA Franklin.					
25		Non-SMSA Counties 3.6					
26		WA Walla Walla.					
27		N/-1					
28 29		Yakima, WA: SMSA Counties:					
30		Yakima, WA 9.7					
31		WA Yakima.					
32		Non-SMSA Counties 7.2					
33		WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.					
34							
35		Seattle, WA:					
36		SMSA Counties:					
37		Seattle Everett, WA 7.2					
38 39		WA King; WA Snohomish. Tacoma, WA 6.2					
40		Tacoma, WA 6.2 WA Pierce.					
40		Non-SMSA Counties 6.1					
42		WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap;					
43		WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA					
44		Thurston; WA Whatcom.					
45							
46		Portland, OR:					
47		SMSA Counties:					
48		Portland, OR-WA 4.5					
49 50		WA Clark. Non-SMSA Counties 3.8					
51		WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.					
52							

1 2 3 4 5 6 7 8 9		These goals are applicable to each nonexempt Contractor's total on-site construct workforce, regardless of whether or not part of that workforce is performing wor a Federal, or federally assisted project, contract, or subcontract until further no Compliance with these goals and time tables is enforced by the Office of Feo Contract compliance Programs.				
7 8 9 10 11 12 13 14 15 16 17 18 19		The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, in each construction craft and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.				
20 21 22 23 24 25 26 27 28 29	3.	The Contractor shall provide written notification to the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 or more that are Federally funded, at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed. The notification shall be sent to:				
30 31 32 33 34 35 36		U.S. Department of Labor Office of Federal Contract Compliance Programs Pacific Region Attn: Regional Director San Francisco Federal Building 90 – 7 th Street, Suite 18-300 San Francisco, CA 94103(415) 625-7800 Phone (415) 625-7799 Fax				
37 38 39	4.	As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as designated herein.				
40 41 42 43		Standard Federal Equal Employment Opportunity Construction Contract Specifications Executive Order 11246)				
44 45	1.	As used in these specifications:				
46 47 48		 Covered Area means the geographical area described in the solicitation from which this contract resulted; 				
49 50 51 52		 Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority; 				

1 2 3 4 5 6 7	used of	er Identification Number means the Federal Social Security number n the Employer's Quarterly Federal Tax Return, U. S. Treasury nent Form 941;
5	d. Minority	rincludes:
7 8 9	(1)	Black, a person having origins in any of the Black Racial Groups of Africa.
10 11 12 13	(2)	Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.
13 14 15 16 17	(3)	Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.
18 19 20 21	(4)	American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
22 2 23 24 25 26 27	the work involv subcontract in e Notice which cor	ontractor, or any subcontractor at any tier, subcontracts a portion of ing any construction trade, it shall physically include in each xcess of \$10,000 the provisions of these specifications and the atains the applicable goals for minority and female participation and in the solicitations from which this contract resulted.
27 28 3 29 30 31 32 33 34 35 36 37 38 39 40 41	approved by the through an assoc (including goals a which have union their participation Each Contractor required to comp faith effort to ac employees. Th subcontractors to	is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan U.S. Department of Labor in the covered area either individually or ciation, its affirmative action obligations on all work in the Plan area and timetables) shall be in accordance with that Plan for those trades as participating in the Plan. Contractors must be able to demonstrate in and compliance with the provisions of any such Hometown Plan. or subcontractor participating in an approved Plan is individually by with its obligations under the EEO clause, and to make a good chieve each goal under the Plan in each trade in which it has he overall good faith performance by other Contractors or oward a goal in an approved Plan does not excuse any covered subcontractor's failure to take good faith effort to achieve the Plan bles.
42 4 43 44 45 46 47 48 49 50 51 52	paragraphs 7a t solicitation from total hours of e Contractor should it has employees construction wor federally assisted established for t Contractor is exp	shall implement the specific affirmative action standards provided in hrough 7p of this Special Provision. The goals set forth in the which this contract resulted are expressed as percentages of the employment and training of minority and female utilization the d reasonably be able to achieve in each construction trade in which in the covered area. Covered construction contractors performing is in the covered areas where they do not have a Federal or d construction contract shall apply the minority and female goals the geographical area where the work is being performed. The bected to make substantially uniform progress in meeting its goals in the period specified.

- 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- The Contractor shall take specific affirmative actions to ensure equal employment
 opportunity. The evaluation of the Contractor's compliance with these specifications
 shall be based upon its effort to achieve maximum results from its action. The
 Contractor shall document these efforts fully, and shall implement affirmative action
 steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

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1 e. 2 3 4 5 6 7	Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
8 f. 9 10 11 12 13 14 15 16 17	Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
17 18 g. 19 20 21 22 23 24 25 26 27	Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
28 h. 29 30 31 32 33	Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
34 i. 35 36 37 38 39 40 41 42	Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
43 j. 44 45 46 47	Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
48 k. 49 50	Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
51 I. 52	Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these

1			employees to seek or to prepare for, through appropriate training, etc., such opportunities.
3			opportantico.
1 2 3 4 5 6 7 8 9		m.	Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
10 11 12 13		n.	Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
14 15 16 17		Ο.	Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
18 19 20 21 22		p.	Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	8.	fulfilling of a con similar g as fulfilli Provisio effort to and won reflected good fail to docum the Con	tors are encouraged to participate in voluntary associations which assist in one or more of their affirmative action obligations (7a through 7p). The efforts intractor association, joint contractor-union, contractor-community, or other group of which the Contractor is a member and participant, may be asserted ing any one or more of the obligations under 7a through 7p of this Special n provided that the Contractor actively participates in the group, makes every assure that the group has a positive impact on the employment of minorities men in the industry, ensure that the concrete benefits of the program are d in the Contractor's minority and female work-force participation, makes a th effort to meet its individual goals and timetables, and can provide access mentation which demonstrate the effectiveness of actions taken on behalf of tractor. The obligation to comply, however, is the Contractor's and failure of group to fulfill an obligation shall not be a defense for the Contractor's pliance.
38 39 40 41 42 43 44 45 46	9.	establisi opportu female, may be substan achieve	e goal for minorities and a separate single goal for women have been hed. The Contractor, however, is required to provide equal employment nity and to take affirmative action for all minority groups, both male and and all women, both minority and non-minority. Consequently, the Contractor in violation of the Executive Order if a particular group is employed in tially disparate manner (for example, even though the Contractor has d its goals for women generally, the Contractor may be in violation of the ve Order if a specific minority group of women is underutilized).
48 47 48 49 50	10.		ntractor shall not use the goals and timetables or affirmative action standards minate against any person because of race, color, religion, sex, or national
51 52	11.		ntractor shall not enter into any subcontract with any person or firm debarred overnment contracts pursuant to Executive Order 11246.

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2 3	12.	The Contractor shall carry out such sanctions and penalties for violation of these
3		specifications and of the Equal Opportunity Clause, including suspensions,
4		terminations and cancellations of existing subcontracts as may be imposed or
4 5 6		ordered pursuant to Executive Order 11246, as amended, and its implementing
6		
0		regulations by the Office of Federal Contract Compliance Programs. Any Contractor
7		who fails to carry out such sanctions and penalties shall be in violation of these
8		specifications and Executive Order 11246, as amended.
9		
10	13.	The Contractor, in fulfilling its obligations under these specifications, shall implement
11		specific affirmative action steps, at least as extensive as those standards prescribed
12		in paragraph 7 of this Special Provision, so as to achieve maximum results from its
13		efforts to ensure equal employment opportunity. If the Contractor fails to comply with
14		
		the requirements of the Executive Order, the implementing regulations, or these
15		specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
16		
17	14.	The Contractor shall designate a responsible official to monitor all employment
18		related activity to ensure that the company EEO policy is being carried out, to submit
19		reports relating to the provisions hereof as may be required by the government and
20		to keep records. Records shall at least include, for each employee, their name,
21		address, telephone numbers, construction trade, union affiliation if any, employee
22		identification number when assigned, social security number, race, sex, status (e.g.,
23		mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours
24		worked per week in the indicated trade, rate of pay, and locations at which the work
25		was performed. Records shall be maintained in an easily understandable and
26		retrievable form; however, to the degree that existing records satisfy this requirement,
27		the Contractors will not be required to maintain separate records.
28	-	
29	15.	Nothing herein provided shall be construed as a limitation upon the application of
30		other laws which establish different standards of compliance or upon the application
31		of requirements for the hiring of local or other area residents (e.g., those under the
32		Public Works Employment Act of 1977 and the Community Development Block Grant
33		Program).
34		
35	16.	Additional assistance for Federal Construction Contractors on contracts
36		administered by Washington State Department of Transportation or by Local
37		Agencies may be found at:
38		Agencies may be round at.
		Mashington State Dant of Transportation
39		Washington State Dept. of Transportation
40		Office of Equal Opportunity
41		PO Box 47314
42		310 Maple Park Ave. SE
43		Olympia WA
44		98504-7314
45		Ph: 360-705-7090
46		Fax: 360-705-6801
47		http://www.wsdot.wa.gov/equalopportunity/default.htm
48		The sector of th
49	(Octobe	r 1, 2020 APWA GSP, Option B)
49 50	10000be	
50	Supplay	cont this spation with the following:
	Supplen	nent this section with the following:
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Disadvantaged Business Enterprise Participation

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

DBE Abbreviations and Definitions

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

Certified Business Description – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory – A database of all Minority, Women, and Disadvantaged Business Enterprises currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

27 Commercially Useful Function (CUF) – 49 CFR 26.55(c)(1) defines 28 commercially useful function as: "A DBE performs a commercially useful function 29 when it is responsible for execution of the work of the contract and is carrying 30 out its responsibilities by actually performing, managing, and supervising the 31 work involved. To perform a commercially useful function, the DBE must also be 32 responsible, with respect to materials and supplies used on the contract, for 33 negotiating price, determining quality and quantity, ordering the material, and 34 installing (where applicable) and paying for the material itself. To determine 35 whether a DBE is performing a commercially useful function, you must evaluate 36 the amount of work subcontracted, industry practices, whether the amount the 37 firm is to be paid under the contract is commensurate with the work it is actually 38 performing and the DBE credit claimed for its performance of the work, and other 39 relevant factors."

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

Force Account Work – Work measured and paid in accordance with Section 1-09.6.

48 **Good Faith Efforts** – Efforts to achieve the DBE COA Goal or other 49 requirements of this part which, by their scope, intensity, and appropriateness to 50 the objective, can reasonably be expected to fulfill the program requirement.

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

Reasonable Fee (DBE) – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

12 **Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store, 13 warehouse, or other establishment in which the materials or supplies required 14 for the performance of a Contract are bought, kept in stock, and regularly sold 15 to the public in the usual course of business. To be a Regular Dealer, the DBE 16 firm must be an established regular business that engages in as its principal 17 business and in its own name the purchase and sale of the products in question. 18 A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum 19 products need not own, operate or maintain a place of business if it both owns 20 and operates distribution equipment for the products. Any supplementing of 21 regular dealers' own distribution equipment shall be by long-term formal lease 22 agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' 23 representatives, or other persons who arrange or expedite transactions shall not 24 be regarded as Regular Dealers within the meaning of this definition. 25

26 DBE Commitment – The scope of work and dollar amount the Bidder indicates 27 they will be subcontracting to be applied towards the DBE Condition of Award 28 Goal as shown on the DBE Utilization Certification Form for each DBE 29 Subcontractor. This DBE Commitment amount will be incorporated into the 30 Contract and shall be considered a Contract requirement. The Contractor shall 31 utilize the COA DBEs to perform the work and supply the materials for which 32 they are committed. Any changes to the DBE Commitment require the 33 Engineer's prior written approval.

DBE Condition of Award (COA) Goal – An assigned numerical amount specified as a percentage of the Contract. Initially, this is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE).

40 DBE COA Goal

The Contracting Agency has established a DBE COA Goal for this Contract in the amount of: *** 17% ***

44 Crediting DBE Participation

45 Subcontractors proposed as COA must be certified prior to the due date for bids on 46 the Contract. All non-COA DBE Subcontractors shall be certified before the 47 subcontract on which they are participating is executed.

DBE participation is only credited upon payment to the DBE.

- The following are some definitions of what may be counted as DBE participation.
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1 2 3 4 5 6 7	DBE Prime Contractor Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.
8 9 10 11 12 13	DBE Subcontractor Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces and is certified to perform. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.
14 15 16 17 18	The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.
19 20 21 22 23 24	DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.
25	When the subcontractor is part of a DBE Commitment, the following apply:
26 27 28 29	 If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the Lower-Tier Subcontractor is also a DBE.
30 31 32 33	Work subcontracted to a Lower-Tier Subcontractor that is a DBE, may be counted toward the DBE COA Goal.
34 35 36	 Work subcontracted to a non-DBE does not count towards the DBE COA Goal.
37 38 39 40	DBE Subcontract and Lower Tier Subcontract Documents There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE.
41 42 43 44 45 46 47 48	DBE Service Provider The value of fees or commissions charged by a DBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.
49 50 51 52	Force Account Work When the Bidder elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization

1 2 3	Certification Form, for the purposes of meeting the DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Bidder's Commitment to meet the DBE COA Goal.
2 3 4 5 6 7 8	One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards the DBE COA Goal or DBE participation.
8 9 10 11 12 13	Temporary Traffic Control If the DBE firm only provides "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment for it's employees (e.g. paddles, hard hats, and vests).
13 14 15 16 17	If the DBE firm provides "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.
18 19 20 21 22 23 24 25	Trucking DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling
26 27 28 29 30 31	The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.
32 33 34 35	The DBE may lease additional trucks from another DBE firm. The DBE who leases additional trucks from another DBE firm receives credit for the value of the transportation services the lessee DBE provides on the Contract.
36 37 38	The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project.
39 40 41 42 43	The DBE may lease trucks from a truck leasing company (recognized truck rental center), but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.
44 45 46	DBE Manufacturer and DBE Regular Dealer One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer may count towards the DBE COA Goal.
47 48 49 50 51 52	Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited towards the DBE Goal. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

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2	DBE firms proposed to be used as a Regular Dealer must be approved before
3	being listed as a COA/used on a project. The WSDOT Approved Regular Dealer
4	list published on WSDOT's Office of Equal Opportunity (OEO) web site must
5	include the specific project for which approval is being requested. For purposes
6	of the DBE COA Goal participation, the Regular Dealer must submit the Regular
1 2 3 4 5 6 7	Dealer Status Request form a minimum of five calendar days prior to bid
8	opening.
9	opening.
10	Purchase of materials or supplies from a DBE which is neither a manufacturer
11	nor a regular dealer, (i.e. Broker) only the fees or commissions charged for
12	assistance in the procurement of the materials and supplies, or fees or
13	transportation charges for the delivery of materials or supplies required on the
14	job site, may count towards the DBE COA Goal provided the fees are not
15	excessive as compared with fees customarily allowed for similar services.
16	Documentation will be required to support the fee/commission charged by the
17	DBE. The cost of the materials and supplies themselves cannot be counted
18	toward the DBE COA Goal.
19	
20	Note: Requests to be listed as a Regular Dealer will only be processed if the
21	
	requesting firm is a material supplier certified by the Office of Minority
22	and Women's Business Enterprises in a NAICS code that falls within
23	the 42XXXX NAICS Wholesale code section.
24	
25	Disadvantaged Business Enterprise Utilization
26	To be eligible for award of the Contract, the Bidder shall properly complete and
27	submit a Disadvantaged Business Enterprise (DBE) Utilization Certification with the
28	Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal.
29	The Bidder's DBE Utilization Certification must clearly demonstrate how the Bidder
30	intends to meet the DBE COA Goal. A DBE Utilization Certification (WSDOT Form
31	272-056) is included in the Proposal package for this purpose as well as instructions
32	on how to properly fill out the form.
33	and the property time as the terms
34	The Bidder is advised that the items listed below when listed in the Utilization
35	Certification must have their amounts reduced to the percentages shown and those
36	reduced amounts will be the amount applied towards meeting the DBE COA Goal.
37	reduced arrounds will be the arround applied towards meeting the DDL OOA Goal.
	Force account at 50%
38	
39	Regular dealer at 60%
40	
41	In the event of arithmetic errors in completing the DBE Utilization Certification, the
42	amount listed to be applied towards the DBE COA Goal for each DBE shall govern
43	and the DBE total amount shall be adjusted accordingly.
44	
45	Note: The Contracting Agency shall consider as non-responsive and shall
46	reject any Bid Proposal submitted that does not contain a DBE
47	Utilization Certification Form that accurately demonstrates how the
48	Bidder intends to meet the DBE COA Goal.
49	
50	Disadvantaged Business Enterprise Written Confirmation Document(s)
51	The Bidder shall submit an Disadvantaged Business Enterprise (DBE) Written
52	Confirmation Document (completed and signed by the DBE) for each DBE firm listed
02	Some and signed by the DDL for each DDL ministed

1	in the Bidder's completed DBE Utilization Certification submitted with the Bid. Failure			
	to do so will result in the associated participation being disallowed, which may cause			
2 3 4 5 6 7	the Bid to be determined to be nonresponsive resulting in Bid rejection.			
4				
5	The Confirmation Documents provide confirmation from the DBEs that they are			
6	participating in the Contract as provided in the Bidder's Commitment. The			
7	Confirmation Documents must be consistent with the Utilization Certification.			
8				
9	A DBE Written Confirmation Document (WSDOT Form 422-031) is included in the			
10	Proposal package for this purpose.			
11				
12	The form(s) shall be received as specified in the special provisions for Section 1-02.9			
13	Delivery of Proposal.			
14				
15	It is prohibited for the Bidder to require a DBE to submit a Written Confirmation			
16	Document with any part of the form left blank. Should the Contracting Agency			
17	determine that an incomplete Written Confirmation Document was signed by a DBE,			
18	the validity of the document comes into question. The associated DBE participation			
19	may not receive credit.			
20				
21	Selection of Successful Bidder/Good Faith Efforts (GFE)			
22	The successful Bidder shall be selected on the basis of having submitted the lowest			
23	responsive Bid, which demonstrates a good faith effort to achieve the DBE COA			
24	Goal. The Contracting Agency, at any time during the selection process, may request			
25	a breakdown of the bid items and amounts that are counted towards the overall			
26	contract goal for any of the DBEs listed on the DBE Utilization Certification.			
27				
28	Achieving the DBE COA Goal may be accomplished in one of two ways:			
29				
30	1. By meeting the DBE COA Goal			
31	Submission of the DBE Utilization Certification, supporting DBE Written			
32	Confirmation Document(s) showing the Bidder has obtained enough DBE			
33	participation to meet or exceed the DBE COA Goal, the DBE Bid Item			
34	Breakdown and the DBE Trucking Credit Form, if applicable.			
35				
36	2. By documentation that the Bidder made adequate GFE to meet the DBE			
37	<u>COA Goal</u>			
38	The Bidder may demonstrate a GFE in whole or part through GFE			
39	documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient			
40	DBE participation have been unsuccessful. The Bidder must supply GFE			
41	documentation in addition to the DBE Utilization Certification, supporting			
42	DBE Written Confirmation Document(s), the DBE Bid Item Breakdown form			
43	and the DBE Trucking Credit Form, if applicable.			
44				
45	Note: In the case where a Bidder is awarded the contract based on			
46	demonstrating adequate GFE, the advertised DBE COA Goal will not			
47	be reduced. The Bidder shall demonstrate a GFE during the life of the			
48	Contract to attain the advertised DBE COA Goal.			
49				
50	GFE documentation, the DBE Bid Item Breakdown form, and the DBE Trucking			
51	Credit Form, if applicable, shall be submitted as specified in Section 1-02.9.			
52				

1 2	The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.			
3 4 5 6	Good Faith Effort (GFE) Documentation GFE is evaluated when:			
7	1.	Determining award of a Contract that has COA goal,		
8 9	2.	When a COA DBE is terminated and substitution is required, and		
10 11 12	3.	Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.		
13 14 15 16 17 18 19	demons which w It is not	Part 26, Appendix A is intended as general guidance and does not, in itself, trate adequate good faith efforts. The following is a list of types of actions, ould be considered as part of the Bidder's GFE to achieve DBE participation. intended to be a mandatory checklist, nor is it intended to be exclusive or ive. Other factors or types of efforts may be relevant in appropriate cases.		
20 21 22 23 24 25 26 27	1.	Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.		
28 29 30 31 32 33	2.	Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate DBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.		
34 35 36	3.	Providing interested DBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.		
37 38 39 40 41 42 43 44 45 46 47 48		a. Negotiating in good faith with interested DBEs. It is the Bidder's responsibility to make a portion of the Work available to DBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the Work.		
49 50 51 52		b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the DBE COA Goal into consideration. However, the fact that there		

1 2 3 4 5 6 7		may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a Bidder's failure to meet the DBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Bidders are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
8 9 10 11 12 13 14 15	4.	Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the DBE COA Goal.
16 17 18	5.	Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
19 20 21	6.	Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
22 23 24 25 26 27	7.	Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
28 29 30 31 32	8.	Documentation of GFE must include copies of each DBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a DBE for Work on the Contract. (ref. updated DBE regulations – 26.53(b)(2)(vi) & App. A)
33 34 35 36	A Bidder	strative Reconsideration of GFE Documentation r has the right to request reconsideration if the GFE documentation submitted ir Bid was determined to be inadequate.
37 38 39	•	The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
40 41 42 43	•	The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
44 45 46 47	•	Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.
48 49 50 51	•	The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.

1 2 3 4	 The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.
5 6 7 8	DBE Bid Item Breakdown The Bidder shall submit a DBE Bid Item Breakdown Form (WSDOT Form 272-054) as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.
9 10 11 12	DBE Trucking Credit Form The Bidder shall submit a DBE Trucking Credit Form (WSDOT Form 272-058), as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.
13 14 15 16 17 18 19 20 21	Note: The DBE Trucking Credit Form is only required for a DBE Firm listed on the DBE Utilization Certification as a subcontractor for "Trucking" or "Hauling" and are performing a part of a bid item. For example, if the item of Work is Structure Excavation including Haul, and another firm is doing the excavation and the DBE Trucking firm is doing the haul, the form is required. For a DBE subcontractor that is responsible for an entire item of work that may require some use of trucks, the form is not required.
22 23 24 25 26	Procedures between Award and Execution After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.
27 28 29 30	 A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.
31 32 33 34	Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three years.
35 36 37 38 39 40 41 42 43 44 45 46 47 48	Procedures after Execution Commercially Useful Function (CUF) The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted
49 50 51	toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the Subcontractor

1	beginning Work. Any use of the Contractor's equipment by a DBE may not be
2 3	credited as countable participation.
3	
4	The DBE does not perform a CUF if its role is limited to that of an extra
5	participant in a transaction, contract, or project through which the funds are
6	passed in order to obtain the appearance of DBE participation.
4 5 6 7 8	
8	In order for a DBE traffic control company to be considered to be performing a
9	CUF, the DBE must be in control of its work inclusive of supervision. The DBE
10	shall employ a Traffic Control Supervisor who is directly involved in the
11	management and supervision of the traffic control employees and services.
12	
13	The following are some of the factors that the Engineer will use in determining
14	whether a DBE trucking company is performing a CUF:
15	
16	 The DBE shall be responsible for the management and supervision of
17	the entire trucking operation for which it is responsible on the contract.
18	The owner demonstrates business related knowledge, shows up on
19	site and is determined to be actively running the business.
20	
21	 The DBE itself shall own and operate at least one fully licensed,
22	insured, and operational truck used on the Contract. The drivers of the
23	trucks owned and leased by the DBE must be exclusively employed by
24	the DBE and reflected on the DBE's payroll.
25	
26	 Lease agreements for trucks shall indicate that the DBE has exclusive
27	use of and control over the truck(s). This does not preclude the leased
28	truck from working for others provided it is with the consent of the DBE
29	and the lease provides the DBE absolute priority for use of the leased
30	truck.
31	. I second trucks shall display the name and identification number of the
32 33	 Leased trucks shall display the name and identification number of the DBE.
34	DBE.
35	UDBE/DBE/FSBE Truck Unit Listing Log
36	In addition to the subcontracting requirements of Section 1-08.1, each DBE
37	trucking firm shall submit supplemental information consisting of a completed
38	Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077), copy
39	of vehicle registrations, and all Rental/Lease agreements (if applicable). The
40	supplemental information shall be submitted to the Engineer prior to any trucking
41	services being performed for DBE credit. Incomplete or incorrect supplemental
42	information will be returned for correction. The corrected Primary
43	UDBE/DBE/FSBE Truck Unit Listing Log and any Updated Primary
44	UDBE/DBE/FSBE Truck Unit Listing Logs shall be submitted and accepted by
45	the Engineer no later than ten calendar days of utilizing applicable trucks.
46	Failure to submit or update the DBE Truck Unit Listing Log may result in trucks
47	not being credited as DBE participation.
48	and the second
49	Each DBE trucking firm shall complete a Daily UDBE/DBE/FSBE Trucking Unit
50	Listing Log for each day that the DBE performs trucking services for DBE credit.
51	The Daily UDBE/DBE/FSBE Trucking Unit Listing Log forms shall be submitted
52	to the Engineer by Friday of the week after the work was performed.
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2	Joint Checking
3	A joint check is a check between a Subcontractor and the Contractor to the
1	supplier of materials/supplies. The check is issued by the Contractor as payer
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5	to the Subcontractor and the material supplier jointly for items to be incorporated
6	into the project. The DBE must release the check to the supplier, while the
7	Contractor acts solely as the guarantor.
8 9	
9	A joint check agreement must be approved by the Engineer and requested by
10	the DBE involved using the DBE Joint Check Request Form (form # 272-053)
11	prior to its use. The form must accompany the DBE Joint Check Agreement
12	between the parties involved, including the conditions of the arrangement and
13	expected use of the joint checks.
14	expected use of the joint checks.
15	The approval to use joint checks and the use will be closely monitored by the
16	Engineer. To receive DBE credit for performing a CUF with respect to obtaining
17	materials and supplies, a DBE must "be responsible for negotiating price,
18	determining quality and quantity, ordering the material, installing and paying for
19	the material itself." The Contractor shall submit DBE Joint Check Request Form
20	to the Engineer and be in receipt of written approval prior to using a joint check.
21	• • • • • • • • •
22	Material costs paid by the Contractor directly to the material supplier are not
23	allowed. If proper procedures are not followed or the Engineer determines that
24	the arrangement results in lack of independence for the DBE involved, no DBE
25	
	credit will be given for the DBE's participation as it relates to the material cost.
26	
27	Prompt Payment
28	Prompt payment to all subcontractors shall be in accordance with Section 1-
29	08.1. Prompt payment requirements apply to progress payments as well as
30	return of retainage.
31	
32	Subcontracts
33	Prior to a DBE performing Work on the Contract, an executed subcontract
34	between the DBE and the Contractor shall be submitted to the Engineer. The
35	executed subcontracts shall be submitted by email to the following email
36	address
37	address
38	*** <u>NWRegionOEO@wsdot.wa.gov</u> ***
39	
40	The prime contractor shall notify the Engineer in writing within five calendar days
41	of subcontract submittal.
42	
43	
44	Reporting
45	The Contractor and all subcontractors/suppliers/service providers that utilize
46	DBEs to perform work on the project, shall maintain appropriate records that will
47	enable the Engineer to verify DBE participation throughout the life of the project.
48	shape the Engineer to verify DDE participation throughout the life of the project.
49	Refer to Section 1-08.1 for additional reporting requirements associated with this
	이 것 같은 것 1년, 1월, 1월, 2월, 2월 20일 2월, 2월 20일 2월 20일 2월, 2월 20일 2월 20일 2월, 2월 20일 2월, 2
50	contract.
51	

Changes in COA Work Committed to DBE

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless prior written approval by the Engineer is received by the Contractor. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs in the DBE Utilization Certification form.

Owner Initiated Changes

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In instances where the Engineer makes changes that result in changes to Work that was committed to a COA DBE the Contractor may be directed to substitute for the Work.

14 Contractor Initiated Changes

The Contractor cannot change the scope or reduce the amount of work committed to a COA DBE without good cause. Reducing DBE Commitment is viewed as partial DBE termination, and therefore subject to the termination procedures below.

Original Quantity Underruns

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor may be required to substitute other remaining Work to another DBE.

25 Contractor Proposed DBE Substitutions

26Requests to substitute a COA DBE must be for good cause (see DBE27termination process below), and requires prior written approval of the Engineer.28After receiving a termination with good cause approval, the Contractor may only29replace a DBE with another certified DBE. When any changes between30Contract Award and Execution result in a substitution of COA DBE, the substitute31DBE shall have been certified prior to the bid opening on the Contract.32

33 DBE Termination

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part for good cause and with prior written approval of the Engineer. If the Contractor terminates a COA DBE without the prior written approval of the Engineer, the Contractor shall not be entitled to payment for work or material committed to, but not performed/supplied by the COA DBE. In addition, sanctions may apply as described elsewhere in this specification.

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

If the request for termination is approved, the Contractor is required to substitute
 with another DBE to perform at least the same amount of work as the DBE that
 was terminated (or provide documentation of GFE). A plan to replace the COA
 DBE Commitment amount shall be submitted to the Engineer within 2 days of

1 2	the approval of termination. The plan to replace the Commitment shall provide the same detail as that required in the DBE Utilization Certification.
3 4	The Contractor must have good cause to terminate a COA DBE.
5	
6 7	Good cause typically includes situations where the DBE Subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:
8	
9	 The DBE fails or refuses to execute a written contract.
10	
11	The DBE fails or refuses to perform the Work of its subcontract in a
12	way consistent with normal industry standards.
13	
14	• The DBE fails or refuses to meet the Contractor's reasonable
15	nondiscriminatory bond requirements.
16	
17	 The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
18	
19	 The DBE is ineligible to work on public works projects because of
20	suspension and debarment proceedings pursuant to federal law or
21	applicable State law.
22	The DDE is instituted to make DDE and it for the time of much
23	 The DBE is ineligible to receive DBE credit for the type of work
24	involved.
25	
26	 The DBE voluntarily withdraws from the project and provides written
27	notice of its withdrawal.
28	
29	 The DBE's work is deemed unsatisfactory by the Engineer and not in
30	compliance with the Contract.
31	The DRE's summer disc or becomes discipled with the result that the DRE
32	 The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Mark on the Contract
33	is unable to complete its Work on the Contract.
34 35	Good cause does not exist if:
36	Good cause does not exist if.
37	The Contractor seeks to terminate a COA DBE so that the Contractor
38	can self-perform the Work.
39	call sell-perioriti the Work.
40	The Contractor seeks to terminate a COA DBE so the Contractor can
41	substitute another DBE contractor or non-DBE contractor after
42	Contract Award.
43	Sonnadi Award.
44	• The failure or refusal of the COA DBE to perform its Work on the
45	subcontract results from the bad faith or discriminatory action of the
46	Contractor (e.g., the failure of the Contractor to make timely payments
47	or the unnecessary placing of obstacles in the path of the DBE's Work).
48	
49	Decertification
50	When a DBE is "decertified" from the DBE program during the course of the
51	Contract, the participation of that DBE shall continue to count as DBE
52	participation as long as the subcontract with the DBE was executed prior to the

1 2 3 4 5 6 7	decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.
4	Consequences of Non-Compliance
5	Breach of Contract
6	Each contract with a Contractor (and each subcontract the Contractor signs with
	a Subcontractor) must include the following assurance clause:
8	
9	The Contractor, subrecipient, or Subcontractor shall not discriminate on the
10	basis of race, color, national origin, or sex in the performance of this contract.
11	The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the
12	award and administration of DOT-assisted contracts. Failure by the Contractor
13	to carry out these requirements is a material breach of this Contract, which may
14	result in the termination of this Contract or such other remedy as the recipient
15	deems appropriate, which may include, but is not limited to:
16 17	(1) Withholding monthly progress payments;
18	(1) Withholding monthly progress payments,
19	(2) Assessing sanctions;
20	
21	(3) Liquidated damages; and/or
22	() I 3 (
23	(4) Disqualifying the Contractor from future bidding as non-responsible.
24	
25	Notice
26	If the Contractor or any Subcontractor, Consultant, Regular Dealer, or service
27	provider is deemed to be in non-compliance, the Contractor will be informed in
28	writing, by certified mail by the Engineer that sanctions will be imposed for failure
29	to meet the DBE COA Commitment and/or submit documentation of good faith
30	efforts. The notice will state the specific sanctions to be imposed which may
31 32	include impacting a Contractor or other entity's ability to participate in future contracts.
33	contracts.
34	Sanctions
35	If it is determined that the Contractor's failure to meet all or part of the DBE COA
36	Commitment is due to the Contractor's inadequate good faith efforts throughout the
37	life of the Contract, including failure to submit timely, required Good Faith Efforts
38	information and documentation, the Contractor may be required to pay DBE penalty
39	equal to the amount of the unmet Commitment, in addition to the sanctions outlined
40	in Section 1-07.11(5).
41	
42	Payment
43	Compensation for all costs involved with complying with the conditions of this
44	Specification and any other associated DBE requirements is included in payment for
45	the associated Contract items of Work, except otherwise provided in the
46 47	Specifications.
47	1-07.12 Federal Agency Inspection
40	Section 1-07.12 is supplemented with the following:
50	sector i statz lo supportented with the following.

1 (October 3, 2023)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised October 23, 2023 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

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9 The provisions of FHWA 1273, as amended, included in this Contract require that the 10 Contractor insert the FHWA 1273 and amendments thereto in each subcontract, together 11 with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall 12 be included in each subcontract requiring the subcontractors to insert the FHWA 1273 13 and amendments thereto in any lower tier subcontracts, together with the wage rates. 14 The Contractor shall also ensure that this section, REQUIRED FEDERAL AID 15 PROVISIONS, is inserted in each subcontract for subcontractors and lower tier 16 subcontractors. For this purpose, upon request to the Engineer, the Contractor will be 17 provided with extra copies of the FHWA 1273, the amendments thereto, the applicable 18 wage rates, and this Special Provision.

