

Contract Provisions

For Construction of:

2016 PAVEMENT PROGRAM - OVERLAYS

March 2016

CITY OF SAMMAMISH
PUBLIC WORKS DEPARTMENT
801 228TH AVENUE SE
SAMMAMISH, WA 98075



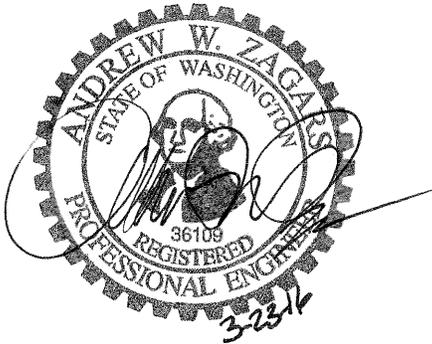
2016 PAVEMENT PROGRAM - OVERLAYS

Notice to All Planholders

The Project Engineer assigned to answer questions regarding these bid documents and to show this project to prospective bidders is:

Derya Dilmen
801 228th Ave SE
Sammamish, WA 98075
(425) 295-0574

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



Approved for Construction:

 3-23-16
Andrew Zagars, P.E. Date
City Engineer**

****The signature of the City Engineer on these Contract Provisions shall serve as written approval for all variations to the Public Works Standards contained within this project as required by PWS. 10.170.**

TABLE OF CONTENTS

PART 1 PROPOSAL INTRODUCTION	i
NOTICE TO CONTRACTORS	ii
BIDDER’S CHECKLIST	iii
PART 2 PROPOSAL.....	1
PROPOSAL.....	2-1
SCHEDULE OF PRICES	2-3
BID SECURITY FORM	2-7
ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA	2-8
BIDDER INFORMATION AND SIGNATURE.....	2-9
NON-COLLUSION AND DEBARMENT AFFIDAVIT	2-11
MINIMUM WAGE AFFIDAVIT FORM	2-12
SUBCONTRACTOR LIST	2-14
STATEMENT OF BIDDER’S QUALIFICATIONS	2-15
RESPONSIBLE BIDDER CRITERIA	2-17
PART 3 CONTRACT DOCUMENT FORMS.....	i
CONTRACT AGREEMENT	3-1
CONTRACTOR'S RETAINAGE AGREEMENT.....	3-5
LABOR AND MATERIAL PAYMENT BOND.....	3-6
PERFORMANCE BOND TO THE CITY OF SAMMAMISH	3-8
APPENDIX A Prevailing Wage Rates	A-1

PART 1

PROPOSAL INTRODUCTION

NOTICE TO CONTRACTORS

CITY OF SAMMAMISH 2016 PAVEMENT PROGRAM - OVERLAYS

Sealed proposals will be received by the City Clerk up to 2:00 p.m. (local time) on Thursday, April 7th, 2016 for furnishing the necessary labor, materials, equipment, tools, and guarantees thereof to construct the *2016 PAVEMENT PROGRAM - OVERLAYS*. Bids received after the time and date listed above will not be considered.

Sealed proposals should be addressed to the following:

City of Sammamish
801 228th Avenue SE
Sammamish, WA 98075
Attn: City Clerk

The work provides for construction of various City of Sammamish Streets by planing, leveling, and overlaying with HMA pavement, thickened edge HMA curb, concrete extruded curb, concrete curb and gutter and sidewalk, utility structure adjustments, pavement markings.

The work shall be completed within one hundred [100] working days after the commencement date stated in the Notice to Proceed. All bidding and construction shall be performed in compliance with the Contract Documents for this project and any addenda issued thereto which are on file at the office of the City Clerk, City Hall, City of Sammamish, Washington.

At the time and date stated above, the proposals will be publicly opened and read aloud. Proposals are to be submitted only on the form provided with the Specifications. All Proposals must be accompanied by a certified check, cashiers check, money order, or bid bond payable to the "City of Sammamish" of value not less than five percent (5%) of the total amount bid.

Plans, Specifications, addenda, Bidders list, and plan holders list for this Project are available through the City of Sammamish's on-line plan room at <http://bxwa.com>. Click on "Posted Projects"; "Public Works", "City of Sammamish", and "Projects Bidding". Bidders are required to register in order to receive automatic e-mail notification of future addenda and to be placed on the Bidders List. Contact Builders Exchange of Washington at 425-258-1303 should you require assistance.

Financing for this Project will be provided by the City of Sammamish. The City of Sammamish expressly reserves the right to reject any or all bids and to waive minor irregularities or informalities and to further make award of the Project to the lowest responsive, responsible bidder as it best serves the interest of the City.

Melonie Anderson,
City Clerk

Dates of Publication: Daily Journal of Commerce: March 24 and March 31, 2016

Seattle Times: March 24 and March 31, 2016

BIDDER'S CHECKLIST

1. REQUIRED FORMS

The Bidder shall submit the following forms as part of the proposal. The forms must be executed in full and submitted with the Proposal.

- Proposal**
- Schedule of Prices**
- Bid Security Form**
- Acknowledgement of Receipt of Addenda**
- Bidder Information and Signature**
- Non-Collusion and Debarment Affidavit**
- Minimum Wage Affidavit Form**

Every prime contract bidder shall submit with the bid or within one hour after the published bid submittal time, the names of subcontractors. (Only required if the project is expected to cost one million dollars or more.)

- List of Subcontractors**

The two lowest bidders shall submit the following forms within 48 hours after the bid opening. Failure to submit these forms may result in the Contracting Agency refusal to accept the Bid.

- Statement of Bidder's Qualifications**
- Responsible Bidder Criteria**

2. AGREEMENT FORMS

The following forms (a., b., and c.) are to be executed and the following Certificates of Insurance (d. and e.) are to be provided after the Contract is awarded and prior to Notice to Proceed.

- a. Agreement
- b. Performance Bond
- c. Labor and Material Payment Bond
- d. Certificate of Insurance
- e. Certificate of Builder's Risk "All Risk" Insurance
- f. City of Sammamish Business License

PART 2
PROPOSAL

PROPOSAL

Honorable mayor and Council
City of Sammamish
801 228th Avenue NE
Sammamish, WA 98075

This work provides for the improvement of various City of Sammamish streets by planing, leveling, and overlaying with HMA pavement, thickened edge HMA curb, concrete extruded curb, concrete curb and gutter and sidewalk, utility structure adjustments, pavement markings, vehicle loop detectors, and other work, all in accordance with the Contract Plans, Contract Provisions, and the Standard Specifications.

All bidding and construction shall be performed in compliance with the Notice to Contractors, Bid Proposal, Plans, Specifications, and Contract for this project and any addenda issued thereto which are on file at the office of the City Clerk, City Hall, City of Sammamish, Washington.

It is understood herein that after the date and hour set for the opening of bids, no Bidder may withdraw its Proposal, unless the award of the Contract is delayed for a period exceeding sixty (60) consecutive calendar days.

The undersigned has examined the site(s), local conditions, Addenda, Contract Provisions, Plans, and all applicable laws and ordinances covering the Work contemplated. In accordance with the terms, provisions, and requirements of the foregoing, all of their respective terms and conditions are incorporated herein by this reference and the following unit and lump sum prices are tendered as an offer to perform the Work and furnish the equipment, materials, appurtenances, and guarantees, complete in place, in good working order.

The undersigned freely states that it is familiar with the provisions of the competitive bidding statutes of the State of Washington, and specifically the provisions of RCW Chapter 9.18, and certifies that with respect to this Proposal, there has been no collusion or understanding with any other person, persons, or corporation, to prevent or eliminate full and unrestricted competition among Bidders on this Project.

The undersigned agrees that in the event of contract award, it shall employ only Contractor and Subcontractors duly licensed by the State of Washington.

The undersigned agrees that the Owner reserves the right to reject any or all bids and to waive any minor informalities.

PROPOSAL – Continued

Print Contractor Name

The undersigned hereby agrees that the Owner reserves the right to award the contract to the lowest responsible, responsive bidder whose Proposal is in the best interest of the Owner. The Owner will determine at the time of award of the Project which additives, if any, will be included in the Contract.

The undersigned agrees that the Owner is authorized to obtain reports from all references included herein.

Very Truly Yours,

Print Company Name

By (Print Name)

By (Signature)

Title

Date

SCHEDULE OF PRICES

NOTE:

- **Unit prices for all items, all extensions, and the total amount bid must be shown.**
- **The project must be in its entirety, including all bid items and any bid additive bid items as specifically listed in the Proposal, in order to be considered a responsive bid.**
- **Where conflict occurs between the unit price and the total amount named for any item the unit price shall prevail, and totals shall be corrected to conform thereto.**
- **All entries must be typed or printed and entered in ink. Award of the Contract shall be based on the lowest, responsive bid.**

(Standard Specifications and Special Provision references shown are provided for information only to assist bidders in the preparation of their proposal. Bidders shall not rely on this information and must thoroughly examine the contract requirements during the preparation of their proposal.)

Item No.	Item With Unit Priced Bid	Unit	Approx. Quantity	Unit Price	Amount
1	MOBILIZATION (0001)	L.S.	1.00	\$ _____	\$ _____
2	SITE 1 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
3	SITE 2 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
4	SITE 3 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
5	SITE 4 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
6	SITE 5 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
7	SITE 6 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
8	SITE 7 PREPARATION ()	L.S.	1.00	\$ _____	\$ _____
9	PAVEMENT REPAIR ADD. EX. ()	SY	12.00	\$ _____	\$ _____
10	CRUSHED SURFACING BASE COARSE ()	TON	2.28	\$ _____	\$ _____
11	PAVEMENT REPAIR EXCAVATION INCL. HAUL (0332)	S.Y.	8,403.00	\$ _____	\$ _____

PROPOSAL – Continued

Print Contractor Name _____

Item No.	Item With Unit Priced Bid	Unit	Approx. Quantity	Unit Price	Amount
12	HMA BASE COURSE EXCAVATION, INCL. HAUL ()	S.Y.	16,882.00	\$ _____	\$ _____
13	ANTI-STRIPPING ADDITIVE (5334)	EST.	1.00	\$ 10,000.00	\$ 10,000.00
14	PLANING BITUMINOUS PAVEMENT (5711)	S.Y.	68,122.00	\$ _____	\$ _____
15	HMA FOR PRELEVELING CL. 3/8 IN. PG PG 64-22 (5716)	TON	71.00	\$ _____	\$ _____
16	HMA FOR PAVEMENT REPAIR CL. 1/2 IN. PG PG 64-22 (5739)	TON	1,400.00	\$ _____	\$ _____
17	HMA BASE COURSE CL. 1/2 IN. PG 64-22 ()	TON	1,979.00	\$ _____	\$ _____
18	HMA CL. 3/8 IN. PG PG 64-22 ()	TON	4,998.00	\$ _____	\$ _____
19	HMA CL. 1/2 IN. PG PG 64-22 (5767)	TON	7,980.00	\$ _____	\$ _____
20	HMA WIDE THICKENED EDGE ()	L.F.	2295.00	\$ _____	\$ _____
21	ASPHALT COST PRICE ADJUSTMENT (5837)	CALC	1.00	\$ 20,000.00	\$ 20,000.00
22	INLET PROTECTION (6471)	EACH	317.00	\$ _____	\$ _____
23	PERMEABLE BALLAST ()	TON	137.00	\$ _____	\$ _____
24	EXTRUDED CURB (6727)	L.F.	715.00	\$ _____	\$ _____
25	CUL-DE-SAC ISLAND RESTORATION ()	EACH	7.00	\$ _____	\$ _____
26	PAINT LINE (6806)	L.F.	410.00	\$ _____	\$ _____
27	PAINTED WIDE LINE (6817)	L.F.	11,590.00	\$ _____	\$ _____
28	PLASTIC CROSSWALK LINE (6857)	S.F.	213.00	\$ _____	\$ _____
29	PLASTIC STOP LINE (6859)	L.F.	134.00	\$ _____	\$ _____
30	PLASTIC TRAFFIC ARROW (6833)	EACH	4.00	\$ _____	\$ _____
31	PLASTIC TRAFFIC LETTER (6871)	EACH	22.00	\$ _____	\$ _____

PROPOSAL – Continued

Print Contractor Name _____

Item No.	Item With Unit Priced Bid	Unit	Approx. Quantity	Unit Price	Amount
32	RAISED PAVEMENT MARKER TYPE 1 ()	EACH	1.50	\$ _____	\$ _____
33	RAISED PAVEMENT MARKER TYPE 2 (6884)	HUND	5.17	\$ _____	\$ _____
34	FLEXIBLE GUIDE POST (6832)	EACH	10.00	\$ _____	\$ _____
35	PORTABLE CHANGEABLE MESSAGE SIGN ()	DAY	20.00	\$ _____	\$ _____
36	OTHER TEMPORARY TRAFFIC CONTROL (6973)	L.S.	1.00	\$ _____	\$ _____
37	FLAGGERS AND SPOTTERS (6980)	HR	3000.00	\$ _____	\$ _____
38	OTHER TEMPORARY TRAFFIC CONTROL LABOR ()	HR	700.00	\$ _____	\$ _____
39	TRAFFIC CONTROL SUPERVISOR (6974)	L.S.	1.00	\$ _____	\$ _____
40	FORCE ACCOUNT UNIFORMED POLICE OFFICER ()	EST.	1.00	\$ <u>10,000.00</u>	\$ <u>10,000.00</u>
41	ADJUST MONUMENT CASE AND COVER (7380)	EACH	192.00	\$ _____	\$ _____
42	ADJUST MANHOLE (3080)	EACH	3.00	\$ _____	\$ _____
43	ADJUST MANHOLE - NESSWD ()	EACH	40.00	\$ _____	\$ _____
44	ADJUST MANHOLE - SPWSD ()	EACH	92.00	\$ _____	\$ _____
45	ADJUST CATCH BASIN (3100)	EACH	130.00	\$ _____	\$ _____
46	ADJUST VALVE BOX - NESSWD ()	EACH	26.00	\$ _____	\$ _____
47	ADJUST VALVE BOX - SPWSD ()	EACH	108.00	\$ _____	\$ _____
48	ADJUST METER BOX - SPWSD ()	EACH	6.00	\$ _____	\$ _____
49	MINOR CHANGE (7728)	CALC	2.00	\$ <u>15,000.00</u>	\$ <u>15,000.00</u>
50	TEMPORARY PAVEMENT MARKINGS ()	L.F.	5760.00	\$ _____	\$ _____
51	REPLACE SPEED HUMP ()	EACH	4.00	\$ _____	\$ _____

PROPOSAL – Continued

Print Contractor Name

Item No.	Item With Unit Priced Bid	Unit	Approx. Quantity	Unit Price	Amount
52	SPEED HUMP MARKING ()	EACH	4.00	\$ _____	\$ _____
53	SPCC PLAN (7736)	L.S.	0.00	\$ _____	\$ _____
54	REMOVE AND REPLACE CEMENT CONC. SIDEWALK ()	L.F.	2005.00	\$ _____	\$ _____
55	REMOVE AND REPLACE CEMENT CONC. CURB AND GUTTER ()	L.F.	1466.00	\$ _____	\$ _____
56	ADA PARALLEL RAMP ALTERATION ()	L.F.	5220.00	\$ _____	\$ _____
57	MAINTAIN IRRIGATION ()	EACH	196.00	\$ _____	\$ _____
58	REPLACE INDUCTION LOOP VEHICLE DETECTOR ()	EACH	5.00	\$ _____	\$ _____

TOTAL CONSTRUCTION COST \$ _____

**Note: Contractor is advised to be familiar with Washington State Revenue Rule 171 as no separate, distinct sales tax monies will be reimbursed to the Contractor. See Special Provisions 1-07.2(1).*

BID SECURITY FORM

Herewith find deposit in the form of a certified check, cashier's check, cash, or bid bond in the amount of \$_____ which amount is not less than five percent of the total bid.

Sign here _____

Know All Men by These Presents:

That we, _____, as Principal, and _____ as Surety, are held and firmly bound unto the City of Sammamish, as Obligee, in the penal sum of _____ Dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for _____ according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS _____ DAY OF _____, 20_____

Principal

Surety

Received return of deposit in the sum of \$_____

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA

By signing below, Bidder acknowledges receipt and understanding of the following Addenda to the Contract Documents:

Addendum No.	Date of Receipt	Signature
1		
2		
3		
4		
5		
6		

NOTE:

Failure to acknowledge receipt of Addenda may be considered as an irregularity in the Bid Proposal and the City reserves the right to determine whether the Bid will be disqualified.

BIDDER INFORMATION AND SIGNATURE

The Bidder proposes to accept as full payment for the Work proposed herein, the amount computed under the provisions of the Contract Provisions. The undersigned Bids for the following described Project:

2016 PAVEMENT PROGRAM - OVERLAYS

The party by whom this Bid is submitted and by whom the Contract will be entered into, in the event the award is made to this party, is:

Contractor (Firm Name)

Signature

Address

Name (Print) & Title

Phone Number

Date of Signing

Contractor's Washington State
License Number

(Indicate whether contractor is
partnership, joint venture, corporation, or
sole proprietorship)*

*If Bidder is a corporation, write State of Incorporation under signature. If partnership, give full names of all partners.

The name of the President, Treasurer, and/or Manager of the Bidding corporation, or the names of all persons and parties interested in this Bid as partners or principals, are as follows:

Name	Address

PROPOSAL – Continued

Print Contractor Name

IF SOLE PROPRIETOR OR PARTNERSHIP

IN WITNESS hereto, the undersigned has set his (its) hand this _____ day of _____,
20____.

Signature of Bidder

Title

IF CORPORATION

IN WITNESS WHEREOF, the undersigned corporation has caused this instrument to be
executed by its duly authorized officers this _____ day of _____,
20____.

Attest:

Name of Corporation

Secretary

by _____

Title

Sworn to me before me this _____ day of _____,
20____.

Notary Public in and for the State of
Washington Residing at

NOTES:

If the Bidder is a co-partnership, give firm name under which business is transacted;
Proposal must be executed by a partner. If the Bidder is a corporation, Proposal must
be executed in the corporate name by the president or vice-president (or any other
corporate officer accompanied by evidence of authority to sign).

NON-COLLUSION AND DEBARMENT AFFIDAVIT

* STATE OF WASHINGTON)
)
** COUNTY OF _____)

I, the undersigned, an authorized representative of ***_____, being first duly sworn on oath do hereby certify that said person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

I further certify that, except as noted below, the firm, association or corporation or any person in a controlling capacity associated therewith or any position involving the administration of federal funds; is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past 3 years; does not have a proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against said person, firm, association or corporation by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

I further acknowledge that by signing the signature page of the proposal, I am deemed to have signed and have agreed to the provisions of this affidavit.

Name of Project

Name of Bidder's Firm

Signature of Authorized Representative of Bidder

Printed Name of Authorized Representative of Bidder

Date

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated _____

Notary Public in and for the State
of Washington residing at _____
Notary (print): _____
My appointment expires: _____

NOTE:

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, indicate above to whom it applies, initiating agency, and dates of action. Providing false information may result in criminal prosecution or administrative sanctions.

- * A suspending or debaring official may grant an exception permitting a debarred, suspended, or excluded person to participate in a particular transaction upon a written determination by such official stating the reason(s) for deviating from the Presidential policy established by Executive order 12549... (49 CFR Part 29 Section 29.215).
- * If notarization of proposal takes place outside of Washington State, DELETE WASHINGTON, and enter appropriate State.
- ** Fill in county where notarization of proposal takes place.

SUBCONTRACTOR LIST

RCW 39.30-060 requires that for all public works contracts expected to cost \$1,000,000 or more, the bidder shall submit the names of all subcontractors performing HVAC and/or electrical work. If the subcontractors' names are not submitted with the bid, or within one hour of the bid, the bid shall be considered non-responsive and, therefore, void. (Check Appropriate Box)
Complete one of the following for contracts that exceed \$1,000,000:

There are no subcontractors proposed whose subcontract amount exceeds 10 percent of the contract price.

The following subcontractor(s) subcontract amount exceeds 10 percent of the contract price: (list subcontractor and bid item)

Work to be Performed _____
Subcontractor Name _____
Address _____
Phone No. _____ State Contractor's License No _____

Work to be Performed _____
Subcontractor Name _____
Address _____
Phone No. _____ State Contractor's License No _____

Work to be Performed _____
Subcontractor Name _____
Address _____
Phone No. _____ State Contractor's License No _____

Work to be Performed _____
Subcontractor Name _____
Address _____
Phone No. _____ State Contractor's License No _____

STATEMENT OF BIDDER'S QUALIFICATIONS

Name of Firm: _____

Address: _____

Telephone No. _____

Contact Person for this Project: _____

Number of years the Contractor has been engaged in the construction business under the present firm name, as indicated above: _____

Gross dollar amount of work currently under contract: _____

Gross dollar amount of contracts currently not completed: _____

General character of work performed by the firm: _____

List all of the projects over one million dollars total of a similar nature which have been completed by the Contractor within the last five (5) years and the gross dollar amount of each project, together with the Owner's name and phone number, and the Engineer's name.

Project Name	Amount	Owner	Phone	Engineer's Name

PROPOSAL – Continued

 Print Contractor Name

List five major pieces of equipment which are anticipated to be used on this project by the Contractor and note which items are owned by the Contractor and which are to be leased or rented from others:

1. _____
2. _____
3. _____
4. _____
5. _____

Bank Reference: _____

How many general superintendents or other responsible employees in a supervisory position do you have at this time, and how long have they been with the firm?

Identify who will be the general superintendent or project superintendent on this Project and list the number of years with the firm.

Have you changed bonding company within the last three (3) years? _____

If so, why? _____

Have you ever been sued or engaged in arbitration by the Owner or have you ever sued or demanded arbitration from an Owner on any public works contract for a special utility district, private utility company, municipality, county or state

government? _____ For what reason? _____

Disposition of case, if settled: _____

Do you have any outstanding payments due to the Department of Revenue? _____

If yes, explain: _____

Bidder agrees that the Owner shall retain the right to obtain any and all credit reports.

Yes: _____ No _____

RESPONSIBLE BIDDER CRITERIA

In accordance with RCW 39.04, before award of a Public Works Contract, a Bidder must meet the following responsibility criteria to be considered a responsible Bidder and qualified to be awarded a Public Works Project. The Bidder must:

1. At the time of Bid submittal, have a certificate of registration in compliance with chapter 18.27 RCW
2. Have a current state unified business identifier (UBI) number
3. If applicable, have industrial insurance coverage for the Bidder’s employees working Washington as required in Title 51 RCW
4. If applicable, have an employment security department number as required in Title 50 RCW
5. If applicable, have a state excise tax registration number as required in Title 82 RCW
6. Not be disqualified from Bidding on any Public Works Contract under RCW 39.06.010 or 39.12.065(3)

In accordance with RCW 39.06, a Public Works Contractor must verify responsibility criteria for each first tier Subcontractor, and a Subcontractor of any tier that hires other Subcontractors must verify responsibility criteria for each of its Subcontractors, Verification shall include that each Subcontractor, at the time of Subcontract execution, meets the responsibility criteria and possesses an electrical contractor license, if required by RCW 19.28, or an elevator contractor license, if required by RCW 70.87. This verification requirement, as well as the responsibility criteria, must include every Public Works Contract and subcontract of every tier.

Providing the following information is **MANDATORY** in order to meet “Responsible Bidder” requirements. Failure to provide this information may disqualify your Bid as being “**Non-Responsive**”. *If your business is not required to have one of the following numbers, provide an explanation.*

1. State of Washington Contractor Registration No. _____
2. State of Washington Unified Business Identifier No. _____
3. Employment Security Department No. _____
4. State Excise Tax Registration No. _____
5. Is the payment of Worker’s Compensation (Industrial Insurance) Premiums current? If your business does not have a Worker’s Comp account with the WA State Dept. of Labor & Industry please explain why.
 Yes
 No (If No, you are not eligible to bid on this project
 No Account – Explain why: _____
6. Are you disqualified from Bidding on Public Works Projects in the State of Washington?
 Yes (If Yes, you are not eligible to Bid on this Project)
 No

PART 3

CONTRACT DOCUMENT FORMS

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 20____. by and between THE CITY OF SAMMAMISH, Washington, a municipal corporation of the State of Washington, hereinafter referred to as "CITY" and _____, hereinafter referred to as "CONTRACTOR."

WITNESSETH:

- 1) The Contractor shall within the time stipulated, (to-wit: within _____ working days from date of commencement hereof as required by the Contract, of which this agreement is a component part) perform all the work and services required to be performed, and provide and furnish all of the labor, materials, appliances, machines, tools, equipment, utility and transportation services necessary to perform the Contract, and shall complete the construction and installation work in a workmanlike manner, in connection with the City's Project, *2016 PAVEMENT PROGRAM - OVERLAYS* for improvement by construction and installation of: *(include description of project)* and other work, all in accordance with the attached Contract Plans, Special Provisions, and Standard Specifications.

All the foregoing shall be timely performed, furnished, constructed, installed and completed in strict conformity with the plans **and** specifications, including any and all addenda issued by the City and all other documents hereinafter enumerated, and in full compliance with all applicable codes, ordinances and regulations of the City of Sammamish and any other governmental authority having jurisdiction thereover. It is further agreed and stipulated that all of said labor, materials, appliances, machines, tools, equipment and services shall be furnished and the construction installation performed and completed to the satisfaction and the approval of the City's Public Works Director as being in such conformity with the plans, specifications and all requirements of or arising under the Contract.

- 2) The aforesaid Contract, entered into by the acceptance of the Contractor's bid and signing of this agreement, consists of the following documents, all of which are component parts of said Contract and as fully a part thereof as if herein set out in full, and if not attached, as if hereto attached.
 - a) This Agreement
 - b) Instruction to Bidders
 - c) Project Proposal
 - d) Specifications
 - e) Maps and Plans
 - f) Bid
 - g) Advertisement for Bids
 - h) Special Provisions, if any
 - i) Addenda, if anyand all modifications or changes issued pursuant to the Contract Documents.

CONTRACT DOCUMENT FORMS – Continued

- 3) If the Contractor refuses or fails to prosecute the work or any part thereof, with such diligence as will insure its completion within the time specified in this Contract, or any extension in writing thereof, or fails to complete said work with such time, or if the Contractor shall be adjudged a bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver shall be appointed on account of the Contractor's insolvency, or if he or any of his subcontractors should violate any of the provisions of this Contract, the City may then serve written notice upon him and his surety of its intention to terminate the Contract, and unless within ten (10) days after the serving of such violation or non-compliance of any provision of the Contract shall cease and satisfactory arrangement for the correction thereof be made, this Contract, shall, upon the expiration of said ten (10) day period, cease and terminate in every respect. In the event of any such termination, the City shall immediately serve written notice thereof upon the surety and the Contractor and the surety shall have the right to take over and perform the Contract, provided, however, that if the surety within fifteen (15) days after the serving upon it of such notice of termination does not perform the Contract or does not commence performance thereof within thirty (30) days from the date of serving such notice, the City itself may take over the work under the Contract and prosecute the same to completion by Contract or by any other method it may deem advisable, for the account and at the expense of the Contractor, and his surety shall be liable to the City for any excess cost or other damages occasioned the City thereby. In such event, the City, if it so elects, may, without liability for so doing, take possession of and utilize in completing said Contract such materials, machinery, appliances, equipment, plants and other properties belonging to the Contractor as may be on site of the project and useful therein.
 - 4) The foregoing provisions are in addition to and not in limitation of any other rights or remedies available to the City.
 - 5) Contractor agrees and covenants to hold and save the City, its officers, agents, representatives and employees harmless and to promptly indemnify same from and against any and all claims, actions, damages, liability of every type and nature including all costs and legal expenses incurred by reason of any work arising under or in connection with the Contract to be performed hereunder, including loss of life, personal injury and/or damage to property arising from or out of any occurrence, omission or activity upon, on or about the premises worked upon or in any way relating to this Contract. This hold harmless and indemnification provision shall likewise apply for or on account of any patented or unpatented invention, process, article or appliance manufactured for use in the performance of the Contract, including its use by the City, unless otherwise specifically provided for in this Contract.
- In the event the City shall, without fault on its part, be made a party to any litigation commenced by or against Contractor, then Contractor shall proceed and hold the City harmless and he shall pay all costs, expenses and reasonable attorney's fees incurred or paid by the City in connection with such litigation. Furthermore, Contractor agrees to pay all costs, expenses and reasonable attorney's fees that may be incurred or paid by City in the enforcement of any of the covenants, provisions and agreements hereunder.
- 6) Any notice from one party to the other party under the Contract shall be in writing and shall be dated and signed by the party giving such notice or by its duly authorized representative of such party. Any such notice as heretofore specified shall be given by personal delivery thereof or by depositing same in the United States mail, postage prepaid, certified or registered mail.

CONTRACT DOCUMENT FORMS – Continued

- 7) The Contractor shall commence performance of the Contract no later than 10 calendar days after Contract final execution, and shall complete the full performance of the Contract not later than 80 working days from the date of commencement. For each and every working day of delay after the established day of completion, it is hereby stipulated and agreed that the damages to the City occasioned by said delay shall be a sum calculated and imposed in compliance with 2012 WSDOT Standard Specifications, Section 1-08.9, Liquidated Damages (and not as a penalty) for each such day, which shall be paid by the Contractor to the City.
- 8) Neither the final certificate of payment nor any provision in the Contract nor partial or entire use of any installation provided for by this Contract shall relieve the Contractor of liability in respect to any warranties or responsibility for faulty materials or workmanship. The Contractor shall be under the duty to remedy any defects in the work and pay for any damage to other work resulting therefrom which shall appear within the period of one (1) year from the date of final acceptance only that work listed in Group(s) none of the Summary of quantities in the Contract Plans, i.e. the "Federal Non-participating Items," unless a longer period is specified. However, all manufacturer's warranties or guarantees on electrical and mechanical equipment, consistent with those provided as customary trade practice, shall be assigned to the City at the time of project acceptance. The Contractor shall further be required to supply warranties or guarantees providing for satisfactory in-service operation of any mechanical and electrical equipment and related components involved in Group(s) none of the Summary of Quantities in the Contract Plans, i.e. "Federal Participating Items" for a period not to exceed 6 months following project acceptance. The City will give notice of observed defects as heretofore specified with reasonable promptness after discovery thereof, and Contractor shall be obligated to take immediate steps to correct and remedy any such defect, fault or breach at the sole cost and expense of Contractor.
- 9) The Contractor and each subcontractor, if any, shall submit to the City such schedules of quantities and costs, progress schedules, payrolls, reports, estimates, records and miscellaneous data pertaining to the Contract as may be requested by the City from time to time.
- 10) The Contractor shall furnish a surety bond or bonds as security for the faithful performance of the Contract, including the payment of all persons and firms performing labor on the construction project under this Contract or furnishing materials in connection with this Contract; said bond to be in the full amount of the Contract price as specified in Paragraph 11. The surety or sureties on such bond or bonds must be duly licensed as a surety in the State of Washington.
- 11) The total amount of this contract is the sum of _____
numbers

_____ written words

which includes any required Washington State Sales Tax. Payments will be made to Contractor as specified in the "Standard Specifications" of this Contract.

CONTRACT DOCUMENT FORMS – Continued

IN WITNESS WHEREOF, the City has caused these presents to be signed by its City Manager and attested by its City Attorney and the Contractor has hereunto set his hand and seal the day and year first above-written.

CONTRACTOR

CITY OF SAMMAMISH

President/Partner/Owner

City Manager

ATTEST

Secretary

City Attorney

dba

Firm Name

check one

Individual Partnership Corporation Incorporated in _____

Attention:

If business is a CORPORATION, name of the corporation should be listed in full and both President and Secretary must sign the contract, OR if one signature is permitted by corporation by-laws, a copy of the by-laws shall be furnished to the City and made a part of the contract document.

If business is a PARTNERSHIP, full name of each partner should be listed followed by d/b/a (doing business as) and firm or trade name; any one partner may sign the contract.

If business is an INDIVIDUAL PROPRIETORSHIP, the name of the owner should appear followed by d/b/a and name of the company.

CONTRACT DOCUMENT FORMS – Continued

CONTRACTOR'S RETAINAGE AGREEMENT

IDENTIFICATION AND DESCRIPTION

Project Title: 2016 PAVEMENT PROGRAM - OVERLAYS

Contractor: _____

Representative: _____

Bid Date: _____ City Clerk: _____

City Council Award Date: _____

CONTRACTOR'S INSTRUCTIONS

Pursuant to R.C.W. 60.28.01 0 I hereby notify the City of Sammamish of my instructions to invest not to invest the retainage withheld under the terms of this contract.

Type of Investment: _____

RETAINAGE FORMULA

In accordance with applicable State Statutes, the following provisions will be made for the disposition of the retainage held for investment:

1. All investments selected are subject to City approval.
2. Retainage under this agreement will be held in escrow by the _____, the terms of which are specified by separate escrow agreement. The cost of the investment program is to be borne entirely by the contractor.
3. The final disposition of the contract retainage will be made in accordance with applicable statutes.

Contractor: _____ Date: _____

Firm Name

By: _____

Signature

Title

Address: _____

Phone: _____ Federal ID # _____

Estimated Completion Date: _____

CITY APPROVAL

Approval of Investment Program and Retainage Agreement

Finance Department Date

CONTRACT DOCUMENT FORMS – Continued

LABOR AND MATERIAL PAYMENT BOND

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We _____ as Principal, and
_____ as Surety, jointly and
severally bind ourselves, our heirs, successors and assigns as set forth herein to CITY OF
SAMMAMISH (hereinafter called the Owner) for payment of the penal sum of

_____ Dollars (\$ _____),
lawful money of the United States in connection with the owner’s award to the Contractor of
the contract for construction (“Contract”) of the following project:

2016 PAVEMENT PROGRAM - OVERLAYS

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Contractor shall in all respects
faithfully perform all obligations and provisions in the said Contract, and pay all laborers,
mechanics, and subcontractors and materialmen, taxing authorizes and all persons who
supply such person or persons or subcontractors with material, equipment and supplies for
the carrying on of such work, this obligation shall become null and void; otherwise, it shall
remain in full force and effect, and Surety shall defend and indemnify Owner against any loss
or damage due to the failure of the Principal to strictly perform all obligations of the Contract.

This bond shall be in force until completion of the Project and acceptance by the Owner, and
also for such period thereafter during which the law allows claims to be filed and sued upon.

This bond is provided pursuant to and in compliance with R.C.W. Chapter 39.08, the terms
and requirements of which statute are incorporated herein as though fully set forth herein.

Surety agrees that no change, extension of time, modifications or addition to the terms of the
Contract, or the work to be performed thereunder, or to the specifications shall in any way
affect its obligation on this bond, and it hereby waives notice thereof.

The Contractor and Surety agree that if the Owner is required to engage the services of an
attorney in connection with the enforcement of this bond, each shall pay the Owner reasonable
attorney’s fees incurred, with or without suit, in addition to the penal sum.

Surety certifies that it is an authorized surety bond issuer, properly authorized to transact
surety business in Washington. Surety agrees to be bound by the laws of the State of
Washington and subject itself to the jurisdiction of the courts of the State of Washington.

CONTRACT DOCUMENT FORMS – Continued

1 Executed in four original counterparts on _____, 20____

2 _____

3 CONTRACTOR

4 _____

5 By _____

6 _____

7 (Title)

8

9 (Attach acknowledgment of authorized representative of Contractor).

10

11 _____ (Name and Address of Surety)

12 _____

13 _____

14 _____ (Name and Address of Surety's agent for service of
15 process in Washington if different from above)

16 _____
17 (Telephone No. of Surety's Washington agent)

18

19 (Attach acknowledgment)

20 _____ Surety

21 By _____

22 Its Attorney-in-fact

23

24

25 *Notice: Sureties must be authorized to conduct surety business in Washington and have an*
26 *agent for service of process in Washington. Certified copy of Power of Attorney must be*
27 *attached.*

28

CONTRACT DOCUMENT FORMS – Continued

1 **PERFORMANCE BOND TO THE CITY OF SAMMAMISH**

2 We, the undersigned _____ as
3 principal, and _____ corporation organized and
4 existing under the laws of the State of _____ as a surety corporation,
5 and qualified under the laws of the State of Washington to become surety upon bonds of
6 contractors with municipal corporations, as surety are jointly and severally held and
7 firmly bound to the City of Sammamish in the penal sum of \$ _____ for
8 the payment of which sum on demand we bind ourselves and our successors, heirs,
9 administrators or person representatives, as the case may be.

10 This obligation is entered into in pursuance of the statutes of the State of Washington, the
11 Ordinance of the City of Sammamish.