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1-07.16 Protection and Restoration of Property

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1-07.16(1) Public/Private Property

24 1-07.16(1)C Private Property

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

(October 3, 2022)

The Contractor is not to use adjoining property without first obtaining written permission from adjacent property owner(s), and notifying the Engineer, in writing, when such permission has been granted prior to occupying or using adjoining property.

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1-07.16(4) Archaeological and Historical Objects

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

(December 6, 2004)

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

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

Added work necessary to uncover, fence, dewater, or otherwise protect or assist in such testing, exploratory operations and salvaging of the objects as ordered by the Engineer shall be paid by force account as provided in Section 1-09.6. If the discovery and salvaging activities require the Engineer to suspend the Contractor's

1 2	work, 1-08.	Construction and the second state of the second second	in time will be determined	by the Engineer pur	suant to Section
3 4 5 6 7	amou	int for the item	basis for all bidders, the "Archaeological and Hist total bid by the Contractor.	orical Salvage" in	
8	1-07.17 Ut	ilities and Sim	ilar Facilities		
9			ed with the following:		
10	Section 1-07.1	/ is supplemente	ed with the following.		
11	(October 3	3 20221			
12			shown in the Plans for exis	ting facilities are in	accordance with
13			ned without uncovering, m	-	
14	available	mormation obtai	fied without uncovering, m	easuring, or other v	enneation.
15	Dublic one	l privata utilitiaa	or their Contractors will f	urnich all work noor	accorvite adjust
			or their Contractors, will f ruct their facilities unless of		
16					
17			Such adjustment, relocatio		
18			cution of the work for this		
19			placement, or construction	on within the proje	ct limits will be
20	completed	as follows:			
21	***				
22		ta tha haainnina	of construction Cosseds N	atural Casudil valas	ate the in evicting
23			of construction, Cascade N		-
24			the Plans. The approximat		
25			The Contractor shall verify	the gas main loca	tion prior to the
26	begin	ning of any work			
27					
28	The Oracle		I		:4. 4 F
29			a mandatory utility precon		
30			, and all utility owners and	their Contractors p	rior to beginning
31	onsite wor	гК.			
32	The fellow	in a sel durante series			hair Carteratara
33			nd telephone numbers of u		
34			ating, replacing or constru	cting utilities within	the project limits
35	are suppli	ed for the Contra	ictor's use:		
36					
37	***				
38					
39	Utility	Agonow/	Address	Contact	Phone
	ounty	Agency/	Auuress	Contact	FIIONE
		Company			
	Water/	City of	10220 270 th Street NW	Kevin Hushagen	(360) 629-9782
	Sanitary	Stanwood	Stanwood, WA 98292		
	Sewer/				

1520 South 2nd Street

Mt. Vernon, WA 98273

Storm Sewer

Cascade

Natural Gas

Natural Gas

(360) 336-3866

Addam Sad

Telephone	Ziply	595 Pease Road Burlington, WA 98233	Wayne Wendell	(360) 757-3406
Power	Snohomish County PUD No. 1	9124 270 th Street NW Stanwood, WA 98292	David Stunz	(360) 629-5713

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In the event of a gas emergency, call 911.

The Contractor shall coordinate the Work with these utilities and shall notify the Engineer in advance of any conflicts affecting the Work schedule. The utility companies shall witness or perform all shutdowns, connections or disconnections.

Wherever in the course of the construction operation it becomes necessary to cause an outage of utilities, it shall be the Contractor's responsibility to notify the affected users not less than twenty-four (24) hours in advance of the creation of such outage. The Contractor shall make reasonable effort to minimize the duration of outages.

The Contractor shall be responsible for any breakage of utilities or services resulting from its operations and shall hold the Contracting Agency and its agents harmless from any claims resulting from disruption of, or damage to, same.

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19 Potholing

Locations of possible conflicts at utility crossings can be seen on the Plans. Based on the actual location of utility markings, it may be necessary to uncover existing utilities and determine the exact locations.

23

24 After completing field marking of the existing utilities, the Contractor shall determine if an 25 existing utility may be in conflict with the planned improvements. Should a conflict seem likely, 26 the Contractor shall notify the Engineer. If the Engineer concurs that a conflict is likely, the 27 Contractor will be directed to expose the location of the subject utility (pothole). When 28 potholing is required by the Engineer, the Contractor shall expose the location of the existing 29 utility and record the size of pipe and horizontal and vertical location on the Contractor's 30 Record Drawings. Upon receipt of this information, the Engineer will determine if a conflict 31 exists. The Engineer will notify the Contractor within seven full working days as to what design 32 modifications, if any, are required to resolve the conflict.

33

34 Measurement

35 Potholing will be measured per each pothole required by the Engineer.

36 37 Payment

38 Payment shall be made for the following Bid item when included in the Proposal:

- 39 40
 - "Potholing", per each.

The unit Contract price for "Potholing" shall be full compensation for all labor, tools, equipment, and materials necessary to expose the locations of existing utilities, record size and vertical and horizontal locations, backfill, and compact excavated areas per City of Stanwood Standard Details. For the purpose of establishing a common basis for evaluating bids, an arbitrary quantity has been shown on the bid form and does not necessarily represent the quantity, if any, of "Potholing" that may be necessary for project

1 2 3		work. Therefore, the "significant change" provisions of Section 1-04.6 do not apply. Actual quantities will be determined in the field as work progresses.			
4 5		7.18 Public Liability and Property Damage Insurance lete this section in its entirety, and replace it with the following:			
6 7 8	1-0	1-07.18 Public Liability and Property Damage Insurance			
9 10	De	lete this section in its entirety, and replace it with the following:			
11	1-0	7.18 Insurance			
12 13		nuary 4, 2024 APWA GSP)			
14		7.18(1) General Requirements			
15 16 17 18 19 20	A.	The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.			
21 22 23 24	B.	The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.			
25 26 27 28 29 30 31 32 33 34 35	C.	If any insurance policy is written on a claims-made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made and state the retroactive date. Claims- made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.			
36 37 38 39 40 41 42	D.	The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.			
43 44 45 46	E.	The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.			
47 48 49	F.	The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency			
50 51 52	G.	Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately			

1 terminate the Contract or, at its discretion, procure or renew such insurance and pay any 2 and all premiums in connection therewith, with any sums so expended to be repaid to the 3 Contracting Agency on demand, or at the sole discretion of the Contracting Agency. 4 offset against funds due the Contractor from the Contracting Agency. 5 6 H. All costs for insurance shall be incidental to and included in the unit or lump sum prices 7 of the Contract and no additional payment will be made. 8 9 I. Under no circumstances shall a wrap up policy be obtained, for either initiating or 10 maintaining coverage, to satisfy insurance requirements for any policy required under 11 this Section. A "wrap up policy" is defined as an insurance agreement or arrangement 12 under which all the parties working on a specified or designated project are insured 13 under one policy for liability arising out of that specified or designated project. 14 15 1-07.18(2) Additional Insured 16 All insurance policies, with the exception of Workers Compensation, and of Professional 17 Liability and Builder's Risk (if required by this Contract) shall name the following listed 18 entities as additional insured(s) using the forms or endorsements required herein: 19 н. the Contracting Agency and its officers, elected officials, employees, agents, and 20 volunteers 21 The above-listed entities shall be additional insured(s) for the full available limits of liability 22 maintained by the Contractor, irrespective of whether such limits maintained by the 23 Contractor are greater than those required by this Contract, and irrespective of whether the 24 Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits 25 lower than those maintained by the Contractor. 26 27 For Commercial General Liability insurance coverage, the required additional insured 28 endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing 29 operations and CG 20 37 10 01 for completed operations. 30 31 1-07.18(3) Subcontractors 32 The Contractor shall cause each subcontractor of every tier to provide insurance coverage 33 that complies with all applicable requirements of the Contractor-provided insurance as set 34 forth herein, except the Contractor shall have sole responsibility for determining the limits of 35 coverage required to be obtained by subcontractors. 36 37 The Contractor shall ensure that all subcontractors of every tier add all entities listed in 38 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by 39 that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 40 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations. 41 42 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting 43 Agency evidence of insurance and copies of the additional insured endorsements of each 44 subcontractor of every tier as required in 1-07.18(4) Verification of Coverage. 45 46 1-07.18(4) Verification of Coverage 47 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and 48 endorsements for each policy of insurance meeting the requirements set forth herein when 49 the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to 50 demand such verification of coverage with these insurance requirements or failure of 51 Contracting Agency to identify a deficiency from the insurance documentation provided shall 52 not be construed as a waiver of Contractor's obligation to maintain such insurance.

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

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12 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting 13 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is 14 required on this Project, a full and certified copy of that policy is required when the 15 Contractor delivers the signed Contract for the work.

16

17 1-07.18(5) Coverages and Limits

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

23

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

29

30 1-07.18(5)A Commercial General Liability

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

36 37

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

40

41 Contractor shall maintain Commercial General Liability Insurance arising out of the

42 Contractor's completed operations for at least three years following Substantial Completion 43 of the Work.

44

45 Such policy must provide the following minimum limits:

- 46 \$2,000,000 Each Occurrence
- 47 \$3,000,000 General Aggregate
- 48 \$3,000,000 Products & Completed Operations Aggregate
- 49 \$2,000,000 Personal & Advertising Injury each offence
- 50 \$2,000,000 Stop Gap / Employers' Liability each accident

1 2

1-07.18(5)B Automobile Liability

3 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be 4 written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the 5 transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 6 endorsements.

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Such policy must provide the following minimum limit:

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

11 1-07.18(5)C Workers' Compensation

12 The Contractor shall comply with Workers' Compensation coverage as required by the 13 Industrial Insurance laws of the State of Washington.

15 1-07.23 Public Convenience and Safety

17 (COS GSP)

18 Section 1-07.23 is supplemented with the following:

19

20 No road or street shall be closed to the public except as permitted in these plans and 21 specifications or with the approval of the Engineer. Fire hydrants on or adjacent to the 22 work shall be kept accessible to fire-fighting equipment at all times. Provision shall be 23 made by the Contractor to ensure the proper functioning of all gutters, sewer inlets, 24 drainage ditches and culverts, irrigation ditches and natural water courses, and storm 25 sewer facilities throughout the project. Temporary interruption of service will be allowed 26 only with the permission of the Engineer.

27

28 The Stanwood Police Department and North County Regional Fire Authority shall be 29 notified at least four (4) hours in advance of any lane or roadway closures that may affect 30 the functions of either the Police Department or Fire Department, including access to fire hydrants.

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All work shall be carried on with due regard for the safety of the public. No driveway, whether public, commercial, or private, may be closed without prior approval of the Owner, project supervisor, or Engineer unless written authority has been given by the affected property owner. The Contractor shall be responsible for notifying the affected property owners 24 hours in advance of scheduled interruptions to access.

38

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1-07.23(1) Construction Under Traffic

- 39 40 Section 1-07.23(1) is supplemented with the following: 41 42 (February 6, 2023) 43 Lane, ramp, shoulder, and roadway closures are subject to the following restrictions: 44 *** 45 Maintain two way traffic on 92nd Ave NW at all times 46 47 Provide trucks access to loading docks at back of Petco and Grocery 48 Outlet at all times. 49 Vehicular business access must be provided at all times. 50
 - . Maintain access to Port Susan as detailed on Drawing No. TC1.
 - Signs must be provided during lane closures to direct customers to . alternate routes to businesses.

CITY OF STANWOOD
VIKING WAY PHASE 2
SPECIAL PROVISIONS

1 2 3 4	 All lane closures and traffic phasing must be included in the three-week look ahead schedule.
5	If the Engineer determines the permitted closure hours adversely affect traffic, the
6	Engineer may adjust the hours accordingly. The Engineer will notify the Contractor
7	in writing of any change in the closure hours. Exceptions to these restrictions are
8	listed below and when applicable take precedence over closures listed above. The
9	Engineer may also consider on a case-by-case basis additional exceptions following
10	a written request by the Contractor.
11	
12 13	Lane, ramp, shoulder, and roadway closures are not allowed on any of the following:
14	1. A holiday,
15	T. Attoinday,
16	2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or
17	Monday are considered a holiday weekend. A holiday weekend includes
18	Saturday, Sunday, and the holiday.
19	
20	3. After *** 3:00 p.m. *** on the day prior to a holiday or holiday weekend, and
21 22	4. Before *** 10:00 a.m. *** on the day after the holiday or holiday weekend.
23	4. Delote 10.00 a.m. on the day after the holiday of holiday weekend.
24	5. The two-hour period prior to and the two-hour period after the following
25	special events:
26	
27	*** N/A ***
28	like heall headles. O and the sheet's an annual to like the sheet in the sheet so and times a sheet
29 30	It shall be the Contractor's responsibility to obtain the dates and times of all events.
31	events.
32	Traffic Delays
33	When Automated Flagger Assistance Devices (AFADs) or flaggers are used to
34	control traffic, traffic shall not be stopped for more than *** 20 *** minutes at any time.
35	All traffic congestion shall be allowed to clear before traffic is delayed again.
36	
37 38	If the delay becomes greater than *** 10 *** minutes, the Contractor shall immediately begin to take action to cease the operations that are causing the delays. If the *** 10
39	*** minute delay limit has been exceeded, as determined by the Engineer, the
40	Contractor shall provide to the Engineer, a written proposal to revise his work
41	operations to meet the *** 10 *** minute limit. This proposal shall be accepted by the
42	Engineer prior to resuming any work requiring traffic control.
43	
44	There shall be no delay to medical, fire, or other emergency vehicles. The Contractor
45	shall alert all flaggers and personnel of this requirement.
46 47	General Restrictions
48	Construction vehicles using a closed traffic lane shall travel only in the normal
49	direction of traffic flow unless expressly allowed in an accepted traffic control plan.
50	Construction vehicles shall be equipped with flashing or rotating amber lights.
51	

1 2 3 4	No two consecutive on-ramps, off-ramps, or intersections shall be closed at the same time and only one ramp at an interchange shall be closed, unless specifically shown in the Plans.
5 6 7 8	Roads or ramps that are designated as part of a detour shall not be closed or restricted during the implementation of that detour, unless specifically shown in the Plans.
9 10 11 12	Controlled Access No special access or egress shall be allowed by the Contractor other than normal legal movements or as shown in the Plans.
13 14 15	Contractor's vehicles of 10,000 GVW or greater shall not exit or enter a lane open to public traffic except as follows:
16 17 18	Egress and ingress shall only occur during the hours of allowable lane closures, and:
19 20 21	 For exiting an open lane of traffic, by decelerating in a lane that is closed during the allowable hours for lane closures.
22 23 24	 For entering an open lane of traffic, by accelerating in a closed lane during the allowable hours for lane closures.
25 26 27 28	Traffic control vehicles are excluded from the gross vehicle weight requirement. If placing construction signs will restrict traveled lanes, then the work will be permitted during the hours of allowable lane closures.
29	Advance Notification
30	The Contractor shall notify the Engineer in writing of any traffic impacts related to
31 32	lane closure, shoulder closure, sidewalk closure, or any combination for the week by 12:00 p.m. (noon) Wednesday the week prior to the stated impacts.
33 34	The Contractor shall notify the Engineer in writing ten working days in advance of
35 36	any traffic impacts related to full roadway closure, ramp closure, or both.
37 38 39	The Contractor shall notify the Engineer in writing of any changes to the stated traffic impacts a minimum of 48 hours prior to the traffic impacts.
40	(October 3, 2022)
41	If July 4 occurs on a Tuesday, the prior Monday and Friday are considered to be part
42	of a holiday weekend. If July 4 occurs on a Thursday, the following Friday and
43 44	Monday are considered to be part of a holiday weekend.
45	1-07.24 Rights of Way
46	(July 23, 2015 APWA GSP)
47	Delete this section and replace it with the following:
48 49 50 51 52	Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.
02	

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

- Whenever any of the work is accomplished on or through property other than public
 Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any
 easement agreement obtained by the Contracting Agency from the owner of the private
 property. Copies of the easement agreements may be included in the Contract
 Provisions or made available to the Contractor as soon as practical after they have been
 obtained by the Engineer.
- 12

13 Whenever easements or rights of entry have not been acquired prior to advertising, 14 these areas are so noted in the Plans. The Contractor shall not proceed with any portion 15 of the work in areas where right of way, easements or rights of entry have not been 16 acquired until the Engineer certifies to the Contractor that the right of way or easement is 17 available or that the right of entry has been received. If the Contractor is delayed due to 18 acts of omission on the part of the Contracting Agency in obtaining easements, rights of 19 entry or right of way, the Contractor will be entitled to an extension of time. The 20 Contractor agrees that such delay shall not be a breach of contract.

- 21
- Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
 includes entry onto easements and private property where private improvements must
 be adjusted.
- 25

26 The Contractor shall be responsible for providing, without expense or liability to the 27 Contracting Agency, any additional land and access thereto that the Contractor may 28 desire for temporary construction facilities, storage of materials, or other Contractor 29 needs. However, before using any private property, whether adjoining the work or not, 30 the Contractor shall file with the Engineer a written permission of the private property 31 owner, and, upon vacating the premises, a written release from the property owner of 32 each property disturbed or otherwise interfered with by reasons of construction pursued 33 under this contract. The statement shall be signed by the private property owner, or 34 proper authority acting for the owner of the private property affected, stating that 35 permission has been granted to use the property and all necessary permits have been 36 obtained or, in the case of a release, that the restoration of the property has been 37 satisfactorily accomplished. The statement shall include the parcel number, address, 38 and date of signature. Written releases must be filed with the Engineer before the 39 Completion Date will be established.

- 41 1-08 Prosecution and Progress
- 42 Add the following new section: 43
 - 1-08.0 Preliminary Matters
 - (May 25, 2006 APWA GSP)
- 45 46

44

40

- 47 Add the following new section:
- 48 49 1-08.0(1) Preconstruction Conference
- 50 (October 10, 2008 APWA GSP)
- 51

1 2 3	Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be					
	invited. The purpose of the preconstruction conference will be:					
4	1. To review the initial progress schedule;					
5 6	To establish a working understanding among the various parties associated or affected by the work;					
7 8	 To establish and review procedures for progress payment, notifications, approvals, submittals, etc.; 					
9	To establish normal working hours for the work;					
10	5. To review safety standards and traffic control; and					
11 12	6. To discuss such other related items as may be pertinent to the work.					
13	The Contractor shall prepare and submit at the preconstruction conference the following:					
14	1. A breakdown of all lump sum items;					
15	2. A preliminary schedule of working drawing submittals; and					
16 17	3. A list of material sources for approval if applicable.					
	dd the following new section:					
20	1-08.0(2) Hours of Work					
21	(December 8, 2014 APWA GSP)					
22						
23	Except in the case of emergency or unless otherwise approved by the Engineer, the					
24	normal working hours for the Contract shall be any consecutive 8-hour period between					
25	7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the					
26	Contractor desires different than the normal working hours stated above, the request					
27	must be submitted in writing prior to the preconstruction conference, subject to the					
28	provisions below. The working hours for the Contract shall be established at or prior to					
29 30	the preconstruction conference.					
31	All working hours and days are also subject to local permit and ordinance conditions (such					
32 33	as noise ordinances).					
34	If the Contractor wishes to deviate from the established working hours, the Contractor					
35	shall submit a written request to the Engineer for consideration. This request shall state					
36 37	what hours are being requested, and why. Requests shall be submitted for review no					
38	later than <u>five (5) business days</u> prior to the day(s) the Contractor is requesting to change the hours.					
39	change the hours.					
40	If the Contracting Agency approves such a deviation, such approval may be subject to					
41	certain other conditions, which will be detailed in writing. For example:					
42	1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting					
43	Agency for the costs in excess of straight-time costs for Contracting Agency					
44	representatives who worked during such times. (The Engineer may require					
45	designated representatives to be present during the work. Representatives who					
46 47	may be deemed necessary by the Engineer include, but are not limited to: survey					
47	crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the					
49	opinion of the Engineer, such work necessitates their presence.)					
.0	epinion of the Engineer, odon nonchoodolated their predenoe.					

1 2		2.	Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.				
3 4		3.	Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.				
5 6		4.	If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.				
7 8 9		5.	If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll				
10 11 12		-08.1 Subcontracting December 30, 2022 APWA GSP, Option A)					
12 13 14	Section 1-08.1 is supplemented with the following:						
15 16 17 18 19 20	Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection.						
21 22 23 24 25	und	A subcontractor or lower tier subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:					
26 27	1.	Re	quest to Sublet Work (WSDOT Form 421-012), and				
28 29 30	2.		ntractor and Subcontractor or Lower Tier Subcontractor Certification for Federal- Projects (WSDOT Form 420-004).				
31 32 33 34 35	The Contractor shall submit to the Engineer a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every subcontractor and lower tier subcontractor's retainage has been released.						
36 37 38 39 40 41 42 43	The Contractor's records pertaining to the requirements of this Special Provision shall b open to inspection or audit by representatives of the Contracting Agency during the life the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all subcontractors and lower tier subcontractors shall be available and open to similar inspection or audit for the same time period.						
44 45	Pa	ayn	nents to Subcontractors and Lower-Tier Subcontractors				
46 47 48			-08.1(7)C Subcontractor Retainage The first sentence in the last paragraph of Section 1-08.1(7)C is revised to read:				
49			(February 13, 2024)				

1 2 3 4		If the Contractor fails to comply with the requirements of this Section and the first-tier subcontractor's retainage or retainage bond is wrongfully withheld, the Contractor will be subject to the actions described in Section 1-08.1(10).					
5 6	1-08.3 F	Progress Schedule					
7 8	1-08.3	(2) Progress Schedule Types					
9 10 11	1-08.3(2)B Type B Progress Schedule (January 4, 2024 APWA GSP)						
12 13	Revise the first paragraph to read:						
14 15 16 17 18 19	th co ex	ne Contractor shall submit a preliminary Type B Progress Schedule at or prior to e preconstruction conference. The preliminary Type B Progress Schedule shall omply with all of these requirements and the requirements of Section 1-08.3(2), accept that it may be limited to only those activities occurring within the first 60- orking days of the project.					
20 21	Revise	the first sentence of the second paragraph to read:					
22 23 24 25	The Contractor shall submit *** <u>5</u> *** copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the preconstruction conference.						
26 27	Se	ection 1-08.3(2)B is supplemented with the following:					
28 29 30 31		<i>(November 20, 2023)</i> In addition to information required in Items 1 through 13, the Progress Schedule shall include the following milestones and/or activities:					
32 33		*** Stage 1 completion (beginning of preloading) ***					
34 35 36		rosecution of Work section and replace it with the following:					
37 38 39 40	 1-08.4 Notice to Proceed and Prosecution of Work Notice to Proceed will be given separately for each Stage of Work as detailed in the Plans. 						
41 42 43 44 45 46 47 48 49 50 51	Notice to Proceed will be given for Stage 1 of the project after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the Work detailed in Stage 1 until the Notice to Proceed has been given by the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the Contract for Stage 1. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time (s) specified in the Contract, unless otherwise approved by the Engineer.						

1 2 3 4 5 6	Notice to Proceed for Stage 2 shall be given after analysis by the Engineer of settlement data indicates that sufficient settlement has occurred. It is anticipated that required duration of preloading will be approximately 9 months. No working days shall be charged in between stages.				
6 7 8 9 10 11 12 13	When shown in the Plans, the first order of work for Stage 2 shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.				
14 15	1-08.5 Time for Completion				
16 17 18	The third paragraph of Section 1-08.5 is revised to read:				
19 20 21	<i>(March 13, 1995)</i> This project shall be physically completed within *** 73 *** working days.				
22 23	(December 30, 2022 APWA GSP, Option A)				
24 25	Revise the third and fourth paragraphs to read:				
26 27	Contract time shall begin on the first working day following the Notice to Proceed Date.				
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and all partial or whole days the Engineer declares as unworkable The statement will be identified as a Written Determination by the Engineer. If the Contractor does not agree with the Written Determination of working days, the Contractor shall pursue the protest procedures in accordance with Section 1-04.5. By failing to follow the procedures of Section 1-04.5, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.				
46					
47 48 49 50	The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:				

51 1. The physical work on the project must be complete; and

1	2. The Contractor must furnish all documentation required by the contract and required
2	by law, to allow the Contracting Agency to process final acceptance of the contract.
3	The following documents must be received by the Project Engineer prior to
4	establishing a completion date:
5	a. Certified Payrolls (per Section 1-07.9(5)).
6	b. Material Acceptance Certification Documents
7	c. Monthly Reports of Amounts Credited as DBE Participation, as required by the
8	Contract Provisions.
9	d. Final Contract Voucher Certification
10	e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
11	and all Subcontractors
12	f. A copy of the Notice of Termination sent to the Washington State Department of
13	Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
14	Notice of Termination by Ecology; and no rejection of the Notice of Termination
15	by Ecology. This requirement will not apply if the Construction Stormwater
16	General Permit is transferred back to the Contracting Agency in accordance with
17	Section 8-01.3(16).
18	g. Property owner releases per Section 1-07.24
19	3
20	1-08.6 Suspension of Work
21	Section 1-08.6 is supplemented with the following:
22	sector i secon provincia a contra contra de la
23	(February 6, 2023)
24	Contract time may be suspended for procurement of critical materials (Procurement
25	Suspension). In order to receive a Procurement Suspension, the Contractor shall within
26	21 calendar days after execution by the Contracting Agency, place purchase orders for
27	all materials deemed critical by the Contracting Agency for physical completion of the
28	contract. The Contractor shall provide copies of purchase orders for the critical materials.
29	Such purchase orders shall disclose the purchase order date and estimated delivery
30	dates for such critical material.
31	
32	The Contractor shall show procurement of the materials listed below as activities in the
33	Progress Schedule. If the approved Progress Schedule indicates that the materials
34	procurement are critical activities, and if the Contractor has provided documentation that
35	purchase orders are placed for the critical materials within the prescribed 21 calendar
36	days, then contract time will be suspended upon physical completion of all critical work
37	except that work dependent upon the below listed critical materials:
38	······································
39	***
40	All materials associated with the following Bid Items:
41	Illumination System
42	Type D Service Cabinet Modification
43	***
44	
45	Charging of contract time will resume upon delivery of the critical materials to the
46	Contractor or *** 120 *** calendar days after execution by the Contracting Agency,
47	whichever occurs first.
48	
49	1-08.9 Liquidated Damages
50	(March 3, 2021 APWA GSP, Option A)
51	

1 2	Replace Section 1-08.9 with the following:
3 4 5 6	Time is of the essence of the Contract. Delays inconvenience the traveling public, obstruct traffic, interfere with and delay commerce, and increase risk to Highway users. Delays also cost tax payers undue sums of money, adding time needed for administration, engineering, inspection, and supervision.
7 8 9	Accordingly, the Contractor agrees:
10 11 12 13	 To pay liquidated damages in the amount of *** \$1,650.00 *** for each working day beyond the number of working days established for Physical Completion, and
14 15 16	 To authorize the Engineer to deduct these liquidated damages from any money due or coming due to the Contractor.
17 18 19 20 21 22 23 24 25 26	When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine the Contract Work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, liquidated damages identified above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.
27 28 29 30	Liquidated damages will not be assessed for any days for which an extension of time is granted. No deduction or payment of liquidated damages will, in any degree, release the Contractor from further obligations and liabilities to complete the entire Contract.
31 32 33	1-09 Measurement and Payment
34 35 36	1-09.2(1) General Requirements for Weighing Equipment (January 4, 2024 APWA GSP, Option B)
37 38	Revise item 4 of the fifth paragraph to read:
39 40 41 42 43 44	4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027A, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.
45 46 47	1-09.2(5) Measurement (December 30, 2022 APWA GSP)
48 49	Revise the first paragraph to read:

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

4 5 1-09.6 Force Account 6 (December 30, 2022 APWA GSP) 7 8 Supplement this section with the following: 9 10 The Contracting Agency has estimated and included in the Proposal, dollar amounts for 11 all items to be paid per force account, only to provide a common proposal for Bidders. All 12 such dollar amounts are to become a part of Contractor's total bid. However, the 13 Contracting Agency does not warrant expressly or by implication, that the actual amount 14 of work will correspond with those estimates. Payment will be made on the basis of the 15 amount of work actually authorized by the Engineer. 16 17 1-09.9 Payments 18 (December 30, 2022 APWA GSP) 19 20 Section 1-09.9 is revised to read: 21 22 The basis of payment will be the actual quantities of Work performed according to the 23 Contract and as specified for payment. 24 25 The Contractor shall submit a breakdown of the cost of lump sum bid items at the 26 Preconstruction Conference, to enable the Project Engineer to determine the Work 27 performed on a monthly basis. A breakdown is not required for lump sum items that 28 include a basis for incremental payments as part of the respective Specification. Absent 29 a lump sum breakdown, the Project Engineer will make a determination based on 30 information available. The Project Engineer's determination of the cost of work shall be 31 final. 32 33 Progress payments for completed work and material on hand will be based upon 34 progress estimates prepared by the Engineer. A progress estimate cutoff date will be 35 established at the preconstruction conference. 36 37 The initial progress estimate will be made not later than 30 days after the Contractor 38 commences the work, and successive progress estimates will be made every month 39 thereafter until the Completion Date. Progress estimates made during progress of the 40 work are tentative, and made only for the purpose of determining progress payments. 41 The progress estimates are subject to change at any time prior to the calculation of the 42 final payment. 43 44 The value of the progress estimate will be the sum of the following: 45 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price. 46 47 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum 48 breakdown for that item, or absent such a breakdown, based on the Engineer's

determination.

49

1 Materials on Hand — 100 percent of invoiced cost of material delivered to Job site 2 or other storage area approved by the Engineer. 3 4. Change Orders — entitlement for approved extra cost or completed extra work as 4 determined by the Engineer. 5 6 Progress payments will be made in accordance with the progress estimate less: 7 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects; 8 2. The amount of progress payments previously made; and 9 3. Funds withheld by the Contracting Agency for disbursement in accordance with the 10 Contract Documents. 11 12 Progress payments for work performed shall not be evidence of acceptable performance 13 or an admission by the Contracting Agency that any work has been satisfactorily 14 completed. The determination of payments under the contract will be final in accordance 15 with Section 1-05.1. 16 17 Failure to perform obligations under the Contract by the Contractor may be decreed by the 18 Contracting Agency to be adequate reason for withholding any payments until compliance 19 is achieved. 20 21 Upon completion of all Work and after final inspection (Section 1-05.11), the amount due 22 the Contractor under the Contract will be paid based upon the final estimate made by the 23 Engineer and presentation of a Final Contract Voucher Certification to be signed by the 24 Contractor. The Contractor's signature on such voucher shall be deemed a release of all 25 claims of the Contractor unless a Certified Claim is filed in accordance with the 26 requirements of Section 1-09.11 and is expressly excepted from the Contractor's 27 certification on the Final Contract Voucher Certification. The date the Contracting Agency 28 signs the Final Contract Voucher Certification constitutes the final acceptance date 29 (Section 1-05.12). 30 31 If the Contractor fails, refuses, or is unable to sign and return the Final Contract Voucher 32 Certification or any other documentation required for completion and final acceptance of 33 the Contract, the Contracting Agency reserves the right to establish a Completion Date (for 34 the purpose of meeting the requirements of RCW 60.28) and unilaterally accept the 35 Contract. Unilateral final acceptance will occur only after the Contractor has been provided 36 the opportunity, by written request from the Engineer, to voluntarily submit such 37 documents. If voluntary compliance is not achieved, formal notification of the impending 38 establishment of a Completion Date and unilateral final acceptance will be provided by 39 email with delivery confirmation from the Contracting Agency to the Contractor, which will 40 provide 30 calendar days for the Contractor to submit the necessary documents. The 30 41 calendar day period will begin on the date the email with delivery confirmation is received 42 by the Contractor. The date the Contracting Agency unilaterally signs the Final Contract 43 Voucher Certification shall constitute the Completion Date and the final acceptance date 44 (Section 1-05.12). The reservation by the Contracting Agency to unilaterally accept the 45 Contract will apply to Contracts that are Physically Completed in accordance with Section 46 1-08.5, or for Contracts that are terminated in accordance with Section 1-08.10. Unilateral 47 final acceptance of the Contract by the Contracting Agency does not in any way relieve 48 the Contractor of their responsibility to comply with all Federal, State, tribal, or local laws, 49 ordinances, and regulations that affect the Work under the Contract. 50

1 Payment to the Contractor of partial estimates, final estimates, and retained percentages 2 shall be subject to controlling laws. 3 4 1-09.9(1) Retainage 5 Section 1-09.9(1) content and title is deleted and replaced with the following: 6 7 (June 27, 2011) 8 Vacant 9 1-09.11 10 Disputes and Claims 11 12 1-09.11(3) Time Limitation and Jurisdiction 13 (December 30, 2022 APWA GSP) 14 15 Revise this section to read: 16 17 For the convenience of the parties to the Contract it is mutually agreed by the parties that 18 all claims or causes of action which the Contractor has against the Contracting Agency 19 arising from the Contract shall be brought within 180 calendar days from the date of final 20 acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further 21 agreed that all such claims or causes of action shall be brought only in the Superior Court 22 of the county where the Contracting Agency headquarters is located, provided that where 23 an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. 24 The parties understand and agree that the Contractor's failure to bring suit within the time 25 period provided, shall be a complete bar to all such claims or causes of action. It is further 26 mutually agreed by the parties that when claims or causes of action which the Contractor 27 asserts against the Contracting Agency arising from the Contract are filed with the 28 Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency 29 to have timely access to all records deemed necessary by the Contracting Agency to assist

- 30 in evaluating the claims or action.
- 31 32 1-09.13 Claims Resolution
- 33 34

35

1-09.13(3) Arbitration

36 1-09.13(3)A Arbitration General

37 (January 19, 2022 APWA GSP) 38

39 Revise the third paragraph to read:

40

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

48

49 1-09.13(4) Venue for Litigation

50 (December 30, 2022 APWA GSP)

51

52 Revise this section to read:

Litigation shall be brought in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. It is mutually agreed by the parties that when litigation occurs, the Contractor shall permit the Contracting Agency to have timely access to all records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

- 1-10 Temporary Traffic Control
- 9 10 11

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1-10.2 Traffic Control Management

12 Section 1-10.2 is supplemented with the following

13

16

14 (November 2, 2022)

15 Work Zone Safety Contingency

17 Enhancements to improve the effectiveness of the accepted traffic control plans to increase 18 the safety of the work zones shall be discussed on a weekly basis between the Contractor and 19 the Contracting Agency. Enhancements shall be mutually agreed upon by the Contractor and 20 Engineer prior to performing any Work to implement the enhancement.

21

Enhancements do not include the use of Uniformed Police Officers or WSP, address changes to the allowed work hour restrictions, or changes to the staging plans in the Contract (if applicable). If allowed by the Engineer, these items will be addressed in accordance with Section 1-04.4.

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The Contractor shall be solely responsible for submitting any traffic control plan revision to implement the enhancement in accordance with Section 1-10.2(2).

1-10.2(1) General

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

(October 3, 2022)

The Traffic Control Supervisor shall be certified by one of the following:

- The Northwest Laborers-Employers Training Trust 27055 Ohio Ave.
- Kingston, WA 98346
- 39 (360) 297-3035
- 40 <u>https://www.nwlett.edu</u> 41
- 42 Evergreen Safety Council
- 43 12545 135th Ave. NE
- 44 Kirkland, WA 98034-8709
- 45 1-800-521-0778
- 46 <u>https://www.esc.org</u> 47
- 48 The American Traffic Safety Services Association
- 49 15 Riverside Parkway, Suite 100
- 50 Fredericksburg, Virginia 22406-1022
- 51 Training Dept. Toll Free (877) 642-4637
- 52 Phone: (540) 368-1701

1		https://atssa.com/training
2		
2 3		Integrity Safety
4		13912 NE 20th Ave.
4 5 6		Vancouver, WA 98686
6		(360) 574-6071
7		https://www.integritysafety.com
8		
9		US Safety Alliance
10		(904) 705-5660
11		https://www.ussafetyalliance.com
12		https://www.ussaletyallarice.com
13		K&D Services Inc.
14		2719 Rockefeller Ave.
15		Everett, WA 98201
16		(800) 343-4049
17		https://www.kndservices.net
18		
19	1-10.4	Measurement
20		
21	1-1	0.4(3) Reinstating Unit Items With Lump Sum Traffic Control
22	Sec	tion 1-10.4(3) is supplemented with the following:
23		
24		(November 2, 2022)
25		The bid proposal contains the item "Project Temporary Traffic Control," lump sum and
26		the additional temporary traffic control items listed below. The provisions of Section
27		1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.
28		
29		"Work Zone Safety Contingency", by force account.
30		work zone Galety Contingency, by force account.
31		***
32		"Pedestrian Traffic Control", per lump sum.
33		
		"Traffic Control Supervisor", per lump sum.
34		"Other Traffic Control Labor", per hour.
35		
36		
37	1-10.5	Payment
38		
39		0.5(2) Item Bids with Lump Sum for Incidentals
40	Sec	tion 1-10.5(2) is supplemented with the following:
41		
42		(November 2, 2022)
43		"Work Zone Safety Contingency", by force account.
44		
45		All costs as authorized by the Engineer will be paid for by force account as specified
46		in Section 1-09.6.
47		
48		For purpose of providing a common proposal for all bidders, the Contracting Agency
49		has entered an amount for the item "Work Zone Safety Contingency" in the Proposal
50		to become a part of the Contractor's total bid.
51		to second a part of the contractor o total bid.
01		

The Engineer may choose to use existing bid items for the implementation of the agreed upon enhancement.

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END OF DIVISION 1

1 2 3 4		Division 2 Earthwork
4	2-01	Clearing, Grubbing, and Roadside Cleanup
5 6 7 8	2-01.3 Item n	(1) Clearing umber 5 of Section 2-01.3(1) is revised to read:
9 10 11	5.	Trim all trees overhanging the proposed sidewalk to 8' above the finished sidewalk grade or as directed by the Engineer, neatly cutting all limbs close to the tree trunk.
12 13 14		01.3(1)A Root Protection ction 2-01.3(1)A is added as follows:
15 16 17		Roots on living trees, shrubs, or hedges that are to be retained may be encountered during the work. Notify the Owner of the roots systems when discovered. Hand dig where machine excavation many irreparably damage the vegetation.
18 19 20 21		Where, in the Owner's opinion, hand digging is impractical, or root system must be cut, address roots encountered as follows:
22 23 24 25 26 27 28		Roots shall be severed by cutting down and away from the trunk. The purpose is to minimize movement and disturbance of the remaining root system between the trunk and point of cutting. The Owner shall determine whether, due to the additional root cutting, any additional pruning or mechanical bracing or cable is necessary. If deemed necessary, the pruning/bracing shall be done by the City prior to root cutting.
29 30 31 32		Within two hours of exposure, all roots ¼- inch in diameter and larger are to be addressed using a sharp knife, covered, and kept moist using water and burlap bags staked in place.
33 34 35		Roots are to be cut clean on a 45-degree angle leaving no split of torn exterior root surfacing.
36 37 38		Roots are to be continually maintained in moistened conditions and protected from the wind until they are fully covered by final backfill.
39 40 41		Vegetation undergoing top pruning and root severing shall be fed using standard horticulture practices.
42 43 44 45		The Engineer will determine if the work to avoid, cut, treat, or otherwise accommodate the existing vegetation is payable by Force Account. Force Account will only be considered for locations of impacted vegetation that are not noted on the plans.
46 47	2-01.4 Sectio	Measurement n 2-01.4 is supplemented with the following:
48 49	N	o specific unit of measure will apply to the lump sum item for Root Protection.

2 2-01.5 Payment

3 Section 2-01.5 is supplemented with the following:

"Root Protection", per lump sum.

The unit Contract price per lump sum for "Root Protection" shall be full pay for all Work described in this section on all trees noted on the plans adjacent to the project work.

2-02 Removal of Structures and Obstructions

2-02.3 Construction Requirements

12 Section 2-02.3 is supplemented with the following:

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(September 7, 2021)

Removal of Obstructions

The following miscellaneous Obstructions shall be removed and disposed of:

Stage 1 – Preloading

Station/Location	ltem	Approximate Quantity
16+93 to 18+53 (LT & RT)	Chain Link Fence	339 LF
18+48 (LT)	Empty Underground Vault	1 EA

20 21

Stage 2 - Roadway Construction

ltem	Approximate Quantity
Modular Block Wall	65 LF
Chain Link Fence	150 LF
Chain Link Fence	160 LF
Chain Link Fence	70 LF
Chain Link Fence	60 LF
Double Chain Link Gate	1 EA
	Modular Block Wall Chain Link Fence Chain Link Fence Chain Link Fence Chain Link Fence

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- 23 24 **2-02.3(4) S**a
 - 2-02.3(4) Sawcutting

Section 2-02.3(4) is added as follows:

The Contractor shall be responsible for ensuring that special precautions are undertaken so that no concrete or concrete by-products, or products and by-products used in the sawcut of asphalt or concrete, are discharged into any storm drain or surface water system.

In accordance with the Department of Ecology guidelines, wastewater from Portland cement concrete, masonry, and asphalt concrete cutting operations shall not be discharged to storm drainage systems or surface waters. Cutting operations increase the pH of wastewater, therefore, filtering prior to discharge is **NOT** acceptable.

To thoroughly clean sawcuts where necessary, the Contractor shall use high pressure water (high pressure water is considered greater than 1400 psi).

CITY OF STANWOOD VIKING WAY PHASE 2 SPECIAL PROVISIONS

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10 11 All wastewater shall be collected using a wet-dry vacuum or pumped into drums for disposal. Disposal of the waste liquid may be to soil or other porous surfaces away from storm drains and surface water, only if the Contractor collects and disposes of remaining sediment after water has filtered into soil or evaporated. Impervious surfaces contaminated with sediment and grit from cutting operations shall be cleaned by sweepers to prevent contaminants from entering the storm drainage system or surface waters when it rains.

9 2-02.4 Measurement

10 Section 2-02.4 is supplemented with the following:

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Sawcutting existing pavement will be measured by the linear foot. Measurement will occur once, regardless of the number of passes required to sawcut to the depth required to accomplish the removal.

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2-02.5 Payment

17 Section 2-02.5 is supplemented with the following:

- 18 19
- "Sawcutting Existing Pavement", per linear foot.

The unit Contract price per linear foot for "Sawcutting Existing Pavement" shall be full pay for all labor, material, tools, and equipment necessary to satisfactorily complete the Work as defined in the Contract Plans and these Special Provisions. No measurement will be made for sawcutting when sawcutting is paid for as part of the unit price of other pay items or for additional cuts within the removal limits not shown in the Site Preparation Plans.

26 2-03 Roadway Excavation and Embankment

28 2-03.3 Construction Requirements

29 Section 2-03.3 is supplemented with the following:

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Due to poor soil conditions, exposed soil must be kept to a minimum. Underground utility installation shall be followed by temporary pavement patch to provide a driving surface. Contractor or general public wheel loads shall not be applied to any exposed soil until geotextile, geogrid, and ballast are placed at a minimum.

- 2-03.3(14) Embankment Construction
 - 2-02.3(14)C Compacting Earth Embankments
 - Section 2-02.3(14)C is supplement with the following:

The preload fill material from Stage 1 to be left in place as earth embankment for roadway subgrade shall be compacted to 95 percent of the maximum density as determined by the compaction control tests described in Section 2-03.3(14)D.

- 45 2-03.3(20) Fill Placement and Preload Construction
- 46 Section 2-03.3(20) is added as follows: 47

2-03.3(20)A General

50 Summary

51 This Section describes general requirements for fill placement and preload 52 construction including: clearing, fill placement, compaction, grading, processing,

1 2 3	stockpiling, removal, disposal of unsuitable materials, aggregates, and settlement monitoring.
4	Preload material is to be provided, transported, and placed by the Contractor.
2 3 4 5 6 7 8 9 10	The Contractor shall stake the settlement plate locations prior to placing any material. These locations shall be staked by a licensed surveyor at the locations shown in the Plans or as directed by the Engineer. See Special Provision "Contractor Surveying – Preloading".
10 11 12 13 14 15	The Contractor will then monitor the elevations of the settlement plates as the fill material is placed and compacted. The elevations of the base plate of the settlement plate as determined from surveying the settlement plate stem will be used to establish the limits of both the Base Fill and the Preload Material.
16 17 18 19 20	Related Sections: The Work of the following Sections is related to the work of this Section. Other Sections, not referenced below, may also be related to the proper performance of this Work. It is the Contractor's responsibility to perform all Work required by the Contract documents:
20 21 22 23 24 25	 Section 2-01 Clearing, Grubbing, and Roadside Cleanup of the Standard Specifications Section 8-01 Erosion Control and Water Pollution Control of the Standard Specifications and these Special Provisions
26 27 28	Quality Assurance Referenced Standards: This section incorporates by reference the latest revision of the following documents. It is part of this section as specified and modified. In case
29 30 31	of conflict between the requirements of this section and that of the listed documents, the requirements of this section shall prevail:
32 33 34 35	 ASTM C136-96a: Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. ASTM D75-97: Standard Practice for Sampling Aggregates. ASTM D422-63 (1998): Standard Test Method for Particle-Size Analysis of
36 37 38 39	Soils. 4. ASTM D698-00a: Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN- m/m3)).
40 41 42 43	 ASTM D1557-00: Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3(2,700 kN-m/m3)). ASTM D2167-94: Standard Test Method for Density and Unit Weight of Soil
44 45 46	 in Place by the Rubber Balloon Method. 7. ASTM D2216-98: Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass. 8. ASTM D2434-68 (2000): Standard Test Method for Permeability of Granular
47 48 49 50	Soils (Constant Head). 9. ASTM D2487-00: Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System). 10. ASTM D2922-96e1: Standard Test Methods for Density of Soil and Soil-
51	Aggregate in Place by Nuclear Methods (Shallow Depth).

1	11. ASTM D3017-96e1: Standard Test Method for Water Content of Soil and
	Rock in Place by Nuclear Methods (Shallow Depth).
3	12. ASTM D4318-00: Standard Test Methods for Liquid Limit, Plastic Limit, and
4	Plasticity Index of Soils.
2 3 4 5 6 7	13. ASTM D4718-87 (1994)e2: Standard Practice for Correction of Unit Weight
6	and Water Content for Soil Containing Oversize Particle.
7	14. Washington Department of Transportation (WSDOT): Standard
8	Specifications (for Road, Bridge and Municipal Construction) 2023, English
9	Units, M 41-10.
10	15. ASTM C117-95: Standard Test Method for Materials Finer than 75-um
11	(No.200) Sieve in Mineral Aggregates by Washing.
12	
13	The Contractor shall make all tests necessary to locate acceptable sources of
14	imported materials, as outlined in the Fill and Preload Material portion of this Section.
15	All material samples shall be furnished by the Contractor at the Contractor's sole
16	expense. Samples shall be representative and shall be clearly marked to show the
17	source of the material and the intended use on the project. Sampling of the material
18	source shall be completed by the Contractor in accordance with ASTM D 75. The
19	Contractor shall notify the Engineer or representative at least 48 hours prior to
20	sampling. The Engineer or representative may, at the Engineer's or representative's
21	option, observe the sampling procedures. No imported materials shall be delivered
22	to the site until the proposed source and the written results of the material tests have
23	been reviewed by the Engineer or representative.
24	
25	The Contractor shall at all times control the delivery of materials such that no excess
26	or extra imported materials beyond those required for the project are delivered to the
27	site. It is the Contractor's responsibility to determine and provide the quantities
28	required to perform the work.
29	required to perform the work.
30	Submittals
31	
	The Contractor shall submit the following items for approval by the Engineer a
32	minimum of 21 calendar days prior to commencing preloading Work:
33	
34	1. Proposed source(s) and proposed method(s) of sampling source(s) for
35	acceptance, including colored photographs of the proposed soils to be used.
36	2. Proposed soil processing, placement, compaction, and moisture control
37	equipment.
38	Proposed installation locations of settlement monitoring plates.
39	Proposed work schedule.
40	5. Proposed method of protecting work, to include temporary erosion control
41	measures.
42	6. Proposed excavation, stockpiling, re-grading, removal and staging plan
43	describing handling and transport of on-site and off-site materials, including
44	refuse haul.
45	
46	The Contractor shall submit the following items for approval by the Engineer a
47	minimum of 10 calendar days prior to commencing preloading Work:
48	and an and an
49	1. Submit name of imported materials suppliers.
50	2. Submit quantity of imported material.
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 Submit certification the material conforms to the Specification requirements along with copies of the test results, including gradation curves, from a qualified commercial testing laboratory.

Sequencing and Scheduling

Work shall start and be completed between August 1 and September 15, or as approved by the Engineer.

The Contractor shall notify the Engineer a minimum of 72 hours prior to commencement of preloading earthwork.

12 Regulatory Requirements

The Contractor shall obtain and comply with the appropriate local, state, and federal permits and licenses required for transporting affected soil to the selected disposal site.

The Contractor is responsible for completing manifests, bills of lading, or similar documentation for all wastes transported from the site.

2-03.3(20)B Materials

General

The Engineer or representative, prior to use or delivery to the site, must approve all materials and material sources.

Excavated material that the Engineer or representative determines to be unsuitable shall be stockpiled by the Contractor in a manner and location acceptable to the Engineer or representative to be disposed of at a later date.

Fill and Preload Material

Fill to raise site grade and for preloading shall consist of granular material, either naturally occurring or processed, and shall be crushed surfacing base course in accordance with Section 9-03.9(3).

Wet Weather Handling and Placement of Fill

- Wherever possible, the Contractor shall immediately place and compact fill materials delivered to the site. The Contractor shall cover and protect all stockpiles of on-site and imported soil from being exposed to rain. The Contractor is required to control the moisture content on all fill material such that it can be placed and compacted as specified herein.
- Isolated or extended periods of wet weather may force the Contractor to suspend
 placement and compaction of fill. It will be the Contractor's responsibility to complete
 the specified Work in the specified schedule.

2-03.3(20)C Execution

General

- Equipment utilized by the Contractor shall meet the following requirements:
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1	 All materials, equipment and tools used in the performance of this Work are
2 3 4 5 6 7	subject to the approval of the Engineer or representative before Work is
3	started.
4	2. Provide compaction equipment appropriate for the material types to obtain
5	
5	the densities specified.
6	3. Operate and maintain compaction equipment in accordance with the
7	manufacturer's instructions and recommendations. If inadequate densities
8	are obtained, the Contractor shall provide larger and/or different type
9	equipment at no additional cost to the Owner.
10	4. Provide equipment for mixing and drying out material, such as blades, discs,
11	or other approved equipment, as necessary
12	
13	The Contractor shall verify the following conditions:
14	
15	 Verify all lines, limits, and grades prior to beginning construction activities.
16	2. Verify that the survey control system is installed and properly protected from
17	construction operations prior to earthwork.
18	3. Verify that all settlement plates have been installed and their elevations
19	
	documented prior to any fill placement.
20	
21	Protection
22	All roads, grading, structures, utilities, fences, and other improvements not
23	specifically designated to be cleared, removed, stripped or altered as a part of the
24	
	preloading Work (Stage 1) shall be protected from damage throughout the
25	construction and settlement periods. Any damage caused by the Contractor, its
26	employees, agents, or any lower tiered subcontractors shall be immediately repaired
27	to the original condition and to the satisfaction of the Engineer or representative at
28	the Contractor's cost. Completed Work shall be protected from wetting, drying and
29	freezing by providing temporary drainage features as necessary.
	neezing by providing temporary drainage reactives as necessary.
30	
31	All settlement plates shall be protected from damage.
32	
33	Existing Utilities:
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	4. Known wisting utilities are indicated in the Diana. Usual waswate all
35	1. Known existing utilities are indicated in the Plans. Hand excavate all
36	excavations within 6 inches of areas where existing utilities are indicated,
37	unless directed otherwise by the Engineer or representative.
38	2. Verify the actual locations of all existing utilities within the excavation area
39	through the use of a qualified utility location services firm and by hand
	2만 한 것 같아요. 바람들은 그는 것 같아요. 한 것 같아요. 가지 것 같아요. 것 같아요. 그 것 같아요. 한 것 같아요. 가지 않는 것 같아요. 것 같아요. 가지 않는 것 않는
40	excavation.
41	Record the utility locations on the record drawings.
42	
1 date	4. After the actual locations and routing of the existing utilities have been found
	4. After the actual locations and routing of the existing utilities have been found
43	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval
43 44	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery
43 44 45	4. After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative.
43 44 45 46	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery
43 44 45	4. After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative.
43 44 45 46 47	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities.
43 44 45 46 47 48	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities. Any existing utility indicated in the Plans that is damaged, shall be
43 44 45 46 47 48 49	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities. Any existing utility indicated in the Plans that is damaged, shall be immediately repaired in a manner acceptable to the Engineer or
43 44 45 46 47 48 49 50	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities. Any existing utility indicated in the Plans that is damaged, shall be immediately repaired in a manner acceptable to the Engineer or representative and at no additional cost to the Owner.
43 44 45 46 47 48 49 50 51	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities. Any existing utility indicated in the Plans that is damaged, shall be immediately repaired in a manner acceptable to the Engineer or
43 44 45 46 47 48 49 50	 After the actual locations and routing of the existing utilities have been found to be accurately determined through this hand excavation, and after approval from the Engineer or representative, excavation may begin using machinery in a manner acceptable to the Engineer or representative. After excavation by machinery has begun, the Contractor is fully responsible for all utilities. Any existing utility indicated in the Plans that is damaged, shall be immediately repaired in a manner acceptable to the Engineer or representative and at no additional cost to the Owner.

1 2 3 4 5 6 7 8 9 10 11 12 13	 hour prior notice to the Engineer or representative of planned excavations of this type. Coordinate with the City and the applicable utility companies to arrange for and perform this Lockout/Tagout. 8. Notify the Engineer or representative immediately if any existing utilities, which were not indicated in the Plans, are encountered during excavation. 9. Obtain approval from the Engineer or representative before backfilling existing utilities. Utility warning tape shall be placed 12 inches above existing utilities as directed by the Engineer. 10. Damaged settlement plates shall be re-established at the sole expense of the Contractor. 11. Damage to roadways from truck traffic shall be repaired by the Contractor at no additional cost to the Owner.
14 15 16 17	2-03.3(20)D Preparation The Contractor shall prepare the site in accordance with Sections 2-01 of the Standard Specifications. After clearing, no object shall extend more than 6 inches above subgrade.
18 19 20 21 22 23	2-03.3(20)E Placing and Spreading Fill Materials – General Requirements The Contractor shall not place fill until preparation of the underlying surface has been completed in accordance with these Special Provisions and has been accepted by the Engineer or representative.
24 25	The Contractor shall place fill materials as follows:
26 27 28 29	 Fill shall be placed in layers no thicker than eight (8) inches (loose lifts). Each lift shall be compacted to 92 percent of its maximum dry density as determined by ASTM D 1557.
30 31 32 33	The Contractor shall stop fill placement temporarily during unsuitable weather conditions, or when specified compaction is not being achieved due to unsuitably high moisture content as directed by the Engineer or representative.
34 35 36 37	The Contractor shall place fill materials in continuous layers not exceeding the requirements for loose lifts described for fill material or fill application of this specification.
38 39 40	The Contractor shall employ a placement method that does not disturb or damage settlement plates or utilities.
41 42 43	The Contractor shall grade in a manner that shall promote positive site drainage and that shall direct drainage away from the Work and prevent ponding.
44 45 46 47 48	The Contractor shall uniformly grade areas to provide a finished surface that is smooth, compacted, and free of irregularities. Comply with compaction requirements and grade to cross sections, lines and elevations indicated in the Plans or as directed by the Engineer.
49 50 51	The Contractor shall protect newly graded surfaces from erosion per Section 8-01 of the Standard Specifications and these Special Provisions until the Engineer determines that settlements are substantially complete. This determination will be

1	based on settlement plate readings in accordance with Special Provision "Contractor
2	Surveying – Preloading" in Section 1-05.4.
3	
4	2-03.3(20)F Settlement Plate Installation, Protection, and Monitoring
5	The Contractor shall construct and install settlement plates in accordance with the
6	details in the Plans and these Specifications and at the locations shown in the Plans
2 3 4 5 6 7	or as approved by the Engineer. The Contractor shall remove portions of the
8	settlement plate pipes when directed by the Engineer.
9	
10	2-03.3(20)F1 Materials
11	Materials shall meet the requirements shown in the Plans and the following
12	requirements:
13	
14	Steel Pipe and Fittings
15	Steel pipes and pipe fittings shall be 3 inches in diameter, threaded, and be
16	hot-dip galvanized inside and out and meet the requirements of ASTM A
17	53.
18	
19	Steel Bases
20	Steel bases shall consist of 1/4 inch thick (minimum) steel plates measuring
21	a minimum of 2 foot by 2 foot square. A 3-inch flange should be welded to
22	the center of each steel base.
23	
24	Bedding Sand
25	Bedding material for settlement plates shall be clean sand/gravel mixture
26	free from organic matter or material used for sand blanket. Bedding material
27	used, other than for sand blanket, shall be graded in accordance with ASTM
28	C136 to a maximum size of 3/4 inch and a maximum of 3 percent passing
29	the No. 200 sieve in accordance with ASTM C117 and conforming to the
30	gradation in Table 1.
31	
	Table 1

Table 1 Settlement Plate Bedding Material	
US Standard Sieve Size Percent Passing	
3/4 in. square	100
3/8 in. square	70-100
U.S. No. 4	55-100
U.S. No. 10	35-95
U.S. No. 20	20-80
U.S. No. 40	10-55
U.S. No. 100	0-10
U.S. No. 200	0-3

All percentages are by weight

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All percentages are by weight

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2-03.3(20)F2 Settlement Plate Assembly

Each settlement plate shall be installed on level firm ground, or on a level bedding sand pad if needed for stability, as detailed in the Plans. The steel pipe shall be securely threaded into the flange, so all vertical movement of the base will create an equal vertical movement in the steel pipe. As each section of the steel pipe is added to the settlement plate, the added section shall be securely attached to the section(s) below it using steel couplers, threaded to match the pipe threads.

³² 33

1 2 3 4 5	A steel cap, threaded to match the pipe threads, shall be threaded to the top of the upper most pipe section and remain in place at all times, other than when being surveyed, to avoid debris falling into the pipe.
5 6 7 8 9	The Contractor shall clearly mark each settlement plate location with red flagging and cones, as a minimum, so they can be easily seen and avoided by equipment operators.
10 11 12 13 14	2-03.3(20)F3 Extending Settlement Plates Additional 5- to 7-foot long sections of pipe shall be added to the settlement plate raisers, per the Plans, as fill height comes within three (3) feet of the top of the existing settlement plate riser.
15 16 17 18	Care shall be taken to make sure that the settlement plate cap and additional red flagging is placed on the new section of pipe before it is added to the settlement plate riser.
19 20 21	Additional pipe sections shall be connected through the use of 3-inch threaded couplers.
22 23 24 25	Legible marks shall be made on the outside of the settlement plate pipe at one (1) foot increments from the base plate. Numeric distances shall be marked every five (5) feet.
26 27 28 29	2-03.3(20)F4 Settlement Plate Monitoring Settlement plate monitoring shall be done in accordance with Special Provision "Contractor Surveying – Preloading" in Section 1-05.4.
30 31 32 33 34 35 36 37 38	2-03.3(20)F5 Protection and Restoration of Settlement Plates The Contractor shall make every effort to protect all settlement plates. If a settlement plate is damaged by the Contractor, the settlement plates shall be repaired to the satisfaction of the Engineer by the end of the same day the damage occurred at the Contractor's expense. The Engineer may also require extending the preload settlement period as a result of the damages. Delays and costs associated with time extensions of the settlement period shall also be borne by the Contractor.
39 40 41 42	Repairs should be immediate. No placement of fill is allowed within twenty (20) feet of a damaged settlement plate until Contractor has made sufficient repairs as determined by the Engineer.
43 44 45 46 47 48 49 50 51 52	2-03.3(20)F6 Removal of Settlement Plates The Contractor shall remove and abandon settlement plate assemblies encountered during removal of preload material. If it is determined that a settlement plate will be within four (4) feet or less from Subgrade elevation, the Contractor shall remove the settlement plate entirely. Settlement plates that are four (4) feet or more from Subgrade elevation may be abandoned. A settlement plate shall be abandoned by filling risers and any remaining hole completely with sand. Abandoned risers should be noted by the Contractor to avoid interference with other Work. If an abandoned settlement plate is encountered during other Work, the remaining plate elements shall be removed and disposed of at the

1 2	Contractor's expense.
3	2-03.3(20)G Site Monitoring and Maintenance
3 4	The Contractor shall provide weekly inspections and maintenance of the site during
5	preloading. The Contractor's site monitoring and maintenance responsibilities are as
5 6 7	follows:
7	TOILOWS.
7	A MARTIN increations of the site will be increasing to followed by according
8 9	1. Weekly inspections of the site will be immediately followed by necessary
	repairs to TESC measures/BMPs or fencing found to be damaged.
10	2. Inspection of TESC measures/BMPs, and repairs as necessary, are required
11	after any storm with an intensity greater than 6 months for any duration.
12	3. Inspections and maintenance/repairs required for points of runoff discharge
13	to City or any offsite owner shall be included on the same inspection and
14	maintenance schedule.
15	4. Inspections and maintenance shall occur indefinitely until the site preloading
16	is complete or unless otherwise directed by the Engineer.
17	5. An inspections checklist shall be submitted to the Engineer for approval upon
18	Notice to Proceed for Stage 1. The inspections checklist shall be filled out for
19	each inspection and submitted to the Engineer.
20	
21	2-03.3(20)H Quality Control
22	The Contractor is responsible for layout and surveying, and achieving the required
23	fill grades.
24	
25	The Contractor's confirmation testing responsibilities are as follows:
26	
27	1. Accomplish specified compaction.
28	2. Control operations by confirmation tests to verify that compaction work
29	complies, and is complying at all times, with requirements specified in this
30	Section concerning compaction, control, and testing.
31	3. Cost of confirmation tests: Paid for by the Contractor.
32	4. Qualifications of Contractor's testing laboratory: Perform confirmation testing
33	그는 그 것 같아요. 이 돈 것 것 같아요. 이 것 같아요.
	by soils testing laboratory acceptable to the Engineer.
34	5. Verbally inform the Engineer of all field test results within 1 hour after
35	completion of the test.
36	6. Copies of confirmation test reports: Submit to the Engineer at the same time
37	they are issued to the Engineer.
38	In-place density tests shall be performed no less than twice per lift.
39	
40	The Contractor's compliance testing responsibilities are as follows:
41	
42	1. Periodic compliance tests will be made by the Engineer to verify that
43	compaction is meeting requirements previously specified.
44	2. Remove overburden above level at which the Engineer wishes to test. Backfill
45	and recompact excavation after testing is completed.
46	3. If compaction fails to meet specified requirements, perform remedial work by
47	one of the following methods:
48	 Remove and replace materials at proper density.
49	b. Bring density up to specified level by other means acceptable to the
50	Engineer.
51	
52	The Contractor's retesting responsibilities are as follows:
	en la na la navada en

- 1. The Contractor bears the costs of retesting required to confirm and verify that remedial work has brought compaction within specified requirements.
- 2. The Contractor's confirmation tests during performance of remedial work: Double the normal rate specified.

2-03.3(20) Roadway Excavation Including Haul – Preload Material

Upon completion of the preload settlement period (Stage 1), preload crushed surfacing material above Subgrade elevation shall be removed and stockpiled onsite. Preload crushed surfacing material removed from the preload area and not reused on-site, shall be disposed of off-site at Contractor expense.

The Contractor shall be aware of settlement plates installed within the preload material. During the excavation of the preload material, the Contractor shall remove settlement plates in accordance with Section 2-03.3(20)F6 of these Special Provisions.

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2-03.4 Measurement

19 Section 2-03.4 is supplemented with the following:

There will be two determinations of the original ground elevation for this contract. The first determination of the original ground elevation will be made prior to preloading as shown in the Contract Plans for Stage 1. Measurement for earthwork quantities for Stage 1 will be based on the original ground elevations recorded prior to the award of this Contract.

26 If discrepancies are discovered in the ground elevations which will materially affect the
 27 quantities of earthwork, the original computations of earthwork quantities will be adjusted
 28 accordingly.

- Earthwork quantities will be computed, either manually or by means of electronic data
 processing equipment, by use of the average end area method or by the finite element
 analysis method utilizing digital terrain modeling techniques.
- Copies of the ground cross-section notes will be available for the bidder's inspection, before the opening of bids, upon request at the Contracting Agency's office.
- Upon award of this Contract, copies of the original ground cross-sections will be furnished to the successful bidder on request to the Engineer.
- 39 40

A new determination of the ground will be made by the Contractor per Special Provision
 "Contractor Surveying – Preloading" after the Engineer determines that settlements are
 substantially complete. The survey data will be provided to the Engineer and the original
 computations of earthwork quantities (roadway excavation including haul – preload
 material and embankment compaction) for Stage 2 will be adjusted accordingly.

- Roadway excavation including haul preload material will be measure by the cubic yard
 and will include excavating and stockpiling on-site. No additional measurements following
 the new determination of the ground after substantial completion of the preloading will be
 taken regardless of the number of times the Contractor is required to stockpile, re excavate, move, and regrade any excavated materials for reuse in the Project limits or for
 disposal.
- 52

Settlement Plates will be measured per each, as determined by count of the actual number of plates installed. No measurement will be made for Work to abandon or salvage existing settlement plates.

5 2-03.5 Payment

6 Section 2-03.5 is supplemented with the following:

- 8 The unit Contract price per cubic yard for "Roadway Excavation Incl. Haul" shall be full 9 compensation for all costs incurred for excavating, loading, hauling, and otherwise 10 disposing of the material outside the preloading area shown in the Plans.
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12 "Roadway Excavation Incl. Haul – Preload Material", per cubic yard.

The unit Contract price per cubic yard for "Roadway Excavation Incl. Haul – Preload Material" shall be full compensation for all costs incurred for excavating, loading, hauling, grading, stockpiling, or otherwise disposing of the Stage 1 preload material. Abandonment or removal and disposal of settlement plates and associated materials in preloading crushed surfacing material will be considered as included in the unit Contract price for "Roadway Excavation Incl. Haul – Preload Material" and no separate payment will be made.

- 20
- 21 "Settlement Plate", per each.
- The unit Contract price per each for "Settlement Plate" shall be full pay for all Work to complete the installation of the settlement plate including but not limited to furnishing and placing the bedding sand, steel base plate, steel pipe, pipe couplings, and pipe cap.
- Monitoring preload settlement will be considered as paid for in the lump sum Contract price for "Preload Surveying". Safe access to the top of preload embankment during survey monitoring shall be the responsibility of the Contractor and no separate payment will be made.
- 30

The paragraph following "Embankment Compaction", per cubic yard." is replaced with the following:

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The unit Contract price per cubic yard for "Embankment Compaction" shall be full compensation for all costs incurred for recompacting preload material and placing and compacting preload material used outside of the preload area and labor, tools, equipment, and incidentals required.

- 39 2-08 Vacant
- 40 Section 2-08, including title, is replaced with the following:

41 42 **2-08 Dewatering**

43

44 2-08.1 Description

This Section specifies the definition, responsibilities, and execution for control of ground water.
Control of ground water shall consist of the design, furnishing, installation, operation,
maintenance and removal of a ground water control system to achieve proper completion of
all Work performed under this Contract.

49

50 Site soil and ground water conditions are presented in reports available for review as an 51 appendix to these Special Provisions. The use of the available data and information in no way 52 reliaves the Contractor from the color responsibility for preparitient

52 relieves the Contractor from the sole responsibility for proper installation, operation,

1 maintenance, and any failure of any component of the dewatering systems for the duration of 2 this Contract.

4 2-08.2 Vacant

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2-08.3 Construction Requirements

2-08.3(1) General

9 The Contractor shall be fully responsible for acquainting itself with the soils reports that 10 are available for review, existing site conditions, and all regulatory requirements prior to 11 commencing with ground water control activities.