12 Dated at _____, Washington, this _____ day of _____, 20__.

13 Nevertheless, the conditions of the above obligation are such that:

14 WHEREAS, under and pursuant to Public Works Construction Contract _____
15 providing for construction of **2016 PAVEMENT PROGRAM - OVERLAYS** the principal is required
16 to furnish a bond for the faithful performance of the contract; and
17 WHEREAS, the principal has accepted, or is about to accept, the contract, and undertake to
18 perform the work therein provided for in the manner and within the time set forth;

19 NOW, THEREFORE, if the said _____
20 shall faithfully perform all of the provisions of said contract in the manner and within the time
21 therein set forth, or within such extensions of time as may be granted under said contract, and
22 shall pay all laborers, mechanics, subcontractors and material-men, and all persons who shall
23 supply said principal or subcontractors with provisions and supplies for the carrying on of said
24 work, and shall hold said City of Sammamish harmless from any loss or damage occasioned
25 to any person or property by reason of any carelessness or negligence on the part of said
26 principal, or any subcontractor in the performance of said work, and shall indemnify and hold
27 the City of Sammamish harmless from any damage or expense by reason of failure of
28 performance as specified in said contract or from defects appearing or developing in the
29 operation of any mechanical or electrical equipment and related components provided under
30 such contract within a period of (2) two years a after its acceptance thereof by the City of
31 Sammamish, then his obligation shall become null and void, otherwise it shall be and remain
32 in full force. Customary trade warranties or guarantees on electrical and mechanical
33 equipment shall be assigned to the City of Sammamish.

Principal

Surety

Signature

Signature

Title

Title

34

CONTRACT DOCUMENT FORMS – Continued

**APPENDICES
(July 12, 1999)**

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

APPENDIX A:
Prevailing Wage Rates

APPENDIX A

Prevailing Wage Rates

CONTRACT DOCUMENT FORMS – Continued

Washington State Prevailing Wage Rates for Public Works Contracts

Department of Labor and Industries wage rates can be found at the following website address:

- <https://fortress.wa.gov/lni/wagelookup/prvwagelookup.aspx>

Based upon the submittal deadline for this project the wage publication effective date to use is:

- **April 7th 2016**

The county in which the public works project is located is:

- **King County**

A copy of this wage rate is available for viewing in our office located at:

- City of Sammamish Public Works Department
801 228th Ave SE
Sammamish, WA 98075

The City will mail or e-mail a copy of the applicable wage publication upon request:

- **To request a copy via e-mail please e-mail your request to**

Derya Dilmen at ddilmen@sammamish.us

- **To request a copy via mail please call (425) 295-0574**

CONTENTS

1
2
3
4
5 INTRODUCTION----- 1
6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**
7 Section 1-01, Definitions and Terms ----- 1
8 Section 1-02, Bid Procedures and Conditions----- 1
9 Section 1-03, Award and Execution of Contract ----- 2
10 Section 1-04, Scope of the Work ----- 2
11 Section 1-05, Control of Work ----- 6
12 Section 1-07, Legal Relations and Responsibilities to the Public----- 8
13 Section 1-08, Prosecution and Progress ----- 9
14 Section 1-09, Measurement and Payment ----- 10
15 Section 1-10, Temporary Traffic Control ----- 10
16 Section 2-01, Clearing, Grubbing, and Roadside Cleanup----- 14
17 Section 2-02, Removal of Structures and Obstructions ----- 14
18 Section 2-03, Roadway Excavation and Embankment----- 16
19 Section 2-09, Structure Excavation ----- 16
20 Section 2-12, Construction Geosynthetic----- 16
21 Section 3-04, Acceptance of Aggregate----- 17
22 Section 5-01, Cement Concrete Pavement Rehabilitation ----- 17
23 Section 5-02, Bituminous Surface Treatment----- 17
24 Section 5-04, Hot Mix Asphalt----- 17
25 Section 5-05, Cement Concrete Pavement ----- 24
26 Section 6-01, General Requirements for Structures ----- 24
27 Section 6-02, Concrete Structures ----- 25
28 Section 6-03, Steel Structures ----- 43
29 Section 6-04, Timber Structures ----- 48
30 Section 6-05, Piling ----- 48
31 Section 6-06, Bridge Railings----- 51
32 Section 6-07, Painting----- 51
33 Section 6-09, Modified Concrete Overlays ----- 57
34 Section 6-10, Concrete Barrier----- 61

1	Section 6-11, Reinforced Concrete Walls-----	62
2	Section 6-12, Noise Barrier Walls -----	62
3	Section 6-13, Structural Earth Walls -----	64
4	Section 6-14, Geosynthetic Retaining Walls-----	65
5	Section 6-15, Soil Nail Walls-----	66
6	Section 6-16, Soldier Pile and Soldier Pile Tieback Walls -----	67
7	Section 6-17, Permanent Ground Anchors-----	68
8	Section 6-18, Shotcrete Facing -----	70
9	Section 6-19, Shafts -----	70
10	Section 8-01, Erosion Control and Water Pollution Control -----	73
11	Section 8-02, Roadside Restoration -----	78
12	Section 8-04, Curbs, Gutters, and Spillways -----	81
13	Section 8-09, Raised Pavement Markers-----	81
14	Section 8-11, Guardrail -----	81
15	Section 8-18, Mailbox Support -----	82
16	Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and	
17	Electrical -----	82
18	Section 8-22, Pavement Marking-----	84
19	Section 8-23, Temporary Pavement Markings-----	84
20	Section 9-01, Portland Cement -----	87
21	Section 9-03, Aggregates -----	88
22	Section 9-04, Joint and Crack Sealing Materials -----	90
23	Section 9-05, Drainage Structures and Culverts-----	91
24	Section 9-06, Structural Steel and Related Materials-----	91
25	Section 9-07, Reinforcing Steel-----	91
26	Section 9-08, Paints and Related Materials-----	91
27	Section 9-09, Timber and Lumber-----	92
28	Section 9-10, Piling -----	92
29	Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion and Scour	
30	Protection and Rock Walls-----	93
31	Section 9-14, Erosion Control and Roadside Planting -----	95
32	Section 9-15, Irrigation System -----	97
33	Section 9-16, Fence and Guardrail -----	97
34	Section 9-29, Illumination, Signal, Electrical -----	97
35	Section 9-31, Elastomeric Bearing Pads -----	99

1	Section 9-32, Mailbox Support -----	100
2	Section 9-34, Pavement Marking Material -----	100
3	Section 9-35, Temporary Traffic Control Materials-----	101
4		

1 **INTRODUCTION**

2 The following Amendments and Special Provisions shall be used in conjunction with the
3 2014 Standard Specifications for Road, Bridge, and Municipal Construction.
4

5 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**
6

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

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

15 **Section 1-01, Definitions and Terms**
16 **August 4, 2014**

17 **1-01.3 Definitions**

18 The definition for “**Engineer**” is revised to read:
19

20 The Contracting Agency’s representative who directly supervises the engineering and
21 administration of a construction Contract.
22

23 The definition for “**Inspector**” is revised to read:
24

25 The Engineer’s representative who inspects Contract performance in detail.
26

27 The definition for “**Project Engineer**” is revised to read:
28

29 Same as Engineer.
30

31 The definition for “**Working Drawings**” is revised to read:
32

33 Drawings, plans, diagrams, or any other supplementary data or calculations, including a
34 schedule of submittal dates for Working Drawings where specified, which the Contractor
35 must submit to the Engineer.
36

37 **Section 1-02, Bid Procedures and Conditions**
38 **April 7, 2014**

39 **1-02.8(1) Noncollusion Declaration**

40 The third paragraph is revised to read:
41

42 Therefore, by including the Non-collusion Declaration as part of the signed bid Proposal,
43 the Bidder is deemed to have certified and agreed to the requirements of the
44 Declaration.
45

1 **Section 1-03, Award and Execution of Contract**
2 **January 5, 2015**

3 **1-03.3 Execution of Contract**

4 The first paragraph is revised to read:

5

6 Within 20 calendar days after the Award date, the successful Bidder shall return the
7 signed Contracting Agency-prepared Contract, an insurance certification as required by
8 Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4, and
9 shall be registered as a contractor in the state of Washington.

10

11 **1-03.4 Contract Bond**

12 The last word of item 3 is deleted.

13

14 Item 4 is renumbered to 5.

15

16 The following is inserted after item 3 (after the preceding Amendments are applied):

17

18 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
19 project under titles 50, 51, and 82 RCW; and

20

21 **1-03.5 Failure to Execute Contract**

22 The first sentence is revised to read:

23

24 Failure to return the insurance certification and bond with the signed Contract as
25 required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's
26 Business Enterprise information if required in the Contract, or failure or refusal to sign
27 the Contract, or failure to register as a contractor in the state of Washington shall result
28 in forfeiture of the proposal bond or deposit of this Bidder.

29

30 **Section 1-04, Scope of the Work**

31 **August 4, 2014**

32 **1-04.4 Changes**

33 In the third paragraph, item number 1 and 2 are revised to read:

34

35 A. When the character of the Work as altered differs materially in kind or nature from
36 that involved or included in the original proposed construction; or

37

38 B. When an item of Work, as defined elsewhere in the Contract, is increased in excess
39 of 125 percent or decreased below 75 percent of the original Contract quantity. For
40 the purpose of this Section, an item of Work will be defined as any item that qualifies
41 for adjustment under the provisions of Section 1-04.6.

42

43 The last two paragraphs are deleted.

44

45 This section is supplemented with the following new subsections:

46

1 **1-04.4(2) Value Engineering Change Proposal (VECP)**

2
3 **1-04.4(2)A General**

4 A VECP is a Contractor proposed change to the Contract Provisions which will
5 accomplish the projects functional requirements in a manner that is equal to or
6 better than the requirements in the Contract. The VECP may be: (1) at a less cost
7 or time, or (2) either no cost savings or a minor increase in cost with a reduction in
8 Contract time. The net savings or added costs to the Contract Work are shared by
9 the Contractor and Contracting Agency.

10
11 The Contractor may submit a VECP for changing the Plans, Specifications, or other
12 requirements of the Contract. The Engineer's decision to accept or reject all or part
13 of the proposal is final and not subject to arbitration under the arbitration clause or
14 otherwise subject to litigation.

15
16 The VECP shall meet all of the following:

- 17
18 1. Not adversely affect the long term life cycle costs.
19
20 2. Not adversely impact the ability to perform maintenance.
21
22 3. Provide the required safety and appearance.
23
24 4. Provide substitution for deleted or reduced Disadvantaged Business
25 Enterprise Condition of Award Work, Apprentice Utilization and Training.

26
27 VECPs that provide a time reduction shall meet the following requirements:

- 28
29 1. Time saving is a direct result of the VECP.
30
31 2. Liquidated damages penalties are not used to calculate savings.
32
33 3. Administrative/overhead cost savings experienced by either the Contractor
34 or Contracting Agency as a result of time reduction accrue to each party
35 and are not used to calculate savings.

36
37 **1-04.4(2)B VECP Savings**

38
39 **1-04.4(2)B1 Proposal Savings**

40 The incentive payment to the Contractor shall be one-half of the net savings of
41 the proposal calculated as follows:

- 42
43 1. (gross cost of deleted work) – (gross cost of added work) = (gross
44 savings)
45
46 2. (gross savings) – (Contractor's engineering costs) – (Contracting
47 Agency's costs) = (net savings)
48
49 3. (net savings) / 2 = (incentive pay)
50

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The Contracting Agency's costs shall be the actual consultant costs billed to the Contracting Agency and in-house costs. Costs for personnel assigned to the Engineer's office shall not be included.

1-04.4(2)B2 Added Costs to Achieve Time Savings

The cost to achieve the time savings shall be calculated as follows:

1. $(\text{cost of added work}) + (\text{Contractor's engineering costs} - \text{Contracting Agency's engineering costs}) = (\text{cost to achieve time savings})$
2. $(\text{cost to achieve time savings}) / 2 = (\text{Contracting Agency's share of added cost})$

If the timesaving proposal also involves deleting work and, as a result, creates a savings for the Contracting Agency, then the Contractor shall also receive one-half of the savings realized through the deletion.

1-04.4(2)C VECP Approval

1-04.4(2)C1 Concept Approval

The Contractor shall submit a written proposal to the Engineer for consideration. The proposal shall contain the following information:

1. An explanation outlining the benefit provided by the change(s).
2. A narrative description of the proposed change(s). If applicable, the discussion shall include a demonstration of functional equivalency or a description of how the proposal meets the original contract scope of work.
3. A cost discussion estimating any net savings. Savings estimates will generally follow the outline below under the section, "Proposal Savings".
4. A statement providing the Contracting Agency with the right to use all or any part of the proposal on future projects without future obligation or compensation.
5. A statement acknowledging and agreeing that the Engineer's decision to accept or reject all or part of the proposal is final and not subject to arbitration under the arbitration clause or otherwise be subject to claims or disputes.
6. A statement giving the dates the Engineer must make a decision to accept or reject the conceptual proposal, the date that approval to proceed must be received, and the date the work must begin in order to not delay the contract. If the Contracting Agency does not approve the VECP by the date specified by the Contractor in their proposal the VECP will be deemed rejected.

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7. The submittal will include an analysis on other Work that may have costs that changed as a result of the VECP. Traffic control and erosion control shall both be included in addition to any other impacted Work.

After review of the proposal, the Engineer will respond in writing with acceptance or rejection of the concept. This acceptance shall not be construed as authority to proceed with any change contract work. Concept approval allows the Contractor to proceed with the Work needed to develop final plans and other information to receive formal approval and to support preparation of a change order.

1-04.4(2)C2 Formal Approval

The Contractor's submittal to the Engineer for formal approval shall include the following:

1. Deleted Work – Include the calculated quantities of unit price Work to be deleted. Include the proposed partial prices for portions of lump sum Work deleted. For deletion of force account items include the time and material estimates.
2. Added Work – Include the calculated quantities of unit price Work to be added, either by original unit Contract prices or by new, negotiated unit prices. For new items of Work include the quantities and proposed prices.
3. Contractor's Engineering Costs – Submit the labor costs for the engineering to develop the proposal; costs for Contractor employees utilized in contract operations on a regular basis shall not be included.
4. Schedule Analysis – If the VECP is related to time savings, the Contractor shall submit a partial progress schedule showing the changed Work. The submittal shall also include a discussion comparing the partial progress schedule with the approved progress schedule for the project.
5. Working Drawings – Type 3 Working Drawings shall be submitted; those drawings which require engineering shall be a Type 3E.

Formal approval of the proposal will be documented by issuance of a change order. The VECP change order will contain the following statements which the Contractor agrees to by signing the change order:

1. The Contractor accepts design risk of all features, both temporary and permanent, of the changed Work.
2. The Contractor accepts risk of constructability of the changed Work.
3. The Contractor provides the Contracting Agency with the right to use all or any part of the proposal on future projects without further obligation or compensation.

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VECP change orders will contain separate pay items for the items that are applicable to the Proposal. These are as follows:

1. Deleted Work.
2. Added Work.
3. The Contractor’s engineering costs, reimbursed at 100 percent of the Contractor’s cost.
4. Incentive payment to the Contractor.

When added Work costs exceed Deleted Work costs, but time savings make a viable proposal, then items 3 and 4 above are replaced with the following:

3. The Contracting Agency’s share of added cost to achieve time savings.
4. The Contractor’s share of savings from deleted Work.

1-04.4(2)C3 Authority to Proceed with Changed Work

The authority for the Contractor to proceed with the VECP Work will be provided by one of the following options:

1. Execution of the VECP change order, or
2. At the Contractor’s request the Contracting Agency may provide approval by letter from the Engineer for the Work to proceed prior to execution of a change order. All of the risk for proceeding with the VECP shall be the responsibility of the Contractor. Additionally, the following criteria are required to have been met:
 - a) Concept approval has been granted by the Contracting Agency.
 - b) All design reviews and approvals have been completed, including plans and specifications.
 - c) The Contractor has guaranteed, in writing, the minimum savings to the Contracting Agency.

**Section 1-05, Control of Work
August 4, 2014**

1-05.1 Authority of the Engineer

In this section, “Project Engineer” is revised to read “Engineer”.

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

The Engineer’s decisions will be final on all questions including the following:

The first sentence in the third paragraph is revised to read:

1 The Engineer represents the Contracting Agency with full authority to enforce Contract
2 requirements.

3
4 **1-05.2 Authority of Assistants and Inspectors**

5 The first paragraph is revised to read:

6
7 The Engineer may appoint assistants and Inspectors to assist in determining that the
8 Work and materials meet the Contract requirements. Assistants and Inspectors have the
9 authority to reject defective material and suspend Work that is being done improperly,
10 subject to the final decisions of the Engineer.

11
12 In the third paragraph, "Project Engineer" is revised to read "Engineer".

13
14 **1-05.3 Plans and Working Drawings**

15 This section's title is revised to read:

16
17 **Working Drawings**

18
19 This section is revised to read:

20
21 The Contract may require the Contractor to submit Working Drawings for the
22 performance of the Work. Working Drawings shall be submitted by the Contractor
23 electronically to the Engineer in PDF format; drawing details shall be prepared in
24 accordance with conventional detailing practices. If the PDF format is found to be
25 unacceptable, at the request of the Engineer, the Contractor shall provide paper copies
26 of the Working Drawings with drawings on 11 by 17 inch sheets and calculations/text on
27 8½ by 11 inch sheets.

28
29 Working Drawings will be classified under the following categories:

- 30
31 1. **Type 1** – Submitted for Contracting Agency information. Submittal must be
32 received by the Contracting Agency a minimum of 7 calendar days before work
33 represented by the submittal begins.
34
35 2. **Type 2** – Submitted for Contracting Agency review and comment. Unless
36 otherwise stated in the Contract, the Engineer will require up to 20 calendar
37 days from the date the Working Drawing is received until it is returned to the
38 Contractor. The Contractor shall not proceed with the Work represented by the
39 Working Drawing until comments from the Engineer have been addressed.
40
41 3. **Type 2E** – Same as a Type 2 Working Drawing with Engineering as described
42 below.
43
44 4. **Type 3** – Submitted for Contracting Agency review and approval. Unless
45 otherwise stated in the Contract, the Engineer will require up to 30 calendar
46 days from the date the Working Drawing is received until it is returned to the
47 Contractor. The Contractor shall obtain the Engineer's written approval before
48 proceeding with the Work represented by the Working Drawing.
49
50 5. **Type 3E** – Same as a Type 3 Working Drawing with Engineering as described
51 below.

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All Working Drawings shall be considered Type 3 Working Drawings except as specifically noted otherwise in the Contract. Unless designated otherwise by the Contractor, submittals of Working Drawings will be reviewed in the order they are received by the Engineer. In the event that several Working Drawings are received simultaneously, the Contractor shall specify the sequence in which they are to be reviewed. If the Contractor does not submit a review sequence for simultaneous Working Drawing submittals, the review sequence will be at the Engineer's discretion.

Working Drawings requiring Engineering, Type 2E and 3E, shall be prepared by (or under the direction of) a Professional Engineer, licensed under Title 18 RCW, State of Washington, and in accordance with WAC 196-23-020. Design calculations shall carry the Professional Engineer's signature and seal, date of signature, and registration number on the cover page. The cover page shall also include the Contract number, Contract title and sequential index to calculation page numbers.

If more than the specified number of days is required for the Engineer's review of any individual Working Drawing or resubmittal, an extension of time will be considered in accordance with Section 1-08.8.

Review or approval of Working Drawings shall neither confer upon the Contracting Agency nor relieve the Contractor of any responsibility for the accuracy of the drawings or their conformity with the Contract. The Contractor shall bear all risk and all costs of any Work delays caused by rejection or nonapproval of Working Drawings.

Unit Bid prices shall cover all costs of Working Drawings.

**Section 1-07, Legal Relations and Responsibilities to the Public
January 5, 2015**

1-07.2 State Taxes

This section is revised to read:

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 Contracting Agency will not adjust its payment if the Contractor bases a Bid on a misunderstood tax liability.

The Contracting Agency may deduct from its payments to the Contractor, retainage or lien the bond, in the amount the Contractor owes the State Department of Revenue, whether the amount owed relates to the Contract in question or not. Any amount so deducted will be paid into the proper State fund on the contractor's behalf. For additional information on tax rates and application refer to applicable RCWs, WACs or the Department of Revenue's website.

1-07.2(1) State Sales Tax: Work Performed on City, County, or Federally-Owned Land

This section including title is revised to read:

1 **1-07.2(1) State Sales Tax: WAC 458-20-171 – Use Tax**
2 For Work designated as Rule 171, **Use Tax**, the Contractor shall include for
3 compensation the amount of any taxes paid in the various unit Bid prices or other
4 Contract amounts. Typically, these taxes are collected on materials incorporated into the
5 project and items such as the purchase or rental of; tools, machinery, equipment, or
6 consumable supplies not integrated into the project.

7
8 The Summary of Quantities in the Contract Plans identifies those parts of the project
9 that are subject to **Use Tax** under Section 1-07.2(1).

10
11 **1-07.2(2) State Sales Tax: Work on State-Owned or Private Land**

12 This section including title is revised to read:

13
14 **1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax**

15 For Work designated as Rule 170, **Retail Sales Tax**, the Contractor shall collect from
16 the Contracting Agency, **Retail Sales Tax** on the full Contract price. The Contracting
17 Agency will automatically add this **Retail Sales Tax** to each payment to the Contractor
18 and for this reason; the Contractor shall not include the **Retail Sales Tax** in the unit Bid
19 prices or in any other Contract amount. However, the Contracting Agency will not
20 provide additional compensation to the Prime Contractor or Subcontractor for **Retail**
21 **Sales Taxes** paid by the Contractor in addition to the **Retail Sales Tax** on the total
22 contract amount. Typically, these taxes are collected on items such as the purchase or
23 rental of; tools, machinery, equipment, or consumable supplies not integrated into the
24 project. Such sales taxes shall be included in the unit Bid prices or in any other Contract
25 amounts.

26
27 The Summary of Quantities in the Contract Plans identifies those parts of the project
28 that are subject to **Retail Sales Tax** under Section 1-07.2(2).

29
30 **1-07.2(3) Services**

31 This section is revised to read:

32
33 Any contract wholly for professional or other applicable services is generally not subject
34 to **Retail Sales Tax** and therefore the Contractor shall not collect **Retail Sales Tax** from
35 the Contracting Agency on those Contracts. Any incidental taxes paid as part of
36 providing the services shall be included in the payments under the contract.

37
38 **1-07.23(1) Construction Under Traffic**

39 In the second paragraph, the following new sentence is inserted after the second sentence:

40
41 Accessibility to existing or temporary pedestrian push buttons shall not be impaired.

42
43 **Section 1-08, Prosecution and Progress**
44 **May 5, 2014**

45 **1-08.1 Subcontracting**

46 The eighth paragraph is revised to read:

47
48 On all projects, the Contractor shall certify to the actual amounts paid to Disadvantaged,
49 Minority, Women's, or Small Business Enterprise firms that were used as
50 Subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service

1 providers on the Contract. This Certification shall be submitted to the Project Engineer
2 on a monthly basis each month between Execution of the Contract and Physical
3 Completion of the contract using the application available at:
4 <https://remoteapps.wsdot.wa.gov/mapsdata/tools/dbeparticipation>. The monthly report is
5 due 20 calendar days following the end of the month. A monthly report shall be
6 submitted for every month between Execution of the Contract and Physical Completion
7 regardless of whether payments were made or work occurred.
8

9 The ninth paragraph is deleted.

10

11 **Section 1-09, Measurement and Payment**
12 **January 5, 2015**

13 **1-09.6 Force Account**

14 In the third paragraph of item number 3, the last sentence is revised to read:

15

16 In the event that prior quotations are not obtained and the vendor is not a firm
17 independent from the Contractor or Subcontractor, then after-the-fact quotations may be
18 obtained by the Engineer from the open market in the vicinity and the lowest such
19 quotation may be used in place of submitted invoice.
20

21 **Section 1-10, Temporary Traffic Control**
22 **August 4, 2014**

23 **1-10.1(1) Materials**

24 The following material reference is deleted from this section:

25

26 Barrier Drums 9-35.8

27

28 **1-10.1(2) Description**

29 The first paragraph is revised to read:

30

31 The Contractor shall provide flaggers, and all other personnel required for labor for
32 traffic control activities and not otherwise specified as being furnished by the
33 Contracting Agency.
34

35 **1-10.2(1) General**

36 In the third paragraph, the first two sentences are revised to read:

37

38 The primary and alternate TCS shall be certified by one of the organizations listed in the
39 Special Provisions. Possession of a current Washington State TCS card and flagging
40 card by the primary and alternate TCS is mandatory.
41

42 **1-10.2(1)B Traffic Control Supervisor**

43 The first paragraph is revised to read:

44

45 A Traffic Control Supervisor (TCS) shall be present on the project whenever flagging or
46 other traffic control labor is being utilized or less frequently, as authorized by the
47 Engineer.
48

49 The last paragraph is revised to read:

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The TCS may perform the Work described in Section 1-10.3(1)A Flaggers or in Section 1-10.3(1)B Other Traffic Control Labor and be compensated under those Bid items, provided that the duties of the TCS are accomplished.

1-10.2(2) Traffic Control Plans

The first paragraph is revised to read:

The traffic control plan or plans appearing in the Contract documents show a method of handling vehicle, bicycle, and pedestrian traffic. All construction signs, flaggers, and other traffic control devices are shown on the traffic control plan(s) except for emergency situations. If the Contractor proposes adding the use of flaggers to a plan, this will constitute a modification requiring approval by the Engineer. The modified plans shall show locations for all the required advance warning signs and a safe, protected location for the flagging station. If flagging is to be performed during hours of darkness, the plan shall include appropriate illumination for the flagging station.

In the second paragraph, the second sentence is revised to read:

Any Contractor-proposed modification, supplement or replacement shall show the necessary construction signs, flaggers, and other traffic control devices required to support the Work.

1-10.2(3) Conformance to Established Standards

In the second paragraph, the second sentence is revised to read:

The National Cooperative Highway Research Project (NCHRP) Report 350 and the AASHTO Manual for Assessing Safety Hardware (MASH) have established requirements for crash testing.

In the third paragraph, "NCHRP 350" is revised to read "NCHRP 350 or MASH".

In the fourth paragraph, "NCHRP 350" is revised to read "NCHRP 350 or MASH".

In the fifth paragraph, "NCHRP 350" is revised to read "NCHRP 350 or MASH".

1-10.3(1) Traffic Control Labor

The first paragraph is revised to read:

The Contractor shall furnish all personnel for flagging, for the execution of all procedures related to temporary traffic control and for the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations.

1-10.3(1)A Flaggers and Spotters

This section's title is revised to read:

Flaggers

The first paragraph is revised to read:

1 Flaggers shall be posted where shown on approved Traffic Control Plans or where
2 directed by the Engineer. All flaggers shall possess a current flagging card issued by the
3 State of Washington, Oregon, Montana, or Idaho. The flagging card shall be
4 immediately available and shown to the Contracting Agency upon request.

5
6 The last paragraph is deleted.

7
8 **1-10.3(1)B Other Traffic Control Labor**

9 This section is revised to read:

10

11 In addition to flagging duties, the Contractor shall provide personnel for all other traffic
12 control procedures required by the construction operations and for the labor to install,
13 maintain and remove any traffic control devices shown on Traffic Control Plans.

14

15 **1-10.3(3)B Sequential Arrow Signs**

16 This section is supplemented with the following:

17

18 A sequential arrow sign is required for all lane closure tapers on a multilane facility. A
19 separate sequential arrow sign shall be used for each closed lane. The arrow sign shall
20 not be used to laterally shift traffic. When used in the caution mode, the four corner
21 mode shall be used.

22

23 **1-10.3(3)C Portable Changeable Message Signs**

24 This section is revised to read:

25

26 Where shown on an approved traffic control plan or where ordered by the Engineer, the
27 Contractor shall provide, operate, and maintain portable changeable message signs
28 (PCMS). A PCMS shall be placed behind a barrier or guardrail whenever possible, but
29 shall at a minimum provide 4 ft. of lateral clearance to edge of travelled lane and be
30 delineated by channelization devices. The Contractor shall remove the PCMS from the
31 clear zone when not in use unless protected by barrier or guardrail.

32

33 **1-10.3(3)F Barrier Drums**

34 This section including title is deleted in its entirety and replaced with the following:

35

36 **1-10.3(3)F Vacant**

37

38 **1-10.3(3)K Portable Temporary Traffic Control Signal**

39 The fifth paragraph is revised to read:

40

41 The Project Engineer or designee will inspect the signal system at initial
42 installation/operation and approve the signal timing. Final approval will be based on the
43 results of the operational inspection.

44

45 **1-10.4(2) Item Bids With Lump Sum for Incidentals**

46 In the second paragraph, the first and second sentences are revised to read:

47

48 “Flaggers” will be measured by the hour. Hours will be measured for each flagging
49 station, shown on an approved Traffic Control Plan, when that station is staffed in
50 accordance with Section 1-10.3(1)A.

51

1 The first sentence of the last bulleted item in this section is revised to read:

2

3 Installing and removing Barricades, Traffic Safety Drums, Cones, Tubular Markers and
4 Warning Lights and Flashers to carry out approved Traffic Control Plan(s).

5

6 **1-10.5(2) Item Bids With Lump Sum for Incidentals**

7 This section is deleted and replaced with the following:

8

9 “Traffic Control Supervisor”, lump sum.

10

11 The lump sum Contract payment shall be full compensation for all costs incurred by the
12 Contractor in performing the Work defined in Section 1-10.2(1)B.

13

14 “Pedestrian Traffic Control”, lump sum.

15

16 The lump sum Contract payment shall be full compensation for all costs incurred by the
17 Contractor in performing the Work for pedestrian traffic control defined in Section 1-10.

18

19 “Flaggers”, per hour.

20

21 The unit Contract price, when applied to the number of units measured for this item in
22 accordance with Section 1-10.4(2), shall be full compensation for all costs incurred
23 by the Contractor in performing the Work defined in Section 1-10.3(1)A.

24

25 “Other Traffic Control Labor”, per hour.

26

27 The unit Contract price, when applied to the number of units measured for this item in
28 accordance with Section 1-10.4(2), shall be full compensation for all labor costs incurred
29 by the Contractor in performing the Work specified for this item in Section 1-10.4(2).

30

31 “Construction Signs Class A”, per square foot.

32

33 The unit Contract price, when applied to the number of units measured for this item in
34 accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by
35 the Contractor in performing the Work described in Section 1-10.3(3)A. In the event that
36 “Do Not Pass” and “Pass With Care” signs must be left in place, a change order, as
37 described in Section 1-04.4, will be required. When the Bid Proposal contains the item
38 “Sign Covering”, then covering those signs indicated in the Contract will be measured
39 and paid according to Section 8-21.

40

41 “Sequential Arrow Sign”, per hour.

42

43 The unit Contract price, when applied to the number of units measured for this item in
44 accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by
45 the Contractor in performing the Work described in Section 1-10.3(3)B.

46

47 “Portable Changeable Message Sign”, per hour.

48

49 The unit Contract price, when applied to the number of units measured for this item in
50 accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by
51 the Contractor in performing the Work for procuring all portable changeable message
52 signs required for the project and for transporting these signs to and from the project.

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“Transportable Attenuator”, per each.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by the Contractor in performing the Work described in Section 1-10.3(3)J except for costs compensated separately under the items “Operation of Transportable Attenuator” and “Repair Transportable Attenuator”.

“Operation of Transportable Attenuator”, per hour.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by the Contractor in performing the Work for operating transportable attenuators on the project.

“Repair Transportable Attenuator”, by force account.

All costs of repairing or replacing transportable attenuators that are damaged by the motoring public while in use as shown on an approved Traffic Control Plan will be paid for by force account as specified in Section 1-09.6. To provide a common Proposal for all Bidders, the Contracting Agency has estimated the amount of force account for “Repair Transportable Attenuator” and has entered the amount in the Proposal to become a part of the total Bid by the Contractor. Transportable attenuators damaged due to the Contractor’s operation or damaged in any manner when not in use shall be repaired or replaced by the Contractor at no expense to the Contracting Agency.

“Other Temporary Traffic Control”, lump sum.

The lump sum Contract payment shall be full compensation for all costs incurred by the Contractor in performing the Work defined in Section 1-10, and which costs are not compensated by one of the above-listed items.

“Portable Temporary Traffic Control Signal”, lump sum.

The lump sum Contract payment shall be full compensation for all costs incurred by the Contractor in performing the Work as described in Section 1-10.3(3)K, including all costs for traffic control during manual control, adjustment, malfunction, or failure of the portable traffic control signals and during replacement of failed or malfunctioning signals.

**Section 2-01, Clearing, Grubbing, and Roadside Cleanup
August 4, 2014**

2-01.3(1) Clearing

In the second paragraph, item number 3 (up until the colon) is revised to read:

- 3. Follow these requirements for all stumps that will be buried deeper than 5 feet from the top, side, or end surface of the embankment or any structure and are in a location that will not be terraced as described in Section 2-03.3(14):

1 **Section 2-02, Removal of Structures and Obstructions**
2 **January 5, 2015**

3 **2-02.3(2) Removal of Bridges, Box Culverts, and Other Drainage Structures**

4 This section is supplemented with the following new subsections:
5

6 **2-02.3(2)A Bridge Removal**

7 **2-02.3(2)A1 Bridge Demolition Plan Submittal**

8 The Contractor shall submit a Type 2E Working Drawing consisting of a bridge
9 demolition plan, showing the method of removing the existing bridge(s), or portions
10 of bridges, as specified.
11

12 The bridge demolition plan shall show all equipment, sequence of operations, and
13 details required to complete the work, including containment, collection, and
14 disposal of all debris. The plan shall include a crane foundation stability analysis
15 and crane load calculations for the work. The plan shall detail the containment,
16 collection, and disposal of all debris. The plan shall show all stages of demolition.
17

18 When the bridge removal work includes removal of a truss, and when the
19 Contractor's removal method involves use of a crane or cranes to pick, lift, and
20 remove the truss, the Contractor shall confirm the truss dead load weight prior to
21 beginning the truss removal operation. The operation of confirming the truss dead
22 load shall be performed at both ends of the truss, and shall ensure that the truss is
23 broken free of its support bearings. The Contractor's method of confirming the
24 truss dead load, whether by hydraulic jacks or other means, shall be included in the
25 Contractor's bridge demolition plan submittal.
26

27 When the bridge removal work involves removing portions of existing concrete
28 without replacement, the methods and tools used to achieve the smooth surface
29 and profile specified in Section 2-02.3(2)A2 shall be included in the Contractor's
30 bridge demolition plan submittal.
31

32 **2-02.3(2)A2 Removing Portions of Existing Concrete**

33 Care shall be taken in removing concrete to prevent overbreakage or damage to
34 portions of the existing Structure which are to remain. Before concrete removal
35 begins, a saw cut shall be made into the surface of the concrete at the perimeter of
36 the removal limits. The saw cut shall be 3/4-inch deep when the steel
37 reinforcement is to remain, and may be deeper when the steel reinforcement is
38 removed with the concrete.
39

40 Concrete shall be completely removed (exposing the deformed surface of the bar)
41 from existing steel reinforcing bars which extend from the existing members and
42 are specified to remain. Steel reinforcing bars that are not designated to remain
43 shall be cut a minimum of 1-inch behind the final surface. The void left by removal
44 of the steel reinforcing bar shall be filled with mortar conforming to Section 9-
45 20.4(2). The mortar shall match the color of the existing concrete surface as nearly
46 as practicable.
47

48 The Contractor shall roughen, clean, and saturate existing concrete surfaces,
49 against which fresh concrete will be placed, in accordance with Section 6-
50 02.3(12)B. When a portion of existing concrete is to be removed without

1 replacement, concrete shall be removed to a clean line with a smooth surface of
2 less than 1/16 inch profile.

3

4 **2-02.3(2)A3 Use of Explosives for Bridge Demolition**

5 Explosives shall not be used for bridge demolition, except as specifically allowed by
6 the Special Provisions.

7

8 **2-02.5 Payment**

9 This section is supplemented with the following new Bid items:

10

11 "Removing Existing Bridge____", lump sum.

12

13 "Removing Existing Structure____", lump sum.

14

15 "Removing Portion of Existing Bridge____", lump sum.

16

17 "Removing Portion of Existing Structure____", lump sum.