12

13 The Contractor shall provide, operate, maintain, and decommission ground water control 14 systems as needed for all excavations deeper than the ground water table. The ground 15 water control system shall be adequate to keep excavations sufficiently free of water to 16 prevent destabilization of soils and to allow for placement of backfill materials after soil 17 cleanup in dry conditions. The ground water control system will maintain the ground water 18 in a hydrostatically-controlled condition during excavation and shall dewater and dispose 19 of the water so as not to cause injury to public or private property, or to cause a nuisance 20 or a menace to the public.

21

The Contractor shall control ground water so as to prevent softening of the bottom of excavations, or formation of "quick" conditions or "boils" during excavation. The Contractor shall design, install, maintain and operate dewatering systems so as to prevent removal of the natural soils. In addition, the Contractor shall minimize ground water level drawdowns to avoid adverse impacts to adjacent Structures.

27

The Contractor shall employ materials, equipment, and construction methods commonly used and proven as suitable for operation of construction dewatering systems. The Contractor shall provide submittals and/or product data that demonstrate the suitability of the materials and equipment proposed for use on these systems. The Contractor shall test the dewatering system to the reasonable satisfaction of the Engineer and make operational any deficiency prior to acceptance and payment.

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If utilized, dewatering well or well point construction and abandonment shall be in accordance with WAC 173-160. The Contractor shall obtain variances as required to construct dewatering systems that achieve the level of ground water control specified.

- The Contractor shall notify the Engineer seven (7) days prior to installation of any dewatering wells or well points. The Contractor shall provide the Engineer with a well log and formation samples at 5-foot intervals for each of the wells.
- 42

Dewatering wells, well points, or sump pumps shall be operated continuously for as long
 as they are needed in a given area. Turning off wells or pumps at night and turning them
 back on the next day will not be allowed in order to prevent rapid drawdown conditions in
 the soils causing caving and sloughing of excavation slopes. Additionally, the pumping
 rate shall be set low enough to minimize the silt mobilization during dewatering.

48

The Contractor shall provide backup systems for all ordinary emergencies, including power outage and flooding, and shall have available at all times competent workers for the continuous and successful operation of the ground water control system. The Contractor shall not disable or shut down this system between shifts, on holidays, or

- weekends, or during Work stoppages, without written permission from the Engineer. The
 Contractor shall be responsible for maintaining all electric power service connections to
 the dewatering system components; the Contractor shall be responsible for the cost of
 electric power used in the operation of the dewatering system.
 - During excavation, the Contractor shall also control surface runoff so as to prevent entry or collection of water in excavations or in other isolated areas of the site.
- Before the commencement of any dewatering, the Contractor shall obtain acceptance by
 the Engineer of any proposed ground water control system(s).

12 2-08.3(2) Submittals

Within two (2) weeks of the Notice to Proceed and prior to beginning Work, the Contractor
 shall submit a detailed Dewatering Plan of its proposed ground water control system.

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The Contractor's Dewatering Plan shall be submitted to the Engineer for review, and shall include complete design data showing methods and equipment the Contractor proposes to utilize in installation and construction of the ground water control systems. The Dewatering Plan shall include, at a minimum, placement of sumps, wells, or well points, and plans for dealing with the effluent such as settlement tanks or other best management practices.

22

Acceptance by the Engineer of the method, installation, and operation and maintenance submitted by the Contractor shall not in any way relieve the Contractor from responsibility for errors therein or from the entire responsibility for complete and adequate operation, materials, installation, and maintenance of the ground water control system. The Contractor shall bear sole responsibility for proper design, installation, operation, maintenance, and any failure of any component of the ground water control system for the duration of this Contract.

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2-08.3(3) Treatment and Discharge of Water

The Contractor shall treat and discharge all dewatering effluent as specified herein.

The Contractor shall provide in-line, totalizing flow meters on the discharge pipe for each discharge point or diversion of discharge. The flow meters will read in gallons per minute for the range of flows pumped, and the Contractor shall provide evidence that the flow meters are calibrated and installed to the manufacturer's Specifications.

- The Contractor shall extend discharge piping to discharge point(s) approved by the Engineer and consistent with requirements of the discharge permits.
- 40 41

39

The quality of the ground water discharged from the dewatering system shall not be allowed to degrade the water quality of any surface waters. The Contractor shall provide a water treatment system to meet storm or sanitary sewer Discharge Permit criteria for contaminants, turbidity and suspended solids.

46 47

2-08.3(4) Operation of Dewatering System

The Contractor shall design, construct, operate, and maintain any ground water control system such that foundation soils, natural or engineered, will not experience fines removal upon pumping.

51

- The Contractor shall bear full responsibility for all damages to Work in the excavation area and for damages to any other area caused by the Contractor's failure to maintain and operate the system properly.
- The Contractor shall use electrical generators or obtain electrical service from the utility company and shall pay application fees. The Contractor shall pay for power usage fees throughout the Contract period. The Contractor shall use this electric service solely to power the ground water control system, separate from all other power needs.
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10 The Contractor shall provide all of the equipment and fittings for monitoring sand content 11 and properly mount them near the system discharge point(s). The Contractor shall 12 monitor discharge from all parts of the system to ensure that the sand content of the 13 discharge water does not exceed ten (10) milligrams per liter (ppm) as determined by a 14 centrifugal, separating meter such that as that described in the Journal AVWVA, 46:123 15 (February 1954) (Rossum Sand Tester) or equivalent. The Contractor shall take sand 16 content measurements daily in the presence of the Engineer until ten (10) days after the 17 last well has been installed and weekly thereafter.

18 19

2-08.3(5) System Removal

20 Upon written authorization of the Engineer, the Contractor shall remove from the site all 21 ground water control system elements. The Contractor shall assume ownership and 22 responsibility for the disposal of all dewatering pumps, pipes and other assorted system 23 hardware. The Contractor shall be or shall employ the services of a Washington-licensed 24 water well Contractor for any well abandonment. 25

26 2-08.4 Measurement

27 No specific unit of measurement will apply to the lump sum item of "Dewatering".

28 29 **2-08.5 Payment**

30 Payment will be made in accordance with Section 1-04.1, for the following Bid item when it is 31 included in the Proposal:

- 32 33
- "Dewatering", lump sum.

The lump sum Contract price for "Dewatering" shall be full compensation for all Work to dewater excavations, including the design and submittal of a Dewatering Plan; furnishing, installing, operation, maintenance, and removal of a dewatering system to control ground water as specified; and all Work to handle, store, test, settle or filter, treat and discharge collected ground water from dewatering operations for solids or turbidity to meet storm or sanitary sewer Discharge Permit criteria. No additional payment will be made for treatment permits or delays encountered for controlling and/or discharging ground water.

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43

42 2-09 Structure Excavation

- 44 2-09.2 Materials
- 45 Section 2-09.2 is supplemented with the following:
- 46 47 Permeable
 - Permeable Ballast

9-03.9(2)

- 48 49 2-09.3 Construction Requirements
- 50 51 **2-09.3(1)** General Requirements
- 52

1	2-09.3(1)E Backfilling
2 3 4 5 6 7 8	Section 2-03(1)E is supplemented with the following:
1	It is anticipated that native material will not be suitable for use as backfill and bedding
5	material. Stockpiled crushed surfacing base course used as preload fill material in
6	Stage 1 shall be used as the backfill and bedding material for storm sewer, modular
7	wetlands, manholes, and catch basins. Permeable ballast shall be used as the pipe
8	zone foundation and drainage structure foundation material as detailed in the Plans.
9	
10	Stockpiled crushed surfacing base course used as preload fill material in Stage 1
11	shall also be used as backfill material for the voids left from removing drainage pipes
12	and structures.
13 14	Areas where unsuitable materials have been encountered and removed shall be
15	backfilled with permeable ballast conforming to the Standard Specification 9-03.9(2).
16	backlined with permeable ballast comonning to the Standard Specification 5-03.5(2).
17	2-09.3(4) Construction Requirements, Structure Excavation, Class B
18	Section 2-09.3(4) is supplement with the following:
19	
20	When a bucket is used for trench excavation, it shall be performed with a toothless
21	bucket or as directed by the Engineer.
22	
23 24	2-09.5 Payment
24	Section 2-09.5 is supplemented with the following:
26	All costs associated with placing, grading, and compacting stockpiled crushed surfacing
27	base course as backfill and bedding material in the pipe zone and drainage structure
28	foundation pads shall be considered incidental to and included in the unit Contract price
29	for the various storm sewer utility items included in the Contract.
30	
31	All costs associated with furnishing and installing permeable ballast material within the
32	pipe zone foundation and drainage structure foundation, including compaction, will be
33 34	made under the applicable item shown in the Proposal.
35	The unit Contract price per cubic yard for "Structure Excavation Class B" shall include
36	plugging existing pipe(s), regardless of the size or type, encountered during excavation
37	activities in accordance with Section 7-08.3(4) of the Standard Specifications.
38	
39	2-10 Vacant
40	Section 2-10, including title, is replaced with the following:
41	
42	2-10 Geogrid Reinforcement of Subgrade
43	
44 45	2-10.1 Description
45	This section describes the geogrid reinforcement of roadway and utility subgrade and similar installations. Design details for geogrid reinforcement, such as geogrid type and placement,
47	shall be as shown in the Plans. Work consists of:
48	
49	1. Providing supplier representative for pre-construction conference with the Contractor
50	and the Engineer.
51	Furnishing geogrids as specified herein and shown in the Plans.

1 2 3 4	3	 Storing, cutting, and placing geogrids in accordance with these Specifications and in reasonably close conformity with the lines, grades, and dimensions shown in the Plans or as established by the Engineer. 		
	The C	Contrac	tor shall also adhere to the following Sections as they apply to the specific Work:	
7	1	Sec	tion 2-01 Clearing, Grubbing, and Roadside Cleanup	
8			tion 2-06 Subgrade Preparation	
9			tion 4-04 Ballast and Crushed Surfacing	
10		. Gec	tion 4-04 Dallast and Ordshed Sunacing	
11		2-10.1(1) References	
12			an Association of State Highway and Transportation Officials (AASHTO)	
13			AASHTO Recommended Practice for Geosynthetic Reinforcement of the	
14		1.	Aggregate Base Course of Flexible Pavement Structures, AASHTO PP46-01,	
15			April 2001 Interim Edition of the AASHTO Provisional Standards.	
16		2	Standard Specification for Highway Bridges (1997 Interim)	
17			AASHTO Guide for Design of Pavement Structures (1993)	
18		5.	AASHTO Guide for Design of Pavement Structures (1993)	
19	1	morica	an Society for Testing and Materials (ASTM)	
20			D1388-96 – Standard Test Method for Stiffness of Fabrics, Option A, "Heart Loop"	
20		1.	D1300-30 - Standard lest Method for Stillless of Pablics, OptionA, Theart Loop	
22	0	Poosvn	thetic Research Institute (GRI)	
23			GRI-GG2-87 – Standard Test Method for Geogrid Junction Strength	
24			GRI-GG1-87- Standard Test Method for Geogrid Rib Tensile Strength	
25		2.	GRI-GGI-GI- Standard Test Method for Geogrid Rib Tensile Strength	
26	1	nternat	ional Standards Organization (ISO)	
27			ISO 10319:1996 Wide width Tensile Tests, Radial stiffness determined from	
28			tensile stiffness measured in any in-plane axis	
29		2	ISO 13434:1999 Guidelines for the Assessment of Durability of Geosynthetics	
30			ISO 12960 Resistance to loss of load capacity when subjected to chemically	
31		0.	aggressive environments as part of a durability assessment in accordance with	
32			ISO 13434:1999 7.3	
33				
34	F	urope	an Standards (EN)	
35	-		EN 12224 Weathering Resistance-Resistance to loss of load capacity when	
36			subjected to ultra-violet light and weathering assessment in accordance with ISO	
37			13434:1999 7.2	
38				
39	ι	J.S. Arr	my Corps of Engineers (USACE)	
40			Draft Specification for Grid Aperture Stability by In-Plane Rotation	
41			CW-02215 Determination of Percent Open Area.	
42				
43	A	America	an Society of Civil Engineers (ASCE)	
44			Giroud, J.P., and Han, J. (2004). "Design method for geogrid-reinforced unpaved	
45			roads. Part I – Development of design method." Journal of Geotechnical and	
46			Geoenvironmental Engineering, 130 (8), 775-786.	
47		2.	Giroud, J.P., and Han, J. (2004). "Design method for geogrid-reinforced unpaved	
48			roads. Part II – Calibration and applications." Journal of Geotechnical and	
49			Geoenvironmental Engineering, 130 (8), 787-797.	
50				

1 2-10.1(2) Definitions 2 Geogrid – A polymeric of

 Geogrid – A polymeric grid formed by a regular network of integrally connected, multidirectional tensile elements of appropriate orientation, size and shape with triangular apertures of appropriate size and shape to allow interlocking with surrounding soil, rock, or earth to function primarily as reinforcement.

Radial Stiffness – determined from tensile stiffness measured in any in-plane axis from
 testing in accordance with the scope of ISO 10319:1996.

10Junction Strength – Breaking tensile strength of junctions when tested in accordance11with GRI-GG2 as modified by AASHTO Standard Specification for Highway Bridges, 199712Interim, using a single rib having the greater of 3 junctions or 8 inches and tested at a13strain rate of 10 percent per minute based on this gauge length.

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9

Aperture Stability Modulus (also known as Torsional Rigidity or Torsional Stiffness) – Resistance to in-plane rotational movement measured by applying a 5 kg-cm (2.0 m-N) moment to the central junction of a 9-inch by 9-inch specimen restrained at its perimeter.

17 18

19 2-10.2 Materials

20 Structure Soil Reinforcement Geogrid – The geogrid shall consist of a multi axial geogrid that

21 is integrally formed and deployed as a single layer having the following characteristics:

22

Index Properties	Longitudinal	Diagonal	Transverse	General
Rib pitch, mm (in)	40 (1.60)	40 (1.60)	-	
Mid-rib depth, mm (in)	-	2.0 (0.08)	1.6 (0.06)	
Mid-rib width, mm (in)	-	1.0 (0.04)	1.3 (0.05)	
Nodal thickness, mm (in)				3.1 (0.12)
Rib shape				rectangular
Aperture shape				triangular
Rib Aspect Ratio (height: width)				> 1.0
Structural Integrity				
Junction efficiency, ⁽¹⁾ %				93
Aperture stability, ⁽²⁾ kg-cm/deg @				3.6
5.0kg-cm				
Radial stiffness at low strain,(3)				
kN/m @ 0.5% strain				300
Radial stiffness at low strain, ⁽³⁾				
(lb/ft @ 0.5% strain)				20,580
Durability				
Resistance to chemical				100%
degradation ⁽⁴⁾				
Resistance to ultra-violet light and weathering ⁽⁵⁾				100%

23

24 Notes:

25

1	1	Load transfer capability determined in accordance with GRI-GG2-87 and GRI-GG1-
1 2	1.	87 and expressed as a percentage of ultimate tensile strength.
3	2.	In-plane torsional rigidity measured by applying a moment to the central junction of a
4		225mm x 225mm specimen restrained at its perimeter in accordance with U.S. Army
5		Corps of Engineers Methodology for Measurement of Torsional Rigidity, (Kinney, T.C.
5 6		Aperture stability Modulus ref 3, 3-1-2000).
7	3.	Radial stiffness is determined from tensile stiffness measured in any in-plane axis
8		from testing in accordance with the scope of ISO 10319:1996.
9	4.	Resistance to loss of load capacity when subjected to chemically aggressive
10		environments in accordance with testing to ISO12960 as part of a durability
11	-	assessment in accordance with ISO13434:1999 7.3
12	5.	Resistance to loss of load capacity when subjected to ultra-violet light and weathering
13		in accordance with testing to EN12224 as part of a durability assessment in
14 15	C	accordance with ISO13434:1999 7.2
16	0.	All dimensions and values are typical unless otherwise stated.
17	Alterna	te Structural Soil Reinforcement Materials – Alternate structural soil reinforcement
18		Is will be considered if submitted at least 15 days prior to bid letting in accordance with
19		owing conditions:
20		
21	1.	Geotextile materials shall not be considered as an alternate to geogrid materials for
22		subgrade improvement or base/subbase reinforcement applications. A geotextile may
23		be used in the cross-section to provide separation, filtration or drainage; however, no
24		structural contribution shall be attributed to the geotextile.
25	2.	Alternate geogrid materials shall not be used unless submitted to and pre-approved
26		in writing by the Engineer. Consideration of alternate geogrid products will not be
27		evaluated based solely upon index and strength properties outlined in this
28 29		specification. In the event that material index properties of an alternate product do
30		not satisfy the requirements set forward in this specification, then a separate design incorporating the alternate geogrid product must be submitted for approval by the
31		Engineer. Submittal packages for alternate geogrid materials must be in the form of
32		an engineered design certified by a licensed professional engineer. Submittal must
33		include, but not limited to, the following items:
34		a. Design pavement/unpaved surface typical section including the alternate geogrid
35		product.
36		b. Letter summary of the alternate design describing the basis for design sealed by
37		a licensed professional engineer.
38		c. Research documentation of relevant and comparable full-scale evidence which
39		quantifies the performance of the alternate geogrid material with repetitive
40		loading applied by a passing wheel load of at least 4,500 pounds per single wheel
41		or 9,000 pounds per dual wheel.
42 43		d. A list of 5 comparable projects that are similar in terms of size and application,
43 44		are located in the United States, and where the results of using the specific alternate geogrid material can be verified after a minimum of 1 year of service
44		life.
46		e. A sample (meeting the requirements of sub-part 1.05A of this Section) of the
47		alternate geogrid material and certified specification sheets.
48		f. Recommended installation instructions.
49		g. Additional information as requested by the Engineer to fully evaluate the product.
50		
51	2-10.3	Construction Requirements
52		

1	2-10.3(1) Submittals
	The Contractor's submittals shall include:
3	
2 3 4 5	 A geogrid product sample approximately 4 inches by 7 inches or large.
5	2. A geogrid product data sheet and certification from the Manufacturer that the
6	geogrid product supplied meets the requirements of Section 2.10.2 of these
7	Special Provisions.
8	The Manufacturer's installation instructions and general recommendations.
9	
10	2-10.3(2) Quality Assurance
11	Pre-Construction Conference – Prior to the installation of the geogrid, the Contractor shall
12	arrange a meeting at the site with the geogrid material supplier and, where applicable,
13	the geogrid installer. The Owner and the Engineer shall be notified at least 3 days in
14	advance of the time of the meeting. A representative of the geogrid supplier shall be
15	available on an "as needed" basis during construction.
16 17	2 10 2/2) Delivery Storage and Handling
18	2-10.3(3) Delivery, Storage, and Handling For Storage and Protection, the Contractor shall:
19	Tor Storage and Protection, the Contractor shall.
20	1. Prevent excessive mud, wet concrete, epoxy, or other deleterious materials from
21	coming in contact with and affixing to the geogrid materials.
22	2. Store the geogrid materials at temperatures above -20 degrees F (-29 degrees
23	C).
24	3. Rolled geogrid materials may be laid flat or stood on end.
25	4. Geogrid materials should not be left directly exposed to sunlight for a period
26	longer than the period recommended by the manufacturer.
27	
28	The Contractor shall check the geogrid upon delivery to verify that the proper material
29	has been received. The geogrid shall be inspected by the Contractor to be free of flaws
30	or damage occurring during manufacturing, shipping, or handling.
31	
32	2-10.3(4) Installation
33	The geogrid shall be laid at the proper elevation and alignment as shown in the Plans.
34	The meaning shall be installed in a second and with the installation solidalizes may ideal by
35 36	The geogrid shall be installed in accordance with the installation guidelines provided by the manufacturer or as directed by the Engineer.
37	the manufacturer of as directed by the Engineer.
38	The geogrid may be temporarily secured in place with ties, staples, pins, sand bags or
39	backfill as required by fill properties, fill placement procedures or weather conditions or
40	as directed by the Engineer.
41	ad anotica by the Engineer.
42	2-10.3(5) Granular Fill Placement over Geogrid
43	Granular fill material shall be placed in lifts and compacted as directed under Section 2-
44	09 of the Standard Specifications. Granular fill material shall be placed, spread, and
45	compacted in such a manner that minimizes the development of wrinkles in the geogrid
46	and/or movement of the geogrid.
47	
48	A minimum loose fill thickness of 6 inches is required prior to operation of tracked vehicles
49	over the geogrid. Turning of tracked vehicles should be kept to a minimum to prevent
50	tracks from displacing the fill and damaging the geogrid. When underlying substrate is
51	trafficable with minimal rutting, rubber-tired equipment may pass over the geogrid

reinforcement at slow speeds (less than 5 mph). Sudden braking and sharp turning
 movements shall be avoided.

- 2-10.3(6) Inspection
- The Owner or Owner's representative may randomly inspect the geogrid before, during and after (using test pits) installation.
- 8 Any damaged or defective geogrid (i.e. frayed coating, separated junctions, separated 9 layers, tears, etc.) will be repaired/replaced in accordance with Section 3.06 of the 10 Standard Specifications.
- 11 12

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- 2-10.3(7) Repair
- Any roll of geogrid damaged before, during and after installation shall be replaced by the
 Contractor at no additional cost to the Owner.
- 15 16

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- Proper replacement shall consist of replacing the affected area adding 3 feet (1 meter) of geogrid beyond the limits of the affected area.
 - 2-10.3(8) Protection

Follow the Manufacturer's recommendations regarding protection from exposure to sunlight.

21 22

23 2-10.4 Measurement

Triaxial geogrid reinforcement for subgrade will be measured by the square yard of area completed in place.

26

27 2-10.5 Payment

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

30 31

- "Triaxial Geogrid Reinforcement for Subgrade", per square yard.
- The unit Contract price per square foot for "Triaxial Geogrid Reinforcement for Subgrade" shall be full pay for all Work to complete the installation, including labor, materials, equipment, storage, and protection.
- 35 36
- 36 37

38

END OF DIVISION 2

1		Division 4 Bases
2 3		Dases
4	4-04	Ballast and Crushed Surfacing
5 6 7	4-04.3	Construction Requirements
8 9 10		Shaping and Compaction sentence of Section 4-04.3(5) is revised to read:
11 12 13 14 15 16	crus meti sect	ediately following spreading and final shaping, each layer of permeable ballast and hed surfacing used for pavement base layers shall be compacted using <u>static rolling</u> nod to at least 95 percent of maximum density determined by the requirement of ion 2-03.3(14)D before the next succeeding layer of ballast, surfacing, or pavement aced.
17 18 19	4-04.4 Section 4	Measurement I-04.4 is supplement with the following:
20 21 22 23 24	to be for t	shed surfacing base course will be measured by the ton of imported crushed surfacing a used as preload fill material in Stage 1. Base course to be used as permanent fill ne roadway following Stage 1 located in the preload area shall remain in place and ompacted in accordance with Section 2-03.
25 26 27	4-04.5 Section 4	Payment I-04.5 is supplement with the following:
27 28 29 30 31 32	Stoc	unit Contract price per cubic yard for "Crushed Surfacing Base Course from kpile" shall be full pay for all Work to complete the moving, placing, spreading, ring, and compaction.
33 34		END OF DIVISION 4

1 2 3 4	Division 5 Surface Treatments and Pavements			
	5-04 Hot Mix Asphalt			
5 6	Delete Section 5-04, Hot Mix Asphalt, and r	eplace it with the following:		
7	5-04.1 Description			
8 9		placing one or more layers of plant-mixed undation or base in accordance with these		
10	Specifications and the lines, grades, this	cknesses, and typical cross-sections shown		
11 12	in the Plans. The manufacture of HMA n	nay include warm mix asphalt (WMA) ecifications. WMA processes include organic		
13	additives, chemical additives, and foami			
14				
15 16 17 18	HMA shall be composed of asphalt binder and mineral materials as may be required, mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.			
19	5-04.2 Materials			
20	Materials shall meet the requirements of	_		
21	Asphalt Binder	9-02.1(4)		
22	Cationic Emulsified Asphalt	9-02.1(6)		
23	Anti-Stripping Additive	9-02.4		
24	HMA Additive	9-02.5		
25	Aggregates	9-03.8		
26	Recycled Asphalt Pavement (RAP)			
27	Reclaimed Asphalt Shingles (RAS)			
28	Mineral Filler	9-03.8(5)		
29	Recycled Material	9-03.21		
30 31	The Contract desumants may establish	that the verieus mineral meterials required		
32		that the various mineral materials required shed in whole or in part by the Contracting		
33		sh the furnishing of any of these mineral		
34	materials by the Contracting Agency, the Contractor shall be required to furnish such			
35 36	coarse and fine aggregates, and minera	e designated mix. Mineral materials include		
37	coarse and line aggregates, and minera	i iner.		
38	The Contractor may choose to utilize re-	cycled asphalt payement (RAP) in the		
39		om pavements removed under the Contract,		
40	if any, or pavement material from an exi			
41				
42	The Contractor may use up to 20 percent			
43	additional sampling or testing of the RA	Ρ.		
44				
45 46	If the Contractor wishes to utilize High F the WSDOT Qualified Products List (QF	RAP/Any RAS, the design must be listed on PL).		
	CITY OF STANIMOOD			

1			
2 3	The grade of asphalt binder shall be as required by the Contract. Blending of asphalt binder from different sources is not permitted.		
4			
5	The Contractor may only use warm mix asphalt (WMA) processes in the production		
6 7	of HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to the Engineer for approval the process that is proposed and how it will be		
8	used in the manufacture of HMA.		
9			
10 11	Production of aggregates shall comply with the requirements of Section 3-01. Preparation of stockpile site, the stockpiling of aggregates, and the removal of		
12	aggregates from stockpiles shall comply with the requirements of Section 3-02.		
13			
14 15	5-04.2(1) How to Get an HMA Mix Design on the QPL If the Contractor wishes to submit a mix design for inclusion in the Qualified Products		
16	List (QPL), please follow the WSDOT process outlined in Standard Specification 5-		
17 18	04.2(1).		
19	5-04.2(1)A Vacant		
20	E 04 2(2) Min Designs - Obtaining Designt Assessed		
21 22	5-04.2(2) Mix Design - Obtaining Project Approval No paving shall begin prior to the approval of the mix design by the Engineer.		
23	the paying shall begin phot to the approval of the think design by the Engineer.		
24	Nonstatistical evaluation will be used for all HMA not designated as Commercial		
25	HMA in the Contract documents.		
26 27	Commercial evaluation will be used for Commercial HMA and for other classes of		
28	HMA in the following applications: sidewalks, road approaches, ditches, slopes,		
29	paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other		
30 31	nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by		
32	commercial evaluation will be at the option of the Project Engineer. The Proposal		
33 34	quantity of HMA that is accepted by commercial evaluation will be excluded from the quantities used in the determination of nonstatistical evaluation.		
35			
36 37	Nonstatistical Mix Design. Fifteen days prior to the first day of paving the Contractor shall provide one of the following mix design verification certifications for		
38	Contracting Agency review;		
39			
40 41	 The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below. 		
42	 The proposed HMA mix design on WSDOT Form 350-042 with the seal and 		
43 44	certification (stamp & signature) of a valid licensed Washington State Professional Engineer.		
45	 The Mix Design Report for the proposed HMA mix design developed by a 		
46 47	qualified City or County laboratory that is within one year of the approval date.		

1			
2	The mix design shall be performed by a lab accredited by a national authority such		
3	as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The		
4	Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO		
5	Accreditation Program (AAP) and shall supply evidence of participation in the		
6	AASHTO: resource proficiency sample program.		
7	, , , , , , ,		
8	Mix designs for HMA accepted by Nonstatistical evaluation shall:		
9	nix designe for this (desepted by frenetalelied evaluation shall.		
10	 Have the aggregate structure and asphalt binder content determined in 		
11	accordance with WSDOT Standard Operating Procedure 732 and meet the		
12	requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and		
13	stripping are at the discretion of the Engineer, and 9-03.8(6).		
14	 Have anti-strip requirements, if any, for the proposed mix design determined 		
15	in accordance with AASHTO T 283 or T 324 or based on historic anti-strip		
16	and aggregate source compatibility from previous WSDOT lab testing.		
17	55 5 I I I I		
18	At the discretion of the Engineer, agencies may accept verified mix designs older		
19	than 12 months from the original verification date with a certification from the		
20	Contractor that the materials and sources are the same as those shown on the		
21	original mix design.		
22			
23	Commercial Evaluation Mix Design. Approval of a mix design for "Commercial		
23	Evaluation" will be based on a review of the Contractor's submittal of WSDOT Form		
25	350-042 (for commercial mixes, AASHTO T 324 evaluation is not required) or a Mix		
26	Design from the current WSDOT QPL or from one of the processes allowed by this		
27	section. Testing of the HMA by the Contracting Agency for mix design approval is not		
28	required.		
29	Toquilou.		
30	For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and		
31	design level of ESALs appropriate for the required use.		
32	design level of LOALS appropriate for the required use.		
33	5-04.2(2)B Using Warm Mix Asphalt Processes		
Company and			
34	The Contractor may elect to use additives that reduce the optimum mixing		
35	temperature or serve as a compaction aid for producing HMA. Additives include		
36	organic additives, chemical additives and foaming processes. The use of Additives is		
37	subject to the following:		
38			
39	 Do not use additives that reduce the mixing temperature more than allowed in 		
40	Section 5-04.3(6) in the production of mixtures.		
41	 Before using additives, obtain the Engineer's approval using WSDOT Form 		
42	350-076 to describe the proposed additive and process.		
43			
44	5-04.3 Construction Requirements		
	v-v-t.v vonatiuction Requirementa		
45			
46	5-04.3(1) Weather Limitations		

Do not place HMA for wearing course on any Traveled Way beginning October 1st
 through March 31st of the following year without written concurrence from the
 Engineer.

4 5

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified below, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

7 8 9

6

Minimum	Surfaco	Temperature	for Paving
Withingth	Suilace	remperature	IOI Faviliy

Compacted Thickness (Feet)	Wearing Course	Other Courses	
Less than 0.10	55°F	45°F	
0.10 to .20	45°F	35°F	
More than 0.20	35°F	35°F	

10

11 5-04.3(2) Paving Under Traffic

When the Roadway being paved is open to traffic, the requirements of this Sectionshall apply.

14

The Contractor shall keep intersections open to traffic at all times except when paving the intersection or paving across the intersection. During such time, and provided that there has been an advance warning to the public, the intersection may be closed for the minimum time required to place and compact the mixture. In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

22

25

Before closing an intersection, advance warning signs shall be placed, and signs
 shall also be placed marking the detour or alternate route.

26 During paving operations, temporary pavement markings shall be maintained 27 throughout the project. Temporary pavement markings shall be installed on the 28 Roadway prior to opening to traffic. Temporary pavement markings shall be in 29 accordance with Section 8-23.

30

All costs in connection with performing the Work in accordance with these
 requirements, except the cost of temporary pavement markings, shall be included in
 the unit Contract prices for the various Bid items involved in the Contract.

- 34
- 35 5-04.3(3) Equipment
- 36
- 37 5-04.3(3)A Mixing Plant

1 2	Plants	used for	the preparation of HMA shall conform to the following requirements:	
3 4 5 6 7 8 9 10 11	1.	asphalt I temperator or other tank. The ensure p for the p	ent for Preparation of Asphalt Binder – Tanks for the storage of binder shall be equipped to heat and hold the material at the required tures. The heating shall be accomplished by steam coils, electricity, approved means so that no flame shall be in contact with the storage e circulating system for the asphalt binder shall be designed to proper and continuous circulation during the operating period. A valve urpose of sampling the asphalt binder shall be placed in either the tank or in the supply line to the mixer.	
12 13 14 15 16 17 18 19 20 21	2.	temperat binder fe thermom The plan mercury thermom automat	metric Equipment – An armored thermometer, capable of detecting ture ranges expected in the HMA mix, shall be fixed in the asphalt end line at a location near the charging valve at the mixer unit. The neter location shall be convenient and safe for access by Inspectors. It shall also be equipped with an approved dial-scale thermometer, a actuated thermometer, an electric pyrometer, or another approved netric instrument placed at the discharge chute of the drier to ically register or indicate the temperature of the heated aggregates. ice shall be in full view of the plant operator.	
22 23 24 25 26 27 28 29 30 31 32	3.	exceed t shall it b binder in manner provide a average when a v asphalt b	of Asphalt Binder – The temperature of the asphalt binder shall not the maximum recommended by the asphalt binder manufacturer nor e below the minimum temperature required to maintain the asphalt a homogeneous state. The asphalt binder shall be heated in a that will avoid local variations in heating. The heating method shall a continuous supply of asphalt binder to the mixer at a uniform temperature with no individual variations exceeding 25°F. Also, VMA additive is included in the asphalt binder, the temperature of the binder shall not exceed the maximum recommended by the sturer of the VMA additive.	
33 34 35 36 37 38 39	4.	. Sampling and Testing of Mineral Materials – The HMA plant shall be equipped with a mechanical sampler for the sampling of the mineral materials. The mechanical sampler shall meet the requirements of Section 1- 05.6 for the crushing and screening operation. The Contractor shall provide for the setup and operation of the field-testing facilities of the Contracting Agency as provided for in Section 3-01.2(2).		
40 41 42	5.	10000	ng HMA – The HMA plant shall provide for sampling HMA by one of wing methods:	
43		а.	A mechanical sampling device attached to the HMA plant.	
44 45 46 47		b.	Platforms or devices to enable sampling from the hauling vehicle without entering the hauling vehicle.	

1 5-04.3(3)B Hauling Equipment

Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall
have a cover of canvas or other suitable material of sufficient size to protect the
mixture from adverse weather. Whenever the weather conditions during the work
shift include, or are forecast to include precipitation or an air temperature less than
45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be
securely attached to protect the HMA.

8

9 The Contractor shall provide an environmentally benign means to prevent the HMA 10 mixture from adhering to the hauling equipment. Excess release agent shall be 11 drained prior to filling hauling equipment with HMA. Petroleum derivatives or other 12 coating material that contaminate or alter the characteristics of the HMA shall not be 13 used. For live bed trucks, the conveyer shall be in operation during the process of 14 applying the release agent.

16 5-04.3(3)C Pavers

HMA pavers shall be self-contained, power-propelled units, provided with
an internally heated vibratory screed and shall be capable of spreading and finishing
courses of HMA plant mix material in lane widths required by the paving section
shown in the Plans.

21 22

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15

The HMA paver shall be in good condition and shall have the most current equipment available from the manufacturer for the prevention of segregation of the HMA mixture installed, in good condition, and in working order. The equipment certification shall list the make, model, and year of the paver and any equipment that has been retrofitted.

26 27

28 The screed shall be operated in accordance with the manufacturer's 29 recommendations and shall effectively produce a finished surface of the required 30 evenness and texture without tearing, shoving, segregating, or gouging the mixture. 31 A copy of the manufacturer's recommendations shall be provided upon request by 32 the Contracting Agency. Extensions will be allowed provided they produce the same 33 results, including ride, density, and surface texture as obtained by the primary 34 screed. Extensions without augers and an internally heated vibratory screed shall not 35 be used in the Traveled Way.

36

37 When specified in the Contract, reference lines for vertical control will be required. 38 Lines shall be placed on both outer edges of the Traveled Way of each Roadway. 39 Horizontal control utilizing the reference line will be permitted. The grade and slope 40 for intermediate lanes shall be controlled automatically from reference lines or by 41 means of a mat referencing device and a slope control device. When the finish of the 42 grade prepared for paving is superior to the established tolerances and when, in the 43 opinion of the Engineer, further improvement to the line, grade, cross-section, and 44 smoothness can best be achieved without the use of the reference line, a mat 45 referencing device may be substituted for the reference line. Substitution of the 46 device will be subject to the continued approval of the Engineer. A joint matcher may 47 be used subject to the approval of the Engineer. The reference line may be removed 48 after the completion of the first course of HMA when approved by the Engineer.

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1 2 3	Whenever the Engineer determines that any of these methods are failing to provide the necessary vertical control, the reference lines will be reinstalled by the Contractor.		
4			
5 6 7	The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and accessories necessary for satisfactory operation of the automatic control equipment.		
8			
9	If the paving machine in use is not providing the required finish, the Engineer may		
10	suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids		
11	spilled on the pavement shall be thoroughly removed before paving proceeds.		
12			
13	5-04.3(3)D Material Transfer Device or Material Transfer Vehicle		
14 15	A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's approval, unless otherwise required by the Contract.		
16			
17	Where an MTD/V is required by the Contract, the Engineer may approve paving		
18	without an MTD/V, at the request of the Contractor. The Engineer will determine if an		
19	equitable adjustment in cost or time is due.		
20			
21	When used, the MTD/V shall mix the HMA after delivery by the hauling equipment		
22 23	and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform temperature throughout the mixture. If a windrow elevator is used,		
24	the length of the windrow may be limited in urban areas or through intersections, at		
25	the discretion of the Engineer.		
26	·		
27	To be approved for use, an MTV:		
28			
29	1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.		
30			
31	2. Shall not be connected to the bouling vehicle or never		
	Shall not be connected to the hauling vehicle or paver.		
32			
33	May accept HMA directly from the haul vehicle or pick up HMA from a windrow.		
34 35	windrow.		
36	4. Shall mix the HMA after delivery by the bayling equipment and prior to		
37	Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.		
38	placement into the paving machine.		
39	5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout		
39 40	Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.		
40			
	To be approved for use on MTD:		
42	To be approved for use, an MTD:		
43			
44	 Shall be positively connected to the paver. 		

1	
1	
2 3	May accept HMA directly from the haul vehicle or pick up HMA from a windraw.
	windrow.
4	
5	3. Shall mix the HMA after delivery by the hauling equipment and prior to
6	placement into the paving machine.
7	
8	Shall mix the HMA sufficiently to obtain a uniform temperature throughout
9	the mixture.
10	
11	5-04.3(3)E Rollers
12 13 14 15 16 17 18 19 20 21 22 23	Rollers shall be of the steel wheel or pneumatic tire type and operated only in static mode. Rollers shall also be in good condition and capable of reversing without backlash. Operation of the roller shall be in accordance with the manufacturer's recommendations. When ordered by the Engineer for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.
24	5.04.2(4) Proparation of Existing Payod Surfaces
24 25 26 27 28	5-04.3(4) Preparation of Existing Paved Surfaces When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a uniform grade and cross-section as shown on the Plans or approved by the Engineer.
29 30 31 32	Preleveling of uneven or broken surfaces over which HMA is to be placed may be accomplished by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.
33 34 35 36 37	Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to avoid bridging across preleveled areas by the compaction equipment. Equipment used for the compaction of preleveling HMA shall be approved by the Engineer.
38 39 40 41 42 43 44 45 46	Before construction of HMA on an existing paved surface, the entire surface of the pavement shall be clean. All fatty asphalt patches, grease drippings, and other objectionable matter shall be entirely removed from the existing pavement. All pavements or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. All holes and small depressions shall be filled with an appropriate class of HMA. The surface of the patched area shall be leveled and compacted thoroughly. Prior to the application of tack coat, or paving, the condition of the surface shall be approved by the Engineer.

1 A tack coat of asphalt shall be applied to all paved surfaces on which any course of 2 HMA is to be placed or abutted; except that tack coat may be omitted from clean, 3 newly paved surfaces at the discretion of the Engineer. Tack coat shall be uniformly 4 applied to cover the existing pavement with a thin film of residual asphalt free of 5 streaks and bare spots at a rate between 0.02 and 0.10 gallons per square yard of 6 retained asphalt. The rate of application shall be approved by the Engineer. A heavy 7 application of tack coat shall be applied to all joints. For Roadways open to traffic, 8 the application of tack coat shall be limited to surfaces that will be paved during the 9 same working shift. The spreading equipment shall be equipped with a thermometer 10 to indicate the temperature of the tack coat material.

11

Equipment shall not operate on tacked surfaces until the tack has broken and cured.
 If the Contractor's operation damages the tack coat it shall be repaired prior to
 placement of the HMA.

15

16 The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-17 1h emulsified asphalt may be diluted once with water at a rate not to exceed one-part 18 water to one-part emulsified asphalt. The tack coat shall have sufficient temperature 19 such that it may be applied uniformly at the specified rate of application and shall not 20 exceed the maximum temperature recommended by the emulsified 21 asphalt manufacturer.

23 5-04.3(4)A Crack Sealing

When the Proposal includes a pay item for crack sealing, seal cracks in accordancewith Section 5-03.

26 27

22

5-04.3(4)B Vacant

28 29

5-04.3(4)C Pavement Repair

30 The Contractor shall excavate pavement repair areas and shall backfill these with 31 HMA in accordance with the details shown in the Plans and as marked in the field. 32 The Contractor shall conduct the excavation operations in a manner that will protect 33 the pavement that is to remain. Pavement not designated to be removed that is 34 damaged as a result of the Contractor's operations shall be repaired by the 35 Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency. 36 The Contractor shall excavate only within one lane at a time unless approved 37 otherwise by the Engineer. The Contractor shall not excavate more area than can be 38 completely finished during the same shift, unless approved by the Engineer.

39

40 Unless otherwise shown in the Plans or determined by the Engineer, excavate to a 41 depth of 1.0 feet. The Engineer will make the final determination of the excavation 42 depth required. The minimum width of any pavement repair area shall be 40 inches 43 unless shown otherwise in the Plans. Before any excavation, the existing pavement 44 shall be sawcut or shall be removed by a pavement grinder. Excavated materials will 45 become the property of the Contractor and shall be disposed of in a Contractor-46 provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 47 9-03.21.

3

Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy application of tack coat shall be applied to all surfaces of existing pavement in the pavement repair area.

4 5 6

Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot compacted depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished with the approval of the Engineer. Each lift shall be thoroughly compacted by a mechanical tamper or a roller.

9 10

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8

11 5-04.3(5) Producing/Stockpiling Aggregates and RAP

Aggregates and RAP shall be stockpiled according to the requirements of Section 3 02. Sufficient storage space shall be provided for each size of aggregate and RAP.
 Materials shall be removed from stockpile(s) in a manner to ensure minimal
 segregation when being moved to the HMA plant for processing into the final
 mixture. Different aggregate sizes shall be kept separated until they have been
 delivered to the HMA plant.

18 19

5-04.3(5)A Vacant

20 21 **5-04.3(6)** Mixing

After the required amount of mineral materials, asphalt binder, recycling agent and anti-stripping additives have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials is ensured.

26

27 When discharged, the temperature of the HMA shall not exceed the optimum mixing 28 temperature by more than 25°F as shown on the reference mix design report or as 29 approved by the Engineer. Also, when a WMA additive is included in the 30 manufacture of HMA, the discharge temperature of the HMA shall not exceed the 31 maximum recommended by the manufacturer of the WMA additive. A maximum 32 water content of 2 percent in the mix, at discharge, will be allowed providing the 33 water causes no problems with handling, stripping, or flushing. If the water in the 34 HMA causes any of these problems, the moisture content shall be reduced as 35 directed by the Engineer.

36

37 Storing or holding of the HMA in approved storage facilities will be permitted with 38 approval of the Engineer, but in no event shall the HMA be held for more than 24 39 hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected 40 HMA shall be disposed of by the Contractor at no expense to the Contracting 41 Agency. The storage facility shall have an accessible device located at the top of the 42 cone or about the third point. The device shall indicate the amount of material in 43 storage. No HMA shall be accepted from the storage facility when the HMA in 44 storage is below the top of the cone of the storage facility, except as the storage 45 facility is being emptied at the end of the working shift.

46

6 7 8	amount of mineral materials, RAP, new asphalt binder and asphalt rejuvenator have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the			
9	mineral materials, and RAP is ensu	ured.		
10				
11		5-04.3(7) Spreading and Finishing		
12 13 14 15	The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:			
16			io mig.	
17	HMA Class 1"	0.35 feet		
18	HMA Class ¾" and HMA Class ½"			
19	wearing course	0.30 feet		
20	other courses	0.35 feet		
21	HMA Class ¾"	0.15 feet		
22				
23 24 25 26		avoidable obstacles make the use of mec impractical, the paving may be done with		
27 28 29 30 31 32	for each JMF shall be placed by se intermingling of HMA produced from HMA placed during a work shift sha	utilized to produce HMA, the material pro parate spreading and compacting equipm m more than one JMF is prohibited. Each all conform to a single JMF established fo e is a need to make an adjustment in the	nent. The strip of r the	
33	5-04.3(8) Aggregate Acceptance	Prior to Incorporation in HMA		
34 35 36 37 38	For HMA accepted by nonstatistica equivalent, uncompacted void cont	I evaluation, the aggregate properties of s ent, and fracture will be evaluated in acco esting of aggregates for HMA accepted by	ordance	
39	5-04.3(9) HMA Mixture Acceptar			
40 41	with the second s	ovided under nonstatistical, or commercial		
42				
43 44	Nonstatistical evaluation will be use Evaluation is specified.	ed for the acceptance of HMA unless Con	nmercial	
45				
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Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized

If there is evidence of the recycled asphalt pavement not breaking down during the heating and mixing of the HMA, the Contractor shall immediately suspend the use of

the RAP until changes have been approved by the Engineer. After the required

prior to entering the mixer so that a uniform and thoroughly mixed HMA is produced.

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- Commercial evaluation will be used for Commercial HMA and for other classes of
 HMA in the following applications: sidewalks, road approaches, ditches, slopes,
 paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other
 nonstructural applications of HMA accepted by commercial evaluation shall be as
 approved by the Engineer. Sampling and testing of HMA accepted by commercial
 evaluation will be at the option of the Engineer.
- 8 The mix design will be the initial JMF for the class of HMA. The Contractor may
 9 request a change in the JMF. Any adjustments to the JMF will require the approval of
 10 the Engineer and may be made in accordance with this section.
- 12 HMA Tolerances and Adjustments

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 Job Mix Formula Tolerances – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:

> For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

- 23 For Aggregates in the mixture:
 - a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", 3/4", 1/2", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 3.0%

b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.

Job Mix Formula Adjustments – An adjustment to the aggregate gradation or
 asphalt binder content of the JMF requires approval of the Engineer.
 Adjustments to the JMF will only be considered if the change produces

1 2	material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.
3	
4	a. Aggregates -2 percent for the aggregate passing the 11/2", 1", 3/4", 1/2", 3/8",
5	and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and
6	0.5 percent for the aggregate passing the No. 200 sieve. The adjusted
7	JMF shall be within the range of the control points in Section 9-03.8(6).
8	
9	b. Asphalt Binder Content – The Engineer may order or approve changes
10 11	to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent.
12	This design for the asphalt binder content shall be 0.0 percent.
13	5-04.3(9)A Vacant
14	5-04.5(5)A Vacant
14	E 04 2(P)P Macant
16	5-04.3(9)B Vacant
	E 04 2(0)C Mixture Acceptones Negatetistical Evaluation
17	5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation
18 19	HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the Contracting Agency by dividing the HMA tonnage into lots.
20	Contracting Agency by dividing the minA tormage into lots.
21	5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots
22	A lot is represented by randomly selected samples of the same mix design that will
22	be tested for acceptance. A lot is defined as the total quantity of material or work
24	produced for each Job Mix Formula placed. Only one lot per JMF is expected. A
25	sublot shall be equal to one day's production or 800 tons, whichever is less except
26	that the final sublot will be a minimum of 400 tons and may be increased to 1200
27	tons.
28	
29	All of the test results obtained from the acceptance samples from a given lot shall be
30 31	evaluated collectively. If the Contractor requests a change to the JMF that is approved, the material produced after the change will be evaluated on the basis of
32	the new JMF for the remaining sublots in the current lot and for acceptance of
33	subsequent lots. For a lot in progress with a CPF less than 0.75, a new lot will begin
34	at the Contractor's request after the Engineer is satisfied that material conforming to
35	the Specifications can be produced.
36	
37	Sampling and testing for evaluation shall be performed on the frequency of one
38	sample per sublot.
39	
40	5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling
41	Samples for acceptance testing shall be obtained by the Contractor when ordered by
42 43	the Engineer. The Contractor shall sample the HMA mixture in the presence of the
43 44	Engineer and in accordance with AASH-TO T 168. A minimum of three samples should be taken for each class of HMA placed on a project. If used in a structural
45	application, at least one of the three samples shall be tested.
46	

1 2	Sampling and testing HMA in a structural application where quantities are less than 400 tons is at the discretion of the Engineer.			
3				
4	For HMA used in a structural application and with a total project quantity less than			
5	800 tons but more than 400 tons, a minimum of one acceptance test shall be			
6 7	performed. In all cases, a minimum of 3 samples will be obtained at the point of			
8	acceptance, a minimum of one of the three samples will be tested for conformance to the JMF:			
9				
10	. If the test year, the are formal to be within an efficient any increase to calditional			
10	 If the test results are found to be within specification requirements, additional testing will be at the Engineer's discretion. 			
12	testing will be at the Engineer's discretion.			
13 14	 If test results are found not to be within specification requirements, additional testing of the remaining complex to determine a CDE shall be performed. 			
	testing of the remaining samples to determine a CPF shall be performed.			
15				
16	5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing			
17	Testing of HMA for compliance of V _a will at the option of the Contracting Agency. If			
18	tested, compliance of V _a will use WSDOT SOP 731.			
19				
20 21	Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308.			
22				
23	Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.			
24				
25	5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors			
26	For each lot of material falling outside the tolerance limits in 5-04.3(9), the			
27	Contracting Agency will determine a CPF using the following price adjustment			
28	factors:			
29				
	Table of Price Adjustment Factors			

Table of Price Adjustment Factors	
Constituent	Factor "f"
All aggregate passing: $1\frac{1}{2}$, 1 , $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{6}$ and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (Va) (where applicable)	20

31 Each lot of HMA produced under Nonstatistical Evaluation and having all

32 constituents falling within the tolerance limits of the job mix formula shall be accepted

33 at the unit Contract price with no further evaluation. When one or more constituents

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fall outside the nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the Roadway shall be tested to provide a minimum of three sets of results for evaluation.

6 7

5-04.3(9)C5 Vacant

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10 5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments

For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The total job mix compliance price adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

17

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18 If a constituent is not measured in accordance with these Specifications, its individual
 19 pay factor will be considered 1.00 in calculating the CPF.

21 5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests

22 The Contractor may request a sublot be retested. To request a retest, the Contractor 23 shall submit a written request within 7 calendar days after the specific test results 24 have been received. A split of the original acceptance sample will be retested. The 25 split of the sample will not be tested with the same tester that ran the original 26 acceptance test. The sample will be tested for a complete gradation analysis, asphalt 27 binder content, and, at the option of the agency, Va. The results of the retest will be 28 used for the acceptance of the HMA in place of the original sublot sample test 29 results. The cost of testing will be deducted from any monies due or that may come 30 due the Contractor under the Contract at the rate of \$500 per sample.

31

32 5-04.3 (9)D Mixture Acceptance – Commercial Evaluation

33 If sampled and tested, HMA produced under Commercial Evaluation and having all 34 constituents falling within the tolerance limits of the job mix formula shall be accepted 35 at the unit Contract price with no further evaluation. When one or more constituents 36 fall outside the commercial tolerance limits in the Job Mix Formula shown in 5-37 04.3(9), the lot shall be evaluated in accordance with Section 1-06.2 to determine the 38 appropriate CPF. The commercial tolerance limits will be used in the calculation of 39 the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, 40 backup samples of the existing sublots or samples from the street shall be tested to 41 provide a minimum of three sets of results for evaluation.

42

For each lot of HMA mix produced and tested under Commercial Evaluation when
 the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be
 determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied
 by 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the

product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract
 price per ton of mix.

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If a constituent is not measured in accordance with these Specifications, its individual pay factor will be considered 1.00 in calculating the CPF.

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5-04.3(10) HMA Compaction Acceptance

8 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, 9 including lanes for intersections, ramps, truck climbing, weaving, and speed change, 10 and having a specified compacted course thickness greater than 0.10-foot, shall be compacted to a specified level of relative density. The specified level of relative 11 12 density shall be a CPF of not less than 0.75 when evaluated in accordance with 13 Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum 14 density). The maximum density shall be determined by WSDOT FOP for AASHTO T 15 729. The specified level of density attained will be determined by the evaluation of 16 the density of the pavement. The density of the pavement shall be determined in 17 accordance with WSDOT FOP for WAQTC TM 8, except that gauge correlation will 18 be at the discretion of the Engineer, when using the nuclear density gauge and 19 WSDOT SOP 736 when using cores to determine density.

20

24

Tests for the determination of the pavement density will be taken in accordance with the required procedures for measurement by a nuclear density gauge or Roadway cores after completion of the finish rolling.

If the Contracting Agency uses a nuclear density gauge to determine density the test
 procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day
 the mix is placed and prior to opening to traffic.

28

Roadway cores for density may be obtained by either the Contracting Agency or the
 Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4 inches minimum, unless otherwise approved by the Engineer. Roadway cores will be
 tested by the Contracting Agency in accordance with WSDOT FOP for AASHTO T
 166.

If the Contract includes the Bid item "Roadway Core", the cores shall be obtained by
 the Contractor in the presence of the Engineer on the same day the mix is placed
 and at locations designated by the Engineer. If the Contract does not include the Bid
 item "Roadway Core", the Contracting Agency will obtain the cores.

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For a lot in progress with a CPF less than 0.75, a new lot will begin at the
 Contractor's request after the Engineer is satisfied that material conforming to the
 Specifications can be produced.

43

HMA mixture accepted by commercial evaluation and HMA constructed under
 conditions other than those listed above shall be compacted on the basis of a test

46 point evaluation of the compaction train. The test point evaluation shall be performed

47 in accordance with instructions from the Engineer. The number of passes with an

approved compaction train, required to attain the maximum test point density, shall
 be used on all subsequent paving.

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HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling wheel rutting shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

8 Test Results

For a sublot that has been tested with a nuclear density gauge that did not meet the
minimum of 92 percent of the reference maximum density in a compaction lot with a
CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor
may request that a core be used for determination of the relative density of the
sublot. The relative density of the core will replace the relative density determined by
the nuclear density gauge for the sublot and will be used for calculation of the CPF
and acceptance of HMA compaction lot.

16

17 When cores are taken by the Contracting Agency at the request of the Contractor, 18 they shall be requested by noon of the next workday after the test results for the 19 sublot have been provided or made available to the Contractor. Core locations shall 20 be outside of wheel paths and as determined by the Engineer. Traffic control shall be 21 provided by the Contractor as requested by the Engineer. Failure by the Contractor 22 to provide the requested traffic control will result in forfeiture of the request for cores. 23 When the CPF for the lot based on the results of the HMA cores is less than 1.00, 24 the cost for the coring will be deducted from any monies due or that may become 25 due the Contractor under the Contract at the rate of \$200 per core and the 26 Contractor shall pay for the cost of the traffic control.

27 28

5-04.3(10)A HMA Compaction – General Compaction Requirements

29 Compaction shall take place when the mixture is in the proper condition so that no 30 undue displacement, cracking, or shoving occurs. Areas inaccessible to large 31 compaction equipment shall be compacted by other mechanical means. Any HMA 32 that becomes loose, broken, contaminated, shows an excess or deficiency of 33 asphalt, or is in any way defective, shall be removed and replaced with new hot mix 34 that shall be immediately compacted to conform to the surrounding area.

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The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option, provided the specified densities are attained. Unless the Engineer has approved otherwise, rollers shall only be operated in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall not be operated in a mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

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44 5-04.3(10)B HMA Compaction - Cyclic Density

45 Low cyclic density areas are defined as spots or streaks in the pavement that are

- 46 less than 90 percent of the theoretical maximum density. At the Engineer's
- 47 discretion, the Engineer may evaluate the HMA pavement for low cyclic density, and

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1 2	when doing so will follow WSDOT SOP 733. A \$500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two or more density readings below 90
3 4	percent of the theoretical maximum density.
5	5-04.3(10)C Vacant
6	5-54.5(10)0 Vacant
7	5-04.3(10)D HMA Nonstatistical Compaction
8	5-04.5(10)D HMA Nonstatistical Compaction
9	E 04 2(40)D4 HMA Negetatistical Compaction I at and Sublate
	5-04.3(10)D1 HMA Nonstatistical Compaction - Lots and Sublots
10 11	HMA compaction which is accepted by nonstatistical evaluation will be based on acceptance testing performed by the Contracting Agency dividing the project into
12	compaction lots.
13	
14 15 16 17 18 19 20	A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or 400 tons, whichever is less except that the final sublot will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests per sublot per WSDOT T 738.
21 22 23 24 25	The sublot locations within each density lot will be determined by the Engineer. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.
26 27 28 29 30 31 32	HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.
33 34 35 36	HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.
37	5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing
38	The location of the HMA compaction acceptance tests will be randomly selected by
39	the Engineer from within each sublot, with one test per sublot.
40	
41	5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments
42	For each compaction lot with one or two sublots, having all sublots attain a relative
43	density that is 92 percent of the reference maximum density the HMA shall be
44	accepted at the unit Contract price with no further evaluation. When a sublot does
45	not attain a relative density that is 92 percent of the reference maximum density, the
46	lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate
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- CPF. The maximum CPF shall be 1.00, however, lots with a calculated CPF in
 excess of 1.00 will be used to offset lots with CPF values below 1.00 but greater than
 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11).
 Additional testing by either a nuclear moisture-density gauge or cores will be
 completed as required to provide a minimum of three tests for evaluation.
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For compaction below the required 92%, a Non-Conforming Compaction Factor (NCCF) will be determined. The NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of CPF, the quantity of HMA in the compaction control lot in tons, and the unit Contract price per ton of mix.

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13 5-04.3(11) Reject Work

15 5-04.3(11)A Reject Work General

Work that is defective or does not conform to Contract requirements shall be rejected. The Contractor may propose, in writing, alternatives to removal and replacement of rejected material. Acceptability of such alternative proposals will be determined at the sole discretion of the Engineer. HMA that has been rejected is subject to the requirements in Section 1-06.2(2) and this specification, and the Contractor shall submit a corrective action proposal to the Engineer for approval.

22 23

5-04.3(11)B Rejection by Contractor

The Contractor may, prior to sampling, elect to remove any defective material and replace it with new material. Any such new material will be sampled, tested, and evaluated for acceptance.

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28 5-04.3(11)C Rejection Without Testing (Mixture or Compaction)

The Engineer may, without sampling, reject any batch, load, or section of Roadway
 that appears defective. Material rejected before placement shall not be incorporated
 into the pavement. Any rejected section of Roadway shall be removed.

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33 No payment will be made for the rejected materials or the removal of the materials 34 unless the Contractor requests that the rejected material be tested. If the Contractor 35 elects to have the rejected material tested, a minimum of three representative 36 samples will be obtained and tested. Acceptance of rejected material will be based 37 on conformance with the nonstatistical acceptance Specification. If the CPF for the 38 rejected material is less than 0.75, no payment will be made for the rejected material; 39 in addition, the cost of sampling and testing shall be borne by the Contractor. If the 40 CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne 41 by the Contracting Agency. If the material is rejected before placement and the CPF 42 is greater than or equal to 0.75, compensation for the rejected material will be at a 43 CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal 44 to 0.75, compensation for the rejected material will be at the calculated CPF with an 45 addition of 25 percent of the unit Contract price added for the cost of removal and 46 disposal.

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1 2 3 4 5 6 7 8	5-04.3(11)D Rejection - A Partial Sublot In addition to the random acceptance sampling and testing, the Engineer may also isolate from a normal sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. A minimum of three random samples of the suspect material will be obtained and tested. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).				
9	5-04.3(11)E Rejection - An Entire Sublot				
10 11 12 13 14	An entire sublot that is suspected of being defective may be rejected. When a sublot is rejected a minimum of two additional random samples from this sublot will be obtained. These additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).				
15	5-04.3(11)F Rejection - A Lot in Progress				
16 17 18 19	The Contractor shall shut down operations and shall not resume HMA placement until such time as the Engineer is satisfied that material conforming to the Specifications can be produced:				
20 21	 When the CPF of a lot in progress drops below 1.00 and the Contractor is taking no corrective action, or 				
22 23	 When the Pay Factor (PF) for any constituent of a lot in progress drops below 0.95 and the Contractor is taking no corrective action, or 				
24 25 26	 When either the PF for any constituent or the CPF of a lot in progress is less than 0.75. 				
27	5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)				
28	An entire lot with a CPF of less than 0.75 will be rejected.				
29					
30	5-04.3(12) Joints				
31					
32	5-04.3(12)A HMA Joints				
33					
34	5-04.3(12)A1 Transverse Joints				
35 36 37 38 39 40 41 42	The Contractor shall conduct operations such that the placing of the top or wearing course is a continuous operation or as close to continuous as possible. Unscheduled transverse joints will be allowed, and the roller may pass over the unprotected end of the freshly laid mixture only when the placement of the course must be discontinued for such a length of time that the mixture will cool below compaction temperature. When the Work is resumed, the previously compacted mixture shall be cut back to produce a slightly beveled edge for the full thickness of the course.				
43 44 45	A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a transverse joint as a result of paving or planing is open to traffic. The HMA in the temporary wedge shall be separated from the permanent HMA by strips of heavy				

- wrapping paper or other methods approved by the Engineer. The wrapping paper
 shall be removed and the joint trimmed to a slightly beveled edge for the full
 thickness of the course prior to resumption of paving.
- 4 5

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The material that is cut away shall be wasted and new mix shall be laid against the cut. Rollers or tamping irons shall be used to seal the joint.

8 5-04.3(12)A2 Longitudinal Joints

9 The longitudinal joint in any one course shall be offset from the course immediately 10 below by not more than 6 inches nor less than 2 inches. All longitudinal joints 11 constructed in the wearing course shall be located at a lane line or an edge line of 12 the Traveled Way. A notched wedge joint shall be constructed along all longitudinal 13 joints in the wearing surface of new HMA unless otherwise approved by the 14 Engineer. The notched wedge joint shall have a vertical edge of not less than the 15 maximum aggregate size or more than 1/2 of the compacted lift thickness and then 16 taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA 17 notched wedge joint shall be uniformly compacted.

19 5-04.3(12)B Bridge Paving Joint Seals

20 Bridge Paving Joint Seals shall be in accordance with Section 5-03.

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22 5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than 1/4 inch in 10 feet from the rate of transverse slope shown in the Plans.

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When deviations in excess of the above tolerances are found that result from a high
 place in the HMA, the pavement surface shall be corrected by one of the
 following methods:

- Removal of material from high places by grinding with an approved grinding machine, or
- 2. Removal and replacement of the wearing course of HMA, or
- 3. By other method approved by the Engineer.

41 Correction of defects shall be carried out until there are no deviations anywhere 42 greater than the allowable tolerances.

43

44 Deviations in excess of the above tolerances that result from a low place in the HMA 45 and deviations resulting from a high place where corrective action, in the opinion of

1 the Engineer, will not produce satisfactory results will be accepted with a price 2 adjustment. The Engineer shall deduct from monies due or that may become due to 3 the Contractor the sum of \$500.00 for each and every section of single traffic 4 lane 100 feet in length in which any excessive deviations described above are found. 5 6 When utility appurtenances such as manhole covers and valve boxes are located in 7 the traveled way, the utility appurtenances shall be adjusted to the finished grade 8 prior to paving. This requirement may be waived when requested by the Contractor, 9 at the discretion of the Engineer or when the adjustment details provided in the 10 project plan or specifications call for utility appurtenance adjustments after the 11 completion of paving. 12 13 Utility appurtenance adjustment discussions will be included in the Pre-Paving and 14 Pre-Planing Briefing (5-04.3(14)B3). Submit a written request to waive this 15 requirement to the Engineer prior to the start of paving. 16 17 5-04.3(14) Planing Bituminous Pavement 18 The planing plan must be approved by the Engineer and a pre-planing meeting must 19 be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on 20 planing submittals. 21 22 Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove 23 24 irregularities. The finished product must be a prepared surface acceptable for 25 receiving an HMA overlay. 26 27 Use the cold milling method for planing unless otherwise specified in the Contract. 28 Do not use the planer on the final wearing course of new HMA. 29 30 Conduct planing operations in a manner that does not tear, break, burn, or otherwise 31 damage the surface which is to remain. The finished planed surface must be slightly 32 grooved or roughened and must be free from gouges, deep grooves, ridges, or other 33 imperfections. The Contractor must repair any damage to the surface by the 34 Contractor's planing equipment, using an Engineer approved method. 35 36 Repair or replace any metal castings and other surface improvements damaged by 37 planing, as determined by the Engineer. 38 39 A tapered wedge cut must be planed longitudinally along curb lines sufficient to 40 provide a minimum of 4 inches of curb reveal after placement and compaction of the 41 final wearing course. The dimensions of the wedge must be as shown on the 42 Drawings or as specified by the Engineer. 43 44 A tapered wedge cut must also be made at transitions to adjoining pavement 45 surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in

2 transition to the existing adjoining pavement. 3 4 After planing is complete, planed surfaces must be swept, cleaned, and if required by 5 the Contract, patched and preleveled. 6 7 The Engineer may direct additional depth planing. Before performing this additional 8 depth planing, the Contractor must conduct a hidden metal in pavement detection 9 survey as specified in Section 5-04.3(14)A. 10 11 5-04.3(14)A Pre-Planing Metal Detection Check 12 Before starting planing of pavements, and before any additional depth planing 13 required by the Engineer, the Contractor must conduct a physical survey of existing 14 pavement to be planed with equipment that can identify hidden metal objects. 15 16 Should such metal be identified, promptly notify the Engineer. 17 18 See Section 1-07.16(1) regarding the protection of survey monumentation that may 19 be hidden in pavement. 20 21 The Contractor is solely responsible for any damage to equipment resulting from the 22 Contractor's failure to conduct a pre-planing metal detection survey, or from the 23 Contractor's failure to notify the Engineer of any hidden metal that is detected. 24 25 5-04.3(14)B Paving and Planing Under Traffic 26 27 5-04.3(14)B1 General 28 In addition, the requirements of Section 1-07.23 and the traffic controls required in 29 Section 1-10, and unless the Contract specifies otherwise or the Engineer approves, 30 the Contractor must comply with the following: 31 32 1. Intersections: 33 34 a. Keep intersections open to traffic at all times, except when paving or 35 planing operations through an intersection requires closure. Such closure 36 must be kept to the minimum time required to place and compact the HMA 37 mixture, or plane as appropriate. For paving, schedule such closure to 38 individual lanes or portions thereof that allows the traffic volumes and 39 schedule of traffic volumes required in the approved traffic control plan. 40 Schedule work so that adjacent intersections are not impacted at the same 41 time and comply with the traffic control restrictions required by the Traffic 42 Engineer. Each individual intersection closure or partial closure must be 43 addressed in the traffic control plan, which must be submitted to and 44 accepted by the Engineer, see Section 1-10.2(2). 45

a straight line with vertical faces 2 inches or more in height, producing a smooth

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1 2 3	b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into quarters of the intersection, or half or more of an intersection with side street detours.
4 5	Be prepared to sequence the work to individual lanes or portions thereof.
6	a Should alcours of the interpretion in its antiraty he personal and pe
7	c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required
8	to place and compact the HMA mixture, plane, remove asphalt, tack coat,
9	and as needed.
10	
11	d. Any work in an intersection requires advance warning in both signage and
12	a number of Working Days advance notice as determined by the Engineer,
13	to alert traffic and emergency services of the intersection closure or partial
14	closure.
15	
16 17	e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until
18	approval has been obtained from the Engineer.
19	
20	2. Temporary centerline marking, post-paving temporary marking, temporary
21	stop bars, and maintaining temporary pavement marking must comply with
22	Section 8-23.
23	
24	3. Permanent pavement marking must comply with Section 8-22.
25	
26	5-04.3(14)B2 Submittals - Planing Plan and HMA Paving Plan
27	The Contractor must submit a separate planing plan and a separate paving plan to
28	the Engineer at least 5 Working Days in advance of each operation's activity start
29	date. These plans must show how the moving operation and traffic control are
30 31	coordinated, as they will be discussed at the pre-planing briefing and pre-paving
32	briefing. When requested by the Engineer, the Contractor must provide each operation's traffic control plan on 24 x 36 inch or larger size Shop Drawings with a
33	scale showing both the area of operation and sufficient detail of traffic beyond the
34	area of operation where detour traffic may be required. The scale on the Shop
35	Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient
36	detail is shown.
37	
38	The planing operation and the paving operation include, but are not limited to, metal
39 40	detection, removal of asphalt and temporary asphalt of any kind, tack coat and drying, staging of supply trucks, paving trains, rolling, scheduling, and as may be
41	discussed at the briefing.
42	
43	When intersections will be partially or totally blocked, provide adequately sized and
44	noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in
45	advance. The traffic control plan must show where police officers will be stationed
46	when signalization is or may be, countermanded, and show areas where flaggers are
47	proposed.