18

19 **Section 2-03, Roadway Excavation and Embankment**

20 **August 4, 2014**

21 **2-03.3(14) Embankment Construction**

22 The third paragraph is revised to read:

23

24 **Hillside Terraces** – The Contractor shall terrace the original ground or embankment
25 when the slope of the surface is 2H:1V or steeper unless otherwise directed by the
26 Engineer. The face of each terrace shall be a minimum of 1 foot and a maximum of 5
27 feet in height and shall be vertical or near vertical as required to remain stable during
28 material placement and compaction. The bench of the terrace shall slope outward to
29 drain and shall not be inclined steeper than 0.05 foot per foot. Terraces damaged
30 during work shall be reestablished. The Engineer may order the Contractor to place
31 gravel backfill, pipe drains or both to drain any seepage.

32

33 **2-03.3(14)L Embankment Widening for Guardrail**

34 The first sentence is revised to read:

35

36 Embankments widened for the installation of beam guardrail shall be terraced in
37 accordance with the requirements for hillside terraces in Section 2-03.3(14).

38

39 The second sentence is deleted.

40

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

42 **January 5, 2015**

43 **2-09.4 Measurement**

44 The seventh paragraph is revised to read:

45

46 For pipelines the lower limit in measuring structure excavation will be the foundation
47 level as shown in the Plans or as directed by the Engineer.

48

1 **Section 2-12, Construction Geosynthetic**
2 **January 5, 2015**

3 **2-12.3(4) Permanent Erosion Control and Ditch Lining**
4 In the fourth paragraph, "Section 9-13.2" is revised to read "Section 9-13.1(4)".
5

6 **Section 3-04, Acceptance of Aggregate**
7 **April 6, 2015**

8 **3-04.5 Payment**

9 In Table 1, the "Maximum Sublot Size (Tons)" value for the item HMA Aggregate is revised to
10 read "2000".
11

12 In Table 2, the row containing the item "HMA Aggregate" is revised to read:
13

9-03.8(2)	HMA Aggregate						15	15	Uncompacte d Void Content 15
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14

15

16 **Section 5-01, Cement Concrete Pavement Rehabilitation**
17 **August 4, 2014**

18 **5-01.2 Materials**

19 The referenced section for the following item is revised to read:
20

21

Dowel Bars 9-07.5

22

23 **5-01.3(4) Replace Portland Cement Concrete Panel**

24 In the third paragraph, the last sentence is deleted.
25

26

27 The seventeenth paragraph (beginning with "The Contractor shall place a bond-breaking
28 material...") is deleted.

29

30 **Section 5-02, Bituminous Surface Treatment**
August 4, 2014

31 **5-02.3(11) Temporary Raised Pavement Markings**

32 This section's title is revised to read:
33

34

Temporary Pavement Markings

35

36 The word "raised" is deleted from this section.
37

38

39 **Section 5-04, Hot Mix Asphalt**
April 6, 2015

40 **5-04.2 Materials**

41 The third through eighth paragraphs are deleted and replaced with the following:
42

1 The Contractor may choose to utilize recycled asphalt pavement (RAP) or reclaimed
2 asphalt shingles (RAS) in the production of HMA. The RAP may be from pavements
3 removed under the Contract, if any, or pavement material from an existing stockpile.
4 The RAS may be from reclaimed shingles.

5
6 If greater than 20 percent RAP by total weight of HMA or any amount of RAS is utilized
7 in the production of HMA, the Contractor shall sample and test the RAP and RAS during
8 stockpile construction in accordance with WSDOT FOP for AASHTO T 308 for
9 determination of asphalt binder content and WSDOT FOP for WAQTC/AASHTO T 27/T
10 11 for gradation of the aggregates. The RAP shall be sampled and tested at a frequency
11 of one sample for every 1,000 tons produced and not less than ten samples per project.
12 The RAS shall be sampled and tested at a frequency of one sample for every 100 tons
13 produced and not less than ten samples per project. The asphalt content and gradation
14 test data shall be reported to the Contracting Agency prior to or when submitting the mix
15 design for approval on the QPL. If utilized, the amount of RAS shall not exceed 5-
16 percent of the total weight of the HMA. The Contractor shall include the RAP and RAS
17 as part of the mix design as defined in these Specifications.

18
19 The grade of asphalt binder shall be as required by the Contract. Blending of asphalt
20 binder from different sources is not permitted. For HMA with greater than 20 percent
21 RAP by total weight of HMA or any amount of RAS, the final blended asphalt binder
22 (after inclusion of RAP, RAS, new asphalt binder and recycling agent) shall be the grade
23 as required by the Contract and comply with the requirements of Section 9-02.1(4).

24
25 The Contractor may only use warm mix asphalt (WMA) processes in the production of
26 HMA with 20 percent or less RAP by total weight of HMA and no RAS. The Contractor
27 shall submit to the Engineer for approval the process that is proposed and how it will be
28 used in the manufacture of HMA.

29
30 When the Contracting Agency provides aggregates or provides a source for the
31 production of aggregates, the Contract Provisions will establish the approximate
32 percentage of asphalt binder required in the mixture for each class of HMA.

33
34 Production of aggregates shall comply with the requirements of Section 3-01.

35
36 Preparation of stockpile site, the stockpiling of aggregates, and the removal of
37 aggregates from stockpiles shall comply with the requirements of Section 3-02.

38 39 **5-04.3(1) Hot Mix Asphalt Mixing Plant**

40 The first paragraph is supplemented with the following:

- 41
42 **6. Equipment for Processing RAP and RAS.** When producing HMA for mix designs
43 with greater than 20 percent RAP by total weight of HMA or any amount of RAS the
44 HMA plant shall be equipped with screens or a lump breaker to eliminate oversize
45 RAP/RAS particles from entering the pug mill or drum mixer.

46 47 **5-04.3(3)A Material Transfer Device/Vehicle**

48 The first paragraph is supplemented with the following new sentence:

49
50 At the Contractor's request the Engineer may approve paving without an MTD/V; the
51 Engineer will determine if an equitable adjustment in cost or time is due.

52

1 In the last sentence of the second paragraph, "Project Engineer" is revised to read
2 "Engineer".
3

4 **5-04.3(5)A Preparation of Existing Surfaces**

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

7 Unless otherwise approved by the Engineer, the tack coat shall be CSS-1 or CSS-1h
8 emulsified asphalt.
9

10 **5-04.3(7) Preparation of Aggregates**

11 This section is revised to read:
12

13 The aggregates, RAP and RAS shall be stockpiled according to the requirements of
14 Section 3-02. Sufficient storage space shall be provided for each size of aggregate,
15 RAP and RAS. The Contractor may uniformly blend fine aggregate or RAP with the RAS
16 as a method of preventing the agglomeration of RAS particles. The aggregates, RAP
17 and RAS shall be removed from stockpile(s) in a manner to ensure minimal segregation
18 when being moved to the HMA plant for processing into the final mixture. Different
19 aggregate sizes shall be kept separated until they have been delivered to the HMA
20 plant.
21

22 **5-04.3(7)A1 General**

23 This section is revised to read:
24

25 An approved mix design, listed on the Qualified Products List (QPL), is required for all
26 HMA paving. The Contractor shall develop a mix design prior to the initial production of
27 HMA and no more than 3 months prior to submitting for QPL evaluation. The mix design
28 shall be developed in accordance with WSDOT Standard Operating Procedure 732 and
29 meet the requirements of Sections 9-03.8(2) and 9-03.8(6).
30

31 Mix designs shall be submitted by the Contractor to the WSDOT State Materials
32 Laboratory on WSDOT Form 350-042EF. If the mix design is approved it will be listed on
33 the QPL for up to 24 consecutive months. Mix designs not listed on the QPL or past the
34 24 month approved period shall not be used. After a mix design has been on the QPL
35 for 12 months the listing will be extended provided the Contractor submits a certification
36 letter to the Qualified Products Engineer verifying that the aggregate and asphalt binder
37 have not changed. The Contractor may submit the certification one month prior to
38 expiration of the mix design approval. Within 7 calendar days of receipt of the
39 Contractor's certification the QPL will be updated. The maximum duration for approval
40 of a mix design and listing on the QPL will be 24 months from the date of initial approval
41 or as approved by the Engineer.
42

43 Changes to the job mix formula of a mix design may require the development of a new
44 mix design and resubmittal for QPL approval. Mix designs that require resubmittal for
45 QPL approval must be approved prior to use.
46

47 Changes to aggregate that may require a new mix design include the source of material
48 or a change in the percentage of material from a stockpile greater than 5 percent.
49 Changes to the percentage of material from a stockpile will be calculated exclusive of
50 the RAP content. The Contractor may vary the RAP percentage in accordance with
51 Section 5-04.2.
52

1 Changes to asphalt binder that may require a new mix design include the source of the
2 crude petroleum supplied to the refinery, the refining process, and additives or modifiers
3 in the asphalt binder.
4

5 The Contractor shall include the brand and type of anti-stripping additive in the mix
6 design submittal and provide certification from the asphalt binder manufacture that the
7 anti-stripping additive is compatible with the crude source and formulation of asphalt
8 binder proposed in the mix design. All changes to anti-strip require the submittal of a
9 new mix design for approval.
10

11 Mix designs with 20 percent RAP or less by total weight of HMA and no RAS will be
12 completed without the inclusion of the RAP. For HMA mix designs with greater than 20
13 percent RAP by total weight of HMA or any amount of RAS the Contractor shall develop
14 a mix design including RAP, RAS, recycling agent and new asphalt binder. Asphalt
15 binder contributed from RAS shall be determined in accordance with AASHTO PP 78.
16 The total quantity of asphalt binder from the RAP and RAS shall not exceed 40 percent
17 of the total asphalt binder content of the HMA.
18

19 Once the RAP and RAS stockpiles have been constructed the Contractor shall extract,
20 recover and test the asphalt residue from the RAP and RAS stockpiles to determine the
21 percent of recycling agent and/or grade of new asphalt binder needed to meet the grade
22 of asphalt binder required by the contract. The asphalt extraction testing shall be
23 performed in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade
24 trichloroethylene. The asphalt recovery shall be performed in accordance with AASHTO
25 R 59 or ASTM D 1856. The recovered asphalt residue shall be tested in accordance with
26 AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-
27 02.1(4). Once the recovered asphalt binder grade is determined the percent of recycling
28 agent and/or grade of new asphalt binder shall be determined in accordance with ASTM
29 D 4887. The final blend of recycling agent, recovered and new asphalt shall be tested in
30 accordance with AASHTO R 29 to confirm that it meets the grade of asphalt binder
31 required by the contract in accordance with Section 9-02.1(4). All recovered and
32 blended asphalt binder test data shall be reported to the Contracting Agency prior to
33 submitting the mix design for approval on the QPL.
34

35 **5-04.3(7)A2 Statistical or Nonstatistical Evaluation**

36 This section is revised to read:
37

38 The Contractor shall submit WSDOT Form 350-041EF to the Engineer for approval to
39 use a mix design from the QPL. The Contractor may include changes to the job mix
40 formula that have been approved on other contracts. The request to use a mix design
41 from the QPL may be rejected if production of the HMA from another contract is not in
42 compliance with Section 5-04.3(11)D.
43

44 The Contractor shall submit representative samples of the materials that are to be used
45 in the HMA production to the State Materials Laboratory in Tumwater. For HMA mix
46 designs with 20 percent RAP or less by total weight of HMA and no RAS, the Contractor
47 shall submit representative samples of the mineral materials that are to be used in the
48 HMA production; the submittal of RAP samples is not required for these mix designs.
49 For HMA mix designs with greater than 20 percent RAP by total weight of HMA or any
50 amount of RAS the Contractor shall submit representative samples of the mineral
51 materials, RAP, RAS and 100 grams of recovered asphalt residue from the RAP and
52 RAS that are to be used in the HMA production. The Contracting Agency will use these

1 samples to evaluate the mix design for approval on the QPL in accordance with
2 WSDOT Standard Practice QC-8.

3
4 **5-04.3(7)A3 Commercial Evaluation**

5 This section is revised to read:

6
7 Approval of a Commercial Evaluation mix design for listing on the QPL will be based on
8 a review of the Contractor's submittal of WSDOT Form 350-042 for conformance to the
9 requirements of Section 9-03.8(2). Testing of the HMA by the Contracting Agency for
10 mix design approval is not required. Mix designs for HMA with greater than 20 percent
11 RAP by total weight of HMA or any amount of RAS may be evaluated in accordance
12 with Section 5-04.3(7)A2.

13
14 For the Bid item Commercial HMA, the Contractor shall select a class of HMA and
15 design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required use.

16
17 **5-04.3(8) Mixing**

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

19
20 When discharged, the temperature of the HMA shall not exceed the optimum mixing
21 temperature by more than 25°F as shown on the reference mix design report or as
22 approved by the Engineer.

23
24 The last paragraph is supplemented with the following new sentence:

25
26 After the required amount of mineral materials, RAP, RAS, new asphalt binder and
27 asphalt rejuvenator have been introduced into the mixer the HMA shall be mixed until
28 complete and uniform coating of the particles and thorough distribution of the asphalt
29 binder throughout the mineral materials, RAP and RAS is ensured.

30
31
32 **5-04.3(8)A4 Definition of Sampling and Sublot**

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

34
35 The sublots shall be approximately uniform in size with a maximum sublot size based
36 on original Plan quantity tons as specified in the following table.

37
38 This section is supplemented with the following new table:

39

HMA Original Plan Quantity (tons)	Sublot Size (tons)
<20,000	1,000
20,000 to 30,000	1,500
>30,000	2,000

40
41 **5-04.3(8)A7 Test Section – HMA Mixtures**

42 This section is revised to read:

43
44 For each class of HMA accepted by statistical evaluation with 20 percent RAP or less by
45 total weight of HMA and no RAS, the Contractor may request a single test section to
46 determine whether the mixture meets the requirements of Section 9-03.8(2) and 9-
47 03.8(6). For each HMA mix design accepted by statistical evaluation with greater than
48 20 percent RAP by weight of HMA or any amount of RAS, the Contractor shall construct

1 a test section to determine whether the mixture meets the requirements of Sections 9-
2 03.8(2) and 9-03.8(6). Test sections shall be constructed at the beginning of paving and
3 will be at least 600 tons and a maximum of 1,000 tons or as approved by the Engineer.
4 For a test section to be acceptable the pay factor (PF) for gradation, asphalt binder and
5 Va shall be 0.95 or greater for each constituent and the remaining test requirements in
6 Section 9-03.8(2) (dust/asphalt ratio, sand equivalent, uncompacted void and fracture)
7 shall conform to the requirements of that section. No further wearing or leveling HMA
8 will be paved on any of the four calendar days following construction of the test section.
9 The mixture in the test section will be evaluated as a lot with a minimum of three sublots
10 required. If more than one test section is required, each test section shall be a separate
11 lot.

12
13 **5-04.3(10)A General**

14 In the first paragraph, “checking” and “cracking” are deleted.

15
16 In the third paragraph, the following new sentence is inserted after the second sentence:

17
18 Coverage with a steel wheel roller may precede pneumatic tired rolling.

19
20 In the third paragraph, the following new sentence is inserted before the last sentence:

21
22 Regardless of mix temperature, a roller shall not be operated in a mode that results in
23 checking or cracking of the mat.

24
25 **5-04.3(10)B1 General**

26 In this section, “Project Engineer” is revised to read “Engineer”.

27
28 The first paragraph is revised to read:

29
30 HMA mixture accepted by statistical or nonstatistical evaluation that is used in traffic
31 lanes, including lanes for ramps, truck climbing, weaving, and speed change, and
32 having a specified compacted course thickness greater than 0.10-foot, shall be
33 compacted to a specified level of relative density. The specified level of relative density
34 shall be a Composite Pay Factor (CPF) of not less than 0.75 when evaluated in
35 accordance with Section 1-06.2, using a minimum of 91 percent of the maximum
36 density. The percent of maximum density shall be determined by WSDOT FOP for
37 AASHTO T 729 when using the nuclear density gauge and WSDOT SOP 736 when
38 using cores to determine density. The specified level of density attained will be
39 determined by the statistical evaluation of the density of the pavement.

40
41 The following four new paragraphs are inserted after the first paragraph:

42
43 Tests for the determination of the pavement density will be taken in accordance the
44 required procedures for measurement by a nuclear density gauge or roadway cores
45 after completion of the finish rolling.

46
47 If the Contracting Agency uses a nuclear density gauge to determine density the test
48 procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day the
49 mix is placed.

50
51 Roadway cores for density may be obtained by either the Contracting Agency or the
52 Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-inches

1 unless otherwise approved by the Engineer. Roadway cores will be tested by the
2 Contracting Agency in accordance with WSDOT FOP for AASHTO T 166.

3
4 If the Contract includes the Bid item "Roadway Core" the cores shall be obtained by the
5 Contractor in the presence of the Engineer on the same day the mix is placed and at
6 locations designated by the Engineer. If the Contract does not include the Bid item
7 "Roadway Core" the Contracting Agency will obtain the cores.

8
9 In the sixth paragraph (after the preceding Amendments are applied), the second sentence
10 is revised to read:

11
12 Sublots will be uniform in size with a maximum subplot size based on original Plan
13 quantity tons of HMA as specified in the table below.

14
15 The following new table is inserted before the second to last paragraph:

HMA Original Plan Quantity (tons)	Sublot Size (tons)
<20,000	100
20,000 to 30,000	150
>30,000	200

17
18 **5-04.3(10)B4 Test Results**

19 The first paragraph is revised to read:

20
21 The results of all compaction acceptance testing and the CPF of the lot after three
22 sublots have been tested will be available to the Contractor through WSDOT's website.
23 Determination of the relative density of the HMA with a nuclear density gauge requires a
24 correlation factor and may require resolution after the correlation factor is known.
25 Acceptance of HMA compaction will be based on the statistical evaluation and CPF so
26 determined.

27
28 In the second paragraph, the first sentence is revised to read:

29
30 For a subplot that has been tested with a nuclear density gauge that did not meet the
31 minimum of 91 percent of the reference maximum density in a compaction lot with a
32 CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may
33 request that a core be used for determination of the relative density of the subplot.

34
35 In the second sentence of the second paragraph, "moisture-density" is revised to read
36 "density".

37
38 In the second paragraph, the fourth sentence is deleted.

39
40 **5-04.3(20) Anti-Stripping Additive**

41 This section is revised to read:

42
43 Anti-stripping additive shall be added to the liquid asphalt by the asphalt supplier prior to
44 shipment to the asphalt mixing plant. Anti-stripping additive shall be added in the
45 amount designated on the QPL for the mix design.

46
47 **5-04.4 Measurement**

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

1
2 Roadway cores will be measured per each for the number of cores taken.

3
4 The second to last paragraph is deleted.

5
6 **5-04.5 Payment**

7 The bid item "Removing Temporary Pavement Marking", per linear foot and paragraph
8 following bid item are deleted.

9
10 The following new bid item is inserted before the second to last paragraph:

11
12 "Roadway Core", per each.

13
14 The Contractor's costs for all other Work associated with the coring (e.g., traffic control)
15 shall be incidental and included within the unit Bid price per each and no additional
16 payments will be made.

17
18 **Section 5-05, Cement Concrete Pavement**
19 **April 6, 2015**

20 **5-05.3(1) Concrete Mix Design for Paving**

21 In item number 1, the first sentence of the third paragraph is revised to read:

22
23 Ground granulated blast furnace slag, if used, shall not exceed 30 percent by weight of
24 the total cementitious material and shall conform to Section 9-23.10.

25
26 The second and third rows of the table in item number 3 are revised to read:

27

Coarse Aggregate	+ 30 Pounds	- 30 Pounds
Fine Aggregate	+ 30 Pounds	- 30 Pounds

28
29 **5-05.4 Measurement**

30 The fourth paragraph is supplemented with the following new sentence:

31
32 Tie bars with drill holes in cement concrete pavement placed under the Contract will not
33 be measured.

34
35 **5-05.5 Payment**

36 The paragraph following the Bid item "Tie Bar with Drill Hole", per each is supplemented with
37 the following new sentence:

38
39 All costs for tie bars with drill holes in cement concrete pavement placed under the
40 Contract shall be included in the unit Contract price per cubic yard for "Cement Conc.
41 Pavement".

42
43 **Section 6-01, General Requirements for Structures**
44 **January 5, 2015**

45 **6-01.6 Load Restrictions on Bridges Under Construction**

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

47

1 If necessary and safe to do so, and if the Contractor requests it through a Type 2E
2 Working Drawing, the Engineer may allow traffic on a bridge prior to completion.

3
4 In the second paragraph, item number 3 (up until the colon) is revised to read:

5
6 3. Provide stress calculations under the design criteria specified in the AASHTO LRFD
7 Bridge Design Specifications, current edition, including at a minimum the following:

8
9 **6-01.9 Working Drawings**

10 This section is revised to read:

11
12 All Working Drawings required for bridges and other Structures shall conform to Section
13 1-05.3.

14
15 **6-01.10 Utilities Supported by or Attached to Bridges**

16 In the second paragraph, “bridge structures” is revised to read “bridges”.

17
18 **6-01.14 Premolded Joint Filler**

19 In the second paragraph, the first sentence is revised to read:

20
21 The Contractor may substitute for the nails any adhesive acceptable to the Engineer.

22
23 **Section 6-02, Concrete Structures**

24 **April 6, 2015**

25 **6-02.3(1) Classification of Structural Concrete**

26 In paragraph two, item number 1 is revised to read:

27
28 Mix design and proportioning specified in Sections 6-02.3(2), 6-02.3(2)A and 6-
29 02.3(2)A1.

30
31 Item number 3 is renumbered to 4.

32
33 After the preceding Amendments are applied, the following new numbered item is inserted
34 after item number 2:

35
36 3. Temperature and time for placement requirements specified in Section 6-02.3(4)D.

37
38 **6-02.3(2) Proportioning Materials**

39 In the third paragraph, the first sentence is revised to read:

40
41 The use of fly ash is required for Class 4000P concrete, except that ground granulated
42 blast furnace slag may be substituted for fly ash at a 1:1 ratio.

43
44 In the table titled “Cementitious Requirement for Concrete”, the row beginning with “4000D”
45 is deleted.

46
47 The fourth paragraph is revised to read:

48
49 When both ground granulated blast furnace slag and fly ash are included in the
50 concrete mix, the total weight of both these materials is limited to 40 percent by weight

1 of the total cementitious material for concrete class 4000A, and 50 percent by weight of
2 the total cementitious material for all other classes of concrete.

3
4 **6-02.3(2)A Contractor Mix Design**

5 The first paragraph is revised to read:

6
7 The Contractor shall provide a mix design in writing to the Engineer for all classes of
8 concrete specified in the Plans except for lean concrete and commercial concrete. No
9 concrete shall be placed until the Engineer has reviewed the mix design. The required
10 average 28-day compressive strength shall be selected in accordance with ACI 301,
11 Chapter 4, Section 4.2.3.3. ACI 211.1 shall be used to determine proportions. All
12 proposed concrete mixes except Class 4000D shall meet the requirements in
13 Cementitious Requirement for Concrete in Section 6-02.3(2).

14
15 In the fourth paragraph, the fourth sentence is deleted.

16
17 In the sixth paragraph, the first sentence is deleted.

18
19 In the seventh paragraph, the last sentence is deleted.

20
21 The eighth paragraph is revised to read:

22
23 Air content for concrete Class 4000D shall conform to Section 6-02.3(2)A1. For all
24 other concrete, air content shall be a minimum of 4.5 percent and a maximum of 7.5
25 percent for all concrete placed above the finished ground line.

26
27 The following new sub-section is added:

28
29 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

30 All Class 4000D concrete shall be a project specific performance mix design conforming
31 to the following requirements:

- 32
- 33 1. Aggregate shall use combined gradation in accordance with Section 9-03.1(5)
34 with a nominal maximum aggregate size of 1-1/2 inches.
35
 - 36 2. Permeability shall be less than 2,000 coulombs at 56 days in accordance with
37 AASHTO T 277.
38
 - 39 3. Freeze-thaw durability shall be provided by one of the following methods:
40 a. The concrete shall maintain an air content between 4.5 and 7.5 percent.
41 b. The concrete shall maintain a minimum air content that achieves a
42 durability factor of 90 percent, minimum, after 300 cycles in accordance
43 with AASHTO T 161, Procedure A. This air content shall not be less than
44 3.0 percent. Test samples shall be obtained from concrete batches of a
45 minimum of 3.0 cubic yards.
46
 - 47 4. Scaling shall have a visual rating less than or equal to 2 after 50 cycles in
48 accordance with ASTM C 672.
49
 - 50 5. Shrinkage at 28 days shall be less than 320 micro strain in accordance with
51 AASHTO T 160.
52

1 6. Modulus of elasticity shall be measured in accordance with ASTM C 469.

2

3 7. Density shall be measured in accordance with ASTM C 138.

4

5 The Contractor shall submit the mix design in accordance with Section 6-02.3(2)A. The
6 submittal shall include test reports for all tests listed above that follow the reporting
7 requirements of the AASHTO/ASTM procedures. Samples for testing may be obtained
8 from either laboratory or concrete plant batches. If concrete plant batches are used, the
9 minimum batch size shall be 3.0 cubic yards. The Contractor shall submit the mix
10 design to the Engineer at least 30 calendar days prior to the placement of concrete in
11 the bridge deck.

12

13 **6-02.3(4)D Temperature and Time For Placement**

14 The first two sentences are revised to read:

15

16 Concrete temperatures shall remain between 55°F and 90°F while it is being placed,
17 except that Class 4000D concrete temperatures shall remain between 55°F and 75°F
18 during placement. Precast concrete that is heat cured in accordance with Section 6-
19 02.3(25)D shall remain between 50°F and 90°F while being placed.

20

21 **6-02.3(5)A General**

22 The first paragraph is revised to read:

23

24 Concrete for the following applications will be accepted based on a Certificate of
25 Compliance to be provided by the supplier as described in Section 6-02.3(5)B:

26

- 27 1. Lean concrete.
- 28
- 29 2. Commercial concrete.
- 30
- 31 3. Class 4000P concrete for Roadside Steel Sign Support Foundations.
- 32
- 33 4. Class 4000P concrete for Type II, III, and CCTV Signal Standard Foundations
- 34 that are 12'-0" or less in depth.
- 35
- 36 5. Class 4000P concrete for Type IV and V Strain Pole Foundations that are 12'-0"
- 37 or less in depth.
- 38
- 39 6. Class 4000P concrete for Steel Light Standard Foundations Types A & B.

40

41 The following new sentence is inserted at the beginning of the second paragraph:

42

43 Slip-form barrier concrete will be accepted based on conformance to the requirements
44 for temperature, air content and compressive strength at 28 days for sublots as tested
45 and determined by the Contracting Agency.

46

47 **6-02.3(5)B Certification of Compliance**

48 In the list within the first paragraph, "Fly ash (if used) brand and Type" is revised to read "Fly
49 ash (if used) brand and Class".

50

51 The first sentence of the second to last paragraph is deleted.

52

1 **6-02.3(5)G Sampling and Testing Frequency for Temperature, Consistency,**
2 **and Air Content**
3 In the fifth sentence of the second paragraph, “five truck loads” is revised to read “ten truck
4 loads”.

5
6 The second paragraph is supplemented with the following:
7

8 If the remaining quantity to be placed is less than ten truck loads; then a sample shall
9 be randomly taken from one of the remaining truck loads.

10
11 In the last sentence of the third paragraph, “five truck loads” is revised to read “ten truck
12 loads”.

13
14 **6-02.3(5)H Sampling and Testing for Compressive Strength and Initial Curing**

15 The second paragraph is revised to read:

16
17 The Contractor shall provide and maintain a sufficient number of cure boxes in
18 accordance with WSDOT FOP for AASHTO T 23 for curing concrete cylinders. The cure
19 boxes shall be readily accessible and no more than 500 feet from the point of
20 acceptance testing, unless otherwise approved by the Engineer. The Contractor shall
21 also provide, maintain and operate all necessary power sources and connections
22 needed to operate the cure boxes. The cure boxes shall be in-place and functioning at
23 the specified temperature for curing cylinders prior to concrete placement. Concrete
24 cylinders shall be cured in the cure boxes in accordance with WSDOT FOP for AASHTO
25 T 23. The cure boxes shall have working locks and the Contractor shall provide the
26 Engineer with one key to each of the locks. Once concrete cylinders are placed in the
27 cure box, the cure box shall not be disturbed until the cylinders have been removed.
28 The Contractor shall retain the cure box Temperature Measuring Device log and provide
29 it to the Engineer upon request.

30
31 The following new paragraph is inserted after the last paragraph:
32

33 All cure box costs shall be incidental to the associated item of work.
34

35 **6-02.3(6)A2 Cold Weather Protection**

36 The first sentence in the first paragraph is revised to read:

37
38 This Specification applies when the weather forecast on the day of concrete placement
39 predicts air temperatures below 35°F at any time during the 7 days following placement.
40

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

43 The temperature of the concrete shall be maintained above 50°F during the entire
44 curing period or 7 days, whichever is greater.
45

46 **6-02.3(10)A Preconstruction Meeting**

47 This section including title is revised to read:
48

49 **6-02.3(10)A Pre-Deck Pour Meeting**

50 A pre-deck pour meeting shall be held 5 to 10 working days before placing deck
51 concrete to discuss construction procedures, personnel, equipment to be used,

1 concrete sampling and testing and deck finishing and curing operations. Those
2 attending shall include, at a minimum, the superintendent, foremen in charge of placing
3 and finishing concrete, and representatives from the concrete supplier and the concrete
4 pump truck supplier.

5
6 If the project includes more than one bridge deck, and if the Contractor's key personnel
7 change between concreting operations, or at request of the Engineer, additional
8 conferences shall be held before each deck placement.

9
10 **6-02.3(10)D Concrete Placement, Finishing, and Texturing**

11 This section's content is deleted and replaced with the following new sub-sections:

12

13 **6-02.3(10)D1 Test Slab Using Bridge Deck Concrete**

14 After the Contractor receives the Engineer's approval for the Class 4000D concrete mix
15 design, and a minimum of seven calendar days prior to the first placement of bridge
16 deck concrete, the Contractor shall construct a test slab using concrete of the approved
17 mix design.

18

19 The test slab may be constructed on grade, shall have a minimum thickness of eight-
20 inches, shall have minimum plan dimensions of 10-feet along all four edges, and shall
21 be square or rectangular.

22

23 During construction of the test slab, the Contractor shall demonstrate concrete sampling
24 and testing, use of the concrete temperature monitoring system, the concrete fogging
25 system, concrete placement system, and the concrete finishing operation. The
26 Contractor shall conduct the demonstration using the same type of equipment to be
27 used for the production bridge decks, except that the Contractor may elect to finish the
28 test slab with a hand-operated strike-board.

29

30 After the construction of the test slab and the demonstration of bridge deck construction
31 operations is complete, the Contractor shall remove and dispose of the test slab in
32 accordance with Sections 2-02.3 and 2-03.3(7)C.

33

34 **6-02.3(10)D2 Preparation for Concrete Placement**

35 Before placing bridge approach slab concrete, the subgrade shall be constructed in
36 accordance with Sections 2-06 and 5-05.3(6).

37

38 Before any concrete is placed, the finishing machine shall be operated over the entire
39 length of the deck/slab to check screed deflection. Concrete placement may begin only
40 if the Engineer approves after this test.

41

42 Immediately before placing concrete, the Contractor shall check (and adjust if
43 necessary) all falsework and wedges to minimize settlement and deflection from the
44 added mass of the concrete deck/slab. The Contractor shall also install devices, such as
45 telltales, by which the Engineer can readily measure settlement and deflection.

46

47 **6-02.3(10)D3 Concrete Placement**

48 The placement operation shall cover the full width of the bridge deck or the full width
49 between construction joints. The Contractor shall locate any construction joint over a
50 beam or web that can support the deck/slab on either side of the joint. The joint shall not
51 occur over a pier unless the Plans permit. Each joint shall be formed vertically and in
52 true alignment. The Contractor shall not release falsework or wedges supporting bridge

1 deck placement sections on either side of a joint until each side has aged as these
2 Specifications require.
3
4 Placement of concrete for bridge decks and bridge approach slabs shall comply with
5 Section 6-02.3(6). In placing the concrete, the Contractor shall:
6
7 1. Place it (without segregation) against concrete placed earlier, as near as
8 possible to its final position, approximately to grade, and in shallow, closely
9 spaced piles;
10
11 2. Consolidate it around reinforcing steel by using vibrators before strike-off by the
12 finishing machine;
13
14 3. Not use vibrators to move concrete;
15
16 4. Not revibrate any concrete surface areas where workers have stopped prior to
17 screeding;
18
19 5. Remove any concrete splashed onto reinforcing steel in adjacent segments
20 before concreting them;
21
22 6. Maintain a slight excess of concrete in front of the screed across the entire
23 width of the placement operation;
24
25 7. Operate the finishing machine to create a surface that is true and ready for final
26 finish without overfinishing or bringing excessive amounts of mortar to the
27 surface; and
28
29 8. Leave a thin, even film of mortar on the concrete surface after the last pass of
30 the finishing machine pan.
31
32 Workers shall complete all post screeding operations without walking on the concrete.
33 This may require work bridges spanning the full width of the deck/slab.
34
35 After removing the screed supports, the Contractor shall fill the voids with concrete (not
36 mortar).
37
38 If the surface left by the finishing machine is porous, rough, or has minor irregularities,
39 the Contractor shall float the surface of the concrete. Floating shall leave a smooth and
40 even surface. Float finishing shall be kept to the minimum number of passes necessary
41 to seal the surface. The floats shall be at least 4-feet long. Each transverse pass of the
42 float shall overlap the previous pass by at least half the length of the float. The first
43 floating shall be at right angles to the strike-off. The second floating shall be at right
44 angles to the centerline of the span. A smooth riding surface shall be maintained across
45 construction joints.
46
47 The edge of completed roadway slabs at expansion joints and compression seals shall
48 have a 3/8-inch radius.
49
50 After floating, but while the concrete remains plastic, the Contractor shall test the entire
51 deck/slab for flatness (allowing for crown, camber, and vertical curvature). The testing
52 shall be done with a 10-foot straightedge held on the surface. The straightedge shall be

1 advanced in successive positions parallel to the centerline, moving not more than one
2 half the length of the straightedge each time it advances. This procedure shall be
3 repeated with the straightedge held perpendicular to the centerline. An acceptable
4 surface shall be one free from deviations of more than 1/8-inch under the 10-foot
5 straightedge.
6

7 If the test reveals depressions, the Contractor shall fill them with freshly mixed concrete,
8 strike off, consolidate, and refinish them. High areas shall be cut down and refinished.
9 Retesting and refinishing shall continue until a surface conforming to the requirements
10 specified above is produced.
11

12 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement**

13 The Contractor shall monitor and record the concrete temperature and ambient
14 temperature hourly for seven calendar days after placement. The Contractor shall
15 monitor and record concrete temperature by placing two maturity meter temperature
16 monitoring devices in the bridge deck at locations specified by the Engineer. The
17 Contractor shall monitor ambient temperature using maturity meters near the locations
18 where concrete temperature is being monitored. When the bridge deck is being
19 enclosed and heated to meet cold weather requirements, ambient temperature readings
20 shall be taken within the enclosure. The Contractor shall submit the concrete
21 temperature and ambient temperature data to the Engineer in spreadsheet format within
22 14 calendar days from placing the bridge deck concrete.
23

24 The Contractor shall submit the type and model of maturity meter temperature
25 monitoring device, and the associated devices responsible for recording and
26 documenting the temperature and curing time, to the Engineer at least 14 calendar days
27 prior to the pre-concreting conference for the first bridge deck to be cast. The
28 placement and operation of the temperature monitoring devices and associated devices
29 will be an agenda item at the pre-concreting conference for the first bridge deck to be
30 cast.
31

32 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

33 Except as otherwise specified for portions of bridge decks receiving an overlay or
34 sidewalk under the same Contract, the Contractor shall texture the surface of the bridge
35 deck as follows:
36

37 The Contractor shall texture the bridge deck using diamond tipped saw blades
38 mounted on a power driven, self-propelled machine that is designed to texture
39 concrete surfaces. The grooving equipment shall provide grooves that are 1/8" ±
40 1/64" wide, 3/16" ± 1/16" deep, and spaced at 3/4" ± 1/8". The bridge deck shall
41 not be textured with a metal tined comb.
42

43 The Contractor shall submit the type of grooving equipment to be used to the
44 Engineer for approval 30 calendar days prior to performing the work. The
45 Contractor shall demonstrate that the method and equipment for texturing the
46 bridge deck will not chip, spall or otherwise damage the deck. The Contractor shall
47 not begin texturing the bridge deck until receiving the Engineer's approval of the
48 Contractor's method and equipment.
49

50 Unless otherwise approved by the Engineer, the Contractor shall texture the
51 concrete bridge deck surface either in a longitudinal direction, parallel with
52 centerline or in a transverse direction, perpendicular with centerline. The

1 Contractor shall texture the bridge deck surface to within 3-inches minimum and
2 15-inches maximum of the edge of concrete at expansion joints, within 1-foot
3 minimum and 2-feet maximum of the curb line, and within 3-inches minimum and 9-
4 inches maximum of the perimeter of bridge drain assemblies.