1		
2	At a m	inimum, the planing and the paving plan must include:
3 4 5 6 7 8 9 10	1.	A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's traffic control as it relates to the specific requirements of that day's planing and paving. Briefly describe the sequencing of traffic control consistent with the proposed planing and paving sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.
11 12	2.	A copy of each intersection's traffic control plan.
13 14 15 16	3.	Haul routes from supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.
17 18	4.	Names and locations of HMA supplier facilities to be used.
19 20	5.	List of all equipment to be used for paving.
21 22 23	6.	List of personnel and associated job classification assigned to each piece of paving equipment.
24 25 26 27 28 29 30 31	7.	Description (geometric or narrative) of the scheduled sequence of planing and of paving and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.
32 33	8.	Names, job titles, and contact information for field, office, and plant supervisory personnel.
34 35 36	9.	A copy of the approved Mix Designs.
37 38	10.	Tonnage of HMA to be placed each day.
39 40	11.	Approximate times and days for starting and ending daily operations.
41	5-04.3	(14)B3 Pre-Paving and Pre-Planing Briefing
42 43 44 45	operat to ensi	t 2 Working Days before the first paving operation and the first planing ion, or as scheduled by the Engineer for future paving and planing operations ure the Contractor has adequately prepared for notifying and coordinating as ed in the Contract, the Contractor must be prepared to discuss that day's

1 2 3 4 5 6 7 8 9	including and work hospital pedestria Subcont Engineen plan and	ns as they relate to other entities and to public safety and convenience, g driveway and business access, garbage truck operations, transit operations king around energized overhead wires, school and nursing home and and other accesses, other Contractors who may be operating in the area, an and bicycle traffic, and emergency services. The Contractor, and ractors that may be part of that day's operations, must meet with the r and discuss the proposed operation as it relates to the submitted planing paving plan, approved traffic control plan, and public convenience and such discussion includes, but is not limited to:
10	4	Open and for both the Device and Disviney
11 12	1.	General for both the Paving and Planing:
13	a.	The actual times of starting and ending daily operations.
14		
15 16	b.	In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.
17		
18 19 20	C.	The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, public convenience and safety, and other Contractors who may operate in the Project limits.
21		
22 23	d.	Notifications required of Contractor activities and coordinating with other entities and the public as necessary.
24		
25 26	e.	Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and paving.
27		
28 29 30	t.	Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed.
31		
32 33 34	g.	Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, streetcar rail, and castings, before planing as per Section 5-04.3(14)B2.
35		
36 37	h.	Description of how flaggers will be coordinated with the planing, paving, and related operations.
38		
39 40	i.	Description of sequencing of traffic controls for the process of rigid pavement base repairs.
41		
42	j.	Other items the Engineer deems necessary to address.
43		
44	2.	Paving – additional topics:
45		

1	a.	When to start applying tack and coordinating with paving.
2		
3	b.	Types of equipment and numbers of each type of equipment to be used. If
4 5 6		more pieces of equipment than personnel are proposed, describe the
5		sequencing of the personnel operating the types of equipment. Discuss the
6		continuance of operator personnel for each type of equipment as it relates
7		to meeting Specification requirements.
8		
9	C.	Number of JMFs to be placed, and if more than one JMF is used, how the
10		Contractor will ensure different JMFs are distinguished, how pavers and
11		how MTVs are distinguished, and how pavers and MTVs are cleaned so
12		that one JMF does not adversely influence the other JMF.
13		
14	d.	Description of contingency plans for that day's operations such as
15		equipment breakdown, rain out, and supplier shutdown of operations.
16		
17	e.	Number of sublots to be placed, sequencing of density testing, and other
18		sampling and testing.
19		
20	5-04.3(15	5) Sealing Pavement Surfaces
21	Apply a f	og seal where shown in the plans. Construct the fog seal in accordance with
22		5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior
23		ig to traffic.
24		
25	5-04.3(16	6) HMA Road Approaches
26	Construc	t HMA approaches at the locations shown in the Plans or where staked by
27	the Engir	neer, in accordance with Section 5-04.
28		
29	5-04.4 N	leasurement
30	HMA CI.	PG, HMA for CI PG, and Commercial HMA will
31		ured by the ton in accordance with Section 1-09.2, with no deduction being
32	made for	the weight of asphalt binder, mineral filler, or any other component of the
33	mixture.	If the Contractor elects to remove and replace mix as allowed by Section 5-
34	04.3(11),	the material removed will not be measured.
35		
36	Roadway	cores will be measured per each for the number of cores taken.
37		
38	Pavemer	nt repair excavation will be measured by the square yard of surface marked
39		xcavation.
40		
41	Planing h	ituminous pavement will be measured by the square yard.
42		energen werden der eine eine eine eine eine eine eine ei
43	5-04.5 P	avment
43		224 - China -
44	Proposal	will be made for each of the following Bid items that are included in the
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"HMA CI PG", per ton.
"HMA for Approach CI PG", per ton.
"HMA for Preleveling CI PG", per ton.
"HMA for Pavement Repair CI PG", per ton.
"Commercial HMA", per ton.
The unit Contract price per ton for "HMA CI PG", "HMA for Approach CI PG", "HMA for Preleveling CI PG", "HMA for Pavement Repair CI PG", and "Commercial HMA" shall be full compensation for all costs, including anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.
"Pavement Repair Excavation Incl. Haul", per square yard.
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The unit Contract price per square yard for "Pavement Repair Excavation Incl. Haul" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4) with the exception, however, that all costs involved in the placement of HMA shall be included in the unit Contract price per ton for "HMA for Pavement Repair Cl PG", per ton.
"Asphalt for Prime Coat", per ton.
The unit Contract price per ton for "Asphalt for Prime Coat" shall be full payment for all costs incurred to obtain, provide and install the material in accordance with Section 5-04.3(4).
"Prime Coat Agg.", per cubic yard, or per ton.
The unit Contract price per cubic yard or per ton for "Prime Coat Agg." shall be full pay for furnishing, loading, and hauling aggregate to the place of deposit and spreading the aggregate in the quantities required by the Engineer.
"Planing Bituminous Pavement", per square yard.
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The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(14).

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2	"Job Mix Compliance Price Adjustment", by calculation.
3	
4	"Job Mix Compliance Price Adjustment" will be calculated and paid for as
5	described in Section 5-04.3(9)C6.
6	
7	"Compaction Price Adjustment", by calculation.
8	
9	"Compaction Price Adjustment" will be calculated and paid for as described in
10	Section 5-04.3(10)D3.
11	
12	"Roadway Core", per each.
13	
14	The Contractor's costs for all Work associated with the coring (e.g., traffic
15	control) shall be incidental and included in the unit Bid price per each.
16	
17	"Cyclic Density Price Adjustment", by calculation.
18	
19	"Cyclic Density Price Adjustment" will be calculated and paid for as described in
20	Section 5-04.3(10)B.
21	
22 23	
24	END OF DIVISION 5



1 2 3	Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits
4 5 7	7-01 DRAINS
8	(****)
9	Cleanouts
10	Section 7-01 is supplemented with the following:
11 12 13 14 15	7-01.1 Description This Work consists of furnishing and installing underdrain pipe cleanouts in accordance with the Plans and these Specifications, at the locations staked or approved by the Engineer.
16 17 18 19 20 21	7-01.2 Materials Cement concrete Class 4000, in accordance with Section 6-02.3 of the Standard Specifications, shall be used for securing the locking ring and cover on cleanouts in paved areas.
22 23	Locking ring and cover for cleanouts in paved areas shall be ductile iron.
24 25 26	PVC pipe and fittings shall be in accordance with Section 9-05.12(1) of the Standard Specifications
27 28 29 30	7-01.3 Construction Requirements Underdrain pipe cleanouts shall be provided in accordance with the details shown in the Plans.
31 32 33	7-01.4 Measurement Underdrain cleanouts will be measured per each.
34 35 36 37 38 39	7-01.5 Payment "Underdrain Cleanout 6 In. Diam.", per each. The unit Contract price per each for "Underdrain Cleanout 6 In. Diam." shall be full pay for furnishing and installing the wye, pipe, pipe bends, cross fittings, gaskets, castings, cement concrete, and caps as specified herein and as shown in the Plans.
40	7-05 Manholes, Inlets, Catch Basins, and Drywells
41 42 43 44	7-05.3 Construction Requirements Section 7-05.3 is supplemented with the following:
45 46 47 48 49 50	Foundation pads for catch basins, manholes, and inlets shall be constructed as detailed in the Plans, including the stockpiled crushed surfacing base course foundation pad in accordance with Section 2-09 and 4-04 of these Special Provisions, triaxial geogrid reinforcement for subgrade in accordance with Section 2-10 of these Special Provisions, and construction geotextile for separation in accordance with Section 2-12.

Backfill material shall be in accordance with Section 2-09 of these Special Provisions.
Backini material shall be in accordance with Section 2-03 of these Special Provisions.
7-05.3(1) Adjusting Catch Basins and Manholes to Grade Section 7-05.3(1) is supplemented with the following:
All manholes and catch basins shall be adjusted to finished grade after paving operations are complete. The Contractor shall adjust the structure using concrete brick or adjustment rings, or by other necessary <u>means approved by the Engineer</u> , in accordance with Contracting Agency standards, to the satisfaction of the Engineer.
All catch basins and manholes for storm sewers shall be grouted water tight, including under frames, rims, manhole barrel, riser sections, and pipe collars.
7-05.3(5) Connections to Existing Structures Section 7-05.3(5) is added as follows:
Where shown in the Plans, the Contractor shall connect new drainage pipe to existing drainage Structures such as catch basins, manholes, and inlets; or shall connect new drainage Structures such as catch basins, manholes, and inlets to existing drainage pipe; or shall connect new drainage pipe to existing drainage pipe.
7-05.3(6) Replacement of Existing Frame and Covers Section 7-05.3(6) is added as follows:
Replace Existing Rectangular Frame and Grate with New Rectangular Frame and Solid Locking Cover Where shown in the Plans or as directed by the Engineer, the Contractor shall remove and dispose of existing rectangular frames and covers, and replace them with new rectangular frame solid locking covers in accordance with WSDOT Standard Plans B-30.10 (frames) and B-30.20 (solid metal covers).
7-05.4 Measurement The third paragraph of Section 7-05.4 is supplement with the following:
Additional adjustments of manholes, catch basins, and inlets required prior to paving work will not be measured.
Section 7-05.4 is supplemented with the following:
Measurement for backfill and foundation pad material shall be in accordance with Section 2-09 of these Special Provisions.
Replacement of existing rectangular frame and grate with new rectangular frame and solid locking cover will be measured per each replacement.
7-05.5 Payment The ninth and thirteenth paragraphs in Section 7-05.5 are deleted.

1 Section 7-05.5 is supplemented with the following:

The unit Contract price per each for catch basins, manholes, and inlets of the kind and size specified shall be full pay for all Work to complete the installation, including sawcutting as needed for structure installation, placing and compacting stockpiled CSBC backfill and foundation pads, adjustments to finish grade, flexible pipe to structure connection elements as shown in the Plans, and temporary pavement patch prior to final roadway paving.

Payment for triaxial geogrid reinforcement and construction geotextile will be made
 under the applicable items shown in the Proposal.

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All costs associated with furnishing and installing permeable ballast material within
 the drainage structure foundation, including compaction, will be made under the
 applicable item shown in the Proposal.

The unit Contract price per each for "Connection to Drainage Structure" shall be full pay for all costs necessary to connect new drainage pipe to existing drainage Structures such as catch basins, manholes, and inlets; or to connect new drainage Structures such as catch basins, manholes, and inlets to existing drainage pipe; or to connect new drainage pipe to existing drainage pipe.

"Replace Existing Frame and Grate with Solid Locking Cover", per each.
 The unit Contract price per each for "Replace Existing Frame and Grat

The unit Contract price per each for "Replace Existing Frame and Grate with Solid Locking Cover" shall be full pay for all costs necessary to remove existing frames and grates and replace them with new frames and covers, including disposal of removed materials.

29 7-08 General Pipe Installation Requirements

- 31 7-08.1 Description
 - 7-08.1(1) Definitions

Section 7-08.1(1) is added as follows:

7-08.1(1)A Unsuitable Material

Material removed because it is unsatisfactory for foundations is defined as unsuitable foundation material.

- 40 7-08.3 Construction Requirements
 - 7-08.3(3) Backfilling
- 43 Section 7-08.3(3) is supplemented with the following:

45 Backfill and bedding material within the pipe zone shall be in accordance with 46 Section 2-09 of these Special Provisions and as detailed in the Plans.

- 48 Section 7-08.3 is supplemented with the following:
- 49

1 Abandoning or Removing Existing Storm Sewer

2 Where shown in the Plans, the Contractor shall abandon, or where necessary to 3 facilitate project improvements, remove existing storm sewer. Ends of abandoned or 4 removed pipe shall be plugged in accordance with Section 7-08.3(4). Abandoning and 5 plugging existing pipe shall be incidental to Structure Excavation Class B Incl. Haul.

7-08.3(5) Utility Clearances

Section 7-08.3(5) is added as follows:

An Ethafoam® pad shall is required for installations where other utilities are closer than 12 inches to provide additional protection between the adjacent utilities. The size of the pad shall be based on the outside diameter (O.D.) of the larger crossing pipe. The pipe shall be O.D. long by O.D. wide by 3 inches thick minimum, or as required to protect the pipes. The pad shall be a strong, resilient, medium-density, closed-cell, polyethylene foam plank (Dow Ethafoam 220, or accepted equivalent).

7-08.3(6) Removal and Replacement of Unsuitable Materials

Section 7-08.3(6) is added as follows:

Whenever in excavating the trench for storm sewers, the bottom of the trench exposes peat, soft clay, quicksand, or other unsuitable foundation material, such material shall be removed to the depth directed by the Engineer and backfilled with foundation material meeting the requirements of Section 9-03.9(2).

Unsuitable material shall be loaded directly into trucks and hauled to a waste site obtained by the Contractor. Stockpiling of unsuitable material at the project site shall not be allowed.

30 7-08.4 Measurement

- 31 The second paragraph of Section 7-08.4 is deleted.
- 33 Section 7-08.4 is supplemented with the following:

Removal and replacement of unsuitable material will be measured by the cubic yard. The depth shall be the actual depth removed below the depth specified in Section 7-08.3(1)A. The width shall be the actual width removed, but in no case shall the measured width exceed the allowable widths specified in Section 2-09.4.

- 40 Measurement for backfill and bedding material within the pipe zone shall be in 41 accordance with Section 2-09 of these Special Provisions.
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43 7-08.5 Payment

- 44 Section 7-08.5 is revised as follows:
- 46 The Bid item "Plugging Existing Pipe" is deleted.
- 48 Section 7-08.5 is supplemented with the following:
- 49
- 50 "Removal and Replacement of Unsuitable Material", per cubic yard.

1 The unit Contract price per cubic yard for "Removal and Replacement of Unsuitable 2 Material" shall include all costs for removal and disposal of unsuitable material below 3 the pipe zone foundation, furnishing and installing backfill material below the pipe 4 zone foundation, and compaction. 5

All costs associated with furnishing and installing permeable ballast material within the pipe zone foundation, including compaction, will be made under the applicable item shown in the Proposal.

10 Section 7-10 is added as follows:

11 7-10 Modular Wetland

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13 7-10.1 Description

This Work consists of providing and installing a Modular Wetland stormwater biofiltration
 system in accordance with the Plans and these Specifications, in conformity with the lines
 and grades staked.

17

18 7-10.2 Materials

Each manufactured Modular Wetland shall consist of a concrete Structure constructed of concrete with a minimum 28 day compressive strength of 5,000 psi, with reinforcing per ASTM A 615 or ASTM A706, Grade 60, and supports and H20 loading as indicated by AASHTO. Each chamber shall have appropriate access hatches for easy maintenance and sized to allow removal of all internal components without disassembly. All water transfer system components shall conform with the following:

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- 1. Filter netting shall be 100% Polyester with a number 16 sieve size, and strength tested per ASTM D 3787.
- 2. Drainage cells shall be manufactured of lightweight injection-molded plastic and have a minimum compressive strength test of 6,000 psi and a void area along the surface making contact with the filter media of 75% or greater. The cells shall be at least 2" in thickness and allow water to freely flow in all four directions.
 - Pretreatment Chamber Components:
 - Filter Cartridges shall have a minimum 35 square feet of surface area per cartridge. The filter media contained in the cartridge should be solid in state (not granular) with a void percentage of equal to or greater than 80% and be composed materials listed below.

Silicon dioxide	SiO	47%
Aluminum oxide	A1203	14%
Titanium oxide	TiOZ	1%
Ferrous oxide	FeO	8%
Calcium oxide	CaO	16%
Magnesium oxide	MgO	10%
Manganese oxide	MnO	1%
Sodium oxide	NA20	2%
Potassium oxide	K2°	1%

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CITY OF STANWOOD
VIKING WAY PHASE 2
SPECIAL PROVISIONS

2. <u>Drain Down System</u> shall include a pervious floor that allows water to drain into the underdrain pipe that is connected to the discharge chamber.

Biofiltration Chamber Components:

- 1. <u>Media</u> shall consist of ceramic material produced by expanding and vitrifying select material in a rotary kiln. Media must be produced to meet the requirements of ASTM C330, ASTM C331, and AASHTO M195. Aggregates must have a minimum 24-hour water absorption of 10.5% mass. Media shall not contain any organic material. Flow through media shall be horizontal from the outer perimeter of the chamber toward the centralized and vertically extending underdrain. The retention time in the media shall be at least 3 minutes. Downward flow filters are not acceptable alternatives. The thickness of the media shall be at least 19" from influent end to effluent end. The loading rate on the media shall not exceed 1.1 gallons per minute per square foot surface area. Media must be contained within structure that spaces the surface of the media at least 2" from all vertically extending walls of the concrete structure.
- Discharge Device:
 - 1. The discharge device shall house a flow control orifice plate that restricts flows greater than designed treatment flow rate. All piping components shall be made of a high-density polyethylene.

26 7-10.3 Construction Requirements

27 28 General

The contractor shall furnish all labor, equipment, materials and incidentals required to install the Modular Wetland and appurtenances in accordance with the drawings and these specifications. The installation of the Modular Wetland shall conform to all applicable National, State, State Highway, municipal and local Specifications.

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34 Installation

35 Grading and Excavation - Site shall be properly surveyed by a registered Professional 36 Surveyor, and clearly marked with excavation limits and elevations. After site is marked it 37 is the responsibility of the Contractor to contact local utility companies and/or DigAlert to 38 check for underground utilities. All grading permits shall be approved by governing 39 agencies before commencement of grading and excavation. Soil conditions shall be tested 40 in accordance with the governing agencies requirements. All earth removed shall be 41 transported, disposed, stored, and handled per governing agencies standards. It is the 42 responsibility of the Contractor to install and maintain proper erosion control measures 43 during grading and excavation operations.

44

45 <u>Compaction</u> – All soil shall be compacted per registered professional soils Engineer's 46 recommendations prior to installation of Modular Wetland components.

47

48 <u>Backfill</u> shall be placed according to a registered professional soils Engineer's 49 recommendations, and with a minimum of 6" of stockpiled CSBC under all concrete 50 Structures.

<u>Concrete Structures</u> – After backfill has been inspected by the governing agency and
 approved the concrete Structures shall be lifted and placed in proper position per the
 Drawings.

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<u>Subsurface Flow Wetland Media</u> shall be carefully loaded into area so not to damage the
 Wetland Liner or Water Transfer Systems. The entire wetland area shall be filled to a level
 9 inches below finished surface.

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10 Shipping, Storage and Handling

Shipping – Modular Wetlands shall be shipped to the Contractor's address or job site, and is the responsibility of the Contractor to offload the unit(s) and place in the exact site of installation.

14

15 Storage and Handling – The Contractor shall exercise care in the storage and handling of 16 the Modular Wetland(s) and all components prior to and during installation. Any repair or 17 replacement costs associated with events occurring after delivery is accepted and 18 unloading has commenced shall be borne by the Contractor. The Modular Wetland(s) and 19 all components shall always be stored indoors and transported inside the original shipping 20 container until the unit(s) are ready to be installed. The Modular Wetland shall always be 21 handled with care and lifted according to OSHA and NIOSA lifting recommendations 22 and/or Contractor's workplace safety professional recommendations.

23

24 Maintenance and Inspection

25 Inspection – After installation, the Contractor shall demonstrate that the Modular Wetland 26 has been properly installed at the correct location(s), elevations, and with appropriate 27 components. All components associated with the Modular Wetland and its installation 28 shall be subject to inspection by the Engineer at the place of installation. In addition, the 29 Contractor shall demonstrate that the Modular Wetland has been installed per the 30 manufacturer's Specifications and recommendations. All components shall be inspected 31 by a qualified person once a year and results of inspection shall be kept in an inspection 32 log.

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<u>Maintenance</u> – The manufacturer recommends cleaning and debris removal maintenance
 of once a year and replacement of the Cartridge Filters as needed. The maintenance shall
 be preformed by someone qualified. A Maintenance Manual is available upon request
 from the manufacturer. The manual has detailed information regarding the maintenance
 of the Modular Wetland. A Maintenance/Inspection record shall be kept by the
 maintenance operator. The record shall include any maintenance activities preformed,
 amount and description of debris collected, and the condition of the filter.

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42 <u>Material Disposal</u> - All debris, trash, organics, and sediments captured by the Modular 43 Wetland shall be transported and disposed of at an approved facility for disposal in 44 accordance with local and State requirements. Refer to State and local regulations for the 45 proper disposal of toxic and non-toxic material.

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47 7-10.4 Measurement

48 Modular Wetland of the type and size specified will be measured per each. 49

50 7-10.5 Payment

51 Payment will be made for the following Bid item when included in the Proposal:

2 "Modular Wetland ____ Ft. x ____ Ft.", per each.

The unit Contract price per each for "Modular Wetland ____ Ft. x ____ Ft." shall be full compensation to provide and install the Modular Wetland, including installation of hatches and manhole lids and placing and compacting stockpiled CSBC backfill and foundation pad. External connecting pipes will be paid under applicable Bid items included in the Proposal.

- Payment for triaxial geogrid reinforcement and construction geotextile will be made under the applicable items shown in the Proposal.
- All costs associated with furnishing and installing permeable ballast material within the drainage structure foundation, including compaction, will be made under the applicable item shown in the Proposal.
- 16 7-12 Valves for Water Mains
- 18 7-12.1 Description
- 19 Section 7-12.1 is supplemented with the following:
 - This Work consists of adjusting existing water valve boxes at locations shown in the Plans, or as directed by the Engineer.

24 7-12.3 Construction Requirements

25 Section 7-12.3 is supplemented with the following:

- Existing water valve boxes shall be adjusted to the grade as staked or otherwise designated by the Engineer. The adjustment of the water valve box to grade by the use of riser rings is not allowed.
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Removal operations shall be conducted to prevent damage to the existing water valve
 box. Any damage due to the Contractor's operations shall be repaired or replaced at
 the Contractor's expense and to the Engineer's satisfaction.

The Contractor shall conduct water valve box adjustments so that the fully-adjusted box allows the respective valve to be fully operational. The Contractor shall make the adjustment and remove all debris from the adjusted water valve box to ensure such operational condition.

40 7-12.4 Measurement

- 41 Section 7-12.4 is supplemented with the following:
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- 43 Water valve box adjustment will be measured per each existing water valve box 44 adjusted to finished grade.
- 45
- 46 7-12.5 Payment
- 47 Section 7-12.5 is supplemented with the following:
- 48
- 49 "Adjust Water Valve Box to Grade", per each.

1	The unit Contract price per each for "Adjust Water Valve Box to Grade" shall be full
2	compensation to perform the Work as specified, including restoration of adjacent area
3	directly surrounding the water valve box.
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END OF DIVISION 7

CITY OF STANWOOD VIKING WAY PHASE 2 SPECIAL PROVISIONS

7

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1		Division 8
2		Miscellaneous Construction
2 3		
4		
5 6	8-01	Erosion Control and Water Pollution Control
7	8-01.1	Description
8		8-01.1 is supplemented with the following:
9	0000101	to off the supplemented with the following.
10	ть	is Work shall consist of proparing and implementing a Stormwater Pollution Provention
11		is Work shall consist of preparing and implementing a Stormwater Pollution Prevention an (SWPPP).
12	Fla	an (SVVFFF).
13	0 04 2	Construction Boquirements
	0-01.5	Construction Requirements
14		04 2/4) Company
15		01.3(1) General
16	Se	ction 8-01.3(1) is supplemented with the following:
17		The Contractor shall deliverate evening control resource and DMDs for increation and
18		The Contractor shall delineate erosion control measures and BMPs for inspection and
19		approval of the Engineer prior to commencement of any clearing, grubbing, and grading.
20		
21		8-01.3(1)A Submittals
22		Section 8-01.3(1)A is supplemented with the following:
23		Drive to beginning Work, the Contractor shall arrange a Otermounter Dellution
24		Prior to beginning Work, the Contractor shall prepare a Stormwater Pollution
25		Prevention Plan (SWPPP) as part of the TESC Plan, meeting the requirements of
26		the Washington State Department of Ecology's 2005 Stormwater Management
27		Manual for Western Washington Volume II – Construction Stormwater Pollution
28		Prevention, and the Department of Ecology's Construction Stormwater General
29		Permit. These documents are available here:
30		
31		Stormwater Manual:
32		http://www.ecy.wa.gov/pubs/0510030.pdf
33		
34		General Permit:
35		http://www.ecy.wa.gov/programs/wq/Stormwater/construction/resourcesguidance.
36		html
37		
38		The Contractor shall obtain the Engineer's approval of the SWPPP for
39		implementation before any Work begins. The SWPPP shall cover all areas that the
40		Contractor's Work may affect inside and outside the limits of the project, and shall
41		include all necessary measures to comply with the Construction Stormwater
42		General Permit's conditions.
43		
44		The Contractor shall include a copy of the SWPPP document and subsequent
45		SWPPP revisions made during the project in inspection documentation recorded by
46		the ESC Lead.
47		
48		8-01.3(1)F Stormwater Sampling
49		Section 8-01.3(1)F is added as follows:
50		

1	Stormwater sampling shall be performed by the Contractor or authorized
2	representative at the frequencies required in the Construction Stormwater General
3 4 5 6 7	Permit (weekly at minimum). Samples shall be analyzed for turbidity and pH in
4	accordance with the Construction Stormwater General Permit. Sampling shall be
5	conducted in accordance with the EPA 180.1 analytical method and the Washington
0	State Department of Ecology's How to do Stormwater Monitoring: A guide for
	construction sites, available online at <u>http://www.ecy.wa.gov/pubs/0610020.pdf</u> .
8 9	Samples shall be taken at the point of discharge from the site. Reports of the
	sampling results shall be recorded in the project SWPPP and shall be submitted
10 11	monthly to the Contracting Agency and the Washington State Department of
12	Ecology. The DMR forms are mailed to permittees when permit coverage is granted
13	for the project. If there are no discharges during the month, the Contractor is still
14	required to submit a form stating "no discharge". The sampling results shall be submitted via mail to:
15	submitted via mail to.
16	Department of Ecology
17	Water Quality Program - Construction Stormwater
18	PO Box 47696
19	Olympia, Washington 98504-7696
20	Olympia, Washington 90304-7090
21	Ecology must receive DMR's within 15 days after the end of each month. If the
22	permittee monitors more frequently than required by the permit, these results also
23	need to be submitted in the DMR.
24	heed to be submitted in the DMR.
25	Corrective measures shall be taken if benchmark values are exceeded.
26	
27	The key benchmark turbidity value is 25 nephelometric turbidity units (NTU) for the
28	downstream receiving water body. If the 25 NTU benchmark is exceeded in any
29	sample collected from the discharge point, the following steps will be conducted:
30	
31	a. Ensure all BMPs specified in this SWPPP are installed and functioning as
32	intended.
33	
34	b. Assess whether additional BMPs should be implemented, and document
35	modified BMPs in the SWPPP as necessary.
36	
37	c. Sample discharge daily until the discharge is 25 NTU or lower.
38	
39	If the turbidity exceeds 250 NTU at any time, the following steps will be conducted:
40	
41	 Notify Ecology by phone within 24 hours of analysis.
42	
43	b. Continue sampling daily until the discharge is 25 NTU or lower Initiate
44	additional treatment BMPs such as off-site treatment, infiltration, filtration
45	and chemical treatment within 24 hours, and implement those additional
46	treatment BMPs as soon as possible, but within a minimum of 7 days.
47	1 Dependent improved in a second second in the first second
48	1. Describe inspection results and remedial actions taken in the site log
49	book and in monthly discharge monitoring reports.
50	

1 2 3 4 5 6 7	Sampling and monitoring for pH will occur during the phase of construction when concrete pouring will be conducted until fully cured (3 weeks from pour). Samples will be collected weekly at all discharge points prior to discharge to surface water. Samples will be analyzed for pH using a calibrated pH meter and recorded in the site log book.
7 8 9 10	The key benchmark pH value for stormwater is a maximum of 8.0. If a pH greater than 8.0 is measured at a discharge point that has the potential to discharge to surface water, the following steps will be conducted:
10 11 12 13	 Assess whether additional BMPs should be implemented and whether associated revisions to the SWPPP are necessary.
14 15 16	b. Stop (detain) all discharges from leaving the site and entering surface waters or storm drains if the pH is greater than 8.5.
17 18 19	 c. Sample sedimentation pond the following day, and if the pH exceeds 8.0 for the second consecutive day, implement CO₂ sparging treatment.
20 21 22	 d. Sample and measure pH daily until there are 3 consecutive pH measurements less than 8.0.
23 24 25 26 27	e. If there are 3 consecutive pH measurements greater than 8.0, notify the Washington Department of Ecology by phone within 24 hours of the 3 rd measurement exceeding a pH of 8.0 and initiate discussions with Ecology regarding additional treatment BMPs.
27 28 29 30	f. Describe inspection results and remedial actions that are taken in the site log book and in monthly Discharge Monitoring Reports.
31 32	8-01.3(2) Temporary Seeding and Mulching
33 34 35	8-01.3(2)A Preparation for Application Section 8-01.3(2)A is supplemented with the following:
36 37 38 39 40 41 42	In erosion control seed planting areas, the Subgrade shall be scarified to a depth of six (6) inches prior to receiving Topsoil Type A. The Contractor shall notify the Engineer of possible poor draining or heavily compacted soil conditions prior to proceeding with construction. All debris, including sticks, roots, and rocks larger than one (1) inch, shall be removed and disposed of off the project site before Topsoil Type A is placed.
42 43 44 45 46 47 48	Within erosion control seed planting areas, spread a minimum four (4) inch compacted depth of Topsoil Type A and scarify to a six (6) inch depth into Subgrade. Rake to a smooth, uniform finish grade and remove all rocks and debris larger than one (1) inch. Topsoil Type A shall not be placed when ground is frozen, excessively wet, or in the opinion of the Engineer, in a condition detrimental to the Work.
49 50 51	8-01.3(2)B Temporary Seeding Section 8-01.3(2)B is supplemented with the following:

1 2 3 4 5 6 7 8		(September 3, 2019) Grass seed shall be a commercially prepared mix, made up of low growing species which will grow without irrigation at the project location, and approved by the Engineer. The application rate shall be two pounds per 1000 square feet. Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied at the rate of 10 pounds per 1000 square feet.
8 9	8-01.4	Measurement
10 11 12		1.4(2) Item Bids ction 8-01.4(2) is supplement with the following:
13 14		Temporary seeding will be measured by the square yard by ground slope measurement.
15	8-01.5	Payment
16 17 18 19		1.5(2) Item Bids ction 8-01.5(2) is supplement with the following:
20		"Temporary Seeding", per square yard.
21 22 23 24 25 26 27 28		"Erosion and Water Pollution Control", per lump sum, shall be full pay for all Work and materials necessary to develop and implement the SWPPP and achieve the runoff turbidity and pH levels compliant with the identified benchmarks and permit requirements, as approved by the Engineer. All erosion control measures are included in "Erosion and Water Pollution Control", per lump sum, except as otherwise noted in the Contract Documents.
29 30	8-02	Roadside Restoration
31 32 33		Description 8-02.1 is supplemented with the following:
34 35 36		s Work consists of furnishing and installing tree grates and frames in accordance with the ns and these Specifications at the locations staked.
37 38 39	8-02.2 Section	Materials 8-02.2 is supplement with the following:
40 41	Ro	ot Barrier 9-14.9
41 42 43	8-02.3	Construction Requirements
44 45 46		2.3(1) Responsibility During Construction ction 8-02.3(1) is supplemented with the following:
47 48 49		Landscape construction is anticipated to begin after all curbs, pathways and associated Work is completed.

The Contractor shall report to the Engineer all deviation and/or conflicts between Contract Documents and site conditions. Extra Work arising from failure to do so shall be done at the Contractor's expense.

The Contractor is responsible for protection of plant materials during unsuitable weather conditions as determined by the Engineer. Unsuitable weather conditions may include freezing weather, high winds, and heavy rains.

The Contractor is responsible for ensuring positive drainage in all landscape areas.