5
6 The Contractor shall contain and collect all concrete dust and debris generated by
7 the bridge deck texturing process, and shall dispose of the collected concrete dust
8 and debris in accordance with Section 2-03.3(7)C.
9

10 If the Plans call for placement of a sidewalk or an HMA or concrete overlay on the
11 bridge deck, the Contractor shall produce the final finish of these areas by dragging a
12 strip of damp, seamless burlap lengthwise over the bridge deck or by brooming it lightly.
13 Approximately 3-feet of the drag shall contact the surface, with the least possible bow in
14 its leading edge. It shall be kept wet and free of hardened lumps of concrete. When the
15 burlap drag fails to produce the required finish, the Contractor shall replace it. When not
16 in use, it shall be lifted clear of the bridge deck.
17

18 After the bridge deck has cured, the surface shall conform to the surface smoothness
19 requirements specified in Section 6-02.3(10)D3.
20

21 The surface texture on any area repaired to address out-of-tolerance surface
22 smoothness shall match closely that of the surrounding bridge deck area at the
23 completion of the repair. Methods used to remove high spots shall cut through the
24 mortar and aggregate without breaking or dislodging the aggregate or causing spalls.
25

26 **6-02.3(10)D6 Bridge Approach Slab Finishing and Texturing**

27 Bridge approach slabs shall be textured either in accordance with Section 6-02.3(10)D5,
28 or using metal tined combs in the transverse direction, except bridge approach slabs
29 receiving an overlay in the same Contract shall be finished as specified in Section 6-
30 02.3(10)D5 only.
31

32 The comb shall be made of a single row of metal tines. It shall leave striations in the
33 fresh concrete approximately 3/16-inch deep by 1/8-inch wide and spaced
34 approximately 1/2-inch apart. The Engineer will decide actual depths at the site. If the
35 comb has not been approved, the Contractor shall obtain the Engineer's approval by
36 demonstrating it on a test section. The Contractor may operate the combs manually or
37 mechanically, either singly or with several placed end to end. The timing and method
38 used shall produce the required texture without displacing larger particles of aggregate.
39

40 Texturing shall end 2-feet from curb lines. This 2-foot untextured strip shall be hand
41 finished with a steel trowel.
42

43 Surface smoothness, high spots, and low spots shall be addressed as specified in
44 Section 6-02.3(10)D5. The surface texture on any area cut down or built up shall match
45 closely that of the surrounding bridge approach slab area. The entire bridge approach
46 slab shall provide a smooth riding surface.
47

48 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

49 In the first paragraph, the following sentence is inserted after the first sentence:
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51 Unless otherwise shown in the Plans, the pavement end of the bridge approach slab
52 shall be constructed normal to the Roadway centerline.

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The following new paragraph is inserted before the last paragraph:

The compression seal shall be a 2-1/2 inch wide gland selected from the current Qualified Products List.

6-02.3(11) Curing Concrete

Items number 1 through 4 are deleted and replaced with the following 5 new numbered items:

1. Bridge sidewalks, roofs of cut and cover tunnels — curing compound covered by white, reflective type sheeting or continuous wet curing. Curing by either method shall be for at least 10 days.
2. Bridge decks — See Section 6-02.3(11)B.
3. Bridge approach slabs (Class 4000A concrete) - 2 coats of curing compound and continuous wet cure for at least 10-days.
4. Concrete barriers and rail bases – See Section 6-02.3(11)A.
5. All other concrete surfaces — continuous wet cure for at least three days.

In the second paragraph, the first sentence is replaced with the following three new sentences:

During the continuous wet cure, the Contractor shall keep all exposed concrete surfaces saturated with water. Formed concrete surfaces shall be kept in a continuous wet cure by leaving the forms in place. If forms are removed during the continuous wet cure period, the Contractor shall treat the concrete as an exposed concrete surface.

The third paragraph is revised to read:

When curing Class 4000A, two coats of curing compound that complies with Section 9-23.2 shall be applied immediately (not to exceed 15 min.) after tining any portion of the bridge approach slab. The continuous wet cure shall be established as soon as the concrete has set enough to allow covering without damaging the finish.

In the fifth paragraph, the first sentence is revised to read:

If the Plans call for an asphalt overlay on the bridge approach slab, the Contractor shall use the clear curing compound (Type 1, Class B), applying at least 1 gallon per 150 square feet to the concrete surface.

The eighth paragraph is deleted.

6-02.3(11)A2 Slip-Form Barrier

In the fourth paragraph, item number 1, “Type 1D” is revised to read “Type 1”.

6-02.3(11)B Curing Bridge Decks

This new section is supplemented with the following new sub-sections:

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6-02.3(11)B1 Equipment

The Contractor shall maintain a wet sheen, without developing pooling or sheeting water, using a fogging apparatus consisting of pressure washers with a minimum nozzle output of 1,500 psi, or other means approved by the Engineer.

The Contractor shall submit a bridge deck curing plan to the Engineer a minimum 14 calendar days prior to the pre-concreting conference. The Contractor's plan shall describe the sequence and timing that will be used to fog the bridge deck, apply pre-soaked burlap, install soaker hoses and cover the deck with white reflective sheeting.

6-02.3(11)B2 Curing

The fogging apparatus shall be in place and charged for fogging prior to beginning concrete placement for the bridge deck.

The Contractor shall presoak all burlap to be used to cover the deck during curing.

Immediately after the finishing machine passes over finished concrete, the Contractor shall implement the following tasks:

1. The Contractor shall fog the bridge deck while maintaining a wet sheen without developing pooling or sheeting water.
2. The Contractor shall apply the presoaked burlap to the top surface to fully cover the deck without damaging the finish, other than minor marring of the concrete surface. The Contractor shall not apply curing compound.
3. The Contractor shall continue to keep the burlap wet by fog spraying until the burlap is covered by soaker hoses and white reflective sheeting. The Contractor shall place the soaker hoses and whiter reflective sheeting after the concrete has achieved initial set. The Contractor shall charge the soaker hoses frequently so as to keep the burlap covering the entire deck wet during the course of curing.

As an alternative to tasks 2 and 3 above, the Contractor may propose a curing system using proprietary curing blankets specifically manufactured for bridge deck curing. Details of the proprietary curing blanket system, including product literature and details of how the system is to be installed and maintained, shall be submitted to the Engineer for approval.

The wet curing regime as described shall remain in place for at least 14 consecutive calendar days.

6-02.3(12)A Construction Joints in New Construction

The third paragraph is deleted and replaced with the following three new paragraphs:

If the Plans require a roughened surface on the joint, the Contractor shall strike it off to leave grooves at right angles to the length of the member. Grooves shall be installed using one of the following options:

1. Grooves shall be ½ to 1 inch wide, ¼ to ½ inch deep, and spaced equally at twice the width of the groove. Grooves shall terminate approximately 1 ½-inches from the face of concrete.

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2. Grooves shall be 1 to 2 inches wide, a minimum of ½-inch deep, and spaced a maximum of three times the width of the groove. Grooves shall terminate approximately 1 ½-inches from the face of concrete.

If the Engineer approves, the Contractor may use an alternate method to produce a roughened surface on the joint, provided that such an alternate method leaves a roughened surface of at least a ¼-inch amplitude.

If the first strike-off does not produce the required roughness, the Contractor shall repeat the process before the concrete reaches initial set. The final surface shall be clean and without laitance or loose material.

6-02.3(12)B Construction Joints Between Existing and New Construction

The phrase “by method(s) as approved by the Engineer” is deleted from each paragraph in this section.

6-02.3(13) Expansion Joints

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

Joints made of a vulcanized, elastomeric compound (with neoprene as the only polymer) shall be installed with a lubricant adhesive as recommended by the manufacturer.

In the third paragraph, “injuring” is revised to read “damaging”.

The following two new subsections are added:

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

The Contractor shall submit Working Drawings consisting of the strip seal expansion joint shop drawings in accordance with Section 6-03.3(7). These plans shall include, at a minimum, the following:

1. Plan, elevation, and sections of the joint system and all components, with dimensions and tolerances.
2. All material designations.
3. Manufacturer's written installation procedure.
4. Corrosion protection system used on the metal components.
5. Locations of welded shear studs, lifting mechanisms, temperature setting devices, and construction adjustment devices.
6. Method of sealing the system to prevent leakage of water through the joint.

The strip seal shall be removable and replaceable.

The metal components shall conform to ASTM A 36, ASTM A 992, or ASTM A 572, and shall be protected against corrosion by one of the following methods:

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1. Zinc metallized in accordance with Section 6-07.3(14).
2. Hot-dip galvanized in accordance with AASHTO M 111.
3. Paint in accordance with Section 6-07.3(9). The color of the top coat shall be Federal Standard 595 Color No. 26420. The surfaces embedded in concrete shall be painted only with a shop primer coat of paint conforming to Section 9-08.1(2)C.

The strip seal gland shall be continuous for the full length of the joint with no splices permitted, unless otherwise shown in the Plans.

Other than items shown in the Plans, threaded studs used for construction adjustments are the only items that may be welded to the steel shapes provided they are removed by grinding after use, and the area repaired by application of an approved corrosion protection system.

If the opening between the steel shapes is anticipated to be less than 1-1/2 inches at the time of seal installation, the seal may be installed prior to encasement of the steel shapes in concrete.

After the joint system is installed, the joint shall be flooded with water and inspected, from below the joint, for leakage. If leakage is observed, the joint system shall be repaired by the Contractor, as recommended by the manufacturer.

6-02.3(13)B Compression Seal Expansion Joint System

Compression seal glands shall be selected from the current Qualified Products List and sized as shown in the Plans.

The compression seal expansion joint system shall be installed in accordance with the manufacturer's written recommendations. The Contractor shall submit a Type 1 Working Drawing consisting of the manufacturer's written installation procedure and repair procedures if leakage testing fails.

After the joint system is installed, the joint area shall be flooded with water and inspected, from below the joint, for leakage. If leakage is observed, the joint system shall be repaired by the Contractor, as recommended by the manufacturer.

6-02.3(14) Finishing Concrete Surfaces

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

The Contractor shall clean and refinish any stained or discolored surfaces.

The following new subsection is added:

6-02.3(14)D General Requirements for Concrete Surface Finishes Produced by Form Liners

Horizontal and vertical joints shall be spliced in accordance with the manufacturer's printed instructions. The Contractor shall submit a Type 1 Working Drawing consisting of the manufacturer's joint splice instructions.

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Horizontal splicing of ABS and plastic form liners to achieve the required height is not permitted and there shall be no horizontal joints. The concrete formed with ABS and plastic form liners shall be given a light sandblast to remove the glossy finish.

Side forms, traffic barrier forms, and pedestrian barrier forms using these form liners may be removed after 24 hours provided the concrete mix used includes a water-reducing admixture, and the concrete reaches 1,400 psi minimum compressive strength before form removal. Concrete in load supporting forms utilizing these form liners shall be cured in accordance with Section 6-02.3(17)N. Once the forms are removed, the Contractor shall treat the joint areas by patching or light sandblasting as required by the Engineer to ensure that the joints are not visible.

Form liners shall be cleaned, reconditioned, and repaired before each use. Form liners with repairs, patches, or defects which, in the opinion of the Engineer, would result in adverse effects to the concrete finish shall not be used.

Care shall be taken to ensure uniformity of color throughout the textured surface. A change in form release agent will not be allowed.

All surfaces formed by the form liner shall also receive a Class 2 surface finish. Form ties shall be a type that leaves a clean hole when removed. All spalls and form tie holes shall be filled as specified for a Class 2 surface finish.

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

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

The Contractor shall submit a Type 1 Working Drawing consisting of the pigmented sealer manufacturer’s written instructions covering, at a minimum, the following:

The second paragraph is deleted.

In the last sentence of the third paragraph, “approval” is revised to read “acceptance”.

6-02.3(15) Date Numerals

The third sentence in the first paragraph is revised to read:

When an existing Structure is widened or when traffic barrier is placed on an existing Structure, the date shall be for the year in which the original Structure was completed.

6-02.3(16) Plans for Falsework and Formwork

This section is revised to read:

The Contractor shall submit all plans for falsework and formwork as Type 2E Working Drawings. Submittal is not required for footing or retaining wall formwork if the wall is 4 feet or less in height (excluding pedestal height).

The design of falsework and formwork shall be based on:

1. Applied loads and conditions which are no less severe than those described in Section 6-02.3(17)A, Design Loads;

- 1 2. Allowable stresses and deflections which are no greater than those described in
- 2 Section 6-02.3(17)B, Allowable Stresses and Deflections;
- 3
- 4 3. Special loads and requirements no less severe than those described in
- 5 Section 6-02.3(17)C, Falsework and Formwork at Special Locations;
- 6
- 7 4. Conditions required by other Sections of 6-02.3(17), Falsework and Formwork.
- 8

9 The falsework and formwork plans shall be scale drawings showing the details of
10 proposed construction, including: sizes and properties of all members and components;
11 spacing of bents, posts, studs, wales, stringers, wedges and bracing; rates of concrete
12 placement, placement sequence, direction of placement, and location of construction
13 joints; identification of falsework devices and safe working loads as well as identification
14 of any bolts or threaded rods used with the devices including their diameter, length,
15 type, grade, and required torque. The falsework plans shall show the proximity of
16 falsework to utilities or any nearby Structures including underground Structures.
17 Formwork accessories shall be identified according to Section 6-02.3(17)H, Formwork
18 Accessories. All assumptions, dimensions, material properties, and other data used in
19 making the structural analysis shall be noted on the drawing.

20

21 The Contractor shall furnish associated design calculations to the Engineer as part of
22 the submittal. The design calculations shall show the stresses and deflections in load
23 supporting members. Construction details which may be shown in the form of sketches
24 on the calculation sheets shall be shown in the falsework or formwork drawings as well.
25 Falsework or formwork plans will be rejected in cases where it is necessary to refer to
26 the calculation sheets for information needed for complete understanding of the
27 falsework and formwork plans or how to construct the falsework and formwork.

28

29 Each sheet of falsework and formwork plans shall carry the following:

- 30
- 31 1. The initials and dates of all participating design professionals.
- 32
- 33 2. Clear notation of all revisions including identification of who authorized the
- 34 revision, who made the revision, and the date of the revision.
- 35
- 36 3. The Contract number, Contract title, and sequential sheet number. These shall
- 37 also be on any related documents.
- 38
- 39 4. Identify where the falsework and formwork plan will be utilized by referencing
- 40 Contract Plan sheet number and related item or detail.
- 41

42 **6-02.3(16)A Nonpreapproved Falsework and Formwork Plans**

43 This section, including title, is deleted in its entirety and replaced with the following:

44

45 **6-02.3(16)A Vacant**

46

47 **6-02.3(16)B Preapproved Formwork Plans**

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

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6-02.3(16)B Pre-Contract Review of Falsework and Formwork Plans

The Contractor may request pre-contract review of formwork plans for abutments, wingwalls, diaphragms, retaining walls, columns, girders and beams, box culverts, railings, and bulkheads. Plans for falsework supporting the bridge deck for interior spans between precast prestressed concrete girders may also be submitted for pre-contract review.

To obtain pre-contract review, the Contractor shall electronically submit drawings and design calculations in PDF format directly to:

BridgeConstructionSupport@wsdot.wa.gov

The Bridge and Structures Office, Construction Support Engineer will return the falsework or formwork plan to the Contractor with review notes, an effective date of review, and any revisions needed prior to use. For each contract on which the pre-reviewed falsework or formwork plans will be used, the Contractor shall submit a copy to the Engineer. Construction shall not begin until the Engineer has given concurrence.

If the falsework or formwork being constructed has any deviations to the preapproved falsework or formwork plan, the Contractor shall submit plan revisions for review and approval in accordance with Section 6-02.3(16).

6-02.3(17)A Design Loads

The fifth paragraph is revised to read:

Live loads shall consist of a minimum uniform load of not less than 25 psf, applied over the entire falsework plan area, plus the greater of:

1. Actual weights of the deck finishing equipment applied at the rails, or;
2. A minimum load of 75 pounds per linear foot applied at the edge of the bridge deck.

6-02.3(17)J Face Lumber, Studs, Wales, and Metal Forms

The second and third to last paragraphs are deleted.

6-02.3(17)K Concrete Forms on Steel Spans

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

The Contractor shall fill the holes with fully torqued ASTM A 325 bolts in accordance with Section 6-03.3(33).

6-02.3(17)O Early Concrete Test Cylinder Breaks

The third paragraph is revised to read:

The cylinders shall be cured in the field in accordance with WSDOT FOP for AASHTO T 23 Section 10.2 Field Curing.

6-02.3(20) Grout for Anchor Bolts and Bridge Bearings

The first five paragraphs are deleted and replaced with the following two new paragraphs:

1 Grout shall conform to Section 9-20.3(2) for anchor bolts and for bearing assemblies
2 with bearing plates. Grout shall conform to Section 9-20.3(3) for elastomeric bearing
3 pads and fabric pad bearings without bearing plates.
4

5 Grout shall be a workable mix with a viscosity that is suitable for the intended
6 application. The Contractor shall receive approval from the Engineer before using the
7 grout.
8

9 **6-02.3(24)C Placing and Fastening**

10 The twelfth paragraph is revised to read:

11
12 In bridge decks, a “mat” is two adjacent and perpendicular layers of reinforcing steel.
13 Top and bottom mats shall be supported adequately to hold both in their proper
14 positions. If No. 4 bars make up the lower layer of steel in a mat, it shall be blocked at
15 not more than 3-foot intervals (or 4-foot intervals for bars No. 5 and larger). Wire ties to
16 girder stirrups shall not be considered as blocking. To provide a rigid mat, the Contractor
17 shall add other supports and tie wires to the top mat as needed.
18

19 In the fourteenth paragraph, the description following “2½ inches between” is revised to
20 read:

21
22 Adjacent bars in a layer. Bridge deck and bridge approach slab bars and the top of the
23 slab.
24

25 In the fourteenth paragraph, the description following “2 inches between” is supplemented
26 with the following new sentence:

27
28 Bars and the surface of concrete when not specified otherwise in this Section or in the
29 Plans.
30

31 In the fourteenth paragraph, the first sentence in the description following “1½ inches
32 between” is deleted.
33

34 The fifteenth paragraph is revised to read:

35
36 Except for top cover in bridge decks and bridge approach slabs, cover to ties and
37 stirrups may be ½ inch less than the values specified for main bars but shall not be less
38 than 1 inch.
39

40 In the sixteenth paragraph, the first item in the second subparagraph is revised to read:

41
42 The clearance to the top surface of bridge decks
43 and bridge approach slabs +¼ in/-0”.
44

45 **6-02.3(24)E Welding Reinforced Steel**

46 This section is revised to read:

47
48 Welding of steel reinforcing bars shall conform to the requirements of ANSI/AWS D1.4
49 Structural Welding Code - Reinforcing Steel, latest edition, except where superseded by
50 the Special Provisions, Plans, and these Specifications.
51

1 Before any welding begins, the Contractor shall submit a Type 2 Working Drawing
2 consisting of the welding procedure for each type of welded splice to be used, including
3 the weld procedure specifications and joint details. The weld procedure specifications
4 shall be written on a form taken from AWS D1.4 Annex A, or equivalent. Test results of
5 tensile strength, macroetch, and visual examination shall be included. The form shall be
6 signed and dated.

7
8 Welders shall be qualified in accordance with AWS D1.4. The Contractor shall be
9 responsible for the testing and qualification of welders, and shall submit Type 2 Working
10 Drawings consisting of welder qualification and retention records. The weld joint and
11 welding position a welder is qualified in shall be in accordance with AWS D1.4. The
12 welder qualifications shall remain in effect indefinitely unless, (1) the welder is not
13 engaged in a given process of welding for which the welder is qualified for a period
14 exceeding six months, or (2) there is some specific reason to question a welder's ability.

15
16 Filler metals used for welding reinforcing bars shall be in accordance with AWS D1.4
17 Table 5.1. All filler metals shall be low-hydrogen and handled in compliance with low-
18 hydrogen practices specified in the AWS code.

19
20 Short circuiting transfer with gas metal arc welding will not be allowed. Slugging of
21 welds will not be allowed.

22
23 For the purpose of compatibility with AWS D1.4, welded lap splices for spiral or hoop
24 reinforcing shall be considered Flare-V groove welds, indirect butt joints.

25
26 The Contractor is responsible for using a welding sequence that will limit the alignment
27 distortion of the bars due to the effects of welding. The maximum out-of-line permitted
28 will be 1/4 inch from a 3.5-foot straight-edge centered on the weld and in line with the
29 bar.

30
31 The ground wire from the welding machine shall be clamped to the bar being welded.

32
33 Where epoxy-coated steel reinforcing bars are specified to be spliced by welding, the
34 epoxy coating shall be left off or removed from the surfaces to be heated, but in no
35 cases less than six inches of each bar being welded. After the welding is complete, the
36 Contractor shall apply epoxy patching material to the uncoated portions of the bar in
37 accordance with Section 6-02.3(24)H.

38
39 **6-02.3(25) Prestressed Concrete Girders**

40 In the first paragraph, the last sentence is revised to read:

41
42 WSDOT certification will be granted at, and renewed during, the annual prestressed
43 plant review and approval process in accordance with WSDOT Materials Manual M 46-
44 01.04 Standard Practice QC 6.

45
46 **6-02.3(25)I Fabrication Tolerances**

47 In the first paragraph, item number 21 is revised to read:

48
49 21. Differential Camber Between Girders in a Span (measured in place at the job
50 site):

51 For deck bulb tee girders and PCPS Cambers shall be equalized when the

members with grouted shear keys:	differences in cambers between adjacent girders exceeds $\pm \frac{1}{4}$ inch
For deck bulb tee girders and PCPS members without grouted shear keys:	Cambers shall be equalized when the differences in cambers between adjacent girders exceeds $\pm \frac{1}{2}$ inch
For all other prestressed concrete girders:	$\pm \frac{1}{8}$ inch per 10 feet of girder length

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6-02.3(25)O Deck Bulb Tee Girder Flange Connection

This section, including title, is revised to read:

Deck Bulb Tee Girder Flange and PCPS Member Connection

The Contractor shall submit a method of equalizing deflections as a Type 1 Working Drawing. Any temporary strands in the top flange shall be cut per Section 6-02.3(25)N prior to equalizing girder deflections.

Deck bulb tee girders and PCPS members with grouted shear keys shall be constructed in the following sequence:

1. Deflections shall be equalized per the Contractor’s equalization plan.
2. Intermediate diaphragms shall be placed and weld ties shall be welded. Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties.
3. The keyways shown in the Plans to receive grout shall be filled flush with the surrounding surfaces using a grout conforming to Section 9-20.3(2).
4. Equalization equipment shall not be removed and other construction equipment shall not be placed on the structure until intermediate diaphragms have attained a minimum compressive strength of 2,500 psi and keyway grout has achieved a minimum compressive strength of 4000 psi.

Deck bulb tee girders and PCPS members without grouted shear keys shall be constructed in the following sequence:

1. Deflections shall be equalized per the Contractor’s equalization plan.
2. Intermediate diaphragms shall be placed and weld ties shall be welded. Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties.
3. Equalization equipment shall not be removed and other construction equipment shall not be placed on the structure until intermediate diaphragms have attained a minimum compressive strength of 2,500 psi.

6-02.3(26)F Prestressing Reinforcement

The last sentence in the fourth paragraph is revised to read:

1 If the prestressing reinforcement will not be stressed and grouted for more than 7
2 calendar days after it is placed in the ducts, the Contractor shall place an approved
3 corrosion inhibitor conforming to Federal Specification MIL-I-22110C in the ducts.
4

5 **6-02.3(28) Precast Concrete Panels**

6 In the first paragraph, the third sentence is revised to read:
7

8 WSDOT Certification will be granted at, and renewed during, the annual precast plant
9 review and approval process in accordance with WSDOT Materials Manual M 46-01.04
10 Standard Practice QC 7.
11

12 **6-02.4 Measurement**

13 The following three new paragraphs are inserted before the last paragraph:
14

15 Expansion joint system___seal - superstr. will be measured by the linear foot along its
16 completed line and slope.
17

18 Expansion joint modification will be measured by the linear foot of expansion joint
19 modified along its completed line and slope.
20

21 Prestressed concrete girder will be measured by the linear foot of girder specified in the
22 Proposal.
23

24 **6-02.5 Payment**

25 In the paragraph following the bid item "Commercial Concrete", per cubic yard the second
26 sentence is revised to read:
27

28 All costs in connection with concrete curing, producing concrete surface finish with form
29 liners, and furnishing and applying pigmented sealer to concrete surfaces as specified,
30 shall be included in the unit contract price per cubic yard for "Conc. Class ____".
31

32 The following new paragraph is inserted after the bid item "Superstructure (name bridge)",
33 lump sum:
34

35 All costs in connection with constructing, finishing and removing the bridge deck test
36 slab as specified in Section 6-02.3(10)D1 shall be included in the lump sum Contract
37 price for "Superstructure___" or "Bridge Deck___" for one bridge in each project, as
38 applicable.
39

40 In the paragraph following the bid item "Epoxy-Coated St. Reinf. Bar ____", per pound, the
41 first sentence is revised to read:
42

43 Payment for reinforcing steel shall include the cost of drilling holes in concrete for, and
44 setting, steel reinforcing bar dowels with epoxy bonding agent, and furnishing,
45 fabricating, placing, and splicing the reinforcement.
46

47 The bid item "Cure Box", lump sum and paragraph following bid item are deleted.
48

49 The following three new bid items are inserted before the bid item "Bridge Approach Slab",
50 per square yard:
51

52 "Expansion Joint System _____ - Superstr.", per linear foot.

1
2 “Expansion Joint Modification - ____”, per linear foot.

3
4 “Prestressed Conc. Girder ____”, per linear foot.

5
6 **Section 6-03, Steel Structures**
7 **April 6, 2015**

8 **6-03.2 Materials**

9 The first sentence in the fifth paragraph is revised to read:

10
11 The Contractor shall submit Type 1 Working Drawings describing the methods for visibly
12 marking the material so that it can be traced.

13
14 **6-03.3 Construction Requirements**

15 This section is revised to read:

16
17 Structural steel fabricators of plate and box girders, floorbeams, truss members,
18 stringers, cross frames, diaphragms, and laterals shall be certified under the AISC
19 Certification Program for Steel Bridge Fabricators, Advanced Bridges Category. When
20 fracture critical members are specified in the contract, structural steel fabricators shall
21 also meet the supplemental requirements F, Bridges with Fracture-Critical Members,
22 under the AISC Certification Program for Steel Bridge Fabricators.

23
24 **6-03.3(7) Shop Plans**

25 This section is revised to read:

26
27 The Contractor shall submit all shop detail plans for fabricating the steel as Type 2
28 Working Drawings.

29
30 If these plans will be submitted directly from the fabricator, the Contractor shall so notify
31 the Engineer in writing.

32
33 No material shall be fabricated until: (1) the Working Drawing review is complete, and
34 (2) the Engineer has accepted the materials source.

35
36 Before physical completion of the project, the Contractor shall furnish the Engineer one
37 set of reproducible copies of the as-built shop plans. The reproducible copies shall be
38 clear, suitable for microfilming, and on permanent sheets that measure no smaller than
39 11 by 17-inches. Alternatively, the shop drawings may be provided in an electronic
40 format with the concurrence of the Engineer.

41
42 **6-03.3(7)A Erection Methods**

43 The first paragraph is revised to read:

44
45 Before beginning to erect any steel Structure, the Contractor shall submit Type 2E
46 Working Drawings consisting of the erection plan and procedure describing the methods
47 the Contractor intends to use.

48
49 The second paragraph (up until the colon) is revised to read:

50

1 The erection plan and procedure shall provide complete details of the erection process
2 including, at a minimum, the following:
3
4 The third paragraph (up until the colon) is revised to read:
5
6 As part of the erection plan Working Drawings, the Contractor may submit details of an
7 engineered and fabricated lifting bracket bolted to the girder top flanges providing the
8 following requirements are satisfied:
9
10 In the third paragraph, the second sentence of item number 4 is revised to read:
11
12 Certification documentation from a previous project may be submitted;
13
14 The last sentence of the fourth paragraph is deleted.
15
16 The last paragraph is deleted.
17
18 **6-03.3(10) Straightening Bent Material**
19 In the first paragraph, the last sentence is revised to read:
20
21 A limited amount of localized heat may be applied only if carefully planned and
22 supervised, and only in accordance with the heat-straightening procedure Working
23 Drawing submittal.
24
25 The third paragraph is revised to read:
26
27 After straightening, the Contractor shall inspect the member for fractures using a
28 method proposed by the Contractor and accepted by the Contracting Agency.
29
30 The last paragraph is revised to read:
31
32 The procedure for heat straightening of universal mill (UM) plates by the mill or the
33 fabricator shall be submitted as a Type 2 Working Drawing.
34
35 **6-03.3(14) Edge Finishing**
36 In the first paragraph, the last sentence is revised to read:
37
38 Corners along exposed edges shall be broken by light grinding or another method
39 acceptable to the Engineer to achieve an approximate 1/16-inch chamfer or rounding.
40
41 In the fifth paragraph, the last sentence is revised to read:
42
43 The fabricator shall prevent excessive hardening of flange edges through preheating,
44 post heating, or control of the burning process as recommended by the steel
45 manufacturer.
46
47 The sixth paragraph is revised to read:
48
49 Hardness testing shall consist of testing thermal-cut edges with a portable hardness
50 tester. The hardness tester, and its operating test procedures, shall be submitted as a
51 Type 1 Working Drawing. The hardness tester shall be convertible to Rockwell C scale
52 values.

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In the last paragraph, the last sentence is revised to read:

If thermal-cutting operations conform to procedures established by the steel manufacturer, and hardness testing results are consistently within acceptable limits, the Engineer may authorize a reduction in the testing frequency.

6-03.3(15) Planing of Bearing Surfaces

This section is supplemented with the following new paragraph:

Where mill to bear is specified in the Plans, the bearing end of the stiffener shall be flush and square with the flange and shall have at least 75 percent of this area in contact with the flange.

6-03.3(25) Welding and Repair Welding

In the first paragraph, the first sentence is revised to read:

Welding and repair welding of all steel bridges shall comply with the AASHTO/AWS D1.5M/D1.5, latest edition, Bridge Welding Code.

In the second paragraph, the last sentence is revised to read:

No welding, including tack and temporary welds shall be done in the shop or field unless the location of the welds is shown on the shop drawings reviewed and accepted by the Engineer.

In the third paragraph, the first sentence is revised to read:

Welding procedures shall accompany the shop drawing Working Drawing submittal.

In the fourth paragraph, the first sentence is revised to read:

Welding shall not begin until completion of the shop plan Working Drawing review as required in Section 6-03.3(7).

In item number 1 of the ninth paragraph, “approves” is revised to read “concur”.

6-03.3(25)A3 Ultrasonic Inspection

The following new paragraph is inserted before the last paragraph:

A minimum of 30 percent of complete penetration vertical welds on steel column jackets thicker than 5/16-inch, within 1.50 column jacket diameter of the top and bottom of each column, shall be inspected. If any rejectable flaws are found, 100 percent of the weld within the specified limits shall be inspected. The largest column cross section diameter for tapered column jackets shall constitute one column jacket diameter.

6-03.3(25)A4 Magnetic Particle Inspection

Items number 3 and 4 are revised to read:

3. Complete penetration groove welds on plates $\frac{5}{16}$ -inch or thinner (excluding steel column jackets) shall be 100 percent tested by the magnetic particle method.

1 Testing shall apply to both sides of the weld, if backing plate is not used. The ends
2 of each complete penetration groove weld at plate edges shall be tested by the
3 magnetic particle method.
4
5 4. A minimum of 30 percent of complete penetration vertical welds on steel column
6 jackets $\frac{5}{16}$ -inch or thinner, within 1.50 column jacket diameters of the top and bottom
7 of each column, shall be magnetic particle inspected. The largest column cross
8 section diameter for tapered column jackets shall constitute one column jacket
9 diameter.

10
11 The last paragraph is supplemented with the following new sentence:

12
13 If any rejectable flaws are found in any test length of item 4 above, 100 percent of the
14 weld within the specified limits shall be inspected.

15
16 **6-03.3(27) High Strength Bolt Holes**

17 The last paragraph is revised to read:

18
19 The Contractor shall submit Type 2 Working Drawings consisting of a detailed outline of
20 the procedures proposed to accomplish the work from initial drilling through shop
21 assembly.

22
23 **6-03.3(27)C Numerically Controlled Drilled Connections**

24 In the second paragraph, the first sentence is revised to read:

25
26 The Contractor shall submit Type 1 Working Drawings consisting of a detailed outline of
27 proposed N/C procedures.

28
29 **6-03.3(29) Welded Shear Connectors**

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

31
32 Installation, production control, and inspection of welded shear connectors shall
33 conform to Chapter 7 of the AASHTO/AWS D1.5M/D1.5:2010 Bridge Welding Code. If
34 welded shear connectors are installed in the shop, installation shall be completed prior
35 to applying the shop primer coat in accordance with Section 6-07.3(9)G. If welded shear
36 connectors are installed in the field, the steel surface to be welded shall be prepared to
37 SSPC-SP 11, power tool cleaning, just prior to welding.

38
39 **6-03.3(33) Bolted Connections**

40 In the second paragraph, the first sentence is revised to read:

41
42 The Contractor shall submit Type 1 Working Drawings providing documentation of the
43 bolt tension calibrator, including brand, capacity, model, date of last calibration, and
44 manufacturer's instructions for use.

45
46 In the second sentence of the second paragraph, the word "approved" is deleted.

47
48 In item number 3 of the fifth paragraph, "approved" is revised to read "specified".

49
50 In the center column header of table 1, "AASHTO M 164" is revised to read "ASTM A 325".
51

1 In the column headings of table 3, "M 164" is revised to read "A 325".
2
3 In the tenth paragraph, item number 3, "approved" is revised to read "accepted" in the
4 second and third sentences of the first paragraph.
5
6 In the tenth paragraph, item number 3, the third paragraph is revised to read:
7
8 The Contractor shall submit Type 1 Working Drawings of the tension control bolt
9 assembly, including bolt capacities, type of bolt, nut, and washer lubricant, method of
10 packaging and protection of the lubricated bolt, installation equipment, calibration
11 equipment, and installation procedures.
12
13 In the first sentence of the last paragraph, "AASHTO M 164" is revised to read "ASTM A
14 325".
15
16 The second sentence of the last paragraph is revised to read:
17
18 Black ASTM A 325 bolts may be reused once if accepted by the Engineer.
19 In the last paragraph, the fourth sentence is revised to read:
20
21 Bolts to be reused shall be relubricated in accordance with the manufacturer's
22 recommendations.
23
24 **6-03.3(33)A Pre-Erection Testing**
25 In the fifth sentence of the first paragraph, "approved" is revised to read "accepted".
26
27 The third paragraph is revised to read:
28
29 The Contractor shall submit Type 1 Working Drawings consisting of the manufacturer's
30 detailed procedure for pre-erection (rotational capacity) testing of tension control bolt
31 assemblies.
32
33 **6-03.3(33)B Bolting Inspection**
34 In the last sentence of the first paragraph, "approved" is revised to read "specified".
35
36 The last paragraph is revised to read:
37
38 The Contractor shall submit Type 1 Working Drawings consisting of the manufacturer's
39 detailed procedure for routine observation to ensure proper use of the tension control
40 bolt assemblies.
41
42 **6-03.3(42) Surface Condition**
43 The first subparagraph is revised to read:
44
45 Painted steel surfaces shall be cleaned by methods required for the type of staining.
46 The Contractor shall submit a Type 1 Working Drawing of the cleaning method.
47

1 **Section 6-04, Timber Structures**

2 **January 5, 2015**

3 **6-04.3(3) Shop Details**

4 This section is revised to read:

5

6 The Contractor shall submit Type 2 Working Drawings consisting of shop detail plans for
7 all treated timber. These plans shall show dimensions for all cut, framed, or bored
8 timbers.

9

10 **Section 6-05, Piling**

11 **January 5, 2015**

12 **6-05.3(2) Ordering Piling**

13 The last paragraph is deleted.

14

15 **6-05.3(3)A Casting and Stressing**

16 In the second sentence of the first paragraph, "poured" is revised to read "cast".

17

18 **6-05.3(4) Manufacture of Steel Casings for Cast-In-Place Concrete Piles**

19 This section is revised to read:

20

21 The diameter of steel casings shall be as specified in the Contract. A full-penetration
22 groove weld between welded edges is required.

23

24 **6-05.3(5) Manufacture of Steel Piles**

25 This section is revised to read:

26

27 Steel piles shall be made of rolled steel H-pile sections, steel pipe piles, or of other
28 structural steel sections described in the Contract. A full-penetration groove weld
29 between welded edges is required.

30

31 **6-05.3(6) Splicing Steel Casings and Steel Piles**

32 This section is revised to read:

33

34 The Engineer will normally permit steel piles and steel casings for cast-in-place
35 concrete piles to be spliced. But in each case, the Contractor shall submit Type 2
36 Working Drawings supporting the need and describing the method for splicing. Welded
37 splices shall be spaced at a minimum distance of 10 feet. Only welded splices will be
38 permitted.

39

40 Splice welds for steel piles shall comply with Section 6-03.3(25) and AWS D1.1/D1.1M,
41 latest edition, Structural Welding Code. Splicing of steel piles shall be performed in
42 accordance with an approved weld procedure. The Contractor shall submit a Type 2
43 Working Drawing consisting of the weld procedure. For ASTM A 252 material, mill
44 certification for each lot of pipe to be welded shall accompany the submittal. The ends of
45 all steel pipe piling shall meet the fit-up requirements of AWS D1.1/D1.1M, latest edition,
46 Structural Welding Code Section 5.22.3.1, "Girth Weld Alignment (Tubular)," when the
47 material is spliced utilizing a girth weld.

48

1 Splice welds of steel casings for cast-in-place concrete piles shall be the Contractor's
2 responsibility and shall be welded in accordance with AWS D1.1/D1.1M, latest edition,
3 Structural Welding Code. A weld procedure submittal is not required for steel casings
4 used for cast-in-place concrete piles. Casings that collapse or are not watertight, shall
5 be replaced at the Contractor's expense.
6

7 **6-05.3(7)B Precast Concrete Piles**

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

10 The Contractor shall submit Type 2 Working Drawings consisting of the method of lifting
11 the piles.
12

13 **6-05.3(8) Pile Tips and Shoes**

14 In the last paragraph, the second and third sentences are deleted and replaced with the
15 following new sentence:
16

17 If pile tips or shoes other than those denoted in the Qualified Products List are
18 proposed, the Contractor shall submit Type 2 Working Drawings consisting of shop
19 drawings of the proposed pile tip along with design calculations, specifications, material
20 chemistry and installation requirements, along with evidence of a pile driving test
21 demonstrating suitability of the proposed pile tip.
22

23 **6-05.3(9)A Pile Driving Equipment Approval**

24 In the first paragraph, the first sentence is revised to read:
25

26 Prior to driving any piles, the Contractor shall submit Type 2 Working Drawings
27 consisting of details of each proposed pile driving system.
28

29 In the second paragraph, the first sentence is revised to read:
30

31 The Contractor shall submit Type 2E Working Drawings consisting of a wave equation
32 analysis for all pile driving systems used to drive piling with required ultimate bearing
33 capacities of greater than 300 tons.
34

35 In the second paragraph, the second sentence is deleted.
36

37 The last paragraph is revised to read:
38

39 Changes to the pile driving system after completion of the Working Drawing review
40 require a revised Working Drawing submittal.
41

42 **6-05.3(9)B Pile Driving Equipment Minimum Requirements**

43 In the first paragraph, the first sentence is revised to read:
44

45 For each drop hammer used, the Contractor shall weigh it in the Engineer's presence or
46 submit a Type 1 Working Drawing consisting of a certificate of its weight.
47

48 In the third paragraph, the first sentence is revised to read:
49

1 For each diesel, hydraulic, steam, or air-driven hammer used, the Contractor shall
2 submit a Type 1 Working Drawing consisting of the manufacturer's specifications and
3 catalog.

4
5 In the fourth paragraph, "approval" is revised to read "permission".

6
7 The ninth paragraph is revised to read:

8
9 These requirements for minimum hammer size may be waived if a Type 2E Working
10 Drawing is submitted consisting of a wave equation analysis demonstrating the ability of
11 the hammer to obtain the required bearing capacity and minimum tip elevation without
12 damage to the pile.

13
14 **6-05.3(9)C Pile Driving Leads**

15 In the third paragraph, "approved" is revised to read "permitted".

16
17 **6-05.3(11)F Pile Damage**

18 In the first sentence of the second paragraph, "approved" is revised to read "accepted".

19
20 **6-05.3(11)G Pile Cutoff**

21 In the first paragraph, "Engineer's approval" is revised to read "Engineer's permission".

22
23 **6-05.3(11)H Pile Driving From or Near Adjacent Structures**

24 In the first paragraph, item number 3 is revised to read:

25
26 3. Type 2E Working Drawings are submitted in accordance with Sections 1-05.3 and 6-
27 02.3(16), showing the structural adequacy of the existing Structure to safely support
28 all of the construction loads.

29
30 **6-05.3(12) Determination of Bearing Values**

31 In the footnote below the formula, "approved by the Engineer" is revised to read "acceptable
32 to the Engineer".

33
34 **6-05.3(13) Treatment of Timber Pile Heads**

35 In the second paragraph, the first sentence is revised to read:

36
37 After cutting treated timber piles to correct elevation, the Contractor shall brush three
38 coats of a preservative that meets the requirements of Section 9-09 on all pile heads
39 (except those to be covered with concrete footings or concrete caps).

40
41 **6-05.3(15) Completion of Cast-In-Place Concrete Piles**

42 In the first paragraph, "approval" is revised to read "acceptance".

43
44 **Section 6-06, Bridge Railings**
45 **January 5, 2015**

46 **6-06.3(2) Metal Railings**

47 The second paragraph is revised to read:

48
49 Before fabricating the railing, the Contractor shall submit Type 2 Working Drawings
50 consisting of the shop plans. The Contractor may substitute other rail connection details

1 for those shown in the Plans if details of these changes show in the shop plans and if
2 the Engineer accepts them in the Working Drawing response comments. In reviewing
3 the shop plan Working Drawings, the Engineer indicates only that they are adequate
4 and complete enough. The review does not indicate a check on dimensions.
5

6 **Section 6-07, Painting**
7 **January 5, 2015**

8 **6-07.3 Painting**

9 This section is supplemented with the following new subsections:
10

11 **6-07.3(14) Metallic Coatings**

12
13 **6-07.3(14)A General Requirements**

14 This specification covers the requirements for thermal spray metallic coatings, with
15 and without additional paint coats, as a means to prevent corrosion.
16

17 The coating system consists of surface preparation by wash cleaning and abrasive
18 blast cleaning, thermal spray application of a metallic coating using a material
19 made specifically for that purpose, and, when specified, shop primer coat or shop
20 primer coat plus top coat in accordance with Section 6-07.3(11)A. The system also
21 includes inspection and acceptance requirements.
22

23 **6-07.3(14)B Reference Standards**

24	SSPC-SP 10/NACE No. 2	Near White Blast Cleaning
25	SSPC CS 23.00	Guide for Thermal Spray Metallic Coating Systems
26	ASTM-C-633	Standard Test Method for Adhesion or Cohesion Strength of Thermal Spray Coatings
27		
28	ASTM D 4417	Standard Test Methods for Field Measurement of Surface Profile of Blast-Cleaned Steel
29		
30	ASTM D 6386	Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting
31		
32		
33	ASTM D 4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
34		
35	ANSI/AWS C2.18	Guide for the Protection of Steel with Thermal Sprayed Coatings of Aluminum, Zinc and their Alloys and Composites
36		
37		
38		

39 **6-07.3(14)C Quality Assurance**

40 A representative sample of each lot of the coating material used shall be submitted
41 to the Engineer for analysis prior to use. Zinc shall have a minimum purity of 99.9
42 percent. Zinc Aluminum 85/15 wire shall be 14 percent minimum to 16 percent
43 maximum aluminum.
44

45 The thermal sprayed coating shall have a uniform appearance. The coating shall
46 not contain any blisters, cracks, chips or loosely adhering particles, oil or other
47 surface contaminants, nodules, or pits exposing the substrate.
48

1 The thermal spray coating shall adhere to the substrate with a minimum bond of
2 700 psi. The Contractor's QA program shall include thermal spray coating bond
3 testing.
4

5 The Engineer may cut through the coating with a knife or chisel. If upon doing so,
6 any part of the coating lifts away from the base metal 1/4 in. or more ahead of the
7 cutting blade without cutting the metal, then the bond is considered not effective
8 and is rejected.
9

10 Coated areas which have been rejected or damaged in the inspection procedure
11 described shall have the defective sections blast cleaned to remove all of the
12 thermal sprayed coating and shall then be recoated. Before resubmittal and
13 inspection, those sections where coating has not reached the required thickness
14 shall be sprayed with additional metal until that thickness is achieved.
15

16 **6-07.3(14)D Submittals**

17 The Contractor shall submit to the Engineer, prior to abrasive blast cleaning, a 12
18 inch square steel plate, of the same material and approximate thickness of the steel
19 to be coated, blasted clean in accordance with Section 6-07.3(14)E. The sample
20 plate will be checked for specified angular surface pattern, the abrasive grit size
21 and type used, and the procedure used. This plate shall be used as the visual
22 standard to determine the acceptability of the cleaned surface. In the event the
23 Contractor's cleaning operation is inferior to the sample plate, the Contractor shall
24 be required to correct the cleaning operation to do a job comparable to the
25 specimen submitted.
26

27 At the same time as submitting the abrasive blast cleaned steel plate sample, the
28 Contractor shall submit to the Engineer, a second 12 inch square steel plate of the
29 same material and thickness, cleaned and thermal spray coated in accordance with
30 the same processes and with the same equipment as intended for use in applying
31 the thermal spray coatings. The Engineer may request additional cleaned and
32 thermal spray coated samples to be produced and submitted coincident with
33 thermal spray coating of the items specified in the Plans to receive thermal spray
34 coatings.
35

36 **6-07.3(14)E Surface Preparation**

37 Surface irregularities (e.g., sharp edges and/or carburized edges, cracks,
38 delaminations, pits, etc.) interfering with the application of the coating shall be
39 removed or repaired, prior to wash cleaning. Thermal cut edges shall be ground to
40 reduce hardness to attain the surface profile required from abrasive blast cleaning.
41

42 All dirt, oil, scaling, etc. shall be removed prior to blast cleaning. All surfaces shall
43 be wash cleaned with either clean water at 8000 psi or water and detergent at 2000
44 psi with two rinses with clean water.
45

46 The surface shall be abrasive blast cleaned to near white metal (SSPC-SP 10).
47 The surface profile shall be measured using a surface profile comparator, replica
48 tape, or other method suitable for the abrasive being used in accordance with
49 ASTM D 4417.
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Where zinc coatings up to and including 0.009 inch thick are to be applied, one of the following abrasive grits shall be used with pressure blast equipment to produce a 3.0 mils AA anchor tooth pattern:

1. Aluminum oxide or silicon carbide
mesh size: SAE G-25 to SAE G-40
2. Hardened steel grit
mesh size: SAE G-25 to SAE G-40
3. Garnet, flint, or crushed nickel or black beauty coal slag
mesh size: SAE G-25 to SAE G-50

Where zinc coatings greater than 0.010 inch thick are to be applied, one of the following abrasive grits shall be used with pressure blast equipment to produce a 5.0 mils AA anchor tooth pattern:

1. Aluminum oxide or silicon carbide
mesh size: SAE G-18 to SAE G-25
2. Hardened steel grit
mesh size: SAE G-18 to SAE G-25
3. Garnet, flint, or crushed nickel or black beauty coal slag
mesh size: SAE G-18 to SAE G-25

The pressure of the blast nozzle, as measured with a needle probe gauge, with pressure type blasting equipment shall be as follows:

1. With aluminum oxide, silicon carbide, flint, or slag - 50 psi minimum and 60 psi maximum.
2. With garnet or steel grit - 75 psi minimum.

The pressure at the blast nozzle, with siphon blasting (suction blasting), shall be as follows:

1. With aluminum oxide, silicon carbide, flint, or slag - 75 psi maximum.
2. With garnet or steel grit - 90 psi maximum.

The abrasive blast stream shall be directed onto the substrate surface at a spray angle of 75 to 90 degrees, and moved side to side. The nozzle to substrate distance shall be 4 to 12 inches.

6-07.3(14)F Application of Metallic Coating

No surface shall be sprayed which shows any sign of condensed moisture or which does not comply with Section 6-07.3(14)E. If rust bloom occurs within the holding time between abrasive blast cleaning and thermal spraying, the surface shall be reblasted at a blast angle as close to perpendicular to the surface as possible to achieve a 2.0 to 4.0 mil anchor tooth pattern. Thermal spraying shall not take place when the relative humidity is 90% or greater, when the steel temperature is less

1 than 5°F above the dew point, or when the air or steel temperature is less than
2 40°F.

3
4 Clean, dry air shall be used with not less than 50 psi air pressure at the air
5 regulator. Not more than 50 feet of 3/8 in. ID hose shall be used between the air
6 regulator and the metallizing gun. The metallizing gun shall be started and
7 adjusted with the spray directed away from the work. During the spraying operation
8 and depending upon the equipment being used, the gun shall be held as close to
9 perpendicular as possible to the surface from 5 to 8 inches from the surface of the
10 work.

11
12 Manual spraying shall be done in a block pattern, typically 2 feet by 2 feet square.
13 The sprayed metal shall overlap on each pass to ensure uniform coverage. The
14 specified thickness of the coating shall be applied in multiple layers. In no case are
15 fewer than two passes of thermal spraying, overlapping at right angles, acceptable.

16
17 At least one single layer of coating shall be applied within 4 hours of blasting and
18 the surface shall be completely coated to the specified thickness within 8 hours of
19 blasting.

20
21 The minimum coating thickness shall be 6 mils unless otherwise shown in the
22 Plans.

23
24 **6-07.3(14)G Applications of Shop Coats and Field Coats**

25 The surface shall be wiped clean with solvent immediately before applying the
26 wash primer. The wash primer shall have a low viscosity appropriate for absorption
27 into the thermal spray coating, and shall be applied within 8 hours after completion
28 of thermal spraying or before oxidation occurs. The dry film thickness of the wash
29 primer shall not exceed 0.5 mils or be less than 0.3 mils. It shall be applied using
30 an appropriate spray gun except in those areas where brush or roller application is
31 necessary. The subsequent shop primer or field coats shall be applied no less than
32 one-half hour after a wash primer.

33
34 The shop primer coat, when specified, shall be applied in accordance with Section
35 6-07.3(11)A and the paint manufacturer's recommendations.

36
37 All field coats, when specified, shall be applied in accordance with Section 6-
38 07.3(11)A and the paint manufacturer's recommendations. The color of the top
39 coat shall conform to Section 6-03.3(30) as supplemented in these Special
40 Provisions.

41
42 **6-07.3(2) Submittals**

43 The first paragraph is revised to read:

44
45 The Contractor shall submit Type 2 Working Drawings of the painting plan.

46
47 **6-07.3(10)A Containment**

48 The second paragraph is revised to read:

49
50 The containment length shall not exceed the length of a span (defined as pier to pier).
51 The containment system shall not cause any damage to the existing structure. All
52 clamps and other attachment devices shall be padded or designed such that they shall

1 not mark or otherwise damage the steel member to which they are attached. All clamps
2 and other attachment devices shall be fully described in the Contractor's painting plan
3 Working Drawing submittal. Field welding of attachments to the existing structure will
4 not be allowed. The Contractor shall not drill holes into the existing structure or through
5 existing structural members except as shown in the Contractor's painting plan Working
6 Drawing submittal. All provisions for dust collection, ventilation and auxiliary lighting
7 within the containment system shall be fully described the Contractor's painting plan
8 Working Drawing submittal.
9

10 In the second to last paragraph, "approved" is revised to read "accepted".
11

12 **6-07.3(10)E Surface Preparation – Full Paint Removal**

13 This section is revised to read:
14

15 For structures where full removal of existing paint is specified, the Contractor shall
16 remove any visible oil, grease, and road tar in accordance with SSPC-SP 1.
17

18 Following preparation by SSPC-SP 1, all steel surfaces to be painted shall be prepared
19 in accordance with SSPC-SP 10, near-white metal blast cleaning. Surfaces inaccessible
20 to near-white metal blast cleaning shall be prepared in accordance with SSPC-SP 11,
21 power tool cleaning to bare metal, as allowed by the Engineer.
22

23 **6-07.3(10)F Collecting, Testing and Disposal of Containment Waste**

24 In the first paragraph, the last sentence before the numbered list is revised (up until the
25 colon) to read:
26

27 The sealed waste containers shall be stored in accordance with Section 1-06.4, the
28 painting plan, and the following requirements:
29

30 In the second paragraph, the first sentence is revised to read:
31

32 All material collected by and removed from the containment system shall be taken to a
33 landside staging area, provided by the Contractor, for further processing and storage
34 prior to transporting for disposal.
35

36 The ninth paragraph is revised to read:
37

38 The Contractor shall submit a Type 1 Working Drawing of all TCLP results.
39

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

42 The Contractor shall submit a Type 1 Working Drawing consisting of waste disposal
43 documentation within 15 working days of each disposal.
44

45 **6-07.3(10)K Coating Thickness**

46 The last paragraph is revised to read:
47

48 If the specified number of coats does not produce a combined dry film thickness of at
49 least the sum of the thicknesses required per coat, or if an individual coat does not meet
50 the minimum thickness, or if visual inspection shows incomplete coverage, the coating
51 system will be rejected, and the Contractor shall discontinue painting and surface
52 preparation operations and shall submit a Type 2 Working Drawing of the repair

1 proposal. The repair proposal shall include documentation demonstrating the cause of
2 the less than minimum thickness along with physical test results, as necessary, and
3 modifications to work methods to prevent similar results. The Contractor shall not
4 resume painting or surface preparation operations until receiving the Engineer's
5 acceptance of the completed repair.
6

7 **6-07.3(10)L Environmental Condition Requirements Prior to Application of**
8 **Paint**

9 In the last paragraph, the second to last sentence is revised to read:

10

11 If a paint system manufacturer's recommendations allow for application of a paint under
12 environmental conditions other than those specified, the Contractor shall submit a Type
13 2 Working Drawing consisting of a letter from the paint manufacturer specifying the
14 environmental conditions under which the paint can be applied.
15

16

16 In the last sentence of the last paragraph, "approval" is revised to read "concurrence".
17

18

18 **6-07.3(11)B1 Submittals**

19

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

20

21 The Contractor shall submit Type 2 Working Drawings consisting of the following
22 information:
23

24

24 **6-07.3(11)B3 Galvanized Surface Cleaning and Preparation**

25

25 The first paragraph is revised to read:

26

27 Galvanized surfaces receiving the powder coating shall be cleaned and prepared for
28 coating in accordance with ASTM D 6386, and the project-specific powder coating plan.
29

30

30 **6-07.3(11)B4 Powder Coating Application and Curing**

31

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

32

33 After surface preparation, the two-component powder coating shall be applied in
34 accordance with the powder coating manufacturer's recommendations, the project-
35 specific powder coating plan, and as follows:
36

37

37 **6-07.3(11)B5 Testing**

38

38 In the fifth sentence of the first paragraph, the phrase "as approved by the Engineer" is
39 deleted.
40

41

41 The second paragraph is revised to read:

42

43 The results of the QC testing shall be documented in a QC report, and submitted as a
44 Type 2 Working Drawing.
45

46

46 In the fourth paragraph, the phrase "as approved by the Engineer" is deleted.
47

48

48 In the last paragraph, "Engineer's approval" is revised to read "Engineer's acceptance".
49

50

50 **6-07.3(11)B6 Coating Protection for Shipping**

51

51 The phrase "as approved by the Engineer" is deleted from this section.

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

After erection, all coating damage due to the Contractor's shipping, storage, handling, and erection operations shall be repaired by the Contractor in accordance with the project-specific powder coating plan.

6-07.5 Payment

The following new paragraph is inserted before the last paragraph:

All costs in connection with producing the metallic coatings as specified shall be included in the unit contract price for the applicable item or items of work.

**Section 6-09, Modified Concrete Overlays
January 5, 2015**

6-09.2 Materials

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

Microsilica will be accepted based on submittal of a Manufacturer's Certificate of Compliance.

The seventh paragraph is revised to read:

Latex admixture will be accepted based on submittal of a Manufacturer's Certificate of Compliance.

6-09.3(1)H Mobile Mixer for Latex Modified Concrete

In item number 2 of the first paragraph, "An approved recording meter" is revised to read "A recording meter".

In item number 3 of the first paragraph, "an approved flow meter" is revised to read "a flow meter".

6-09.3(1)J Finishing Machine

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

A machine with a vibrating pan as an integral part may be proposed. Other finishing machines will be allowed subject to concurrence of the Engineer.

6-09.3(2) Submittals

This section is revised to read:

The Contractor shall submit the following Working Drawings in accordance with Section 1-05.3:

1. A Type 1 Working Drawing of the type of machine (rotary milling, hydro-demolition, or shot blasting) selected by the Contractor for use in this project to scarify concrete surfaces.

- 1 2. A Type 1 Working Drawing of the axle loads and axle spacing of the rotary
2 milling machine (if used).
- 3
- 4 3. A Type 2 Working Drawing of the Runoff Water Disposal Plan (if a hydro-
5 demolition machine is used). The Runoff Water Disposal Plan shall describe all
6 provisions for the containment, collection, filtering, and disposal of all runoff
7 water and associated contaminants generated by the hydro-demolition process,
8 including containment, collection and disposal of runoff water and debris
9 escaping through breaks in the bridge deck.
- 10
- 11 4. A Type 2 Working Drawing of the method and materials used to contain, collect,
12 and dispose of all concrete debris generated by the scarifying process,
13 including provisions for protecting adjacent traffic from flying debris.
- 14
- 15 5. A Type 1 Working Drawing of the mix design for concrete Class M, and either fly
16 ash modified concrete, microsilica modified concrete, or latex modified
17 concrete, as selected by the Contractor for use in this project in accordance
18 with Section 6-09.3(3).
- 19
- 20 6. A Type 1 Working Drawing of samples of the latex admixture and the portland
21 cement for testing and compatibility (if latex modified concrete is used).
- 22
- 23 7. A Type 2 Working Drawing of the paving equipment specifications and details of
24 the screed rail support system, including details of anchoring the rails and
25 providing rail continuity.
- 26

27 **6-09.3(3)A General**

28 In the last paragraph, the phrase “and as approved by the Engineer” is deleted.

29

30 **6-09.3(4)B Latex Admixture**

31 In the second sentence of the second paragraph, the phrase “and as approved by the
32 Engineer” is deleted.

33

34 **6-09.3(5)A General**

35 The second paragraph is deleted.

36

37 In the third and fourth paragraphs, the phrase “and as approved by the Engineer” is deleted.

38

39 In the fifth paragraph, “approved by the Engineer” is revised to read “acceptable to the
40 Engineer”.

41

42 **6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines**

43 In the last sentence of the last paragraph, “approval” is revised to read “acceptance”.

44

45 **6-09.3(5)C Hydro-Demolishing**

46 In the third and fourth paragraphs, the phrase “as approved by the Engineer” is deleted.

47

48 **6-09.3(6)B Deck Repair Preparation**

49 The second to last paragraph is revised to read the following three new paragraphs:

50

1 The exposed steel reinforcing bars and concrete in the repair area shall be sandblasted
2 or hydro-blasted and blown clean just prior to placing concrete.
3
4 Where existing steel reinforcing bars inside deck repair areas show deterioration
5 exceeding the limits defined in the Plans, the Contractor shall furnish and place steel
6 reinforcing bars alongside the deteriorated bars in accordance with the details shown in
7 the Plans. Payment for such extra Work will be by force account as provided in Section
8 1-09.6.
9
10 Bridge deck areas outside the repair area or steel reinforcing bar inside or outside the
11 repair area damaged by the Contractor's operations, shall be repaired by the Contractor
12 at no additional expense to the Contracting Agency, and to the satisfaction of the
13 Engineer.
14
15 **6-09.3(6)C Placing Deck Repair Concrete**
16 The third paragraph is supplemented with the following:
17
18 The Work of Type 1 further deck preparation shall consist of removing and disposing of
19 the concrete within the repair area.
20
21 The following new sentence is inserted before the last sentence of the last paragraph:
22
23 The Work of Type 2 further deck preparation shall consist of removing and disposing of
24 concrete within the repair area, and furnishing, placing, finishing, and curing the repair
25 concrete.
26
27 **6-09.3(7) Surface Preparation for Concrete Overlay**
28 The first sentence of the second paragraph is revised to read:
29
30 If either a rotary milling machine or a shot blasting machine is used for concrete
31 scarification, then the concrete deck shall be sandblasted or shot blasted, using
32 equipment identified in the Working Drawing submittals, until sound concrete is
33 exposed.
34
35 The third paragraph is revised to read:
36
37 If a hydro-demolition machine is used for concrete scarification, then the concrete deck
38 shall be cleaned by water blasting with 7,000 psi minimum pressure, until sound
39 concrete is exposed.
40
41 In the fourth paragraph, "as approved by the Engineer" is revised to read "accepted by the
42 Engineer".
43
44 In the last sentence of the eighth paragraph, the phrase "as approved by the Engineer" is
45 deleted.
46
47 In the first sentence of the last paragraph, "approved" is revised to read "allowed".
48
49 **6-09.3(8)B Quality Assurance for Latex Modified Concrete Overlays**
50 The second sentence of the last paragraph is revised to read:
51

1 The technical representative shall be capable of performing, demonstrating, inspecting,
2 and testing all of the functions required for placement of the latex modified concrete as
3 specified in Section 6-09.3(11).
4

5 The fourth sentence of the last paragraph is revised to read:
6

7 Recommendations made by the technical representative on or off the jobsite shall be
8 adhered to by the Contractor at no additional expense to the Contracting Agency.
9

10 **6-09.3(10)A Survey of Existing Bridge Deck Prior to Scarification**

11 The third sentence of the fourth paragraph is revised to read:
12

13 A Type 1 Working Drawing of each day's survey record shall be provided to the
14 Engineer within three working days after the end of the shift.
15

16 **6-09.3(10)B Establishing Finish Overlay Profile**

17 In the fourth sentence of the first paragraph, "approved by the Engineer" is revised to read
18 "specified by the Engineer".
19

20 In the second paragraph, the phrase "and as approved by the Engineer" is deleted.
21

22 **6-09.3(11) Placing Concrete Overlay**

23 In the fourth paragraph, the last sentence of item number 3 is revised to read:
24

25 If the Contractor elects to work at night to meet these criteria, adequate lighting shall be
26 provided at no additional expense to the Contracting Agency.
27

28 **6-09.4 Measurement**

29 The last paragraph is deleted and replaced with the following:
30

31 Further deck preparation for Type 1 deck repair and for Type 2 deck repair will be
32 measured by the square foot of surface area of deck concrete removed in accordance
33 with Section 6-09.3(6).
34

35 **6-09.5 Payment**

36 The Bid item "Further Deck Preparation", per cubic foot and the paragraph following this Bid
37 item are deleted and replaced with the following two new Bid items:
38

39 "Further Deck Preparation for Type 1 Deck Repair", per square foot.
40

41 "Further Deck Preparation for Type 2 Deck Repair", per square foot.
42

43 The Bid item "Further Deck Preparation", force account and the paragraph following this Bid
44 item are deleted.
45

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

47 **January 5, 2015**

48 **6-10.1 Description**

49 In the second paragraph, "approved" is revised to read "specified".
50

1 **6-10.3 Construction Requirements**
2 In the first paragraph, “approved” is revised to read “specified”.
3
4 **6-10.3(5) Temporary Concrete Barrier**
5 The last sentence of the first paragraph is deleted.
6
7 The second paragraph is revised to read:
8
9 If the Contract calls for the removal and resetting of permanent barrier, and the
10 permanent barrier is not required to remain in place until reset, the permanent barrier
11 may be substituted for temporary concrete barrier. Any of the permanent barrier
12 damaged during its use as temporary barrier will become the property of the Contractor
13 and be replaced with permanent barrier when the permanent barrier is reset to its
14 permanent location.
15
16 The third paragraph is revised to read:
17
18 All barrier shall be in good condition, without cracks, chips, spalls, dirt, or traffic marks. If
19 any barrier segment is damaged during or after placement, the Contractor shall
20 immediately repair it to the Engineer’s satisfaction or replace it with an undamaged
21 section.
22
23 The following new paragraph is inserted after the third paragraph:
24
25 Delineators shall be placed on the traffic face of the barrier 6 inches from the top and
26 spaced a maximum of 40 feet on tangents and 20 feet through curves. The reflector
27 color shall be white on the right side of traffic and yellow on the left side of traffic. The
28 Contractor shall maintain, replace and clean the delineators when ordered by the
29 Engineer.
30
31 **Section 6-11, Reinforced Concrete Walls**
32 **January 5, 2015**
33 **6-11.3(1) Submittals**
34 The first paragraph is revised to read:
35
36 The Contractor shall submit Type 2E Working Drawings consisting of excavation shoring
37 plans in accordance with Section 2-09.3(3)D.
38
39 The second paragraph is revised to read:
40
41 The Contractor shall submit Type 2E Working Drawings of falsework and formwork
42 plans in accordance with Sections 6-02.3(16) and 6-02.3(17).
43
44 The third paragraph (up until the colon) is revised to read:
45
46 If the Contractor elects to fabricate and erect precast concrete wall stem panels, Type
47 2E Working Drawings of the following information shall be submitted in accordance with
48 Section 6-02.3(28)A:
49
50 The last paragraph is deleted.

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6-11.3(3) Precast Concrete Wall Stem Panels

In the third paragraph, the phrase “as approved by the Engineer” is deleted.

**Section 6-12, Noise Barrier Walls
January 5, 2015**

6-12.3(1) Submittals

In the first paragraph, the second sentence is revised to read:

The Contractor shall submit a Type 2 Working Drawing consisting of the noise barrier wall access plan.

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

For construction of all noise barrier walls with shafts, the Contractor shall submit a Type 2 Working Drawing consisting of the shaft construction plan, including at a minimum the following information:

In the third paragraph, the first sentence is revised to read:

For construction of precast concrete noise barrier walls, the Contractor shall submit Type 2 Working Drawings consisting of shop drawings for the precast concrete panels in accordance with Section 6-02.3(28)A.

6-12.3(2) Work Access and Site Preparation

In the first paragraph, the first sentence is revised to read:

The Contractor shall construct work access in accordance with the work access plan.

6-12.3(3) Shaft Construction

The first paragraph is revised to read:

The Contractor shall excavate and construct the shafts in accordance with the shaft construction plan.

In the last sentence of the third paragraph, “approved by the Engineer” is revised to read “acceptable to the Engineer”.

The fourth paragraph is revised to read:

When caving conditions are encountered, the Contractor shall stop further excavation until implementing the method to prevent ground caving as specified in the shaft construction plan.

In the last sentence of the fifth paragraph, “approved” is revised to read “accepted”.

In the seventh paragraph, “approval” is revised to read “acceptance”.

In the eighth paragraph, the third sentence is revised to read:

1 The Contractor shall install the steel reinforcing bar cage as specified in the shaft
2 construction plan.

3
4 In the second sentence of the last paragraph, “approval” is revised to read “acceptance”.

5
6 In the fourth sentence of the last paragraph, the word “approved” is deleted.

7
8 **6-12.3(6) Precast Concrete Panel Fabrication and Erection**

9 In item number 3, the second paragraph is revised to read:

10

11 After receiving the Engineer’s review of the shop drawings, the Contractor shall cast
12 one precast concrete panel to be used as the sample panel. The Contractor shall
13 construct the sample panel in accordance with the procedure and details specified in
14 the shop drawings. The Contractor shall make the sample panel available to the
15 Engineer for acceptance.

16

17 In item number 3, the first sentence of the third paragraph is revised to read:

18

19 Upon receiving the Engineer’s acceptance of the sample panel, the Contractor shall
20 continue production of precast concrete panels for the noise barrier wall.

21

22 In item number 3, the third sentence of the third paragraph is revised to read:

23

24 The sample panel shall be retained at the fabrication site until all precast concrete
25 panels have been fabricated and accepted.

26

27 **6-12.3(10) Finish Line Ground Dressing**

28 In the last sentence of the second paragraph, the phrase “as approved by the Engineer” is
29 deleted.

30

31 **Section 6-13, Structural Earth Walls**

32 **January 5, 2015**

33 **6-13.3(1) Quality Assurance**

34 In the first paragraph, the first sentence is revised to read:

35

36 The structural earth wall manufacturer shall provide a qualified and experienced
37 representative to resolve wall construction problems.

38

39 In the first paragraph, the last sentence is revised to read:

40

41 Recommendations made by the structural earth wall manufacturer’s representative shall
42 be followed by the Contractor.

43

44 In the second paragraph, item number 4 is revised to read:

45

46 4. The base of the structural earth wall excavation shall be within three inches of the
47 staked elevations, unless otherwise accepted or specified by the Engineer.

48

49 In the second paragraph, item number 6 is revised to read:

50

1 6. The backfill reinforcement layers shall be located horizontally and vertically within
2 one inch of the locations shown in the structural earth wall working drawings.
3

4 **6-13.3(2) Submittals**

5 In the first paragraph, the first sentence is revised to read:
6

7 The Contractor, or the supplier as the Contractor's agent, shall furnish a Manufacturer's
8 Certificate of Compliance certifying that the structural earth wall materials conform to
9 the specified material requirements.
10

11 The second paragraph is revised to read:
12

13 A Type 1 Working Drawing of all test results, performed by the Contractor or the
14 Contractor's supplier, which are necessary to assure compliance with the specifications,
15 shall submitted along with each Manufacturer's Certificate of Compliance.
16

17 In the third paragraph, the first sentence is revised to read:
18

19 Before fabrication, the Contractor shall submit a Type 1 Working Drawing consisting of
20 the field construction manual for the structural earth walls, prepared by the wall
21 manufacturer.
22

23 In the fourth paragraph, the first sentence is revised to read:
24

25 The Contractor, through the license/patent holder for the structural earth wall system,
26 shall submit Type 2E Working Drawings consisting of detailed design calculations and
27 details.
28

29 The last paragraph is deleted.
30

31 **6-13.3(3) Excavation and Foundation Preparation**

32 In the first paragraph, the last two sentences are revised to read:
33

34 The foundation for the structure shall be graded level for a width equal to or exceeding
35 the length of reinforcing as shown in the structural earth wall working drawings and, for
36 walls with geogrid reinforcing, in accordance with Section 2-12.3. Prior to wall
37 construction, the foundation, if not in rock, shall be compacted as accepted by the
38 Engineer.
39

40 **6-13.3(6) Welded Wire Faced Structural Earth Wall Erection**

41 The first two sentences are revised to read:
42

43 The Contractor shall erect the welded wire wall reinforcement in accordance with the
44 wall manufacturer's field construction manual. Construction geotextile for wall facing
45 shall be placed between the backfill material within the reinforced zone and the coarse
46 granular material immediately behind the welded wire wall facing, as shown in the Plans
47 and the structural earth wall working drawings.
48

49 **6-13.3(7) Backfill**

50 The third paragraph is revised to read:
51

1 Misalignment or distortion of the precast concrete facing panels or concrete blocks due
2 to placement of backfill outside the limits of this specification shall be corrected in a
3 manner acceptable to the Engineer.
4

5 In item number 4 of the fifth paragraph, the phrase “as approved by the Engineer” is deleted.
6

7 The last paragraph is deleted.
8

9 **6-13.3(8) Guardrail Placement**

10 In the first sentence of the second paragraph, “approval” is revised to read “permission”.
11

12 **6-13.3(9) SEW Traffic Barrier and SEW Pedestrian Barrier**

13 The first paragraph (up until the colon) is revised to read:
14

15 The Contractor, in conjunction with the structural earth wall manufacturer, shall design
16 and detail the SEW traffic barrier and SEW pedestrian barrier in accordance with
17 Section 6-12.3(2) and the above ground geometry details shown in the Plans. The
18 barrier Working Drawings and supporting calculations shall be Type 2E and shall
19 include, at a minimum, the following:
20

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

22 **January 5, 2015**

23 **6-14.2 Materials**

24 In the first paragraph, the section number next to “Anchor rods and associated nuts, washers
25 and couplers” is revised to read:
26

27 9-06.5(4)
28

29 The following new paragraph is inserted after the first paragraph:
30

31 Anchor plate shall conform to ASTM A 36, ASTM A 572 Grade 50, or ASTM A 588.
32

33 **6-14.3(2) Submittals**

34 The first paragraph (up until the colon) is revised to read:
35

36 The Contractor shall submit Type 2 Working Drawings consisting of detailed plans for
37 each wall. As a minimum, the submittals shall include the following:
38

39 **6-14.3(4) Erection and Backfill**

40 In the second sentence of the second paragraph, “approved by” is revised to read
41 “acceptable to”.
42

43 In the last sentence of the fifth paragraph, “approval” is revised to read “permission”.
44

45 The sixth paragraph is deleted.
46

47 In item number 5 in the eighth paragraph, the phrase “as approved by the Engineer” is
48 deleted.
49

50 In the ninth paragraph, the first sentence is revised to read:

1
2 The Contractor shall construct wall corners at the locations shown in the Plans, and in
3 accordance with the wall corner construction sequence and method in the Working
4 Drawing submittal.