Landscape materials shall not be installed until weather permits and installation has been authorized by the Engineer.

8-02.3(2) Work Plans

8-02.3(2)A Roadside Work Plan

Section 8-02.3(2)A is supplemented with the following:

- Twelve weeks prior to installation of plantings, the Contractor shall submit written documentation to the Engineer that all specified plant materials have been ordered. Documentation shall include a list of suppliers' names, addresses, and phone numbers along with a list of respective growing or storage locations with addresses.
 - Plant Photographs
 - Include color photographs in digital or 3- by 5-inch print format of each required species and size of plant material as it will be furnished to the project. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each photograph. For species where more than 45 plants are required, include a minimum of three photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery.
- The Contractor shall provide all plants of the size, species, variety, and quality noted and specified. If unavailable, the Contractor shall notify the Engineer in writing immediately and provide the names and telephone numbers of five (5) nursery suppliers that have been contacted. If substitution should be permitted, it can be made only with the prior written approval of the Engineer.
- 8-02.3(4) Topsoil
- The last sentence of the first paragraph of Section 8-02.3(4) is deleted and replaced with the following:
 - After the topsoil has been spread, all large clods, hard lumps and rocks one (1) inch in diameter and larger, and litter shall be raked up, removed, and disposed of by the Contractor.
- 48 8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation
- 50 8-02.3(5)C Planting Area Preparation
 - The third paragraph of Section 8-02.3(5)C deleted and replaced with the following:

1					
2	All excess material and debris, stumps, and rocks larger than one (1) inch, shall be				
3	removed and disposed of off the project site or as approved by the Engineer prior				
4	to placement of Topsoil Type A.				
5	to placement of topsoil type A.				
6	8-02.3(6) Mulch and Amendments				
5	o-oz.s(o) muich and Amenuments				
6 7 8	0.02.2/C)D Fartilizera				
	8-02.3(6)B Fertilizers				
9 10	Section 8-02.3(6)B is supplemented with the following:				
11	(Contember 2, 2010)				
12	(September 3, 2019)				
12	Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied at				
	the rate of 10 pounds per 1000 square feet.				
14 15	8 02 2/8) Dianting				
	8-02.3(8) Planting				
16	Section 8-02.3(8) is supplemented with the following:				
17 18	Trees adjacent to Roadways shall be sited such that the lowest major branches are				
19					
20	located parallel with traffic flow. During installation, the Contractor shall notify the				
20	Engineer of any conditions that may be harmful to plant life, such as but not limited to				
22	poor drainage or hazardous materials.				
22	8-02.3(8)C Pruning, Staking, Guying, and Wrapping				
23	Section 8-02.3(8)C is supplemented with the following:				
24	Section 6-02.5(6)C is supplemented with the following.				
26	Crossed or rubbing branches shall be removed providing the natural shape of the				
27	tree is preserved. Under no circumstances shall pruning be done prior to inspection				
28	and approval of plants by the Engineer. All cuts shall be made flush with the parent				
29	stem leaving no stubs. Pruning cuts shall be made in a manner to favor the earliest				
30	possible covering of the wound by callus growth. Cuts that produce large wounds				
31	and weaken the tree will not be acceptable.				
32					
33	8-02.3(9) Seeding, Fertilizing, and Mulching				
34					
35	8-02.3(9)B Seeding and Fertilizing				
36	Section 8-02.3(9) B is supplemented with the following:				
37	3				
38	(September 3, 2019)				
39	Grass seed shall be a commercially prepared mix, made up of low growing species				
40	which will grow without irrigation at the project location, and accepted by the				
41	Engineer. The application rate shall be two pounds per 1000 square feet.				
42					
43	8-02.3(17) Property Restoration				
44	Section 8-02.3(17) is added as follows:				
45					
46	The Contractor must blend the new construction into developed private property				
47	adjacent to the project using similar materials to those existing, (e.g. seeding must be				
48	used to match into lawn areas, bark mulch must be used to match into planting areas,				
49	planting soil must be used to match into garden areas, etc.)				
50					

1	If the items used for the restoration have pay items in the Contract, they will be paid
	under those items.
2 3 4 5 6 7 8	
4	If restoration of adjacent property requires use of materials that have no pay items,
5	payment will be by force account under the item "Property Restoration."
6	
7	The Contractor must repair and restore any existing irrigation system damaged by
8	construction, as directed by Engineer.
9	······
10	The Contractor must verify, in the presence of the adjacent property owner and Engineer,
11	operation, location, and existing water pressure capabilities and continuity of the existing
12	private irrigation system prior to excavation and removal.
13	private inigation of stern prior to excavation and removal.
14	Property restoration shall consist of restoring existing landscape areas, walkways,
15	retaining and fence support walls of various types, miscellaneous construction
16	associated with adjacent private property restoration, including irrigation systems and
17	roof downspout drains and outfalls, to their original condition, as directed by the
18	Engineer.
19	Engineer.
20	8-02.3(18) Root Barrier
21	Section 8-02.3(18) is added as follows:
22	Section 5-52.5(10) is added as follows.
23	Work shall consist of providing and installing root barriers per the manufacturer's
24	recommendations where indicated in the Plans.
25	recommendations where indicated in the rians.
26	8-02.3(19) Tree Grate and Frame
27	Section 8-02.3(19) is added as follows:
28	Section 0-02.5(15) is added as follows.
29	Tree grates and frames shall be constructed as detailed in the Plans.
30	Thee grates and names shall be constructed as detailed in the Flans.
31	The Contractor shall supply tree grates with the pattern detailed in the Plans, or an
32	approved equal. Any pattern to be supplied not matching the pattern detailed in the Plans
33	
34	shall be approved by the Engineer prior to installation.
35	8-02.4 Measurement
36	Section 8-02.4 is supplemented with the following:
37	Section 6-02.4 is supplemented with the following.
38	Root barrier will be measured by the linear foot. The measurement in the bid item name
39	indicates the height of the root barrier to be installed.
40	indicates the neight of the foot barrier to be installed.
40	Tree grate and frame will be measured per each
41	Tree grate and frame will be measured per each.
42	8-02.5 Payment
43 44	8-02.5 Payment Section 8-02.5 is supplemented with the following:
44	Section 6-02.5 is supplemented with the following.
45 46	"Property Restoration", by force account.
40	Property Restoration , by force account. Payment for "Property Restoration" shall be by force account as described in Section 1-09.6
47	of the Standard Specifications and no other compensation will be allowed.
40	or the otalidate opeonications and no other compensation will be allowed.
45	

- For the purpose of providing a common Bid Proposal for all Bidders and for that purpose only, the estimated cost of this Bid item has been arbitrarily entered in the Proposal to become part of the total Bid by the Contractor.
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5 "Root Barrier - In.", per linear foot.

The unit Contract price per linear foot for "Root Barrier - __ In." shall be full pay for all labor, equipment, materials, tools, and incidentals necessary to perform the Work.

9 "Tree Grate and Frame", per each.

10 The unit Contract price for "Tree Grate and Frame", per each shall be full pay for all costs 11 necessary for performing the Work, including furnishing and installing the grate, frame and 12 steel reinforcing materials; furnishing, placing, and compacting the pea gravel.

- 14 8-03 Irrigation Systems
- 16 8-03.1 Description

17 Section 8-03.1 is supplemented with the following:

This Work consists of designing, furnishing, and installing an irrigation system complete and
 ready for use in all new planting areas in accordance with these Specifications and as shown
 in the Plans, or as approved by the Engineer.

23 8-03.2 Materials

24 Section 8-03.2 is supplemented with the following:

26 Copper Wire

Any necessary copper piping shall be Type K copper and shall conform to industry standards and be in conformance with applicable ASTM or ANSI standards.

Brass Pipe

Any necessary brass pipe and fittings shall conform to industry standards and be in conformance with applicable ASTM or ANSI standards.

34 Plastic Pipe

Polyvinyl Chloride (PVC) pipe (mainline) upstream of the control valves (mainlines) shall be
 Schedule 40 or and shall conform to all requirements of ASTM D1785, Standard Specification
 for PVC Plastic Pipe, Schedules 40, 80, and 120. Mainlines shall be 1-1/2" O.D.

PVC pipe (zone lines) downstream of the control valves (laterals) shall be Class 200 or better
 and shall conform to all requirements of ASTM D1785. Laterals shall be 3/4" O.D. minimum
 size.

All PVC pipe shall be marked with the manufacturer's name, class of pipe, and NSF seal.
 Pipe shall bear no evidence of interior or exterior extrusion marks. Pipe walls shall be uniform,
 smooth, and glossy. Pipe may be pre-belled or with individual solvent-weld couplings.

All PVC fittings shall be of the solvent weld type except where risers, valves, etc., require
 threaded transition fittings. All fittings shall conform to the requirements of ASTM D2466,
 Standard Specification for PVC Plastic Pipe Fittings, Schedule 40. All threaded PVC tees,
 fittings, adaptors, and nipples shall be Schedule 80 or better.

51

- All PVC pipe must be delivered in at least twenty foot (20') lengths. All PVC pipes and fittings
 for swing joints shall conform to all requirements of ASTM D3139, Standard Specification for
 Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals.
 - Sleeves required for main and lateral lines located under pedestrian paving shall be minimum 4" minimum O.D. Schedule 40 PVC, or sized as necessary to accommodate wires, laterals, and mainlines. Sleeves under Roadways (parking lots and isles) where heavy vehicular traffic is anticipated shall be ductile iron pipe, with the inside diameter (I.D.) of the sleeve shall be at least 1 inch greater than the outside diameter (O.D.) of the total inserted pipes. All wiring shall be in separate conduit within the iron pipe.
 - Use Teflon tape on all threaded fittings.

Spray Heads

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Tree grate wells shall be irrigated with bubbler nozzles with nozzles set flush with the surface elevation of pea gravel in tree wells and mounted on PVC risers. Two bubbler heads shall be provided for each tree well, placed near opposite corners of the tree well. Bubblers for tree wells shall be on separate individual zones and not tied to other spray irrigation in other zones and all nozzles in tree well bubbler zones shall be matched. Bubblers for tree wells shall be Rain Bird® 1804 Pressure Compensating Full Circle Bubblers (or equal).

Control Valves

Control Valves shall be Rain Bird® PEB-PRS (or equal) sized to provide optimal operating pressure and zoned to allow for segregation of planting areas of differing sun exposure, heat gain, and maintenance areas.

Automatic Irrigation Controller Assembly

The controller shall have a base station capacity of 8 or 12 stations as well as three expansion slots capable of receiving station modules.

Each module shall be capable of receiving expansion modules of 4, 8, or 12 stations to create a controller capacity of up to 48 stations. Modules shall be hot swappable and can be installed while in operation with the dial in any position and in any open module.

- Include provision of a for mounted monitoring rainfall sensor at each controller location.
- The controllers shall be provided with a metal lockable cabinet and pedestal.

39 Control Wire for Automatic Control Valves

Control wire shall be insulated single strand copper designed for twenty (20) to fifty (50) volts
 and UL approved as Type U.F. (Underground Feeder). The UL and U.F. designations shall
 be clearly marked or indented on the insulation jacket of the wire.

Expansion curls shall be provided within three (3) feet of each wire connection to solenoid and at least every three hundred (300) feet in length of control wire length. Expansion curls are formed by wrapping at least 5 turns of control wire around a rod or pipe 1" or more in diameter. Withdraw the rod or pipe once curls are formed.

49 Copper conductors must meet or exceed ASTM B3, Standard Specification for Soft or 50 Annealed Copper Wire, requirements.

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1 Quick Coupling Valves 2

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Shall be one inch (1"), all brass, and one or two piece bodies with locking brass tops and have galvanized steel swing joints as shown in the Plans. Provide five (5) operating keys and hose swivels.

Quick coupler valve (QCV) for use of compressed air for winterizing shall be 1" all brass, two piece bodies with locking brass tops. Provide one (1) operating key.

Shall be of the same type and manufacture of any QCVs existing on the site (if existing) 10 and/or shall have a 1" outlet, single lug 2-piece with locking lid and matching key. All quick coupling valves shall be installed in a 10" diameter valve box.

Manual Valves

Gate valves 2" and larger shall be flanged, iron body, brass trimmed, resilient double disc wedge, and integral taper seats with non-rising stem and square actuator. All gate valves shall be Class 150 with a minimum 150 PSI - 300 WOG.

18 Curb or Gate Valves one and one half inches (11/2") and smaller shall be all bronze 19 construction with 'tee' handle, 175 PSI water working pressure. 20

Stop and Waste Valves shall be all bronze construction, 175 PSI water working pressure.

Valve Boxes

Automatic control valves shall be enclosed in valve boxes of HDPE or polyolefin and fibrous material (preferably recycled material) with locking lids. The bottom section is to be slotted so as to extend below the pipe. Extensions shall be added as required to meet grades per the Plans. Automatic control valves shall read ACV, master valve boxes shall read MV, gate valves shall read GV, etc.

30 Drain valves and individual gate valves shall be enclosed in a Cast Iron Roadway Box with 31 bottom, top, and lid, sized and extensions, as required. Lid shall have the word "water" printed 32 on it.

Provide two (2) sets of all keys required for valves, valve box covers, and protective sleeve covers unless otherwise noted.

37 Backflow Prevention Devices

38 For each point of connection, a backflow prevention device shall meet the requirements 39 specified in Section 9-30.16 of The Standard Specifications. Proper drainage shall be 40 provided at all backflow prevention devices. Drainage problems shall be brought to the 41 attention of the Contracting Agency at the time of system layout.

42

43 Manufacturer must be on the "Approved Cross Connection Control Devices" list of the 44 Washington State Department of Social and Health Services for that size device.

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Devices shall be type and size to insure complete system operation.

48 Other Supplies

49 Electrical tape shall be black plastic, three-guarters inch (3/4") wide and a minimum of 0.007 50 inches thick and the all-weather type.

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- Teflon tape shall be used for all threaded connections. Tape shall be set back a minimum of
 one-quarter inch (1/4") into the pipe threading.
 - Pressure gages for the pressure reducing valve assembly shall be liquid-filled with one quarter inch (1/4") gage cock attached.
 - Encapsulate all splices with waterproof splice kit.

9 Identification

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Underground Plastic Line Marker: Permanent, bright-colored, continuous-printed plasticized aluminum tape, intended for direct-burial service; not less than 3" wide x 5 mils thick and shall be placed directly over mainlines at 6" below finished grade. Provide blue tape with black printing reading "CAUTION IRRIGATION LINE BURIED BELOW". Line Tec. Inc., PO
Box 67, Glen Ellyn, IL 60138. Detectable Marking Tape; Allen Systems, P.O. Box 33569, Houston, TX 77233 (713) 943-7213, (800) 231-2077; or Magnatec by Thor Enterprises, Inc. P.O. Box 450, Sun Prairie, WI 53590.

18 8-03.3 Construction Requirements

19 Section 8-03.3 is supplemented with the following:

Contractor-Designed Irrigation System

22 The Contractor shall design the irrigation system in accordance with these Specifications. All 23 irrigation design Work by the Contractor shall be reviewed and approved by the Engineer and Contracting Agency prior to construction. All Working Drawings shall be prepared in 24 25 accordance with Section 6-01.9 and include all necessary information (such as psi, gpm, pipe 26 sizes, sleeving size and location, valve schedule, quick connect locations, utility locations, 27 etc.) for a complete design review. The Contractor shall submit two (2) hardcopies of the 28 Working Drawings to the Engineer for review. Minimum Working Drawing scale shall be 1"-29 20' unless otherwise approved by the Engineer.

- Any item of labor, material or equipment not specified or shown in detail in the Working
 Drawings, but incidental to or necessary for the complete installation and proper operation of
 the system, shall be furnished by the Contractor without additional cost to the Contracting
- The underground irrigation system shall be designed and constructed using components,
 valves, piping, fittings, wiring, etc., of sizes and types as called for in these Specifications.
- 39 The system shall be constructed to proposed grades and conform to the site Landscape Plan.
- All system components shall be installed pursuant to the written specifications and applicable
 construction details of the product manufacturer.

44 Layout of Irrigation System

Agency.

Stake the sprinkler irrigation system following the submittal and approval of the Contractor design before the construction begins. Alterations and changes in the layout may be expected in order to conform to the ground conditions and to obtain full and adequate coverage of water. It is understood that corrective measures in the system may become necessary, but no changes or alterations in the system as planned shall be made without the prior authorization of the Contracting Agency.

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1 Before starting Work, determine that Work may proceed without disruption of activities of 2 other trades.

The Contractor shall carefully check grades to ensure that the area is ready to begin Work.

The Contractor is responsible for taking all reasonable investigative actions and precautions when working around all utility systems.

The pressure variation within each zone from the first to the last head must not exceed 15%.

Trenching

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Exercise care when excavating trenches near any existing trees. Where roots are two inches (2") and greater in diameter, hand excavate and tunnel. When large roots are exposed, wrap with heavy burlap for protection and prevent excessive drying. Trenches dug by machines adjacent to trees having roots two inches (2") and less in diameter shall have the sides hand trimmed making a clean cut of the roots. Trenches having exposed tree roots shall be backfilled within twenty-four (24) hours unless adequately protected with moist burlap or canvas.

- 19 The top six inches (6") of soil shall be kept separate from subsoil and shall be replaced as 20 the top layer when backfill is made.
- Trenches shall be excavated for all pipe to provide the minimum depth of cover below finish grade of 24" for live lines (mains), and 18" for laterals and all others, no wider at any point than is necessary to lay the pipe or install equipment. Trenches shall be excavated with vertical sides. Locate outside of paved areas wherever possible.
- Shallow trenches for in-line drip tubing (dripperline) shall be between four to six inches (4" 6") deep within the finished grade of topsoil.
- Materials unsuitable for bedding of pipe to be removed to a depth 4" below trench bottom, and replaced with suitable bedding material as directed by the Engineer. Suitable bedding material shall be: excavated trench material, free from rocks, roots, sticks, debris, or other sharp objects over one inch in diameter; or sand, as required.
- All trenches must be straight, with appropriate pipe-fittings used to allow pipe to be laid without undue bending and not have abrupt changes in grade.
- 38 The trench bottom must be free of rocks or sharp-edged objects.
- 40 The use of an underground vibratory plow or similar device to pull pipe will not be permitted.
- The QCV at the point of connection shall be used to purge each irrigation system of water
 using a suitably sized air compressor.
- 45 Spray Heads

46 Bubbler nozzles in tree grate wells shall be installed flush with the surface elevation of pea 47 gravel and mounted on PVC risers.

All piping must be thoroughly flushed prior to the installation of sprinklers and nozzles. Large
 zones will require progressive flushing.

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1 PVC Pipe and Fittings

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The Contractor shall exercise care in handling, loading, unloading and storing to avoid damage. The pipe and fittings shall be stored under cover, and shall be transported in a vehicle with a bed long enough to allow the length of pipe to lay flat, so as not to be subject to undue bending or concentrated external load at any point. Any pipe that has been dented or damaged shall be discarded until such damage has been cut out and the pipe is rejoined with a coupling.

9 PVC pipe ends shall be cut to ninety (90) degrees to the pipe length and cleaned of all cutting 10 burrs prior to cementing. Use approved reaming tool. Pipe ends shall be wiped clean with a 11 rag and lightly wetted with PVC primer. Cement shall be applied with a light coat on the inside 12 of the fitting and heavier coat on the outside of the pipe. Pipe shall be inserted into the fitting 13 and given a quarter turn to seat the cement. Excess cement shall be wiped from the outside 14 of the pipe. Pipe will be tested as indicated elsewhere in these specifications. No back filling 15 will be permitted other than at the centers of pipe lengths until the pressure test is completed. 16

Appropriate primer shall be used with solvent glue. Solvent welded joints shall be given at least fifteen (15) minutes set-up time before moving or handling. Pipe shall be partially center loaded to prevent arching and slipping. No water shall be permitted in pipe until a period of at least ten (10) hours has elapsed for solvent weld setting and curing.

- Before pressure testing, soluble weld joints shall be given at least twenty-four (24) hours curing time.
 - No PVC pipe may be threaded or connected to a threaded fitting without an adapter. Use Teflon tape on all male threads.

Great care must be taken to insure that the inside of the pipe is absolutely clean. Any pipe ends not being worked on must be protected and not left open.

31 Pipe size for laterals shall be sized according to industry standard PSI/100 pipe sizes.

Brass Pipe and Fittings

Brass pipe shall be installed in accordance with the local Plumbing Code.

36 Teflon tape all male threads to prevent leaks and corrosion.

Wrap all brass pipes with black PVC tape where they pass through grouted openings in concrete vaults.

41 Control Wiring

Control wires shall be taped together at five (5) foot intervals with black electrical tape, then this bundle shall be taped to the bottom of the supply lines at ten foot (10') intervals with at least three (3) wraps of electrical tape. A bare copper wire (#14 or greater) shall be installed on top of the PVC supply line for future detection with the wire ends clearly exposed in the valve boxes.

- 48 Tie a loose twenty-four inch (24") long loop in all wiring at changes of direction greater than 49 30 degrees. Untie all loops after all connections have been made.
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Splices shall be permitted only at junction boxes, valve boxes, or at control equipment and never between valves or valve and controller. A minimum of 24 inches of excess conductor shall be left at all splices, terminal and control valves to facilitate inspection and future splicing. All splices must be encapsulated with sealant in approved splice kit. Splice kit shall be a water-proof wire splice.

One unconnected spare orange control wire (one spare wire for each 5 valves) is to be run from the controller through each intermediate control valve box. Provide a twenty-four inch (24") long, tight loop in each box. Where control valves run in opposite directions from the controller, run a separate spare wire in each direction.

A schedule diagram shall be posted in the controller to facilitate the selection of the valves to be operated.

Location and type of monitoring of controllers shall be directed by the Engineer or as shown in the Plans.

Minimum size of wire is to be determined by the following chart:

No. of	Maximu	Im Length of Co	ommon Wire	
Valves	500'	1000'	2000'	3000'
1	14	14	14	14
2	14	14	14	10
3	14	14	10	8
4	14	14	10	8
5	14	10	8	6
6	14	10	6	6
7	14	8	6	4
8	14	8	6	4
9	14	8	4	4
10	10	6	4	2
11+	10	6	4	1 1 1

New control wires shall be color coded as follows:

Neutral or common wire - White. Lead-in wire - Black. Extra wire – Orange

40 Control wires shall be installed in 1½ inch minimum PVC Schedule 40 sleeve under all paved 41 areas.

43 Sleeves

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Trenches located under areas new paving shall have sleeves installed by Contractor before base and paving material is installed. Sleeves shall extend 12" beyond the pavement on each side and be staked in the field and demarcated on as-built plans for location. Trenches shall be backfilled with sand (6 inches above and 4 inches below the pipe) and compacted in layers to 95% compaction, using manual or mechanical tamping devices. Trenches for piping shall be compacted to equal the compaction of the existing adjacent undisturbed soil and shall be left in firm unyielding condition. All trenches shall be left flush with the adjoining grade. The

Contractor shall set in-place, cap and pressure test all piping under paving prior to paving
 Work.
 Work.

Automatic Controllers

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Install irrigation controllers per manufacturer's Specifications.

Electrical wiring (120 V.A.C.) shall be installed according to local code. A licensed electrician must perform hard wiring of controller, and the Work must be permitted per local jurisdiction requirements. The cost of all electrical Work necessary to make the automatic equipment operate properly shall be included in the Contract.

The Engineer shall direct final location and type of mounting of controllers.

A diagram of schedule shall be posted in the controller to facilitate the selection of the valves to be operated.

Install any existing decoders, transmitters, and all control equipment in controller housing per manufacturer's Specifications.

Double Check Valve Back-Flow Prevention Device

Install the Double Check Valve Assemblies (DVCAs) in accordance with local plumbing code to provide one DVCA per point of connection.

For proper maintenance, the Double Check Valve Assembly shall be located with sufficient clearance from other site features and away from traffic patterns.

The Double Check Valve Assembly shall be installed in a specified and approved vault.

Drain valves shall be installed in accordance with current local plumbing codes.

Once installed, the DCVA must be tested by the local water jurisdiction.

Quick Couplers

Quick coupling valves shall be installed in a 10" diameter valve box at the end of each mainline run and near the DVCA.

Automatic Control Valves

Install per manufactures Specifications to insure proper system operation.

40 Before installation of any automatic valves, the supply line must be thoroughly flushed.

42 All automatic valves shall be enclosed in valve boxes with valve box extensions as required.

44 Service Connection

45 Install per City of Stanwood Standard Detail W-3.

47 Backfilling

Backfilling shall be done when pipe is not in an expanded condition due to heat or pressure.
 Cooling of the pipe can be accomplished by operating the system for a short time before
 backfill, or by backfilling in the early part of the morning before the heat of the day.

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In refilling the trenches, the fill around, 4 inches below, and 6 inches above the pipe and fittings shall be suitable bedding material or sand, as required, and tamped. The remainder of the backfill shall contain no lumps or rocks larger than three inches. A six inch separation is required between all pipes when more than one pipe occupies the trench. If no sodding is required, the top 6 inches of backfill shall be replaced by topsoil where it exists (free of rocks over one inch, subsoil, or trash) or selected fill soil or sand if soil conditions are rocky.

All roots, rocks, and surplus excavation shall be removed from the site unless otherwise
 directed. Any turf areas buried under ditch excavation shall be raked clean of any excavated
 material.

12 Trenches under roads or paved areas shall be backfilled and tamped with a mechanical 13 tamper in successive six inch (6") lifts. Paving shall be replaced to the satisfaction of the 14 Engineer.

Prior to completing backfill, place detection tape 6 inches below finished grades and directly
 above the installed lateral and supply mains for future line detection. Provide extra length to
 clearly expose ends in the valve boxes.

20 Before complete back-filling, all underground appurtenances including risers, valves, double 21 check valve assembly, drain valves, and joints must remain exposed so that they can be viewed during testing and located "as-built" by the Contracting Agency. It is suggested that 22 23 the Contractor partially backfill the pipe as it is laid, leaving all joints exposed; then complete back-filling later after flushing, pressure testing, inspection, and "record drawing" location. 24 25 The location, inspecting, and testing provisions of these Specifications will be strictly adhered 26 to. If, for any reason, any part of the sprinkler system is back-filled before approved location, 27 testing, or inspection is authorized, it must be completely uncovered and exposed until 28 approved for back-filling by the Engineer.

30 Coverage Test

31 Before the irrigation system will be accepted, the Contractor, in the presence of the Engineer, 32 shall perform a water coverage test for each zone of the system. The Contractor shall be 33 responsible to add or change the system components at discretion of the Engineer in order 34 to obtain adequate coverage for survival of new landscape plantings. The Contractor shall 35 be required to add, adjust, and/or replace existing heads, nozzles or new dripperlines to meet 36 this requirement. The Contractor shall accomplish the following: complete all Work including 37 balancing and adjusting the system (pressure reducing valves, flow adjustments, etc.) to 38 provide optimum coverage.

- 40 Notify the Contracting Agency at least forty eight (48) hours in advance of the coverage test.
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42 8-03.5 Payment

- 43 Section 8-03.5 is supplemented with the following:
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- 45 "Irrigation System Complete", lump sum.

The lump sum Contract price for "Irrigation System Complete" shall be full compensation for all costs incurred by the Contractor in providing a complete irrigation system as specified, including furnishing all materials necessary for a complete design and installation, including wire, sleeves, pipe, valves, fittings, heads, nozzles, controller, back-flow prevention device,

50 and all appurtenances related thereto. Included shall be all labor of design and installation,

1 2 3			g trenching, plumbing, back-filling, irrigation, electrical Work, adjustments, and all ms of labor necessary for a satisfactory operating system.
4 5	8-04	Cur	bs, Gutters, and Spillways
6 7	8-04.3	Co	onstruction Requirements
8 9 10			1) Cement Concrete Curbs, Gutters, and Spillways 8-04.3(1) is supplement with the following:
11 12 13			nent concrete drain curb cuts shall be construction in accordance with the details w in the Plans.
14	8-04.4	M	easurement
15			.4 is supplement with the following:
16	000000	0 04	. + is supplement with the following.
17 18	Ce	ment	concrete drain curb cut will be measured per each.
	0 04 5	D	au una su t
19	8-04.5		ayment
20	Section	8-04	.5 is supplement with the following:
21			
22			t Conc. Drain Curb Cut", per each.
23			Contract price per each for "Cement Conc. Drain Curb Cut" shall be full payment for
24	all	costs	for the specified Work, including furnishing and installing streambed cobbles.
25			
26 27	8-14	Cen	nent Concrete Sidewalks
27			
27 28	8-14.3	Co	onstruction Requirements
27 28 29	8-14.3	Co	
27 28 29 30	8-14.3 Section	C d 8-14	onstruction Requirements .3 is supplemented with the following:
27 28 29 30 31	8-14.3 Section (Or	Co 8-14	onstruction Requirements .3 is supplemented with the following: r 3, 2022)
27 28 29 30 31 32	8-14.3 Section (Or Th	Co 8-14 ctobe e Cor	onstruction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> htractor shall request a pre-construction meeting with the Engineer to be held two to
27 28 29 30 31 32 33	8-14.3 Section (Or The five	Co 8-14 ctobe e Cor e Worl	onstruction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> htractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or
27 28 29 30 31 32 33 34	8-14.3 Section (Or The five	Co 8-14 ctobe e Cor e Worl	onstruction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> htractor shall request a pre-construction meeting with the Engineer to be held two to
27 28 29 30 31 32 33 34 35	8-14.3 Section (Or The five oth	Co 8-14 ctobe e Cor e Worl	onstruction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> htractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or
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27 28 29 30 31 32 33 34 35	8-14.3 Section (Or The five oth	Co 8-14 ctobe e Cor e Cor e worl	onstruction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> htractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or
27 28 29 30 31 32 33 34 35 36	8-14.3 Section (Or The five oth	Ctobe e Cor e Cor e worl her pe lude:	Construction Requirements .3 is supplemented with the following: <i>r</i> 3, 2022) Intractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall
27 28 29 30 31 32 33 34 35 36 37 38	8-14.3 Section (Or The five oth	Ctobe e Cor e Cor e worl her pe lude:	Construction Requirements .3 is supplemented with the following: <i>r 3, 2022)</i> Intractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and
27 28 29 30 31 32 33 34 35 36 37 38 39	8-14.3 Section (Or The five oth	Co 8-14 ctobel e Cor e Cor e worl her pe lude: 1.	A supplemented with the following: <i>r</i> 3, 2022) Intractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete.
27 28 29 30 31 32 33 34 35 36 37 38 39 40	8-14.3 Section (Or The five oth	Ctobe e Cor e Cor e worl her pe lude:	A supplemented with the following: <i>r</i> 3, 2022) Attractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	8-14.3 Section (Or The five oth	Co 8-14 ctobel e Cor e Cor e worl her pe lude: 1.	A supplemented with the following: <i>r</i> 3, 2022) Intractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete.
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27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	8-14.3 Section (Or The five oth inc	Co 8-14 e Cor e Cor e worl her pe lude: 1.	A sis supplemented with the following: <i>r</i> 3, 2022) htractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work.
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 5 46	8-14.3 Section (Or The five oth inc	Co 8-14 e Cor e Cor e worl her pe lude: 1. 2. ms to 1.	A supplemented with the following: a is supplemented with the following: a supplemented with the following: a supplemented with the following: a supplemented with the following: a supplemented with the following with the Engineer to be held two to a supplement concrete sidewalks, curb ramps or a destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work. be discussed in this meeting shall include, at a minimum, the following: Slopes shown on the Plans.
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	8-14.3 Section (Or The five oth inc	Co 8-14 e Cor e Cor e worl ner pe lude: 1. 2. ms to	A struction Requirements a is supplemented with the following: <i>r</i> 3, 2022) thractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work. be discussed in this meeting shall include, at a minimum, the following:
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	8-14.3 Section (Or The five oth inc	Co 8-14 ctobe e Cor e worl ner pe lude: 1. 2. ms to 1. 2.	 Destruction Requirements .3 is supplemented with the following: <i>r</i> 3, 2022) tractor shall request a pre-construction meeting with the Engineer to be held two to king days before any work can start on cement concrete sidewalks, curb ramps or destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work. be discussed in this meeting shall include, at a minimum, the following: Slopes shown on the Plans.
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	8-14.3 Section (Or The five oth inc	Co 8-14 e Cor e Cor e worl her pe lude: 1. 2. ms to 1.	A supplemented with the following: a is supplemented with the following: a supplemented with the following: a supplemented with the following: a supplemented with the following: a supplemented with the following with the Engineer to be held two to a supplement concrete sidewalks, curb ramps or a destrian access routes to discuss construction requirements. Those attending shall The Contractor and subcontractor in charge of constructing forms, and placing, and finishing the cement concrete. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work. be discussed in this meeting shall include, at a minimum, the following: Slopes shown on the Plans.