5
6 In the last paragraph, the first sentence is revised to read:

7
8 Where required by retaining wall profile grade, the Contractor shall terminate top layers
9 of retaining wall geosynthetic and backfill in accordance with the method in the Working
10 Drawing submittal.

11
12 **6-14.5 Payment**

13 In the paragraph following the Bid item "Concrete Fascia Panel", per square foot, "concrete
14 leveling pad" is revised to read "concrete footing".

15
16 **Section 6-15, Soil Nail Walls**
17 **January 15, 2015**

18 **6-15.3(3) Submittals**

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

20
21 The Contractor shall submit Type 2 Working Drawings of the following information:

22
23 **6-15.3(6) Soil Nailing**

24 In the first paragraph, the last sentence is revised to read:

25
26 Damaged or defective encapsulation shall be repaired in accordance with the
27 manufacturer's recommendations.

28
29 The eighth paragraph is revised to read:

30
31 If sections of the wall are constructed at different times than the adjacent soil nail
32 sections, the Contractor shall use stabilizing berms, temporary slopes, or other
33 measures acceptable to the Engineer, to prevent sloughing or failure of the adjacent soil
34 nail sections.

35
36 **6-15.3(8) Soil Nail Testing and Acceptance**

37 In the first paragraph, the second sentence is revised to read:

38
39 The Contractor shall submit Type 1 Working Drawings of all test data.

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

42
43 The Contractor shall submit Type 2E Working Drawings of the reaction frame.

44
45 **6-15.3(8)A Verification Testing**

46 In the third paragraph, the first sentence is revised to read:

47
48 The Contractor shall submit Type 2E Working Drawings consisting of design details of
49 the verification testing, including the system for distributing test load pressures to the
50 excavation surface and appropriate nail bar size and reaction plate.

1
2 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**
3 **January 5, 2015**

4 **6-16.3(2) Submittals**

5 The first paragraph is revised to read:

6
7 The Contractor shall submit Type 2 Working Drawings consisting of shop plans as
8 specified in Section 6-03.3(7) for all structural steel, including the steel soldier piles, and
9 shall submit Type 2 Working Drawings consisting of shop plans and other details as
10 specified in Section 6-17.3(3) for permanent ground anchors.

11
12 The second paragraph is revised to read:

13
14 The Contractor shall submit Type 1 Working Drawings consisting of the permanent
15 ground anchor grout mix design and the procedures for placing the grout.

16
17 The third paragraph (excluding the numbered list) is revised to read:

18
19 The Contractor shall submit Type 2E Working Drawings consisting of forming plans for
20 the concrete fascia panels, as specified in Sections 6-02.3(16) and 6-02.3(17).

21
22 In the fourth paragraph, the first sentence is revised to read:

23
24 The Contractor shall submit Type 2 Working Drawings consisting of a shaft installation
25 plan.

26
27 The last paragraph is deleted.

28
29 **6-16.3(3) Shaft Excavation**

30 In the third paragraph, the last sentence is revised to read:

31
32 A temporary casing, slurry, or other methods specified in the shaft installation plan shall
33 be used if necessary to ensure such safety and stability.

34
35 The fourth paragraph is revised to read:

36
37 Where caving in conditions are encountered, no further excavation will be allowed until
38 the Contractor has implemented the method to prevent ground caving as submitted in
39 accordance with item 4 of the Shaft Installation Plan.

40
41 The sixth paragraph is revised to read:

42
43 The excavated shaft shall be inspected and receive acceptance by the Engineer prior to
44 proceeding with construction.

45
46 **6-16.3(6)B Temporary Lagging**

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

48

1 The Contractor shall submit Type 2E Working Drawings consisting of the soldier pile
2 wall lagging design details and supporting design calculations. The submittal shall
3 include, at a minimum, the following:
4

5 In item number 4 of the second paragraph, "approved by" is revised to read "acceptable to".
6

7 The last paragraph (excluding the table) is revised to read:
8

9 Notwithstanding the requirements of Section 1-06.1, steel materials used by the
10 Contractor as temporary lagging may be salvaged steel provided that the use of such
11 salvaged steel materials shall be subject to visual inspection and acceptance by the
12 Engineer. For salvaged steel materials where the grade of steel cannot be positively
13 identified, the design stresses for the steel shall conform to the Section 6-02.3(17)B
14 requirements for salvaged steel, regardless of whether rivets are present or not.
15

16 **6-16.3(6)D Installing Lagging and Permanent Ground Anchor**

17 In the last sentence of the second paragraph, the phrase "as approved by the Engineer" is
18 deleted.
19

20 In the last sentence of the fourth paragraph, the phrase "as approved by the Engineer" is
21 deleted.
22

23 **6-16.3(8) Concrete Fascia Panel**

24 In the first paragraph, the phrase "as approved by the Engineer" is deleted.
25
26

27 **Section 6-17, Permanent Ground Anchors** 28 **January 5, 2015**

29 **6-17.3(3) Submittals**

30 The first paragraph is revised to read:
31

32 The Contractor shall submit Type 2 Working Drawings consisting of details and
33 structural design calculations for the ground anchor system or systems intended for use.
34

35 The second paragraph is revised to read:
36

37 The Contractor shall submit a Type 1 Working Drawing consisting of a detailed
38 description of the construction procedure proposed for use.
39

40 The third paragraph (up until the colon) is revised to read:
41

42 The Contractor shall submit a Type 2 Working Drawing consisting of ground anchor
43 schedule giving:
44

45 In the fourth paragraph, the first sentence is revised to read:
46

47 The Contractor shall submit a Type 2 Working Drawing detailing the ground anchor
48 tendon and the corrosion protection system.
49

50 In the fourth paragraph, item number 3 is revised to read:

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- 3. Unbonded length corrosion protection system, including the permanent rubber seal between the trumpet and the tendon unbonded length corrosion protection and the transition between the tendon bond length and the unbonded tendon length corrosion protection.

The last five paragraphs are deleted and replaced with the following four new paragraphs:

The Contractor shall submit Type 2 Working Drawings consisting of shop plans as specified in Section 6-03.3(7) for all structural steel, including the permanent ground anchors.

The Contractor shall submit Type 1 Working Drawings consisting of the mix design for the grout conforming to Section 9-20.3(4) and the procedures for placing the grout. The Contractor shall also submit the methods and materials used in filling the annulus over the unbonded length of the anchor.

The Contractor shall submit Type 2 Working Drawings consisting of the method proposed to be followed for the permanent ground anchor testing. This shall include all necessary drawings and details to clearly describe the method proposed.

The Contractor shall submit Type 2 Working Drawings consisting of calibration data for each load cell, test jack, pressure gauge and master pressure gauge to be used. The calibration tests shall have been performed by an independent testing laboratory and tests shall have been performed within 60 calendar days of the date submitted.

6-17.3(5) Tendon Fabrication

In the tenth paragraph, the last sentence is deleted.

The twelfth paragraph is revised to read:

The total anchor length shall not be less than that indicated in the Plans or the Working Drawing submittal.

In the last paragraph, the phrase “as approved by the Engineer” is deleted.

6-17.3(7) Installing Permanent Ground Anchor

In the second paragraph, the third sentence is revised to read:

The Contractor’s method to prevent ground movement shall be submitted as a Type 2 Working Drawing.

In the second paragraph, the second to last sentence is revised to read:

At the point of entry the ground anchor shall be installed within plus or minus three degrees of the inclination from horizontal shown in the Plans or the Working Drawing submittal.

1 **Section 6-18, Shotcrete Facing**

2 **January 5, 2015**

3 **6-18.3(1) Submittals**

4 In the first paragraph, the first sentence (up until the colon) is revised to read:

5

6 The Contractor shall submit Type 2 Working Drawings consisting of the following:

7

8 In the first paragraph, item number 2 is revised to read:

9

10 2. Method and equipment used to apply, finish and cure the shotcrete facing.

11

12 The last paragraph is deleted.

13

14 **6-18.3(2) Mix Design**

15 In the first paragraph, the second and third sentences are deleted.

16

17 In the last sentence of the second paragraph, "and approved by the Engineer" is deleted.

18

19 **6-18.3(3)A Preproduction Testing**

20 In the last sentence, "approved" is revised to read "accepted".

21

22 **6-18.3(7) Shotcrete Application**

23 In the last paragraph, the first sentence is revised to read:

24

25 If field inspection or testing, by the Engineer, indicates that any shotcrete produced, fails
26 to meet the requirements, the Contractor shall immediately modify procedures,
27 equipment, or system, as necessary to produce specification material.

28

29 **Section 6-19, Shafts**

30 **April 6, 2015**

31 **6-19.3(2) Shaft Construction Submittal**

32 The last sentence is revised to read:

33

34 The submittals shall be Type 2 Working Drawings, except the shaft slurry technical
35 assistance submittal shall be Type 1.

36

37 **6-19.3(3) Shaft Excavation**

38 In the first paragraph, the phrase "as approved by the Engineer" is deleted.

39

40 **6-19.3(3)B4 Temporary Telescoping Shaft Casing**

41 In the first paragraph, the first sentence of item number 1 is revised to read:

42

43 The Contractor shall submit the request to use temporary telescoping casing as a Type
44 2 Working Drawing.

45

46 **6-19.3(3)D Bottom of Shaft Excavation**

47 In the first sentence of the second paragraph, "approved" is revised to read "accepted".

48

1 **6-19.3(3)E Shaft Obstruction**
2 In the last sentence, “approved” is revised to read “accepted”.
3
4 **6-19.3(3)F Voids Between Permanent Casing and Shaft Excavation**
5 In the last sentence, the words “and as approved by the Engineer” are deleted.
6
7 **6-19.3(3)G Operating Shaft Excavation Equipment From an Existing Bridge**
8 The second sentence is revised to read:
9
10 If necessary and safe to do so, and if the Contractor submits a Type 2 Working Drawing
11 consisting of a written request in accordance with Section 6-01.6, the Engineer may
12 permit operation of drilling equipment on a bridge.
13
14 **6-19.3(3)H Seals for Shaft Excavation in Water**
15 The first paragraph is revised to read:
16
17 When shafts are constructed in water and the Plans show a seal between the casing
18 shoring and the upper portion of the permanent casing of the shaft, the Contractor shall
19 construct a seal in accordance with the shaft installation narrative specified in Section 6-
20 19.3(2)B Item 7.
21
22 The last sentence of the last paragraph is revised to read:
23
24 If the Contractor uses a casing shoring diameter other than that specified in the Plans,
25 the Contractor shall submit a revised seal design in accordance with Section 6-19.3(2)B
26 Item 7.
27
28 **6-19.3(4)C Slurry Sampling and Testing**
29 The second to last sentence of the first paragraph is revised to read:
30
31 Synthetic slurry shall conform to Section 9-36.2(2), the quality control plan included in
32 the shaft installation narrative in accordance with Section 6-19.3(2)B Item 4.
33
34 The second sentence of the second paragraph is revised to read:
35
36 These records shall be submitted as a Type 1 Working Drawing once the slurry system
37 has been established in the first drilled shaft on the project.
38
39 **6-19.3(4)E Maintenance of a Stable Shaft Excavation**
40 In the last sentence of the first paragraph, “approval” is revised to read “review”.
41
42 **6-19.3(4)F Disposal of Slurry and Slurry Contacted Spoils**
43 This section is revised to read:
44
45 The Contractor shall manage and dispose of the slurry wastewater in accordance with
46 Section 8-01.3(1)C. Slurry-contacted spoils shall be disposed of as specified in the
47 shaft installation narrative in accordance with Section 6-19.3(2)B, item 8, and in
48 accordance with the following requirements:
49
50 1. Uncontaminated spoils in contact with water-only slurry may be disposed of as
51 clean fill.

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- 2. Uncontaminated spoils in contact with water slurry mixed with flocculants approved in Section 8-01.3(1)C3 may be disposed of as clean fill away from areas that drain to surface waters of the state.
- 3. Spoils in contact with synthetic slurry or water slurry with polymer-based additives or flocculants not approved in Section 8-01.3(1)C3 shall be disposed of in accordance with Section 2-03.3(7)C. With permission of the Engineer, the Contractor may re-use these spoils on-site.
- 4. Spoils in contact with mineral slurry shall be disposed of in accordance with Section 2-03.3(7)C. With permission of the Engineer, the Contractor may re-use these spoils on-site.

6-19.3(5)A Steel Reinforcing Bar Cage Assembly

In the second to last sentence of the first paragraph, the phrase “as approved by the Engineer” is deleted.

6-19.3(5)D Steel Reinforcing Bar Cage Support at Base of Shaft Excavation

The first sentence is revised to read:

For shafts with temporary casing within 15-feet of the bottom of shaft elevation as specified in the Plans, the Contractor may place quarry spalls or other rock backfill acceptable to the Engineer into the shaft below the specified bottom of shaft elevation as a means to support the steel reinforcing bar cage, provided that the materials and means to accomplish this have been addressed by the shaft installation narrative, as specified in Section 6-19.3(2)B Item 9.

6-19.3(6)C Care for CSL Access Tubes From Erection Through CSL Testing

In the last sentence, “as approved by the Engineer” is revised to read “acceptable to the Engineer”.

6-19.3(8)C Requirements for Leaving Temporary Casing in Place

Item number 1 (up until the colon) is revised to read:

- 1. The Contractor shall submit a Type 2E Working Drawing of the following information:

In item C of item number 1, the phrase “in accordance with Section 6-01.9” is deleted.

Item number 2 is deleted.

6-19.3(9)D Requirements to Continue Shaft Excavation Prior to Acceptance of First Shaft

This section is revised to read:

Except as otherwise noted, the Contractor shall not commence subsequent shaft excavations until receiving the Engineer's acceptance of the first shaft, based on the results and analysis of the crosshole sonic log testing for the first shaft. The Contractor may commence subsequent shaft excavations prior to receiving the Engineer's acceptance of the first shaft, provided the following condition is satisfied:

1 The Engineer permits continuing with shaft construction based on the Engineer's
2 observations of the construction of the first shaft, including, but not limited to,
3 conformance to the shaft installation narrative in accordance with Section 6-
4 19.3(2)B, and the Engineer's review of Contractor's daily reports and Inspector's
5 daily logs concerning excavation, steel reinforcing bar placement, and concrete
6 placement.
7

8 **6-19.3(9)F Contractor's Investigation and Remedial Action Plan**

9 This section is revised to read:

10

11 For all shafts determined to be unacceptable, the Contractor shall submit a Type 2
12 Working Drawing consisting of a plan for further investigation or remedial action. All
13 modifications to the dimensions of the shafts, as shown in the Plans, required by the
14 investigation and remedial action plan shall be supported by calculations and working
15 drawings. All investigation and remedial correction procedures and designs shall be
16 submitted.
17

18 **6-19.3(9)H Cored Holes**

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

20

21 Prior to beginning coring, the Contractor shall submit Type 2 Working Drawings
22 consisting of the method and equipment used to drill and remove cores from shaft
23 concrete.
24

25 **Section 8-01, Erosion Control and Water Pollution Control**
26 **January 5, 2015**

27 **8-01.2 Materials**

28 This section is supplemented with the following new paragraph:

29

30 For all seed the Contractor shall furnish the Engineer with the following documentation:

31

- 32 1. The state or provincial seed dealer license and endorsements.
- 33
- 34 2. Copies of Washington State Department of Agriculture (WSDA) test results on
35 each lot of seed. Test results must be within six months prior to the date of
36 application.
37

38 **8-01.3(1)A Submittals**

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

40

41 Modified TESC Plans shall meet all requirements of the current edition of the WSDOT
42 Temporary Erosion and Sediment Control Manual M 3109.
43

44 **8-01.3(1)C Water Management**

45 Items number 1 through 3 are deleted.

46

47 This section is supplemented with the following new subsections:

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8-01.3(1)C1 Disposal of Dewatering Water

When uncontaminated groundwater with a pH range of 6.5 – 8.5 is encountered in an excavation, it may be disposed of as follows:

1. When the turbidity of the groundwater is 25 NTU or less, it may bypass detention and treatment facilities and be discharged into the stormwater conveyance system at a rate that will not cause erosion or flooding in the receiving surface water body.
2. When the turbidity of the groundwater is not more than 25 NTU above or 125% of the turbidity of the site stormwater runoff, whichever is greater, the same detention and treatment facilities as used to treat the site runoff may be used.
3. When the turbidity of the groundwater is more than 25 NTU above or 125% of the turbidity of the site stormwater runoff, whichever is greater, the groundwater shall be treated separately from the site stormwater.

Alternatively, the Contractor may pursue independent disposal and treatment alternatives that do not use the stormwater conveyance system.

8-01.3(1)C2 Process Wastewater

Wastewater generated on-site as a byproduct of a construction process shall not be discharged to surface waters of the State. Some sources of process wastewater may be infiltrated in accordance with the NPDES Construction Stormwater General Permit.

8-01.3(1)C3 Shaft Drilling Slurry Wastewater

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

1. Water-only shaft drilling slurry or water slurry with approved flocculants may be infiltrated on-site. Flocculants used shall meet the requirements of Section 9-14.5(1) or shall be chitosan products listed as General Use Level Designation (GULD) on the Department of Ecology’s stormwater treatment technologies webpage for construction treatment. Infiltration is permitted if the following requirements are met:
 - a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.
 - b. The source water meets drinking water standards or the Groundwater Quality Criteria listed in WAC 173-200-040.
 - c. The amount of flocculant added to the slurry shall be kept to the minimum needed to adequately settle out solids. The flocculant shall be thoroughly mixed into the slurry.
 - d. Infiltration locations shall be at least 100 feet away from surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas. Before infiltration begins, there shall be a minimum of 5 feet of unsaturated soil between the soil

- 1 surface receiving the wastewater for infiltration and the groundwater
2 surface (i.e., saturated soil).
3
- 4 e. The slurry removed from the shaft shall be contained in a leak proof cell or
5 tank for a minimum of 3 hours.
6
- 7 f. Within a 24 hour period, a maximum of 21,000 gallons of slurry wastewater
8 may be infiltrated in an infiltration location. The infiltration rate shall be
9 reduced if needed to prevent wastewater from leaving the infiltration
10 location. The infiltration site shall be monitored regularly during infiltration
11 activity. All wastewater discharged to the ground must fully infiltrate and
12 discharges must stop before the end of each work day.
13
- 14 g. After infiltration activity is complete, loose sediment in the infiltration
15 location that may have resulted from the infiltration activity or the removal
16 of BMPs used to manage infiltration activity shall be stabilized to prevent
17 mobilization by stormwater runoff.
18
- 19 h. Drilling spoils and settled sediments remaining in the containment cell or
20 tank shall be disposed of in accordance with Section 6-19.3(4)F.
21
- 22 i. Infiltration locations shall be marked on the on-site temporary erosion and
23 sediment control (TESC) plan sheets before the infiltration activity begins.
24
- 25 j. Prior to infiltrating water-only shaft drilling slurry or water slurry with
26 approved flocculants, the Contractor shall submit a Shaft Drilling Slurry
27 Wastewater Management and Infiltration Plan as a Type 2 Working
28 Drawing. This Plan shall be kept on-site, adapted if needed to meet the
29 construction requirements, and updated to reflect what is being done in the
30 field. The Working Drawing shall include, at a minimum, the following
31 information:
32
- 33 i. Plan sheet showing the proposed infiltration location and all surface
34 waters, wells, on-site sewage systems, aquifer-sensitive recharge
35 areas, sole source aquifers, and well-head protection areas within
36 150 feet.
37
- 38 ii. The proposed elevation of soil surface receiving the wastewater for
39 infiltration and the anticipated phreatic surface (i.e., saturated soil).
40
- 41 iii. The source of the water used to produce the slurry.
42
- 43 iv. The estimated total volume of wastewater to be infiltrated.
44
- 45 v. The approved flocculant to be used (if any).
46
- 47 vi. The controls or methods (e.g., trenches, traps, berms, silt fence,
48 dispersion, or discharge metering devices) that will be used to
49 prevent surface wastewater runoff from leaving the infiltration
50 location. The Working Drawing shall include all pertinent design
51 details (e.g., sizing of trenches or traps, placement or height of
52 berms, application techniques) needed to demonstrate the proposed

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controls or methods are adequate to prevent surface wastewater runoff from leaving the infiltration location.

- vii. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.
- viii. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.
- ix. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.
- x. The strategy for cleaning up the infiltration location after the infiltration activity is done. Cleanup shall include stabilizing any loose sediment on the surface within the infiltration area generated as a byproduct of suspended solids in the infiltrated wastewater or soil disturbance associated with BMP placement and removal.

- 2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not approved for infiltration shall be contained and disposed of by the Contractor at an approved disposal facility in accordance with Section 2-03.3(7)C. Spoils that have come into contact with mineral slurry shall be disposed of in accordance with Section 6-19.3(4)F.

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

Prior to disruption of the normal watercourse, the Contractor shall intercept the off-site surface water and pipe it either through or around the project site. This water shall not be combined with on-site stormwater. It shall be discharged at its preconstruction outfall point in such a manner that there is no increase in erosion below the site. The Contractor shall submit a Type 2 Working Drawing consisting of the method for performing this Work.

8-01.3(2)A Preparation for Application

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

8-01.3(2)A1 Seeding

Areas to be cultivated are shown in the Plans or specified in the Special Provisions. The areas shall be cultivated to the depths specified to provide a reasonably firm but friable seedbed. Cultivation shall take place no sooner than 2 weeks prior to seeding.

All areas to be seeded, including excavated slopes shall be compacted and prepared unless otherwise specified or ordered by the Engineer. A cleated roller, crawler tractor, or similar equipment that forms longitudinal depressions at least 2 inches deep shall be used for compaction and preparation of the surface to be seeded.

The entire area shall be uniformly covered with longitudinal depressions formed perpendicular to the natural flow of water on the slope. The soil shall be conditioned with sufficient water so the longitudinal depressions remain in the soil surface until completion of the seeding.

1 Prior to seeding, the finished grade of the soil shall be 1 inch below the top of all curbs,
2 junction and valve boxes, walks, driveways, and other Structures. The soil shall be in a
3 weed free and bare condition.
4

5 All bags of seed shall be brought to the site in sealed bags and shall have seed labels
6 attached showing the seed meets the Specifications. Seed which has become wet,
7 moldy, or otherwise damaged in transit or storage will not be accepted.
8

9 **8-01.3(2)A2 Temporary Seeding**

10 A cleated roller, crawler tractor, or similar equipment that forms longitudinal depressions
11 at least 2 inches deep shall be used for compaction and preparation of the surface to be
12 seeded. The entire area shall be uniformly covered with longitudinal depressions formed
13 perpendicular to the natural flow of water on the slope. The soil shall be conditioned with
14 sufficient water so the longitudinal depressions remain in the soil surface until
15 completion of the seeding.
16

17 **8-01.3(2)B Seeding and Fertilizing**

18 In the list in the second paragraph, item numbers 1-5 are revised to read:

- 19
- 20 1. A hydro seeder that utilizes water as the carrying agent, and maintains continuous
21 agitation through paddle blades. It shall have an operating capacity sufficient to
22 agitate, suspend, and mix into a homogeneous slurry the specified amount of seed
23 and water or other material. Distribution and discharge lines shall be large enough to
24 prevent stoppage and shall be equipped with a set of hydraulic discharge spray
25 nozzles that will provide a uniform distribution of the slurry.
26
 - 27 2. Blower equipment with an adjustable disseminating device capable of maintaining a
28 constant, measured rate of material discharge that will ensure an even distribution of
29 seed at the rates specified.
30
 - 31 3. Helicopters properly equipped for aerial seeding.
32
 - 33 4. Power-drawn drills or seeders.
34
 - 35 5. Areas in which the above methods are impractical may be seeded by hand
36 methods.
37

38 **8-01.3(2)C Liming**

39 This section including title is deleted in its entirety and replaced with the following:

40
41 **8-01.3(2)C Vacant**
42

43 **8-01.3(2)D Mulching**

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

45
46 Distribution of straw mulch material shall be by means that utilizes forced air to blow
47 mulch material on seeded areas.
48

49 **8-01.3(11) Outlet Protection**

50 In the last sentence, "Section 9-13.6" is revised to read "Section 9-13.1(5)".
51

1 **8-01.4 Measurement**

2 In the twelfth paragraph, "liming" is deleted.

3

4 **8-01.5 Payment**

5 The bid item "Liming", per acre is deleted.

6

7 **Section 8-02, Roadside Restoration**

8 **January 5, 2015**

9 **8-02.3(1) Responsibility During Construction**

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

11

12 This Work shall include keeping the planted and seeded areas free from insect
13 infestation, weeds or unwanted vegetation, litter, and other debris along with retaining
14 the finished grades and mulch in a neat uniform condition.

15

16 **8-02.3(2) Roadside Work Plan**

17 This section's title is revised to read:

18

19 **Work Plans**

20

21 This section's content is deleted in its entirety and replaced with the following new
22 subsections:

23

24 **8-02.3(2)A Roadside Work Plan**

25 Before starting any Work that disturbs the earth and as described in Sections 8-01, 8-02
26 and 8-03, the Contractor shall submit a roadside work plan. The roadside work plan
27 shall be submitted as a Type 1 Working Drawing and shall define the Work necessary to
28 provide all Contract requirements, including: wetland excavation, soil preparation,
29 habitat structure placement, planting area preparation, seeding area preparation, bark
30 mulch and compost placement, seeding, planting, plant replacement, irrigation, and
31 weed control in narrative form.

32

33 The Roadside Work Plan shall also include a copy of the approved progress schedule.

34

35 **8-02.3(2)B Weed and Pest Control Plan**

36 The Weed and Pest Control Plan shall be submitted as a Type 1 Working Drawing. The
37 weed and pest control plan shall include scheduling and methods of all control
38 measures required under the Contract or proposed by the Contractor including soil
39 preparation methods to meet the required soil surface conditions in the planting, bark
40 mulch, and wetland areas. The weed control plan shall show general weed control
41 including hand, mechanical and chemical methods, timing, application of herbicides
42 including type, rate, use and timing, mowing, and noxious weed control. Target weeds
43 and unwanted vegetation to be removed shall be identified and listed in the weed
44 control plan.

45

46 The plan shall be prepared and signed by a licensed Commercial Pest Control Operator
47 or Consultant when chemical pesticides are proposed. The plan shall include methods
48 of weed control; dates of weed control operations; and the name, application rate, and
49 Material Safety Data Sheets of all proposed herbicides. In addition, the Contractor shall
50 furnish the Engineer with a copy of the current product label for each pesticide and

1 spray adjuvant to be used. These product labels shall be submitted with the weed
2 control plan for approval.
3
4 **8-02.3(2)C Plant Establishment Plan**
5 The Plant Establishment Plan shall be prepared in accordance with the requirements of
6 Section 8-02.3(13) and submitted as a Type 1 Working Drawing. The Plan shall show
7 the proposed scheduling of activities, materials, equipment to be utilized for the first-
8 year plant establishment, and an emergency contact person. The Plan shall include the
9 management of the irrigation system, when applicable. Should the plan become
10 unworkable at any time during the first-year plant establishment, the Contractor shall
11 submit a revised plan prior to proceeding with further Work.
12
13 **8-02.3(3) Weed and Pest Control**
14 This section is supplemented with the following new paragraph:
15
16 Grass, including grass applied in accordance with Section 8-01, growing within the
17 mulch ring of a plant shall be considered a weed and be controlled on the project in
18 accordance with the weed and pest control plan.
19
20 **8-02.3(4) Topsoil**
21 The last sentence of the first paragraph is revised to read:
22
23 After the topsoil has been spread, all large clods, hard lumps, and rocks 2 inches in
24 diameter and larger, and litter shall be raked up, removed, and disposed of by the
25 Contractor.
26
27 The following new paragraph is inserted after the first paragraph:
28
29 Topsoil stockpiled for project use shall be protected to prevent erosion and weed
30 growth. Weed growth on topsoil stockpile sites shall be immediately eliminated in
31 accordance with the approved Weed and Pest Control Plan.
32
33 **8-02.3(4)C Topsoil Type C**
34 The last sentence is revised to read:
35
36 Topsoil Type C shall meet the requirements of Sections 8-02.3(4), 8-02.3(4)B, and 9-
37 14.1(3).
38
39 **8-02.3(12) Completion of Initial Planting**
40 Item number 4 in the last paragraph is deleted.
41
42 **8-02.3(13) Plant Establishment**
43 The first sentence of the second paragraph is deleted.
44
45 The second paragraph is supplemented with the following new sentence:
46
47 The 1 calendar year shall be extended an amount equal to any periods where the
48 Contractor does not comply with the plant establishment plan.
49
50 The first sentence of the fourth paragraph is revised to read:
51

1 During the first year of plant establishment under PSIFE (Plant Selection Including Plant
2 Establishment), the Contractor shall meet monthly with the Engineer for the purpose of
3 joint inspection of the planting material on a mutually agreed upon schedule.
4

5 The last two paragraphs are deleted.
6

7 **8-02.4 Measurement**

8 This section is supplemented with the following:
9

10 Plant selection will be measured per each.
11

12 PSIFE __ (Plant Selection Including Plant Establishment) will be measured per each.
13

14 **8-02.5 Payment**

15 The paragraph following the bid item "Topsoil Type ____", per acre is revised to read:
16

17 The unit Contract price per acre for "Topsoil Type ____" shall be full payment for all
18 costs for the specified Work.
19

20 The bid item "PSIFE ____", per each and the paragraph following the bid item are revised to
21 read:
22

23 "PSIFE ____", per each.
24

25 The unit Contract price for "Plant Selection ____", per each, and "PSIFE ____", per each,
26 shall be full pay for all Work necessary for weed control within the planting area,
27 planting area preparation, fine grading, planting, cultivating, plant storage and
28 protection, fertilizer and root dip, staking, cleanup, and water necessary to complete
29 planting operations as specified to the end of first year plant establishment.
30

31 The bid item "Plant Establishment - ____ Year" is deleted.
32

33 **Section 8-04, Curbs, Gutters, and Spillways**

34 **January 5, 2015**

35 **8-04.2 Materials**

36 The referenced section for the following item is revised to read:
37

38 Hand Placed Riprap 9-13.1(4)
39

40 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

41 The first sentence in the fourth paragraph is revised to read:
42

43 Expansion joints in the curb or curb and gutter shall be spaced as shown in the Plans,
44 and placed at the beginning and ends of curb returns, drainage Structures, bridges, and
45 cold joints with existing curbs and gutters.
46

47 In the third sentence of the fourth paragraph, "1/4-inch" is revised to read "3/8-inch".
48

49 **8-04.3(1)A Extruded Cement Concrete Curb**

50 The second sentence in the second paragraph is revised to read:

1
2 Cement concrete curbs shall be anchored to the existing pavement by placing steel
3 reinforcing bars 1 foot on each side of every joint.

4
5 The third paragraph is revised to read:

6
7 Steel reinforcing bars shall meet the dimensions shown in the Standard Plans.

8
9 **Section 8-09, Raised Pavement Markers**
10 **April 7, 2014**

11 **8-09.3(6) Recessed Pavement Marker**

12 The following sentence is inserted after the first sentence of the first paragraph:

13
14 The Contractor shall ensure that grinding of the pavement does not result in any
15 damage, (e.g. chipping, spalling or raveling) to the pavement to remain.

16
17 **Section 8-11, Guardrail**
18 **April 7, 2014**

19 **8-11.3(1) Beam Guardrail**

20
21 After the below Amendments to 8-11.3(1)F and 8-11.3(1)G are applied, this section is
22 supplemented with the following new sub-section:

23
24 **8-11.3(1)F Removing and Resetting Beam Guardrail**

25 The Contractor shall remove and reset existing guardrail posts, rail element, hardware
26 and blocks to the location shown in the Plans. The mounting height of reset rail element
27 shall be at the height shown in the Plans. The void caused by the removal of the post
28 shall be backfilled and compacted.

29
30 The Contractor shall remove and replace any existing guardrail posts and blocks that
31 are not suited for re-use, as staked by the Engineer. The void caused by the removal of
32 the post shall be backfilled and compacted. The Contractor shall then furnish and install
33 a new guardrail post to provide the necessary mounting height.

34
35 **8-11.3(1)A Erection of Posts**

36 The second paragraph in this section is deleted.

37
38 **8-11.3(1)C Terminal and Anchor Installation**

39 The last sentence in the last paragraph is deleted.

40
41 **8-11.3(1)F Plans**

42 This section number is revised to:

43
44 **8-11.3(1)G**

45
46 **8-11.3(1)G Guardrail Construction Exposed to Traffic**

47 This section number is revised to:

48
49 **8-11.3(1)H**

1
2 **Section 8-18, Mailbox Support**
3 **August 4, 2014**

4 **8-18.3(1) Type 3 Mailbox Support**

5 In the third paragraph, the first sentence is revised to read:

6
7 With the Engineer's consent, a Type 3 Mailbox Support design, made of steel or other
8 durable material, that meets the NCHRP 350 or the Manual for Assessing Safety
9 Hardware (MASH) crash test criteria may be used in place of the design shown in the
10 *Standard Plans*.

11
12 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**
13 **Systems, and Electrical**
14 **April 6, 2015**

15 **8-20.2(1) Equipment List and Drawings**

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

17
18 Supplemental data would include such items as catalog cuts, product Specifications,
19 shop drawings, wiring diagrams, etc.

20
21 The third paragraph (up until the colon) is revised to read:

22
23 If the luminaires are not listed in the Qualified Products List, the Contractor shall submit
24 the following information for each different type of luminaire required on the Contract:

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

27
28 The Contractor shall submit for approval Type 3E Working Drawings in accordance with
29 Section 1-05.3 for each of the following types of standards called for on this project:

30
31 The fifth paragraph is revised to read:

32
33 The Contractor will not be required to submit shop drawings for approval for light
34 standards and traffic signal standards conforming to the preapproved plans listed in the
35 Special Provisions. The Contractor may use preapproved plans posted on the WSDOT
36 website with a more current revision date than published in the Special Provisions.

37
38 **8-20.3(1) General**

39 The following six new paragraphs are inserted after the second paragraph:

40
41 If a portion of an existing communication conduit system is damaged due to the
42 Contractor's activities, the affected system shall be restored to original condition.
43 Conduit shall be repaired. Communication cables shall be replaced and the
44 communication system shall be made fully operational within 24 hours of being
45 damaged.

46
47 Damaged communication cable shall be replaced between existing termination or splice
48 points. No additional termination or splice points will be allowed. An existing
49 termination or splice point is defined as a location where all existing fiber strands or

1 twisted pair wires are terminated or spliced at one point. Communication cable shall be
2 defined as either copper twisted pair or fiber optic cables. The Contractor may use
3 temporary splices to restore Contracting Agency communication systems until the
4 permanent communication cable system is restored.

5
6 When damage to an existing communication system has occurred, the Contractor shall
7 perform the following in addition to other restoration requirements:

- 8
- 9 1. Inspect the communication raceway system including locate wire or tape to
10 determine the extent of damage.
 - 11 2. Contact the Engineer for Fiber Optic Cable and Twisted Pair (TWP) Copper
12 Cable acceptance testing requirements and communication system restoration
13 requirements.
 - 14 3. Initially perform the acceptance tests to determine the extent of damage and
15 also perform the acceptance tests after repairs are completed. Provide written
16 certification that the communication cable system, including the locate wire or
17 tape, is restored to test standard requirements.
18
19
20

21 Communication cables shall be restored by Contractor personnel that are WSDOT
22 prequalified for communication installation work. Restoration shall be considered
23 electrical work when the path of the communication system interfaces with electrical
24 systems. Electrical work of this nature shall be performed by Contractor personnel that
25 are WSDOT prequalified for work on both electrical and communication systems.

26
27 If the Contractor or Subcontractors are unable or unqualified to complete the restoration
28 work, the Engineer may have the communication or electrical systems restored by other
29 means and subtract the cost from the money that will be or is due the Contractor.

30
31 When field repair of existing conduit, innerduct or outerduct is required, the repair kits
32 shall be installed per manufacturer's recommendations. Repair kits and each
33 connection point between the repair kit and the existing raceway system shall be sealed
34 to prevent air leakage during future cable installation.
35

36 **8-20.3(8) Wiring**

37 The second sentence in the eleventh paragraph is revised to read:

38
39 Every conductor at every wire termination, connector, or device shall have an approved
40 wire marking sleeve bearing, as its legend, the circuit number indicated in the Contract.
41

42 **8-20.3(13)A Light Standards**

43 In the third paragraph, the last sentence of item number 1 is revised to read:

44
45 Conduit shall extend a maximum of 1 inch above the top of the foundation, including
46 grounding end bushing or end bell bushing.
47

48 In the fourth paragraph, the second sentence of item number 1 is revised to read:

49
50 Conduits shall be cut to a maximum height of 2 inches above the foundation including
51 grounding end bushing or end bell bushing.
52

1 **Section 8-22, Pavement Marking**
2 **April 6, 2015**

3 **8-22.3(6) Removal of Pavement Markings**

4 The second and third sentences of the first paragraph are revised to read:

5
6 Grinding to remove pavement markings is allowed prior to application of a Bituminous
7 Surface Treatment. Grinding to remove pavement marking from hot mix asphalt and
8 cement concrete pavements is allowed to a depth just above the pavement surface,
9 then water blasting or shot blasting shall be required to remove the remaining markings.

10

11 **Section 8-23, Temporary Pavement Markings**
12 **January 5, 2015**

13 This section's content is deleted in its entirety and replaced with the following new sub-
14 sections:

15

16 **8-23.1 Description**

17 The Work consists of furnishing, installing, and removing temporary pavement
18 markings. Temporary pavement markings shall be provided where noted in the Plans;
19 for all lane shifts and detours resulting from construction activities; or when permanent
20 markings are removed because of construction operations.

21

22 **8-23.2 Materials**

23 Materials for temporary markings shall be paint, plastic, tape, raised pavement markers
24 or flexible raised pavement markers. Materials for pavement markings shall meet the
25 following requirements:

26

27	Raised Pavement Markers	9-21
28	Temporary Marking Paint	9-34.2(6)
29	Plastic	9-34.3
30	Glass Beads for Pavement Marking Materials	9-34.4
31	Temporary Pavement Marking Tape	9-34.5
32	Temporary Flexible Raised Pavement Markers	9-34.6

33

34 **8.23.3 Construction Requirements**

35

36 **8-23.3(1) General**

37 The Contractor shall select the type of pavement marking material in accordance
38 with the Contract.

39

40 **8-23.3(2) Preliminary Spotting**

41 All preliminary layout and marking in preparation for application or removal of
42 temporary pavement markings shall be the responsibility of the Contractor.

43

44 **8-23.3(3) Preparation of Roadway Surface**

45 Surface preparation for temporary pavement markings shall be in accordance with
46 the manufacturer's recommendations.

47

48 **8-23.3(4) Pavement Marking Application**

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8-23.3(4)A Temporary Pavement Markings – Short Duration

Temporary pavement markings – short duration shall meet the following requirements:

Temporary Center Line – A BROKEN line used to delineate adjacent lanes of traffic moving in opposite directions. The broken pattern shall be based on a 40-foot unit, consisting of a 4-foot line with a 36-foot gap if paint or tape is used. If temporary raised pavement markers are used, the pattern shall be based on a 40-foot unit, consisting of a grouping of three temporary raised pavement markers, each spaced 3 feet apart, with a 34 foot gap.

Temporary Edge Line – A SOLID line used on the edges of Traveled Way. The line shall be continuous if paint or tape is used. If temporary raised pavement markers are used, the line shall consist of markers installed continuously at 5-foot spacing.

Temporary Lane Line – A BROKEN line used to delineate adjacent lanes with traffic traveling in the same direction. The broken pattern shall be based on a 40-foot unit, consisting of a 4-foot line with a 36-foot gap, if paint or tape is used. If temporary raised pavement markers are used, the pattern shall be based on a 40-foot unit, consisting of a grouping of three temporary raised pavement markers, each spaced 3 feet apart, with a 34 foot gap.

Lane line and right edge line shall be white in color. Center line and left edge line shall be yellow in color. Edge lines shall be installed only if specifically required in the Contract. All temporary pavement markings shall be retroreflective.

8-23.3(4)A1 Temporary Pavement Marking Paint

Paint used for short duration temporary pavement markings shall be applied in one application at a thickness of 15 mils or 108 square feet per gallon. Glass beads shall be in accordance with Section 8-22.3(3)G.

8-23.3(4)A2 Temporary Pavement Marking Tape

Application of temporary pavement marking tape shall be in conformance with the manufacturer’s recommendations.

Black mask pavement marking tape shall mask the existing line in its entirety.

8-23.3(4)A3 Temporary Raised Pavement Markers

Temporary raised pavement markers are not allowed on bituminous surface treatments.

8-23.3(4)A4 Temporary Flexible Raised Pavement Markers

Flexible raised pavement markers are required for new applications of bituminous surface treatments. Flexible raised pavement markers are not allowed on other pavement types unless otherwise specified or approved by the Engineer. Flexible raised pavement markers shall be installed with

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the protective cover in place. The cover shall be removed immediately after spraying asphaltic material.

8-23.3(4)B Temporary Pavement Markings – Long Duration

Application of paint, pavement marking tape and plastic for long duration pavement markings shall meet the requirements of Section 8-22.3(3); application of raised pavement markers shall meet the requirements of Section 8-09.3; and application of flexible pavement markings shall be in conformance with the manufacturer’s recommendations.

8-23.3(4)C Tolerance for Lines

Tolerance for lines shall conform to Section 8-22.3(4).

8-23.3(4)D Maintenance of Pavement Markings

Temporary pavement markings shall be maintained in serviceable condition throughout the project until permanent pavement markings are installed. As directed by the Engineer; temporary pavement markings that are damaged, including normal wear by traffic, shall be repaired or replaced immediately. Repaired and replaced pavement markings shall meet the requirements for the original pavement marking.

8-23.3(4)E Removal of Pavement Markings

Removal of temporary paint is not required prior to paving; all other temporary pavement markings shall be removed.

All temporary pavement markings that are required on the wearing course prior to construction of permanent pavement markings and are not a part of the permanent markings shall be completely removed concurrent with or immediately subsequent to the construction of the permanent pavement markings. Temporary flexible raised pavement markers on bituminous surface treatment pavements shall be cut off flush with the surface if their location conflicts with the alignment of the permanent pavement markings. All other temporary pavement markings shall be removed in accordance with Section 8-22.3(6).

All damage to the permanent Work caused by removing temporary pavement markings shall be repaired by the Contractor at no additional cost to the Contracting Agency.

8-23.4 Measurement

Temporary pavement markings will be measured by the linear foot of each installed line or grouping of markers, with no deduction for gaps in the line or markers and no additional measurement for the second application of paint required for long duration paint lines. Short duration and long duration temporary pavement markings will be measured for the initial installation only.

8-23.5 Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal:

“Temporary Pavement Marking – Short Duration”, per linear foot.

1 "Temporary Pavement Marking – Long Duration", per linear foot.

2

3 The unit Contract price per linear foot for "Temporary Pavement Marking – Short
4 Duration" and "Temporary Pavement Marking – Long Duration" shall be full pay for
5 all Work.

6

7 **Section 9-01, Portland Cement**

8 **January 5, 2015**

9 **9-01.2(3) Low Alkali Cement**

10 This section is revised to read:

11

12 When low alkali portland cement is required, the percentage of alkalis in the cement
13 shall not exceed 0.60 percent by weight calculated as Na_2O plus $0.658 \text{ K}_2\text{O}$. This
14 limitation shall apply to all types of portland cement.

15

16 **9-01.2(4) Blended Hydraulic Cement**

17 The first paragraph is revised to read:

18

19 Blended hydraulic cement shall be either Type IP(X)(MS) or Type IS(X)(MS) cement
20 conforming to AASHTO M 240 or ASTM C 595, except that the portland cement used to
21 produce blended hydraulic cement shall not contain more than 0.75 percent alkalis by
22 weight calculated as Na_2O plus $0.658 \text{ K}_2\text{O}$ and shall meet the following additional
23 requirements:

24

- 25 1. Type IP(X)(MS) - Portland-Pozzolan Cement where (X) equals the targeted
26 percentage of fly ash, the fly ash is limited to a maximum of 35 percent by
27 weight of the cementitious material; (MS) indicates moderate sulfate resistance.
- 28 2. Type IS(X)(MS) - Portland Blast- Furnace Slag Cement, where: (X) equals the
29 targeted percentage of ground granulated blast-furnace slag, the ground
30 granulated blast furnace slag is limited to a maximum of 50 percent by weight
31 of the cementitious material; (MS) indicates moderate sulfate resistance.

32

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

34

35 The source and weight of the fly ash or ground granulated blast-furnace slag shall be
36 certified on the cement mill test report or cement certificate of analysis and shall be
37 reported as a percent by weight of the total cementitious material.

38

39 **9-01.3 Tests and Acceptance**

40 The first paragraph is revised to read:

41

42 Cement may be accepted by the Engineer based on the cement mill test report number
43 or cement certificate of analysis number indicating full conformance to the
44 Specifications. All shipments of the cement to the Contractor or concrete supplier shall
45 identify the applicable cement mill test report number or cement certificate of analysis
46 number and shall be provided by the Contractor or concrete supplier with all concrete
47 deliveries.

48

49 The second paragraph is revised to read:

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9-03.8(2) HMA Test Requirements

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

The mix design shall produce HMA mixtures when combined with RAP, RAS, coarse and fine aggregate within the limits set forth in Section 9-03.8(6) and mixed in the laboratory with the designated grade of asphalt binder, using the Superpave gyratory compactor in accordance with WSDOT FOP for AASHTO T 312, and at the required gyrations for N initial, N design, and N maximum with the following properties:

The third paragraph is revised to read:

The mix criteria for Hamburg Wheel-Track Testing and Indirect Tensile Strength do not apply to HMA accepted by commercial evaluation.

9-03.8(3)B Gradation – Recycled Asphalt Pavement and Mineral Aggregate

This section is supplemented with the following:

For HMA with greater than 20 percent RAP by total weight of HMA the RAP shall be processed to ensure that 100 percent of the material passes a sieve twice the size of the maximum aggregate size for the class of mix to be produced.

When any amount of RAS is used in the production of HMA the RAS shall be milled, crushed or processed to ensure that 100 percent of the material passes the 1/2 inch sieve. Extraneous materials in RAS such as metals, glass, rubber, soil, brick, tars, paper, wood and plastic shall not exceed 2.0 percent by mass as determined on material retained on the No. 4 sieve.

9-03.14(3) Common Borrow

This section is revised to read:

Material for common borrow shall consist of granular or nongranular soil and/or aggregate which is free of deleterious material. Deleterious material includes wood, organic waste, coal, charcoal, or any other extraneous or objectionable material. The material shall not contain more than 3 percent organic material by weight. The plasticity index shall be determined using test method AASHTO T 89 and AASHTO T 90.

The material shall meet one of the options in the soil plasticity table below.

Soil Plasticity Table

Option	Sieve	Percent Passing	Plasticity Index
1	No. 200	0 - 12	N/A
2	No. 200	12.1 - 35	6 or Less
3	No. 200	Above 35	0

All percentages are by weight.

1 If requested by the Contractor, the plasticity index may be increased with the approval
2 of the Engineer.

3
4 **9-03.14(4) Gravel Borrow for Structural Earth Wall**

5 In the second table, the row beginning with “pH” is revised to read:
6

pH	WSDOT Test Method T 417	4.5 - 9	5 – 10
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7
8 **9-03.21(1) General Requirements**

9 The following new paragraph is inserted after the second paragraph:

10
11 Reclaimed asphalt shingles samples shall contain less than the maximum percentage of
12 asbestos fibers based on testing procedures and frequencies established in conjunction
13 with the specifying jurisdiction and state or federal environmental regulatory agencies.
14

15 **Section 9-04, Joint and Crack Sealing Materials**
16 **January 5, 2015**

17 **9-04.1(4) Elastomeric Expansion Joint Seals**

18 In this section, “AASHTO M 220” is revised to read “ASTM D 2628”.

19
20 **9-04.2(1) Hot Poured Joint Sealants**

21 In the first paragraph, “AASHTO M 324” is revised to read “ASTM D 6690”.

22
23 **9-04.2(2) Poured Rubber Joint Sealer**

24 In item number 9, “WSDOT Test Method No. 412” is revised to read “ASTM D 5329”.

25
26 **Section 9-05, Drainage Structures and Culverts**
27 **April 7, 2014**

28 **9-05.13 Ductile Iron Sewer Pipe**

29 The first paragraph is deleted.

30
31 **Section 9-06, Structural Steel and Related Materials**
32 **January 5, 2015**

33 **9-06.5(4) Anchor Bolts**

34 The third sentence of the second paragraph is revised to read:

35
36 Nuts for ASTM F 1554 Grade 36 or 55 black or galvanized anchor bolts shall conform to
37 ASTM A 563, Grade A or DH.
38

39 **Section 9-07, Reinforcing Steel**
40 **January 6, 2014**

41 **9-07.5(1) Epoxy-Coated Dowel Bars (for Cement Concrete Pavement**
42 **Rehabilitation)**

43 This section is revised to read:
44

1 Epoxy-coated dowel bars shall be round plain steel bars of the dimensions shown in the
2 Standard Plans. They shall conform to AASHTO M 31, Grade 60 or ASTM A 615, Grade
3 60 and shall be coated in accordance with ASTM A 1078 Type 2 coating, except that the
4 bars may be cut to length after being coated. Cut ends shall be coated in accordance
5 with ASTM A 1078 with a patching material that is compatible with the coating, inert in
6 concrete and recommended by the coating manufacturer. The thickness of the epoxy
7 coating shall be 10 mils plus or minus 2 mils. The Contractor shall furnish a written
8 certification that properly identifies the coating material, the number of each batch of
9 coating material used, quantity represented, date of manufacture, name and address of
10 manufacturer, and a statement that the supplied coating material meets the
11 requirements of ASTM A 1078 Type 2 coating. Patching material, compatible with the
12 coating material and inert in concrete and recommended by the manufacturer shall be
13 supplied with each shipment for field repairs by the Contractor.
14

15 **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement)**

16 This section's title is revised to read:

17

18 **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and**
19 **Cement Concrete Pavement Rehabilitation)**

20

21 **Section 9-08, Paints and Related Materials**

22 **January 5, 2015**

23 **9-08.1(2)H Top Coat, Single Component, Moisture-Cured Polyurethane**

24 The second paragraph is revised to read:

25

26 Color and Gloss: As specified in the Plans or Special Provisions

27

28 The last item in the requirements list is revised to read:

29

30 The top coat shall be a gloss or semi-gloss

31

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

33 The second paragraph is deleted.

34

35 The third paragraph is revised to read:

36

37 Unless otherwise specified, all top or finish coats shall be gloss or semi-gloss, with the
38 paint falling within the range of greater than 70 for gloss and 35 to 70 for semi-gloss on
39 the 60-degree gloss meter.

40

41 **Section 9-09, Timber and Lumber**

42 **January 6, 2014**

43 **9-09.3(1) General Requirements**

44 The fourth paragraph is revised to read:

45

46 All orders of treated timber and lumber shall be accompanied by a Certificate of
47 Treatment record. The Certificate of Treatment showing conformance to this
48 specification and AWP standards shall include the following information:

49

- 1 Name and location of the wood preserving company,
- 2
- 3 Customer identification,
- 4
- 5 Date of treatment and charge number,
- 6
- 7 Type of chemical used and amount of retention,
- 8
- 9 Treating process and identification of the Specification used,
- 10
- 11 Boring records verifying treatment penetration for timber and lumber with a nominal
- 12 dimension of 6" x 6" or larger,
- 13
- 14 Description of material that was treated, and
- 15
- 16 Signature of a responsible plant official.
- 17

18 The fifth paragraph is deleted.

19

20 The first sentence in the last paragraph is revised to read:

21

22 All timber and lumber to be used in aquatic environments, unless specified otherwise in

23 the Contract, shall be chemically treated using Western Wood Preservers Institute Best

24 Management Practices (BMPs).

25

26 **Section 9-10, Piling**

27 **March 3, 2014**

28 **9-10.5 Steel Piling**

29 This section is revised to read:

30

31 The material for rolled steel piling H-piling and pile splices shall conform to ASTM A 36,

32 ASTM A 572 or ASTM A 992. The material for steel pipe piling and splices shall conform

33 to one of the following requirements except as specifically noted in the Plans:

- 34
- 35 1. API 5L Grade X42 or X52 material may be used for longitudinal seam welded or
 - 36 helical (spiral) seam submerged-arc welded pipe piles of any diameter.
 - 37
 - 38 2. ASTM A 252 Grade 2 or 3 material may be used for longitudinal seam welded
 - 39 or helical (spiral) seam submerged-arc welded pipe piles of any diameter. For
 - 40 the purposes of welding and prequalification of base metal, steel pipe pile
 - 41 designated as ASTM A 252 may be treated as prequalified provided the
 - 42 chemical composition conforms to a prequalified base metal classification listed
 - 43 in Table 3.1 of the AWS D1.1/D1.1M, latest edition, Structural Welding Code,
 - 44 the grade of pipe piling meets or exceeds the grade specified in the Plans, and
 - 45 the carbon equivalent (CE) is a maximum of 0.45-percent.
 - 46
 - 47 3. ASTM A 572 or ASTM A 588 material may be used for longitudinal seam welded
 - 48 piles of any diameter.
 - 49

1 For helical (spiral) seam submerged-arc welded pipe piles, the maximum radial offset of
2 strip/plate edges shall be 1/8 inch. The offset shall be transitioned with a taper weld and
3 the slope shall not be less than a 1 in 2.5 taper. The weld reinforcement shall not be
4 greater than 3/16 inches and misalignment of weld beads shall not exceed 1/8 inch.

5
6 Steel soldier piles, and associated steel bars and plates, shall conform to ASTM A 36,
7 ASTM A 572 or ASTM A 992, except as otherwise noted in the Plans.

8
9 All steel piling may be accepted by the Engineer based on the Manufacturer's
10 Certificate of Compliance submitted in accordance with Section 1-06.3. The
11 manufacturer's certificate of compliance submittal for steel pipe piles shall be
12 accompanied by certified mill test reports, including chemical analysis and carbon
13 equivalence, for each heat of steel used to fabricate the steel pipe piling.

14
15 **Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion**
16 **and Scour Protection and Rock Walls**
17 **January 5, 2015**

18 This section's content is deleted.

19
20 **9-13.1 Loose Riprap**

21 This section's content, including title and subsections, is revised to read the following:

22
23 **9-13.1 Riprap and Quarry Spalls**

24
25 **9-13.1(1) General**

26 Riprap and quarry spalls shall consist of broken stone or broken concrete rubble
27 and shall be free of rock fines, soil, or other extraneous material. Concrete rubble
28 shall not be contaminated by foreign materials such as fibers, wood, steel, asphalt,
29 sealant, soil, plastic and other contaminants or deleterious material. Concrete
30 rubble that is imported to the job site will require testing and certification for toxicity
31 characteristics per Section 9-03.21(1).

32
33 The grading of the riprap shall be determined by the Engineer by visual inspection
34 of the load before it is dumped into place, or, if so ordered by the Engineer, by
35 dumping individual loads on a flat surface and sorting and measuring the individual
36 rocks contained in the load. Should the riprap contain insufficient spalls, as defined
37 in Section 9-13.1(5), the Contractor shall furnish and place supplementary spall
38 material.

39
40 Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
41 defects tending to destroy its resistance to weather and shall conform to the
42 following requirements for quality.

43

Aggregate Property	Test Method	Requirement
Degradation Factor	WSDOT T 113	15 minimum
Los Angeles Wear, 500 Rev.	AASHTO T 96	50% maximum
Specific Gravity, SSD	AASHTO T 85	2.55 minimum

44
45 **9-13.1(2) Heavy Loose Riprap**

46 Heavy loose riprap shall meet the following requirements for grading:

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	Minimum Size	Maximum Size
40% to 90%	1 ton (½ cubic yd.)	
70% to 90%	300 lbs. (2 cu. ft.)	
10% to 30%	3 inch	50 lbs. (spalls)

9-13.1(3) Light Loose Riprap

Light loose riprap shall meet the following requirements for grading:

	Size Range	Maximum Size
20% to 90%	300 lbs. to 1 ton (2 cu. ft. to ½ cu. yd.)	
15% to 80%	50 lbs. to 1 ton (⅓ cu. ft. to ½ cu. yd.)	
10% to 20%	3 inch	50 lbs. (spalls)

9-13.1(4) Hand Placed Riprap

Hand placed riprap shall be as nearly rectangular as possible, 60 percent shall have a volume of not less than 1 cubic foot. No stone shall be used which is less than 6 inches thick, nor which does not extend through the wall.

9-13.1(5) Quarry Spalls

Quarry spalls shall meet the following requirements for grading:

Sieve Size	Percent Passing
8"	100
3"	40 max.
¾"	10 max.

9-13.2 Hand Placed Riprap

This section, including title, is deleted in its entirety and replaced with the following:

9-13.2 Vacant

9-13.4 Rock for Erosion Control and Scour Protection

The last sentence is revised to read:

The use of recycled materials and concrete rubble is not permitted for this application.

9-13.6 Quarry Spalls

This section, including title, is deleted in its entirety and replaced with the following:

9-13.6 Vacant

**Section 9-14, Erosion Control and Roadside Planting
January 5, 2015**

9.14.1 Soil

This section, including title, is revised to read:

1 **9-14.1 Topsoil**
2 Topsoil shall not contain any recycled material, foreign materials, or any listed Noxious
3 and Nuisance weeds of any Class designated by authorized State or County officials.
4 Aggregate shall not comprise more than 10% by volume of Topsoil and shall not be
5 greater than two inches in diameter.
6

7 **9-14.1(2) Topsoil Type B**
8 The last sentence of the second paragraph is deleted.
9

10 **9-14.2 Seed**
11 This section is revised to read:
12
13 Seed of the type specified shall be certified in accordance with WAC 16-302. Seed
14 mixes shall be commercially prepared and supplied in sealed containers. The labels
15 shall show:

- 16 (1) Common and botanical names of seed
- 17 (2) Lot number
- 18 (3) Net weight
- 19 (4) Pounds of Pure live seed (PLS) in the mix
- 20 (5) Origin of seed

21 All seed vendors must have a business license issued by supplier's state or provincial
22 Department of Licensing with a "seed dealer" endorsement.
23
24

25 **9-14.4(3) Bark or Wood Chips**
26 This section's title is revised to read:

27 **Bark or Wood Chip Mulch**

28 The first paragraph is revised to read:
29
30 Bark or wood chip mulch shall be derived from fir, pine, or hemlock species. It shall not
31 contain resin, tannin, or other compounds in quantities that would be detrimental to
32 plant life. Sawdust shall not be used as mulch. Mulch produced from finished wood
33 products or construction debris will not be allowed.
34

35 **9-14.4(6) Gypsum**
36 The first sentence is revised to read:

37 Gypsum shall consist of Calcium Sulfate (CaSO₄·2H₂O) in a pelletized or granular form.
38

39 **9-14.4(7) Tackifier**
40 This section is revised to read:
41
42

1 Tackifiers are used as a tie-down for soil, compost, seed, and/or mulch. Tackifiers shall
2 contain no growth or germination-inhibiting materials and shall not reduce infiltration
3 rates. Tackifiers shall hydrate in water and readily blend with other slurry materials.
4

5 The Contractor shall provide test results documenting the tackifier meets the
6 requirements for Acute Toxicity, Solvents, and Heavy Metals as required in Table 1 in
7 Section 9-14.4(2). The tests shall be performed at the manufacturer's recommended
8 application rate.
9

10 **9-14.4(8) Compost**

11 The second paragraph is revised to read:

12
13 Compost production and quality shall comply with WAC 173-350.
14

15 **9-14.4(8)A Compost Submittal Requirements**

16 Item 2 is revised to read:

- 17
18 2. A copy of the Solid Waste Handling Permit issued to the manufacturer by the
19 Jurisdictional Health Department in accordance with WAC 173-350 (Minimum
20 Functional Standards for Solid Waste Handling).
21

22 **9-14.6(1) Description**

23 Item number 3 in the fourth paragraph is revised to read:

- 24
25 3. Live pole cuttings shall have a diameter between 2 inches and 3.5 inches. Live
26 poles shall have no more than three branches which must be located at the top end
27 of the pole and those branches shall be pruned back to the first bud from the main
28 stem.
29

30 **9-14.6(2) Quality**

31 The second and third paragraphs in this section are revised to read:

32
33 All plant material shall comply with State and Federal laws with respect to inspection
34 for plant diseases and insect infestation. Plants must meet Washington State
35 Department of Agriculture plant quarantines and have a certificate of inspection. Plants
36 originating in Canada must be accompanied by a phytosanitary certificate stating the
37 plants meet USDA health requirements.
38

39 All plant material shall be purchased from a nursery licensed to sell plants in their state
40 or province.
41

42 **Section 9-15, Irrigation System**

43 **August 4, 2014**

44 **9-15.18 Detectable Marking Tape**

45 In the second paragraph, the table is supplemented with the following new row:

46

Non-Potable Water	Purple
-------------------	--------

47
48

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

2 **August 4, 2014**

3 **9-16.2(1)B Wood Fence Posts and Braces**

4 In the table, the row beginning with "ACA" is deleted.

5

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

7 **April 6, 2015**

8 **9-29.1 Conduit, Innerduct, and Outerduct**

9 This section is supplemented with the following new subsection:

10

11 **9-29.1(9) Repair**

12 Manufacturer repair kits shall be used for field repair of existing conduit, innerduct and
13 outerduct. The conduit repair kit shall be manufactured specifically for the repair of
14 existing damaged conduit, inner duct and outer duct. The repair kit shall be
15 prepackaged and include the split conduit and split couplings necessary to restore the
16 damaged conduit to the original inside dimensions including a water and air tight seal.

17

18 **9-29.2(1)B Heavy Duty Junction Boxes**

19 The second paragraph is revised to read:

20

21 The Heavy-Duty Junction Box steel frame, lid support and lid fabricated from steel plate
22 and shapes shall be painted with a shop applied, inorganic zinc primer in accordance
23 with Section 6-07.3. Ductile iron and gray iron castings shall not be painted.

24

25 The following new paragraph is inserted after the second paragraph:

26

27 The concrete used in Heavy-Duty Junction Boxes shall have a minimum compressive
28 strength of 4,000 psi.

29

30 In the fourth paragraph (after the preceding Amendment is applied), the table is revised to
31 read:

32

Materials	Requirement
Concrete	Section 6-02
Reinforcing Steel	Section 9-07
Lid	ASTM A 786 diamond plate steel, rolled from plate complying with ASTM A 572, grade 50 or ASTM A 588, and having a min. CVN toughness of 20 ft-lb at 40 degrees F. Or Ductile iron casting meeting Section 9-05.15
Frame and stiffener plates	ASTM A 572 grade 50 or ASTM A 588, both with min. CVN toughness of 20 ft-lb at 40 degrees F Or Gray iron casting meeting Section 9-05.15
Anchors (studs)	Section 9-06.15
Threaded Anchors for Gray Iron Frame	ASTM F1554 grade 55 Headed Anchor Requirements
Bolts, Studs, Nuts, Washers	ASTM F 593 or A 193, Type 304 or 316, or Stainless

	steel grade 302, 304, or 316 in accordance with approved shop drawings
Hinges and Locking and Latching Mechanism and associated Hardware and Bolts	In accordance with approved shop drawings
Safety Bars	In accordance with approved shop drawings

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The last paragraph is revised to read:

The bearing seat and lid perimeter shall be free from burrs, dirt, and other foreign debris that would prevent solid seating. Bolts and nuts shall be liberally coated with anti-seize compound. Bolts shall be installed snug tight. The bearing seat and lid perimeter shall be machined to allow a minimum of 75 percent of the bearing areas to be seated with a tolerance of 0.0 to 0.005 inches measured with a feeler gage. The bearing area percentage will be measured for each side of the lid as it bears on the frame.

9-29.2(2) Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes

This section's title is revised to read:

Small Cable Vaults, Standard Duty Cable Vaults, Heavy-Duty Cable Vaults, Standard Duty Pull Boxes, and Heavy-Duty Pull Boxes

In the first paragraph, the first sentence is revised to read:

Small, Standard Duty and Heavy-Duty Cable Vaults and Standard Duty and Heavy-Duty Pull Boxes shall be constructed as a concrete box and as a concrete lid.

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

This section's title is revised to read:

Small Cable Vaults, Standard Duty Cable Vaults, and Standard Duty Pull Boxes

The first paragraph is revised to read:

Small and Standard Duty Cable Vaults and Standard Duty Pull boxes shall be concrete and have a minimum load rating of 22,500 pounds and be tested in accordance with Section 9-29.2(1)C for concrete Standard Duty Junction Boxes.

In the second paragraph, the first sentence is revised to read:

Concrete for Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes shall have a minimum compressive strength of 4,000 psi.

In the third paragraph, the first sentence is revised to read:

All Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes placed in sidewalks, walkways, and shared-use paths shall have slip-resistant surfaces.

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

1 Materials for Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes shall
2 conform to the following:

3
4 **9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable**

5 This section is supplemented with the following new subsection:
6

7 **9-29.3(3) Wire Marking Sleeves**

8 Wire marking sleeves shall be full-circle in design, non-adhesive, printable using an
9 indelible ink and shall fit snugly on the wire or cable. Marking sleeves shall be made
10 from a PVC or polyolefin, and provide permanent identification for wires and cables.
11

12 **9-29.3(2)A4 Location Wire**

13 This section is revised to read:
14

15 Location wire shall be steel core copper clad minimum size AWG 14 insulated
16 conductor. The insulation shall be orange High Molecular Weight High Density
17 Polyethylene (HMHDPE).
18

19 **9-29.16 Vehicular Signal Heads, Displays, and Housing**

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

22 A 1-inch-wide strip of yellow retro-reflective, type IV prismatic sheeting, conforming to
23 the requirements of Section 9-28.12, shall be applied around the perimeter of each
24 backplate with the exception of installations where all sections of the display will be dark
25 as part of normal operation such as ramp meters, hawk signals and tunnels.
26

27 **Section 9-31, Elastomeric Bearing Pads**

28 **August 4, 2014**

29 This section's title is revised to read:
30

31 **Elastomeric Pads**
32

33 **9-31.1 Requirements**

34 In the first paragraph, the word "bearing" is deleted from the first sentence.
35

36 In the first sentence of the second paragraph, the word "bearing" is deleted and replaced
37 with "elastomeric".
38

39 In the last sentence of the second paragraph, the word "Bearing" is deleted and replaced
40 with "Elastomeric".
41

42 In the third paragraph, the word "bearing" is deleted and replaced with the word
43 "elastomeric".
44

45 **Section 9-32, Mailbox Support**

46 **August 4, 2014**

47 **9-32.7 Type 2 Mailbox Support**

48 The first sentence is revised to read:
49

1 Type 2 mailbox supports shall be 2-inch 14-gage steel tube and shall meet the NCHRP
2 350 or the Manual for Assessing Safety Hardware (MASH) crash test criteria.

3
4 **Section 9-34, Pavement Marking Material**
5 **January 5, 2015**

6 **9-34.2 Paint**

7 The second paragraph is revised to read:

8
9 Blue and black paint shall comply with the requirements of yellow paint in Section 9-
10 34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need
11 to meet the requirements for titanium dioxide, directional reflectance, and contrast ratio.

12
13 **9-34.4 Glass Beads for Pavement Marking Materials**

14 In the third paragraph, the table titled "Metal Concentration Limits" is revised to read:

15

Metal Concentration Limits		
Element	Test Method	Max. Parts Per Million (ppm)
Arsenic	EPA 3052 SW-846 6010C	10.0
Barium	EPA 3052 SW-846 6010C	100.0
Cadmium	EPA 3052 SW-846 6010C	1.0
Chromium	EPA 3052 SW-846 6010C	5.0
Lead	EPA 3052 SW-846 6010C	50.0
Silver	EPA 3052 SW-846 6010C	5.0
Mercury	EPA 3052 SW-846 7471B	4.0

16
17
18 **9-34.5 Temporary Pavement Marking Tape**

19 This section is revised to read:

20
21 Biodegradable tape with paper backing is not allowed.

22
23 This section is supplemented with the following new sub-sections:

24
25 **9-34.5(1) Temporary Pavement Marking Tape – Short Duration**

26 Temporary pavement marking tape for short duration shall conform to ASTM D4592
27 Type II except that black tape, black mask tape and the black portion of the contrast
28 removable tape, shall be non-reflective.

29
30 **9-34.5(2) Temporary Pavement Marking Tape – Long Duration**

31 Temporary pavement marking tape for long duration shall conform to ASTM D4592 Type
32 I. Temporary pavement marking tape for long duration, except for black tape, shall have
33 a minimum initial coefficient of retroreflective luminance of $200 \text{ mcd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ when
34 measured in accordance with ASTM E 2832 or ASTM E 2177. Black tape, black mask
35 tape and the black portion of the contrast removable tape, shall be non-reflective.

36
37 **9-34.6 Temporary Raised Pavement Markers**

38 This section's title is revised to read:

39
40 **Temporary Flexible Raised Pavement Markers**

41
42 The second paragraph is deleted.

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Section 9-35, Temporary Traffic Control Materials
August 4, 2014

9-35.0 General Requirements

The following item is deleted from the list of temporary traffic control materials:

Barrier Drums

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

Certification for crashworthiness according to NCHRP 350 or the Manual for Assessing Safety Hardware (MASH) will be required as described in Section 1-10.2(3).

9-35.2 Construction Signs

The first sentence is revised to read:

Construction signs shall conform to the requirements of the MUTCD and shall meet the requirements of NCHRP Report 350 for Category 2 devices or MASH.

9-35.7 Traffic Safety Drums

The third paragraph is revised to read:

Drums and light units shall meet the crashworthiness requirements of NCHRP 350 or MASH as described in Section 1-10.2(3).

9-35.8 Barrier Drums

This section including title is deleted in its entirety and replaced with the following:

9-35.8 Vacant

9-35.12 Transportable Attenuator

In the first paragraph, the fourth sentence is revised to read:

The Contractor shall provide certification that the transportable attenuator complies with NCHRP 350 Test level 3 or MASH Test Level 3 requirements.

9-35.13 Tall Channelizing Devices

In the sixth paragraph, the last sentence is revised to read:

The method of attachment must ensure that the light does not separate from the device upon impact and light units shall meet the crashworthiness requirements of NCHRP 350 or MASH as described in Section 1-10.2(3).