1	4.	Pedestrian control, access routes and delineation
2	_	
3	5.	Accommodating utilities
4 5 6 7	0	E
5	6.	Form work
6	7	
~	7.	Installation of detectable warning surfaces
8	2	
9	8.	Contractor ADA survey and ADA Feature as-built requirements
10	0	
11	9.	Cold Weather Protection
12	(1	
13		ry 7, 2019)
14		Restrictions
15		mps shall be constructed on one leg of the intersection at a time. The curb ramps
16		completed and open to traffic within five calendar days before construction can begin
17	on anot	her leg of the intersection unless otherwise allowed by the Engineer.
18	11.1	
19		otherwise allowed by the Engineer, the five calendar day time restriction begins when
20		ting curb ramp for the quadrant or traffic island/median is closed to pedestrian use
21		is when the quadrant or traffic island/median is fully functional and open for pedestrian
22	access.	
23	(
24 25		ry 7, 2019)
25		and Conformance to Grades
20		ne information provided in the Contract documents, the Contractor shall lay out, grade,
28	and ion	m each new curb ramp, sidewalk, and curb and gutter.
29	8-14.4 Me	easurement
30	ner a second and a second	4.4 is supplemented with the following:
31	Section 6-14	r.4 is supplemented with the following.
32	Comon	t concrete curb ramps will be measured by the square yard of completed curb ramp
33		d includes the installation of the detectable warning surface.
34	installet	includes the installation of the detectable warning surface.
35	8-14.5 Pa	yment
36		4.5 is supplemented with the following:
37	00000110-1-	to is supplemented with the following.
38	"Comer	nt Conc. Curb Ramp Type", per square yard.
39		t Contract price per square yard for "Cement Conc. Curb Ramp Type" shall
40		bay for installing the curb ramp as specified, including the installation of the detectable
41		surface.
42	Warning	journabo.
43	Paymer	nt for "Cement Conc. Sidewalk" and "Cement Conc. Curb Ramp Type" as
44		d shall be contingent on the Contractor certifying that all slopes, lines and grades
45		
45 46	comply	with Contract Documents in provided and accepted documentation. All Work not in
46	comply complia	with Contract Documents in provided and accepted documentation. All Work not in ince with Contract Documents shall be considered defective and all costs associated
46 47	comply complia with re	with Contract Documents in provided and accepted documentation. All Work not in ince with Contract Documents shall be considered defective and all costs associated moving or replacing defective Work shall be the Contractor's responsibility in
46 47 48	comply complia with re	with Contract Documents in provided and accepted documentation. All Work not in ince with Contract Documents shall be considered defective and all costs associated
46 47	comply complia with re accorda	with Contract Documents in provided and accepted documentation. All Work not in ince with Contract Documents shall be considered defective and all costs associated moving or replacing defective Work shall be the Contractor's responsibility in ance with Section 1-05.7.
46 47 48 49	comply complia with re accorda Paymer	with Contract Documents in provided and accepted documentation. All Work not in ince with Contract Documents shall be considered defective and all costs associated moving or replacing defective Work shall be the Contractor's responsibility in

1	
2	8-20 Illumination, Traffic Signal Systems, Intelligent Transportation Systems,
3	and Electrical
4	
5	8-20.2 Materials
6	0-20.2 Materials
7	8-20.2 (9-29.1) Conduit, Innerduct, and Outerduct
8	
9	8-20.2 (9-29.1(11) Foam Conduit Sealant
10	Section 9-29.1(11) is supplemented with the following:
11 12	(January 7, 2019)
13	
14	The following products are accepted for use as foam conduit sealant:
15	CRC Minimal Expansion Foam (No. 14077)
16	 Polywater FST Foam Duct Sealant
17	Superior Industries Foam Seal
18	Todol Duo Fill 400
19	
20	8-20.20 (9-29.2) Junction Boxes, Cable Vaults, and Pull Boxes
21	Section 9-29.2 is supplemented with the following:
22	oorden e zeiz is euppiernenken min ne fenerinig.
23	(September 3, 2019)
24	Slip-Resistant Surfacing for Junction Boxes, Cable Vaults, and Pull Boxes
25	Where slip-resistant junction boxes, cable vaults, or pull boxes are required, each box
26	or vault shall have slip-resistant surfacing material applied to the steel lid and frame of
27	the box or vault. Where the exposed portion of the frame is 1/2 inch wide or less, slip-
28	resistant surfacing material may be omitted from that portion of the frame.
29	
30	Slip-resistant surfacing material shall be identified with a permanent marking on the
31	underside of each box or vault lid where it is applied. The permanent marking shall be
32	formed with a mild steel weld bead, with a line thickness of at least 1/8 inch. The marking
33	shall include a two character identification code for the type of material used and the
34	year of manufacture or application. The following materials are approved for application
35	as slip-resistant material, and shall use the associated identification codes:
36	
37	 Harsco Industrial IKG, Mebac #1 - Steel: M1
38	
39	W. S. Molnar Co., SlipNOT Grade 3 – Coarse: S3
40	2 Thermiter Cottrau TUCOA Crede #4 Connect TA
41 42	Thermion, SafTrax TH604 Grade #1 – Coarse: T1
	9 20 2 (0 26 6) Light And Signal Standards
43	8-20.2 (9-26.6) Light And Signal Standards
44 45	Section 9-29.6 is supplemented with the following:
46	8-20.2 (9-29.6(5) Foundation Hardware
47	Section 9-29.6(5) is supplemented with the following:
48	coston o zo.o(o) lo supplemente a war the following.
49	(January 13, 2021)
	()

1	Anchor bolt assemblies for light standards installed on top of barrier (median barrier
2	mount) shall consist of the following:
3 4 5 6 7 8 9	 (4) 1-inch diameter threaded rods (bolts), minimum 36 inches in length
5	 (24) heavy hex nuts, six per anchor rod
6	 (24) flat washers, six per anchor rod
8	Two anchor plates
9	Each anchor plate shall be constructed from 1/2" ASTM A36 plate and hot-dip
10	galvanized in accordance with AASHTO M111. Each anchor plate shall be ring
11 12	shaped, with an outside diameter of 16 inches and an inside diameter of 12 inches.
13	Each anchor plate shall have four 1 1/8" diameter holes on a 13.89" bolt circle, with the holes positioned to match the anchor rod layout shown in the Standard Plans.
14	
15	Anchor rods shall extend a minimum of five inches and a maximum of six inches
16 17	above the top of the traffic barrier. The lower anchor plate shall be embedded 29
18	inches below the top of the traffic barrier. Each anchor plate shall be clamped with a heavy hex nut and washer above and below the anchor plate. The lower heavy
19	hex nut for the pole base plate shall be no more than one inch from the top of the
20	traffic barrier.
21 22	8-20.5 Payment
22	Section 8-20.5 is supplemented with the following:
24	ecolori o 20.0 is supplemented with the following.
25	"Illumination System – Complete", per lump sum.
26	The lump sum Contract price for "Illumination System – Complete" shall be full compensation
27 28	for the costs of all tools, equipment, materials, and labor necessary or incidental to provide a complete and operational illumination system, including but not limited to: removal and
29	salvage of the existing system, conduits, wiring, junction boxes, luminaires, luminaire poles,
30	and foundations, service cabinet, modification to existing service cabinet, protection and
31	maintenance or replacement of conduit as necessary to facilitate other Work activities in the
32 33	Contract, all required submittals, and all other Work as specified and shown in the Plans.
34	8-24 Rock and Gravity Block Wall and Gabion Cribbing
35	a analyzing a second and the second
36	8-24.1 Description
37 38	Section 8-24.1 is supplemented with the following:
39	This Work consists of designing, furnishing, and installing cement concrete modular block
40	wall units to form a non-reinforced modular block wall system as indicated in the Plans
41	and as specified herein.
42	
43 44	8-24.2 Materials Section 8-24.2 is supplemented with the following:
44	occion o-24.2 is supplemented with the following.
46	Gravel Backfill for Drains 9-03.12(4)
47	Gravel Backfill for Walls 9-03.12(2)
48	Perforated PVC Underdrain Pipe 9-05.2(6)
49	

50 The face of the modular block wall shall offer a rock-face type appearance. Modular block 51 units shall be gray in color. Each modular block shall be the same type, size, and color.

1	
1 2 3 4 5 6 7	Width = 18 inch (minimum) – parallel to the wall Working line
3	Depth = 12 inch (minimum) – perpendicular to the wall Working line
4	Height = 8 inch (minimum)
5	
6	Modular block units shall be interlocked as to provide a maximum one (1) inch setback per
7	each course of wall height (1:8 batter). Interlocking shall consist of concrete shear keys or
8 9	non-corrosive polyester/fiberglass or polyethylene solid pins. Interlocking material shall be
	per the recommendation of the manufacturer of the modular block wall system proposed for
10	use by the Contractor, as approved by the Engineer.
11	
12	8-24.3 Construction Requirements
13	Section 8-24.3 is supplemented with the following:
14	Madelan Diask Malla
15 16	Modular Block Walls Modular block walls shall be of the type net requiring reinfercement, with a maximum beight
17	Modular block walls shall be of the type not requiring reinforcement, with a maximum height of four (4) feet. The Contractor shall make arrangements to purchase the modular block wall
18	components from a source capable of providing materials meeting these Specifications.
19	components norma source capable of providing materials meeting these opecifications.
20	Submittals
21	The Contractor shall submit catalog cuts of the modular blocks and Shop Drawings of
22	the wall layout for approval prior to beginning the Work, and submit a sample of each
23	different unit for approval by the Engineer.
24	
25	Installation shall conform to the manufacturers recommendations for the type of modular
26	block wall system furnished.
27	
28 29	Provide copies of the manufacturer's installation instructions at least two (2) weeks prior
30	to beginning the Work. Should a conflict arise between these Specifications and the manufacturer's instructions, the more rigorous Specification shall apply.
31	manufacturer's instructions, the more rigorous opecification shall apply.
32	Installation
33	The leveling pad (wall footing) shall be embedded below finish grade a minimum of one
34	(1) foot. The wall foundation shall be the two (2) feet below the wall footing, as detailed
35	in the Plans.
36	
37	Place, level, and compact the leveling pad and wall foundation materials. Compact the
38	materials per acceptable compaction methods. Material shall be placed so as to provide
39	a level surface on which to place the first course of concrete wall face units. The leveling
40	pad shall be prepared to ensure complete contact of retaining wall unit with base.
41 42	First source of concrete well fees write shall be pleased on the base leveling red. The
42 43	First course of concrete wall face units shall be placed on the base leveling pad. The units shall be checked for level and alignment. The first course is the most important
43	to ensure accurate and acceptable results.
45	
46	Units are placed side by side for full length of wall alignment, accounting for exact
47	location of curves, corners, and vertical/horizontal steps. Begin laying wall units at the
48	lowest point of the wall and/or 90-degree corner. Alignment may be accomplished by
49	means of a string line or offset from base line.
50	

- Sweep top of underlying block unit course prior to placing the next block unit course.
 Install following courses of block units in running bond pattern so the middle of the unit
 is above the joint between adjacent blocks below, until reaching the top course. Backfill
 and compact the material in cells for each course installed before proceeding to
 the next course.
 - Modular block units may be sawcut as necessary using standard masonry tools. Sawn, half-width block units shall not be used in the first course of concrete wall face units.
 - If so indicated in the Plans, cap units shall be bonded to underlying units with an approved adhesive recommended by the modular block wall system manufacturer.

13 8-24.4 Measurement

- 14 Section 8-24.4 is supplemented with the following:
- Modular block wall will be measured by the square foot of completed front face in place. The bottom limits for vertical measurement will be the top of the leveling pad. The top limits for vertical measurement will be the top of wall as shown in the Plans, including any top wall units or caps. The horizontal limits for measurement are from the end of the wall to the end of the wall.

22 8-24.5 Payment

- 23 Section 8-24.5 is supplemented with the following:
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"Modular Block Wall", per square foot.

The unit Contract price per square foot for "Modular Block Wall" shall be full pay for all costs in conjunction with designing, furnishing, and constructing the wall systems; including gravel backfill for walls, placing and compacting stockpiled crushed surfacing base course leveling pad, structure excavation class A including haul, shoring or extra excavation class A, Shop Drawings, wall units including interlocking features, caps, and all Work and materials required to install wall underdrain pipe, including gravel backfill for drains and construction geotextile for underground drainage.

- 34 "Gravel Backfill for Wall" will be considered incidental to various wall systems.
- "Structure Excavation Class A Incl. Haul" will be considered incidental to the various wall
 systems.
- "Shoring or Extra Excavation Class A" will be considered incidental to the various wall
 systems.
- 41

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All costs associated with furnishing and installing permeable ballast material within the wall
 foundation, including compaction, will be made under the applicable item shown in the
 Proposal.

46 8-26 Vacant

47 Section 8-26, including title, is replaced with the following:

49 8-26 Pedestrian Handrail

50

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51 8-26.1 Description

This Work consists of furnishing and constructing metal pedestrian handrail of the type specified in accordance with the Plans, and these Specifications, at the locations shown in the Plans and	
in conformity with the lines as staked.	
9.26.2 Motoriala	
Materials shall meet the requirements shown in the Plans and the following sections:	
Non-Shrink Grout 9-20.3(2)	
Pedestrian handrail shall be galvanized steel.	
8-26.3 Construction Requirements	
8-26.3(1) Fabrication	
Peters to brighting the bandroil, the Contractor shall submit Shan Drawings for the Engineer's	_
	τ
requirements. Approval does not indicate a check on dimensions.	
이 성실 것 같아요. 비행 사람이 같은, 이 동안 전쟁을 수 있었다. 그 아파가 많이 가 못 드셨다. 그 위방에서는 것이 방법에서 아파랑에서는 것이 가장에 가려면 하는 것 않는 것이 같아요. 그 가장을 하는 것 같아요. 그 가장을 하는 것 같아요. 그 가장을 하는 것 같아요. 그 가장에 가지 않는 것이 같아요. 그 가장을 하는 것 같아요. 그 가장에 가지 않는 것 같아요. 그 가장을 하는 것 같아요. 그 가 있는 것 같아요. 그 가 있는 것 같아요. 그 가 ? 그 가 요. 그 가 것 같아요. 그 가 봐. 그 가 ? 그 ? 그	3
will not be permitted.	
All top rails, panels and posts shall be powder coated black.	
8-26.3(2) Installation	
The handrailing shall be erected in accordance with the details in the Plans.	
이는 이렇게 있는 것이 가지 않는 것이 있었다. 이렇게 있었다. 이렇게 많은 것이라는 것이 있는 것이 있다. 이렇게 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 이 가지 않는 것이 있는 것이 있 같이 것이 있는 것이 있다. 것이 있는 것이 있다. 것이 있는 것이 있다. 것이 있는 것이 있	Э
surface protection during handling and transportation to the job site.	
The handrail shall be carefully erected, true to line and grade. Posts and balusters shall be	e.
vertical with the direction from the vertical for the full height of the panel not exceeding 1/8	
	5
inch.	5
inch.	5
inch. 8-26.4 Measurement	
inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the	
inch. 8-26.4 Measurement	
inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail.	
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment 	Ð
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment Payment will be made in accordance with Section 1-04.1 for the following Bid item when included 	Ð
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment 	Ð
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment Payment will be made in accordance with Section 1-04.1 for the following Bid item when included in the Proposal:	Ð
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment Payment will be made in accordance with Section 1-04.1 for the following Bid item when included in the Proposal: "Pedestrian Handrail", per linear foot.	e
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment Payment will be made in accordance with Section 1-04.1 for the following Bid item when included in the Proposal: "Pedestrian Handrail", per linear foot. The unit Contract price per linear foot for "Pedestrian Handrail" shall be full pay for all labor	ə d
 inch. 8-26.4 Measurement Pedestrian Handrail will be measured per linear foot of handrail along the line and slope at the base of the completed handrail. 8-26.5 Payment Payment will be made in accordance with Section 1-04.1 for the following Bid item when included in the Proposal: "Pedestrian Handrail", per linear foot.	ə d
	 in accordance with the Plans, and these Specifications, at the locations shown in the Plans and in conformity with the lines as staked. 8-26.2 Materials Materials shall meet the requirements shown in the Plans and the following sections: Non-Shrink Grout 9-20.3(2) Pedestrian handrail shall be galvanized steel. 8-26.3 Construction Requirements 8-26.3 Construction Requirements 8-26.3(1) Fabrication Before fabricating the handrail, the Contractor shall submit Shop Drawings for the Engineer's approval showing dimensions and details of fabrication and including an erection diagram Material being used shall be specified in the Shop Drawings. In reviewing Shop Drawings the Engineer indicates only that they appear complete and address the basic project requirements. Approval does not indicate a check on dimensions. Cutting shall be done by sawing or milling and all cuts shall be true and smooth. Flame cutting will not be permitted. All top rails, panels and posts shall be powder coated black. 8-26.3(2) Installation The handrailing shall be erected in accordance with the details in the Plans. Pipe railing, pipe balusters, and pipe railing splices shall be adequately wrapped to insure surface protection during handling and transportation to the job site.

51 8-27 Vacant

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1 Section 8-27, including title, is replaced with the following:

3 8-27 Remove and Reinstall Existing Bench

4

2

5 8-27.1 Description

6 This Work consists of removing, maintaining in temporary locations during construction, and 7 reinstalling in permanent locations, the bench affected by the Work in accordance with the Plans 8 and these Specifications. 9

10 8-27.2 Vacant

12 8-27.3 Construction Requirements

During construction, the existing bench shall be protected and removed from its existing location.
 Any concrete foundation or sidewalk material (if any) that remains attached to the bench after its
 removal shall be carefully removed so as not to damage the bench.

17 The bench shall be moved to a temporary location, and it will be protected from damage.

18

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19 The bench shall be reinstalled in the new location, in accordance with the Plans and to the 20 satisfaction of the Engineer. 21

22 8-27.4 Measurement

23 Removal and reinstallation of bench will be measured.

24 25 8-27.5 Payment

26 Payment will be made for the following Bid item when included in the Proposal:

- 28 "Remove and Reinstall Existing Bench", per each.
- The unit Contract price for "Remove and Reinstall Existing Bench" per each shall be full payment for removing, cleaning, hauling, storing, and reinstalling the bench. All material, costs and labor associated with attachment hardware to secure the bench to the sidewalk will be incidental to the installation of the bench.

34 8-28 Vacant

35 Section 8-28, including title, is replaced with the following:

37 8-28 Remove and Reinstall Existing Trash Receptacle

38

39 8-28.1 Description

- 40 This Work consists of removing, maintaining in temporary locations during construction, and 41 reinstalling in permanent locations, the trash receptacle affected by the Work in accordance with
- 42 the Plans and these Specifications.
- 43

36

44 8-28.2 Vacant 45

46 8-28.3 Construction Requirements

47 During construction, the existing trash receptacle shall be protected and removed from its existing48 location.

49 50 The trash receptacle shall be moved to a temporary location, and it will be protected from damage.

1

The trash receptacle shall be reinstalled in the new location, in accordance with the Plans and to
the satisfaction of the Engineer.

5 8-28.4 Measurement

6 Removal and reinstallation of trash receptacle will be measured per each.

8 8-28.5 Payment

9 Payment will be made for the following Bid item when included in the Proposal:

10

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- 11 "Remove and Reinstall Existing Trash Receptacle", per each.
- 12 The unit Contract price for "Remove and Reinstall Existing Trash Receptacle" per each shall
- be full payment for removing, cleaning, hauling, storing, and reinstalling the trash receptacle.
- 14 All material, costs and labor associated with attachment hardware to secure the trash
- 15 receptacle to the sidewalk will be incidental to the installation of the trash receptacle.
- 16
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19 END OF DIVISION 8

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Division 9 Materials

9-14 Erosion Control and Roadside Planting

9-14.7 Plant Materials

9-14.7(1) Description

Section 9-14.7(1) is supplement with the following:

Street tree species shall be Persian Ironwood (Parrotia Persica) and have a minimum 2" diameter at 4.5' above the ground. Trees shall have a matched growth character and have 6' minimum clear from lowest branch to the ground.

16 9-14.9 **Root Barrier**

17 Section 9-14.9, including title, is added as follows:

19 Root barriers shall be injection molded, 50% post-consumer recycled plastic, minimum 20 twelve (12) inch wide and eighteen (18) inch high panels with $\frac{1}{2}$ raised 90% molded root 21 deflecting ribs, and meet or exceed the following criteria:

22

Test	ASTM Test Method	Value Copolymer Polypropylene
Tensile Stress @ yield	D638	3800 PS
Elongation @ yield	D638	6.3%
Flexural Modulus	D790B	150,000 PSI
Notched Izod Impact	D256A	7.1
Rockwell Hardness r. scale	D785A	68

23

25 26

24 9-29 Illumination, Signal, Electrical

9-29.6(1) Steel Light and Signal Standards

27 28 9-29.6(1)A Decorative Light Standards 29 Section 9-29.6(1)A is added as follows: 30 31 Decorative Roadway and Decorative Pedestrian light standards shall be per the 32 dimensions as shown in the Contract Plans and as specified below without 33 substitution. 34 35 Decorative Roadway Light Standard 36 KWH25-G-E58-SBP-GFI W/ KA106BLK S/F KPL20 by Stresscrete (6' arm) 37 38 Decorative Pedestrian Light Standard 39 KWC15-G-E58-SBP-GFI-C/W 140 by Stresscrete 40 Roadway and Pedestrian light standards shall include banner arms. 41

CITY OF STANWOOD **VIKING WAY PHASE 2** SPECIAL PROVISIONS

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9-29.10 Luminaires

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- 3 Section 9-29.10(2) is supplemented with the following:
 - Decorative Roadway and Decorative Pedestrian luminaires shall be per the dimensions as shown in the Contract Plans and as specified below without substitution.
- 8 9 Decorative Roadway Luminaire
 - DMS50-SHA-110W64LED4K-R-LE3-BKTX-SMB by Philips Lumec
- 12 Decorative Pedestrian Luminaire
 - DMS60-SHA-80W48LED4K-R-LE4-UNIV-BKTX by Philips Lumec DMS60-SHA-35W32LED4K-R-LE4-UNIV-BKTX by Philips Lumec

16 9-29.24 Service Cabinets

17 Section 9-29.24 is supplemented with the following:

The electrical service cabinet shall be furnished by the Contractor per the Plans and be wired ready for operation. The Contractor's Work shall include a construction of a foundation (per Plans), placing cabinets and equipment and connecting field wiring to field terminal strips.

24 9-30 Water Distribution Materials

- 26 9-30.2 Fittings
- 27 Section 9-30.2 is supplemented with the following:

6 shall be
el bolts.

1 (February 26, 2024)

SPECIAL PROVISIONS

2 Standard Plans

3 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01, 4 effective October 23, 2023, is made a part of this contract. 5 6 The Standard Plans are revised as follows: 7 8 A-10.30 9 RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): The 10 RISER RING detail is deleted from the plan. 11 12 INSTALLATION detail, SECTION A: The "1/4"" callout is revised to read "+/- 1/4" (SEE CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)" 13 14 A-40.20 15 16 Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following: 17 1. Use the ½ inch joint details for bridges with expansion length less than 100 18 feet and for bridges with L type abutments. Use the 1 inch joint details for other 19 applications. 20 2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge 21 deck panels. 22 3. For details 1, 2, 3, and 4, the item "HMA Joint Seal at Bridge End" shall be 23 used for payment. For details 5 and 6, the item "HMA Joint Seal at Bridge 24 Deck Panel Joint" shall be used for payment. For detail 7, the item "Clean and 25 Seal Bridge Deck Panel Joint" shall be used for payment. 26 Sheet 2, Detail 8 reference to "6-09.3(6)" is revised to read "6-21.3(7)". 27 28 A-60.40 29 Note 2 reference to "6-09.3(6)" is revised to read "6-21.3(7)". 30 31 B-90.40 32 Valve Detail – DELETED 33 C-60.10 34 35 Sheet 1 of 2, Side view, add new callout pointing to the outer edges of the 3" x 12" lifting slots at bottom of barrier. New callout reads "PERMISSIBLE 3/4" CHAMFER." 36 37 Sheet 1 of 2, Side view, add 2-inch diameter lifting holes centered 32" from each end of the 38 barrier and 15" from the top face (2 lifting holes total). Add new callout pointing to the new 39 lifting holes. New callout reads "PERMISSIBLE 2" DIAM. LIFTING HOLE" 40 41 C-85.11 42 On Section B, the callout "3" EXPANDED POLYSTYRENE AROUND COLUMN (TYP.)" is revised to read "3" EXPANDED POLYSTYRENE OR POLYETHYLENE FOAM AROUND 43 44 COLUMN (TYP.)" 45 46 D-3.10 47 Sheet 1, Typical Section, callout – "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. 48 USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.15" is revised to 49 read; "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS" CITY OF STANWOOD **VIKING WAY PHASE 2** Page 168

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Sheet 1, Typical Section, callout – "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE
 THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16" is revised to read;
 "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS"

D-3.11

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32 33 Sheet 1, Typical Section, callout – ""B" BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "B" BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

Sheet 1, Typical Section, callout – "TYPICAL BARRIER ON BRIDGE APPROACH SLAB
 (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE
 STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "TYPICAL BARRIER ON BRIDGE
 APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

D-10.10

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

D-10.15

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

D-10.30

Wall Type 5 may be used in all cases.

D-10.35

Wall Type 6 may be used in all cases.

D-10.40

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

38 39 D-10.45

40 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic 41 barriers attached on top of the wall are considered non-standard and shall be designed in 42 accordance with the current WSDOT BDM and the revisions stated in the revisions stated in 43 the 11/3/15 Bridge Design memorandum.

- 44
- 45 <u>F-10.18</u>

46 Note 2, "Region Traffic engineer approval is needed to install a truck apron lower than 3"." 47 DELETED

48

49 <u>J-10.10</u>

50 Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' – 3" is 51 revised to read: 7' – 3". Type 342LX / NEMA P44=5' – 10" is revised to read: 6' – 10"

1	Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "-SPACE
1 2	BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED TO READ:
3	"SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x
4	CABINET IS 6" (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN)"
4 5 6 7	
6	J-10.16
7	Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
8	
8 9	<u>J-10.17</u>
10	Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
11	
12	J-10.18
13	Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
14	
15	J-20.26
16	Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton
17	post."
18	post.
19	J-20.16
20	<u>J-20.16</u> View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE
20	view A, callout, was - LOCK NIFFLE, is revised to read, CHASE NIFFLE
22	1 21 10
	<u>J-21.10</u> Sheet 1 of 2. Elevention View Round Concrete Foundation Datail, collevit, "ANCHOR POLTS.
23	Sheet 1 of 2, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS
24	~ ¾" (IN) × 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO
25	READ: "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER
26	ASSEMBLY"
27	Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of
28	the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR Delete "(TYP.)" from
29	the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find 2
30	# 4 reinf. Bar.
31	Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of
32	the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2
33	1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4
34	reinf. Bar.
35	Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of
36	the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2
37	1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4
38	reinf. Bar.
39	Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of
40	the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2
41	1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4
42	reinf. Bar.
43	Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts
44	(see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque
45	Clamping Bolts (see Note 1)"
46	Detail F, callout, "3/4" (IN) x 2' - 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is
47	revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"
48	
49	<u>J-21.15</u>
50	Partial View, callout, was - LOCK NIPPLE ~ 1 1/2" DIAM., is revised to read; CHASE NIPPLE
51	~ 1 ½" (IN) DIAM.
	CITY OF STANWOOD

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J-21.16

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

J-22.15

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

J-40.10

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

J-40.36

Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-40.37

Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-75.20

Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel Bands", add the following to the end of the note: "Alternate: Stainless steel cable with stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel bands and associated hardware."

J-75.55

Notes, Note A1, Revise reference, was - G-90.29, should be - G-90.20.

L-5.10

Sheet 1, General Note 8, third sentence – was; "For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 3' - 6' as measured form the top front face of the barrier." Is revised to read; "For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 2' - 6" as measured form the top front face of the barrier."

- 41 Sheet 2, Reinforcing Steel Bending Diagram, (mark) B detail, callout "128 deg." is revised 42 to read: "123 deg.", callout – "51 deg." is revised to read: "57 deg."
- 44 M-40.10

Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - "(SEE NOTE 5)"

48 The following are the Standard Plan numbers applicable at the time this project was 49 advertised. The date shown with each plan number is the publication approval date shown 50 in the lower right-hand corner of that plan. Standard Plans showing different dates shall not 51 be used in this contract.

1			
	A-10.10-00 8/7/07	A-30.35-00 10/12/07	A-50.10-01 8/17/21
	A-10.20-00 10/5/07	A-40.00-01 7/6/22	A-50.40-01 8/17/21
	A-10.30-00 10/5/07	A-40.10-04 7/31/19	A-60.10-03 12/23/14
	A-20.10-00 8/31/07	A-40.15-00 8/11/09	A-60.20-03 12/23/14
	A-30.10-00 11/8/07	A-40.20-04 1/18/17	A-60.30-01 6/28/18
	A-30.30-01 6/16/11	A-40.50-03 9/12/23	A-60.40-00 8/31/07
2			
	B-5.20-03 9/9/20	B-30.50-03 2/27/18	B-75.20-038/17/21
	B-5.40-02 1/26/17	B-30.60-00	B-75.50-023/15/22
	B-5.60-02 1/26/17	B-30.40-03 2/27/18	B-70.60-011/26/17
	B-10.20-03 8/23/23	B-30.70-04 2/27/18	B-75.60-006/8/06
	B-10.40-02 8/17/21	B-30.80-01 2/27/18	B-80.20-006/8/06
	B-10.70-03 8/23/23	B-30.90-02 1/26/17	B-80.40-006/1/06
	B-15.20-01 2/7/12	B-35.20-00 6/8/06	B-85.10-016/10/08
	B-15.40-01 2/7/12	B-35.40-01 8/23/23	B-85.20-006/1/06
	B-15.60-02 1/26/17	B-40.20-00 6/1/06	B-85.30-006/1/06
	B-20.20-02 3/16/12	B-40.40-02 1/26/17	B-85.40-006/8/06
	B-20.40-04 2/27/18	B-45.20-017/11/17	B-85.50-016/10/08
	B-20.60-03 3/15/12	B-45.40-017/21/17	B-90.10-00
	B-20.00-03	B-43.40-01 1/21/17	
		B 50 00 00 0/1/00	
	B-25.20-02 2/27/18	B-50.20-00 6/1/06	B-90.20-006/8/06
	B-25.60-03 8/23/23	B-55.20-03 8/17/21	B-90.30-006/8/06
	B-30.05-00 9/9/20	B-60.20-02 9/9/20	B-90.40-011/26/17
	B-30.10-03 2/27/18	B-60.40-01 2/27/18	B-90.50-006/8/06
	B-30.15-00 2/27/18	B-65.20-01 4/26/12	B-95.20-028/17/21
	B-30.20-04 2/27/18	B-65.40-00 6/1/06	B-95.40-016/28/18
	B-30.30-03 2/27/18	B-70.20-01 3/15/22	8 00.10 01
3	B-50.50-05 2/21/10	D-70.20-01 0/10/22	
5	C-19/8/22	C-22.40-1010/16/23	C-60.70-019/8/22
	C-1b 10/12/23	C-22.45-069/8/22	C-60.80-019/8/22
	C-1d 10/31/03	C-23.70-0110/16/23	C-70.15-008/17/21
	C-2c 8/12/19	C.24.10-0410/16/23	C-70.10-0410/16/23
	C-4f 8/12/19	C-24.15-00 3/15/22	C-75.10-029/16/20
	C-6a9/8/22	C-25.20-07 8/20/21	C-75.20-038/20/21
	C-79/8/22	C-25.22-06 8/20/21	C-75.30-038/20/21
	C-7a9/8/22	C-25.26-05 8/20/21	C-80.10-03 10/16/23
	C-20.10-09 10/12/23	C-25.30-01 8/20/21	C-80.20-01 6/11/14
	C-20.14-05 9/8/22	C-25.80-05 8/12/19	C-80.30-028/20/21
	C-20.15-03 10/12/23	C-60.10-0310/16/23	C-80.40-016/11/14
	C-20.18-04 9/8/22	C-60.15-00 8/17/21	C-85.10-004/8/12
	C-20.40-10 10/12/23	C-60.20-01 9/8/22	C-85.11-019/16/20
	C-20.41-04 8/22/22	C-60.30-01 8/17/21	C-85.15-0310/17/23
	C-20.42-06 10/12/23	C-60.40-00 8/17/21	C-85-18-039/8/22
	C-20.43-00 8/22/22	C-60.45-00 8/17/21	C-81.10-009/12/23
	C-20.45.03 9/8/22	C-60.50-00 8/17/21	C-81.15-009/12/23
	C-22.16-08 10/17/23	C-60.60-00 8/17/21	
4	0 22.10 00 10/17/20	0.00.00.00.0017721	
4	D-2.36-03 6/11/14	D-3.11-036/11/14	D-10.25-018/7/19
	D-2.46-028/13/21	D-412/11/98	D-10.30-007/8/08
	D-2.84-00 11/10/05	D-66/19/98	D-10.35-007/8/08

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1	D-2.92-01 4/26/22 D-3.09-00 5/17/12 D-3.10-01 5/29/13	D-10.10-01 12/2/08 D-10.15-01 12/2/08 D-10.20-01 8/7/19	D-10.40-0112/2/08 D-10.45-0112/2/08 D-20.10-0010/9/23
2	E-12/21/07 E-25/29/98	E-4	E-20.10-009/12/23 E-20.20-0010/4/23
3	F-10.12-049/24/20 F-10.16-0012/20/06 F-10.18-033/28/22 F-10.40-049/24/20 F-10.42-001/23/07	F-10.62-02 4/22/14 F-10.64-03 4/22/14 F-30.10-04 9/25/20 F-40.12-03 6/29/16 F-40.14-03 6/29/16	F-40.15-049/25/20 F-40.16-036/29/16 F-45.10-0410/16/23 F-80.10-047/15/16
	G-10.10-009/20/07 G-20.10-038/20/21 G-22.10-046/28/18 G-24.10-0011/8/07 G-24.20-012/7/12 G-24.30-026/28/18 G-24.40-076/28/18	G-24.50-05 8/7/19 G-24.60-05 6/28/18 G-25.10-05 9/16/20 G-26.10-00 7/31/19 G-30.10-04 6/23/15 G-50.10-03 6/28/18	G-90.10-037/11/17 G-90.20-057/11/17 G-90.30-047/11/17 G-95.10-026/28/18 G-95.20-036/28/18 G-95.30-036/28/18
4	H-10.10-00 7/3/08 H-10.15-00 7/3/08 H-30.10-00 10/12/07	H-32.10-00 9/20/07 H-60.10-01 7/3/08 H-60.20-01 7/3/08	H-70.10-028/17/21 H-70.20-028/17/21
6	I-10.10-018/11/09 I-30.10-023/22/13 I-30.15-023/22/13 I-30.16-017/11/19 I-30.17-016/12/19	I-30.20-00 9/20/07 I-30.30-02 6/12/19 I-30.40-02 6/12/19 I-30.60-02 6/12/19 I-40.10-00 9/20/07	I-40.20-009/20/07 I-50.20-027/6/22 I-60.10-016/10/13 I-60.20-016/10/13 I-80.10-027/15/16
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