CONTENTS

1

2 PAGE

3

4

5 INTRODUCTION----- 1

6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

7 INTRODUCTION----- 1

8 SPECIAL PROVISIONS

9 DIVISION 1

10 GENERAL REQUIREMENTS

11 DEFINITIONS AND TERMS ----- 2

12 Definitions----- 2

13 BID PROCEDURES AND CONDITIONS ----- 4

14 Prequalification of Bidders ----- 4

15 Plans and Specifications ----- 4

16 Proposal Forms----- 4

17 Preparation of Proposal----- 4

18 Bid Deposit----- 5

19 Delivery of Proposal ----- 5

20 Irregular Proposals----- 6

21 Disqualification of Bidders----- 7

22 Pre Award Information ----- 7

23 AWARD AND EXECUTION OF CONTRACT ----- 8

24 Consideration of Bids----- 8

25 Award of Contract ----- 8

26 Execution of Contract ----- 8

27 Contract Bond----- 9

28 Retainage in Lieu of Contract Bond----- 10

29 SCOPE OF THE WORK ----- 10

30 Coordination of Contract Documents, Plans, Special Provisions, ----- 10

31 Variation in Estimated Quantities ----- 11

32 CONTROL OF WORK ----- 11

33 Removal of Defective and Unauthorized Work----- 11

1	Final Inspection -----	12
2	Final Acceptance -----	13
3	Superintendents, Labor and Equipment of Contractor -----	14
4	Cooperation With Other Contractors-----	14
5	Method of Serving Notices -----	15
6	Water and Power -----	15
7	Oral Agreements -----	15
8	CONTROL OF MATERIALS-----	15
9	Approval of Materials Proir to Use -----	15
10	Submittals -----	16
11	Handling and Storing Materials -----	18
12	On-Site Storage -----	18
13	Off-Site Storage-----	18
14	LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC-----	18
15	Laws to be Observed-----	20
16	State Sales Tax -----	20
17	Contractor's Responsibility for Work -----	21
18	Repair of Damage-----	21
19	Protection And Restoration Of Property-----	21
20	Utilities and Similar Facilities -----	21
21	Public Liability and Property Damage Insurance -----	23
22	Public Convenience and Safety-----	26
23	Construction Under Traffic -----	26
24	Rights of Way -----	28
25	Prosecution and Progress-----	28
26	Preliminary Matters -----	29
27	Hours of Work -----	29
28	Subcontracting -----	30
29	Progress Schedule-----	30
30	General Requirements -----	30
31	Time For Completion -----	30
32	Liquidated Damages-----	30
33	MEASUREMENT AND PAYMENT -----	31

1	Force Account-----	31
2	Payments-----	32
3	Claims Resolution-----	31
4	Administration of Arbitration-----	32
5	TEMPORARY TRAFFIC CONTROL-----	32
6	Traffic Control Management -----	32
7		
8	Claims \$250,000 or Less -----	32
9	TEMPORARY TRAFFIC CONTROL -----	32
10	Traffic Control Management -----	32
11	General -----	33
12	Traffic Control Labor, Procedures and Devices -----	33
13	Traffic Control Procedures -----	34
14	Item Bids With Lump Sum for Incidentals -----	34
15		
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1	Speed Hump -----	40
2	Preparation of Aggregates -----	40
3	Statistical or Nonstatistical Evaluation-----	40
4	Mixing -----	41
5	General -----	41
6	Definition of Sampling Lot and Sublot -----	41
7	Test Results-----	42
8	Test Methods -----	42
9	Joints -----	42
10	Feathered Joints-----	42
11	Joint Sealing-----	42
12	Longitudinal Joints -----	42
13	Planing Bituminous Pavement -----	43
14	Measurement-----	43
15	Payment-----	44
16	Quality Assurance Price Adjustments -----	44
17	Price Adjustments for Quality of HMA Mixture-----	44
18	Price Adjustments for Quality of HMA Compaction-----	45
19	Asphalt Cost Price Adjustment-----	45
20	DIVISION 7	
21	DRAINAGE STRUCTURES, STORM SEWERS, SANITARY	
22	SEWERS, WATER MAINS, AND CONDUITS	
23	NORTHEAST SAMMAMISH SEWER AND WATER DISTRICT UTILITIES -----	46
24	SAMMAMISH PLATEAU WATER AND SWERE DISTRICT MANHOLES -----	48
25	SAMMAMISH PLATEAU WATER AND SEWER DISTRICT WATER VALVES-----	49
26	Construction Requirements-----	50
27	Adjusting Valve Box and Castings or Clean-out Castings to Grade-----	50
28	Adjusting Meter Boxes to Grade-----	51
29	Adjusting Manholes and Catch Basins to Grade-----	51
30	Valves for Water Mains -----	52
31	DIVISION 8	
32	MISCELLANEOUS CONSTRUCTION	
33	Cul-De-Sac Island Restoration-----	53

1	Irrigation Systems -----	54
2	CURBS GUTTERS AND SPILLWAYS -----	55
3	Curb and Gutter Repair -----	55
4	MONUMENT CASES -----	56
5	CEMENT CONCRETE SIDEWALKS -----	57
6	ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL -----	60
7	PAVEMENT MARKINGS -----	61
8	Speed Hump Striping -----	61
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		DIVISION 9
10		MATERIALS
11	AGGREGATES -----	61
12	Aggregates for Hot Mix Asphalt -----	61
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1 **INTRODUCTION TO THE SPECIAL PROVISIONS**

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

4
5 The work on this project shall be accomplished in accordance with the *Standard Specifications*
6 *for Road, Bridge and Municipal Construction*, 20***14*** edition, as issued by the Washington
7 State Department of Transportation (WSDOT) and the American Public Works Association
8 (APWA), Washington State Chapter (hereafter “Standard Specifications”). The Standard
9 Specifications, as modified or supplemented by the Amendments to the Standard
10 Specifications and these Special Provisions, all of which are made a part of the Contract
11 Documents, shall govern all of the Work.

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

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

- 23
24 *(March 8, 2013 APWA GSP)*
25 *(April 1, 2013 WSDOT GSP)*
26 *(May 1, 2013 SAMMAMISH GSP)*
27

28 Also incorporated into the Contract Documents by reference are:

- 29 • *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted
30 edition, with Washington State modifications, if any
31 • *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA, current
32 edition
33 • *City of Sammamish Interim Public Works Standards*
34

35 Contractor shall obtain copies of these publications, at Contractor’s own expense.
36
37

38 **DIVISION 1**
39 **GENERAL REQUIREMENTS**

40
41 **DESCRIPTION OF WORK**

42
43 (March 13, 1995)
44 This Contract provides for the improvement of *** various City of Sammamish Streets by
45 planing, leveling, and overlaying with HMA pavement, thickened edge HMA curb, concrete
46 extruded curb, utility structure adjustments, pavement markings, concrete ADA ramp
47 alterations, concrete curb and gutter, concrete sidewalk*** and other work, all in accordance
48 with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.
49
50
51

1 SECTION 1-01 DEFINITIONS AND TERMS

2

3 **1-01.3 Definitions**

4 *(March 8, 2013 APWA GSP)*

5

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

8

9

Dates

10

Bid Opening Date

11

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

12

Award Date

13

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

15

Contract Execution Date

16

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

17

Notice to Proceed Date

18

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

19

Substantial Completion Date

20

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

25

Physical Completion Date

26

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

29

Completion Date

30

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

34

Final Acceptance Date

35

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

36

37

Supplement this Section with the following:

38

39

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

43

44

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

46

47

All references to "final contract voucher certification" shall be interpreted to mean the final
48 payment form established by the Contracting Agency.

49

50

The venue of all causes of action arising from the advertisement, award, execution, and
51 performance of the contract shall be in the Superior Court of the County where the
52 Contracting Agency's headquarters are located.

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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.

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.

Business Day

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

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.

Contract Documents

See definition for "Contract".

Contract Time

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

Notice of Award

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

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.

Traffic

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

SECTION 1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder

(January 24, 2011 APWA GSP)

1 Before award of a public works contract, a bidder must meet at least the minimum
2 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to
3 be awarded a public works project.
4

5 **1-02.2 Plans and Specifications**

6 *(June 27, 2011 APWA GSP)*
7

8 Delete this section and replace it with the following:
9

10 Information as to where Bid Documents can be obtained or reviewed can be found in the
11 Call for Bids (Advertisement for Bids) for the work.
12

13 After award of the contract, plans and specifications will be issued to the Contractor at no
14 cost as detailed below:
15

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	***3***	Furnished automatically upon award.
Contract Provisions	***3***	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	***0***	Furnished only upon request.

16
17 Additional plans and Contract Provisions may be obtained by the Contractor from the
18 source stated in the Call for Bids, at the Contractor's own expense.
19

20 **1-02.5 Proposal Forms**

21 *(June 27, 2011 APWA GSP)*
22

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

25 The Proposal Form will identify the project and its location and describe the work. It will
26 also list estimated quantities, units of measurement, the items of work, and the materials
27 to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal
28 form that call for, but are not limited to, unit prices; extensions; summations; the total bid
29 amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment
30 of addenda; the bidder's name, address, telephone number, and signature; the bidder's
31 D/M/WBE commitment, if applicable; a State of Washington Contractor's Registration
32 Number; and a Business License Number, if applicable. Bids shall be completed by typing
33 or shall be printed in ink by hand, preferably in black ink. The required certifications are
34 included as part of the Proposal Form.
35

36 The Contracting Agency reserves the right to arrange the proposal forms with alternates
37 and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid
38 on all alternates and additives set forth in the Proposal Form unless otherwise specified.
39

40 **1-02.6 Preparation of Proposal**

41 *(June 27, 2011 APWA GSP)*
42

1 Supplement the second paragraph with the following:
2

- 3 4. If a minimum bid amount has been established for any item, the unit or lump sum
4 price must equal or exceed the minimum amount stated.
5
6 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed
7 by the signer of the bid.
8

9 Delete the last paragraph, and replace it with the following:
10

11 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.
12

13 A bid by a corporation shall be executed in the corporate name, by the president or a vice
14 president (or other corporate officer accompanied by evidence of authority to sign).
15

16 A bid by a partnership shall be executed in the partnership name, and signed by a partner.
17 A copy of the partnership agreement shall be submitted with the Bid Form if any D/M/WBE
18 requirements are to be satisfied through such an agreement.
19

20 A bid by a joint venture shall be executed in the joint venture name and signed by a
21 member of the joint venture. A copy of the joint venture agreement shall be submitted with
22 the Bid Form if any D/W/MBE requirements are to be satisfied through such an agreement.
23

24 **1-02.7 Bid Deposit**

25 *(March 8, 2013 APWA GSP)*
26

27 Supplement this section with the following:
28

29 Bid bonds shall contain the following:
30

- 31 1. Contracting Agency-assigned number for the project;
32 2. Name of the project;
33 2. The Contracting Agency named as obligee;
34 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
35 represents five percent of the maximum bid amount that could be awarded;
36 5. Signature of the bidder's officer empowered to sign official statements. The signature
37 of the person authorized to submit the bid should agree with the signature on the bond,
38 and the title of the person must accompany the said signature;
39 6. The signature of the surety's officer empowered to sign the bond and the power of
40 attorney.
41

42 If so stated in the Contract Provisions, bidder must use the bond form included in the
43 Contract Provisions.
44

45 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
46

47 **1-02.9 Delivery of Proposal**

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

2

3 Delete this section and replace it with the following:

4

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

8

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

14

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

18

19 **1-02.13 Irregular Proposals**

20 (March 13, 2012 APWA GSP)

21

22 Revise item 1 to read:

23

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

50

1 **1-02.14 Disqualification of Bidders**

2 *(March 8, 2013 APWA GSP, Option A)*

3
4 Delete this Section and replace it with the following:

5
6 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder
7 responsibility criteria in RCW 39.04.350(1), as amended.

8
9 As evidence that the Bidder meets the mandatory bidder responsibility criteria, the
10 apparent two lowest Bidders must submit to the Contracting Agency within 24 hours of the
11 bid submittal deadline, documentation (sufficient in the sole judgment of the Contracting
12 Agency) demonstrating compliance with all responsibility criteria. The Contracting Agency
13 reserves the right to request such documentation from other Bidders as well, and to
14 request further documentation as needed to assess bidder responsibility. The Contracting
15 Agency also reserves the right to obtain information from third parties concerning a
16 Bidder's compliance with the mandatory bidder responsibility criteria.

17
18 If the Contracting Agency determines the Bidder does not meet the mandatory bidder
19 responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the
20 Contracting Agency shall notify the Bidder in writing, with the reasons for its determination.
21 If the Bidder disagrees with this determination, it may appeal the determination within two
22 (2) business days of the Contracting Agency's determination by presenting its appeal and
23 any additional information to the Contracting Agency. The Contracting Agency will
24 consider the appeal and any additional information before issuing its final determination.
25 If the final determination affirms that the Bidder is not responsible, the Contracting Agency
26 will not execute a contract with any other Bidder until at least two business days after the
27 Bidder determined to be not responsible has received the Contracting Agency's final
28 determination.

29
30 **1-02.15 Pre Award Information**

31 *(August 14, 2013 APWA GSP)*

32
33 Revise this section to read:

34
35 Before awarding any contract, the Contracting Agency may require one or more of these
36 items or actions of the apparent lowest responsible bidder:

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

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

2

3 **1-03.1 Consideration of Bids**

4 *(January 23, 2006 APWA GSP)*

5

6 Revise the first paragraph to read:

7

8 After opening and reading proposals, the Contracting Agency will check them for
9 correctness of extensions of the prices per unit and the total price. If a discrepancy exists
10 between the price per unit and the extended amount of any bid item, the price per unit will
11 control. If a minimum bid amount has been established for any item and the bidder's unit
12 or lump sum price is less than the minimum specified amount, the Contracting Agency will
13 unilaterally revise the unit or lump sum price, to the minimum specified amount and
14 recalculate the extension. The total of extensions, corrected where necessary, including
15 sales taxes where applicable and such additives and/or alternates as selected by the
16 Contracting Agency, will be used by the Contracting Agency for award purposes and to fix
17 the Awarded Contract Price amount and the amount of the contract bond.

18

19

20 **Award of Contract**

21

22 Section 1-03.2 is supplemented with the following:

23

24 (*****)

25 The Contract will be awarded on the basis of the total of all bid items (Contract Total). After
26 the award, the Contracting Agency has the option of deleting work associated with the
27 construction of *** water main and sanitary sewer adjustments ***. This work is
28 represented by the following bid items on the Summary of Quantities:

29

- 30 "Adjust Manhole - NESSWD", per each
- 31 "Adjust Valve Box - NESSWD", per each
- 32 "Adjust Meter Box - NESSWD", per each
- 33 "Adjust Manhole - SPWSD", per each
- 34 "Adjust Valve Box - SPWSD", per each
- 35 "Adjust Meter Box - SPWSD", per each

36

37 The deletion of this work will be documented by a change order. The change order will
38 not be subject to protest or negotiation. The amount of the change order price reduction
39 shall be the sum of the amounts bid for the items.

40

41 **1-03.3 Execution of Contract**

42 *(October 1, 2005 APWA GSP)*

43

44 Revise this section to read:

45

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

50

1 Within ***10*** calendar days after the award date, the successful bidder shall return the
2 signed Contracting Agency-prepared contract, an insurance certification as required by
3 Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
4 execution of the contract by the Contracting Agency, the successful bidder shall provide
5 any pre-award information the Contracting Agency may require under Section 1-02.15.
6

7 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
8 Agency nor shall any work begin within the project limits or within Contracting Agency-
9 furnished sites. The Contractor shall bear all risks for any work begun outside such areas
10 and for any materials ordered before the contract is executed by the Contracting Agency.
11

12 If the bidder experiences circumstances beyond their control that prevents return of the
13 contract documents within the calendar days after the award date stated above, the
14 Contracting Agency may grant up to a maximum of ***20*** additional calendar days for
15 return of the documents, provided the Contracting Agency deems the circumstances
16 warrant it.
17

19 **1-03.4 Contract Bond**

20 *(December 8, 2014 APWA GSP)*
21

22 Revise the first paragraph to read:
23

24 The successful bidder shall provide executed payment and performance bond(s) for the
25 full contract amount. The bond may be a combined payment and performance bond; or
26 be separate payment and performance bonds. In the case of separate payment and
27 performance bonds, each shall be for the full contract amount. The bond(s) shall:

- 28 1. Be on Contracting Agency-furnished form(s);
- 29 2. Be signed by an approved surety (or sureties) that:
 - 30 a. Is registered with the Washington State Insurance Commissioner, and
 - 31 b. Appears on the current Authorized Insurance List in the State of Washington
32 published by the Office of the Insurance Commissioner,
- 33 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and
34 conditions under the Contract, including but not limited to the duty and obligation to
35 indemnify, defend, and protect the Contracting Agency against all losses and claims
36 related directly or indirectly from any failure:
 - 37 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
38 subcontractors of the Contractor) to faithfully perform and comply with all contract
39 obligations, conditions, and duties, or
 - 40 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
41 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
42 subcontractors, material person, or any other person who provides supplies or
43 provisions for carrying out the work;
- 44 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
45 project under titles 50, 51, and 82 RCW; and
- 46 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the
47 bond; and

1 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
2 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by
3 the president or vice president, unless accompanied by written proof of the authority
4 of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution,
5 power of attorney, or a letter to such effect signed by the president or vice president).

6

7 Add the following new section:

8

9 **1-03.4(1) Retainage in Lieu of Contract Bond**

10 *(October 10, 2008 APWA GSP)*

11

12 For contracts of \$35,000 or less, the Contractor may, at the Contractor's option, authorize
13 the Contracting Agency to retain fifty percent (50%) of the contract amount in lieu of
14 furnishing a performance and/or payment bond. If the Contractor elects this option, the
15 retainage shall be held for a period of thirty (30) days after the date of final acceptance, or
16 until receipt of all necessary releases from the Departments of Revenue and of Labor and
17 Industries and settlement of any liens filed under RCW 60.28, whichever is later. The
18 Contractor must advise the Contracting Agency in writing of the Contractor's election to
19 authorize retainage in lieu of a bond, at the time of execution of the Contract.

20

21 In choosing this option, the Contractor agrees that if the Contractor, its heirs, executors,
22 administrators, successors, or assigns, shall in all things stand to and abide by, and well
23 and truly keep and perform the covenants, conditions and agreements in the Contract, and
24 shall faithfully perform all the provisions of such contract and shall also well and truly
25 perform and fulfill all the undertakings, covenants, terms, conditions and agreements of
26 any and all duly authorized modifications of the Contract that may hereafter be made, at
27 the time and in the manner therein specified, and shall pay all laborers, mechanics,
28 subcontractors, and material suppliers, and all persons who shall supply such person or
29 persons, or subcontractors, with provisions and supplies for the carrying on of such work,
30 on his or her part, and shall indemnify and save harmless the Contracting Agency, its
31 officers and agents from any claim for such payment, then the funds retained in lieu of a
32 performance bond shall be released at the time provided above; otherwise, the funds shall
33 be retained until the Contractor fulfills the said obligations.

34

35

36 **SECTION 1-04, SCOPE OF THE WORK**

37

38 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,
39 Specifications, and Addenda**

40 *(March 13, 2012 APWA GSP)*

41

42 Revise the second paragraph to read:

43

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

46

1. Addenda,

47

2. Proposal Form,

48

3. Special Provisions,

49

4. Contract Plans,

- 1 5. Amendments to the Standard Specifications,
- 2 6. Standard Specifications,
- 3 7. Contracting Agency's Standard Plans or Details (if any), and
- 4 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

5
6 **1-04.6 Variation in Estimated Quantities**

7 *(May 25, 2006 APWA GSP, Option B; may not be used on FHWA-funded projects)*

8
9 Delete the first paragraph, and replace it with the following:

10
11 Payment to the Contractor will be made only for the actual quantities of work performed
12 and accepted in conformance with the Contract. When the accepted quantity of work
13 performed under a unit item varies from the original proposal quantity, payment will be at
14 the unit contract price for all work unless the total accepted quantity of any contract item,
15 adjusted to exclude added or deleted amounts included in change orders accepted by both
16 parties, increases or decreases by more than 25 percent from the original proposal
17 quantity, and if the total extended bid price for that item at time of award is equal to or
18 greater than 10 percent of the total contract price at time of award. In that case, payment
19 for Contract Work may be adjusted as described herein.
20

21
22 **SECTION 1-05, CONTROL OF WORK**

23
24 **1-05.7 Removal of Defective and Unauthorized Work**

25 *(October 1, 2005 APWA GSP)*

26
27 Supplement this section with the following:

28
29 If the Contractor fails to remedy defective or unauthorized work within the time specified
30 in a written notice from the Engineer, or fails to perform any part of the work required by
31 the Contract Documents, the Engineer may correct and remedy such work as may be
32 identified in the written notice, with Contracting Agency forces or by such other means as
33 the Contracting Agency may deem necessary.
34

35 If the Contractor fails to comply with a written order to remedy what the Engineer
36 determines to be an emergency situation, the Engineer may have the defective and
37 unauthorized work corrected immediately, have the rejected work removed and replaced,
38 or have work the Contractor refuses to perform completed by using Contracting Agency or
39 other forces. An emergency situation is any situation when, in the opinion of the Engineer,
40 a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or
41 damage to the public.
42

43 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
44 remedying defective or unauthorized work, or work the Contractor failed or refused to
45 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
46 monies due, or to become due, the Contractor. Such direct and indirect costs shall include
47 in particular, but without limitation, compensation for additional professional services
48 required, and costs for repair and replacement of work of others destroyed or damaged by
49 correction, removal, or replacement of the Contractor's unauthorized work.
50

1 No adjustment in contract time or compensation will be allowed because of the delay in
2 the performance of the work attributable to the exercise of the Contracting Agency's rights
3 provided by this Section.
4

5 The rights exercised under the provisions of this section shall not diminish the Contracting
6 Agency's right to pursue any other avenue for additional remedy or damages with respect
7 to the Contractor's failure to perform the work as required.
8
9

10 **1-05.11 Final Inspection**

11
12 Delete this section and replace it with the following:
13

14 **1-05.11 Final Inspections and Operational Testing** 15 *(October 1, 2005 APWA GSP)* 16

17 **1-05.11(1) Substantial Completion Date** 18

19 When the Contractor considers the work to be substantially complete, the Contractor shall
20 so notify the Engineer and request the Engineer establish the Substantial Completion
21 Date. The Contractor's request shall list the specific items of work that remain to be
22 completed in order to reach physical completion. The Engineer will schedule an inspection
23 of the work with the Contractor to determine the status of completion. The Engineer may
24 also establish the Substantial Completion Date unilaterally.
25

26 If, after this inspection, the Engineer concurs with the Contractor that the work is
27 substantially complete and ready for its intended use, the Engineer, by written notice to
28 the Contractor, will set the Substantial Completion Date. If, after this inspection the
29 Engineer does not consider the work substantially complete and ready for its intended use,
30 the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.
31

32 Upon receipt of written notice concurring in or denying substantial completion, whichever
33 is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
34 interruption, the work necessary to reach Substantial and Physical Completion. The
35 Contractor shall provide the Engineer with a revised schedule indicating when the
36 Contractor expects to reach substantial and physical completion of the work.
37

38 The above process shall be repeated until the Engineer establishes the Substantial
39 Completion Date and the Contractor considers the work physically complete and ready for
40 final inspection.
41

42 **1-05.11(2) Final Inspection and Physical Completion Date** 43

44 When the Contractor considers the work physically complete and ready for final inspection,
45 the Contractor by written notice, shall request the Engineer to schedule a final inspection.
46 The Engineer will set a date for final inspection. The Engineer and the Contractor will then
47 make a final inspection and the Engineer will notify the Contractor in writing of all
48 particulars in which the final inspection reveals the work incomplete or unacceptable. The
49 Contractor shall immediately take such corrective measures as are necessary to remedy
50 the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without
51 interruption until physical completion of the listed deficiencies. This process will continue
52 until the Engineer is satisfied the listed deficiencies have been 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.

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

1-05.11(3) Operational Testing

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

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.

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

1-05.12 Final Acceptance

Add the following new section:

1-05.12(1) One-Year Guarantee Period
(March 8, 2013 APWA GSP, may not be used on FHWA funded projects)

The Contractor shall return to the project and repair or replace all defects in workmanship and material discovered within one year after Final Acceptance of the Work. The Contractor shall start work to remedy any such defects within 7 calendar days of receiving Contracting Agency's written notice of a defect, and shall complete

1 such work within the time stated in the Contracting Agency's notice. In case of an
2 emergency, where damage may result from delay or where loss of services may
3 result, such corrections may be made by the Contracting Agency's own forces or
4 another contractor, in which case the cost of corrections shall be paid by the
5 Contractor. In the event the Contractor does not accomplish corrections within the
6 time specified, the work will be otherwise accomplished and the cost of same shall be
7 paid by the Contractor.

8
9 When corrections of defects are made, the Contractor shall then be responsible for
10 correcting all defects in workmanship and materials in the corrected work for one year
11 after acceptance of the corrections by Contracting Agency.

12
13 This guarantee is supplemental to and does not limit or affect the requirements that
14 the Contractor's work comply with the requirements of the Contract or any other legal
15 rights or remedies of the Contracting Agency.

16
17
18 **1-05.13 Superintendents, Labor and Equipment of Contractor**
19 *(August 14, 2013 APWA GSP)*

20
21 Delete the sixth and seventh paragraphs of this section.

22
23
24 **Cooperation With Other Contractors**

25
26 Section 1-05.14 is supplemented with the following:

27
28 ***(March 13, 1995)***
29 ***Other Contracts Or Other Work***

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

33
34 Utility Companies may choose to select their own forces or contractors to perform work on
35 their facilities impacted by work performed as part of this Contract:

36
37 Utility Companies with facilities located within the work area are:

- 38
39 *** Sammamish Plateau Water and Sewer District ***
40 *** Northeast Sammamish Sewer and Water District ***
41 *** Puget Sound Energy***
42 *** Qwest Communications***
43 *** Williams Gas Pipelines***
44 *** Frontier***
45 *** Comcast***

46
47 ***(*****)***
48 The Contractor shall coordinate work with the garbage and waste recycling collection
49 contractors so that collection services to property owners are not interrupted by work for
50 this Contract. If the Engineer determines it to be necessary, hours or work will be reduced

1 on collection days to allow for collection services. No additional compensation will be
2 allowed if the working hours are reduced on the days of waste and recycling collection.

3
4 Republic Service Contact
5 Wes Smith, Supervisor
6 425-646-2513

7
8 Waste Management Contact
9 Jeff Ross, Route Manager
10 425-531-0722

11
12 **1-05.15 Method of Serving Notices**
13 *(March 25, 2009 APWA GSP)*

14
15 Revise the second paragraph to read:

16
17 All correspondence from the Contractor shall be directed to the Project Engineer. All
18 correspondence from the Contractor constituting any notification, notice of protest, notice
19 of dispute, or other correspondence constituting notification required to be furnished under
20 the Contract, must be in paper format, hand delivered or sent via mail delivery service to
21 the Project Engineer's office. Electronic copies such as e-mails or electronically delivered
22 copies of correspondence will not constitute such notice and will not comply with the
23 requirements of the Contract.

24
25 Add the following new section:

26
27 **1-05.16 Water and Power**
28 *(October 1, 2005 APWA GSP)*

29
30 The Contractor shall make necessary arrangements, and shall bear the costs for power
31 and water necessary for the performance of the work, unless the contract includes power
32 and water as a pay item.

33
34 Add the following new section:

35
36 **1-05.17 Oral Agreements**
37 *(October 1, 2005 APWA GSP)*

38
39 No oral agreement or conversation with any officer, agent, or employee of the Contracting
40 Agency, either before or after execution of the contract, shall affect or modify any of the
41 terms or obligations contained in any of the documents comprising the contract. Such oral
42 agreement or conversation shall be considered as unofficial information and in no way
43 binding upon the Contracting Agency, unless subsequently put in writing and signed by
44 the Contracting Agency.

45
46
47 **SECTION 1-06, CONTROL OF MATERIAL**

48
49 **Approval of Materials Prior to Use**
50 *(June 2006 City of Sammamish)*

51
52 Section 1-06 is supplemented with the following:

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1. Within these Contract Documents, certain items are specified by brand, style, trade name, or manufacturer in order to set forth a standard of quality, and/or preference by the Contracting Agency. It is not the intent of these Specifications to exclude other processes or materials of a type and quality equal to those designated.
2. Whenever a manufacturer's name, brand, or item designation is given, it shall be understood that the words "or equal" follow such name or designation whether in fact they do so or not.
3. The phrase "or equal" is not to be construed to mean that material or equipment will be necessarily approved as equal by the Engineer; any such approval shall only be effective when the item has been specifically approved in advance and in writing by the Engineer.
4. No additional compensation or extension of time will be allowed the Contractor for any changes required to adopt substituted materials or equipment.

Submittals
(June 2006 City of Sammamish)

Section 1-06.1 is supplemented with the following:

General

The Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall assure that the material, equipment or method of Work shall be as described in the submittal. The Contractor shall verify that all features of all products conform to the requirements of the Specifications and drawings. Submittal documents shall be clearly edited to indicate only those items, models, or series of materials or equipment, which are being submitted for review. All extraneous materials shall be crossed out or otherwise obliterated. The Contractor shall ensure that there is no conflict with other submittals and specifically notify the Contracting Agency in each case where his/her submittal may affect the Work of another Contractor or the Contracting Agency. The Contractor shall ensure coordination of submittals among the related crafts and sub-Contractors. If the Contractor proposes to provide material, equipment, or method of Work, which deviates from the project Specifications, the Contractor shall indicate so under "deviations" on the transmittal form accompanying the submittal copies.

Work Included

Submittals required for this Work shall include any or all of the following as required by the particular Specification section and the submittal schedule:

- a. Manufacturer's Literature
- b. Shop Drawings
- c. Material Samples
- d. Test Report

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Submittal Information

Shop, catalog, and other appropriate drawings shall be submitted to the Engineer for review prior to fabrication or ordering of all equipment or materials specified. The number of copies of submittal information to be submitted shall be as indicated in the following parts of this Section.

All submittal information shall be sent to the Contracting Agency or the Agency's designated representative through the general Contractor.

Each submittal shall be accompanied by a letter of transmittal showing the date of transmittal, Specification section or drawing number to which the submittal pertains, and a brief description of the material submitted.

When the Contract documents require a submittal, the Contractor shall submit the specified information as follows:

1. One (1) reproducible original and one (1) scanned copy sent via email.
2. The original will be retained for Contracting Agency and Engineer records. One (1) scanned copy will be returned to the Contractor with the approval action noted.

Manufacturer's Literature

Where the contents of submitted literature includes data is not pertinent to the submittal, the portion(s) of the contents being submitted for the Engineer's review shall be clearly indicated.

Shop Drawings

Shop Drawings shall be submitted in the form of blue-line or black-line prints of each sheet. Blueprint submittals will not be acceptable.

All Shop Drawings shall be accurately drawn to a scale sufficiently large enough to show pertinent features and method of connection or joining. On all Shop Drawings, figure dimensions shall be used as opposed to scaled dimensions.

Shop Drawings shall bear the Contractor's certification that it has reviewed, checked, and approved the Shop Drawings.

Material Samples

All material samples shall be of the exact article proposed to be furnished and shall be submitted in the quantity required to be returned to the Contractor, plus one additional sample to be retained by the Engineer.

Test Reports

A minimum of four (4) copies of test reports shall be submitted to the Contracting Agency and/or its designated representative.

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Resubmittals

When material is resubmitted for any reason, it shall be resubmitted under a new letter of transmittal and referenced to the previous submittal.

Timing of Product Submittals

- 1. All submittals shall be made far enough in advance of installation to provide all required time for reviews and securing of necessary approvals.
- 2. In scheduling, the Contractor shall allow at least twenty (20) calendar days for the Engineer's review following its receipt of the submittal.
- 3. A minimum of six (6) copies are required for submittal (Shop Drawings, manufacturer's literature, etc.) four (4) copies will be retained by the Engineer. The remaining copies will be returned to the Contractor.

Delays

Cost of delays occasioned by tardiness of submittals on the part of the Contractor will not be borne by the Contracting Agency, or the Engineer.

Handling and Storing Materials

On-Site Storage

(June 2006 City of Sammamish)

Section 1-06.4 is supplemented with the following:

The Contractor shall store all equipment and materials in a safe and suitable place in accordance with the Manufacturer's recommendations. Materials shall be covered or wrapped to protect them from moisture, dust and deterioration as required. All on-site storage areas shall be approved in advance by the Engineer.

Off-Site Storage

(June 2006 City of Sammamish)

Section 1-06.4 is supplemented with the following:

The Contractor may be required to provide off-site storage of equipment and materials to enable construction to occur at the construction site. The Contractor has full responsibility to secure all off-site storage areas, if needed, and shall include the costs for providing such storage areas in the Contract Bid Proposal for the individual equipment and material items requiring offsite storage. All off-site storage areas shall be fenced, secure and have access restricted or withheld from the General Public.

SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

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

2 *(October 1, 2005 APWA GSP)*

3
4 Supplement this section with the following:

5
6 In cases of conflict between different safety regulations, the more stringent regulation shall
7 apply.

8
9 The Washington State Department of Labor and Industries shall be the sole and
10 paramount administrative agency responsible for the administration of the provisions of
11 the Washington Industrial Safety and Health Act of 1973 (WISHA).

12
13 The Contractor shall maintain at the project site office, or other well known place at the
14 project site, all articles necessary for providing first aid to the injured. The Contractor shall
15 establish, publish, and make known to all employees, procedures for ensuring immediate
16 removal to a hospital, or doctor's care, persons, including employees, who may have been
17 injured on the project site. Employees should not be permitted to work on the project site
18 before the Contractor has established and made known procedures for removal of injured
19 persons to a hospital or a doctor's care.

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

30
31
32 **1-07.2 State Taxes**

33
34 Delete this section, including its sub-sections, in its entirety and replace it with the following:

35
36 **1-07.2 State Sales Tax**

37 *(June 27, 2011 APWA GSP)*

38
39 The Washington State Department of Revenue has issued special rules on the State sales
40 tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor
41 should contact the Washington State Department of Revenue for answers to questions in
42 this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid
43 on a misunderstood tax liability.

44
45 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract
46 amounts. In some cases, however, state retail sales tax will not be included. Section 1-
47 07.2(2) describes this exception.

48
49 The Contracting Agency will pay the retained percentage (or release the Contract Bond if
50 a FHWA-funded Project) only if the Contractor has obtained from the Washington State
51 Department of Revenue a certificate showing that all contract-related taxes have been
52 paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the

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

5 **1-07.2(1) State Sales Tax — Rule 171**
6

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

17 **1-07.2(2) State Sales Tax — Rule 170**
18

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

30 For work performed in such cases, the Contractor shall collect from the Contracting
31 Agency, retail sales tax on the full contract price. The Contracting Agency will
32 automatically add this sales tax to each payment to the Contractor. For this reason, the
33 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
34 contract amount subject to Rule 170, with the following exception.
35

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

41 **1-07.2(3) Services**
42

43 The Contractor shall not collect retail sales tax from the Contracting Agency on any
44 contract wholly for professional or other services (as defined in Washington State
45 Department of Revenue Rules 138 and 244).
46
47

48 **Contractor's Responsibility for Work**

49 **Repair of Damage**

50 Section 1-07.13(4) is revised to read:
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The Contractor shall promptly repair all damage to either temporary or permanent work as directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment will be limited to repair of damaged work only. No payment will be made for delay or disruption of work.

Section 1-07.16 Protection and Restoration of Property

Private/Public Property
(March 19, 2010 City of Sammamish)

Supplement section 1-07.16(1):

Only equipment with rubber tires or smooth tracks will be allowed on the finished roads or road surfaces which are not to be reconstructed as a part of this Project. Tracks with cleats or other devices which damage the road surfacing will not be allowed. All outriggers shall be equipped with street pads.

Along the street to be improved, there are privately owned improvements on the properties abutting the right-of-way. Even though all reasonable precaution is to be taken by the Contractor, these improvements may in some instances be damaged. In the event such occurs, and claims for damages are filed by the individuals, the Contracting Agency will request that the Contractor give evidence that he has requested his insurance company to make personal contact with the claimant. Any settlement for insurance claims shall be strictly an act restricted to the claimant, the Contractor and his insurance company.

Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:

(April 2, 2007)
Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

Public and private utilities, or their Contractors, will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocation, replacement, or construction will be done during the prosecution of the work for this project. It is anticipated that utility adjustment, relocation, replacement or construction within the project limits will be completed as follows:

Utility adjustments will be made during this contract. Some utility covers will be temporarily lowered prior to paving. All utilities covers will be adjusted once the top course of pavement is placed.

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

5 The following addresses and telephone numbers of utility companies or their Contractors
6 that will be adjusting, relocating, replacing or constructing utilities within the project limits
7 are supplied for the Contractor's use:
8

9 *** Puget Sound Energy ***
10 Rebecca Nicholas
11 P.O. Box 90868
12 Bellevue, WA 98009-0868
13 425.462.3727
14

15 *** CenturyLink ***
16 Peter Stockton
17 1200 12th Avenue NE
18 Issaquah, WA 98027
19 206.345.3963
20

21 *** NE Sammamish Sewer & Water District ***
22 Art Primeau
23 3600 Sahalee Way NE
24 Sammamish, Wa 98074
25 425.868.1144
26

27 ***Sammamish Plateau Water & Sewer District****
28 Jim Konigsfeld
29 1510 228th Avenue SE
30 Sammamish, WA 98075
31 425.392.4931 ext. 217
32

33 *** Williams Gas Pipelines***
34 Grant Jenson
35 425.868.1010
36

37 ***Comcast (Cable/Fiber Optic)***
38 1525 75th Street SW, Suite 200
39 Everett, WA 98203
40 Attn: Jill Look
41 425.263.5346
42

43 ***Frontier***
44 PO Box 1003
45 Everett, WA 98206
46 Attn: Mike Hakakan
47 425.263.4038
48

49 The Contractor shall give forty-eight (48) hours-notice to all utility companies/agencies
50 involved where work is to take place and in all other respects comply with the provisions
51 of Chapter 19.122 RCW. Notice shall include, but not be limited to, the utility
52 companies/agencies serving the area.

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1-07.17(3) Utility Service
(June 2006 City of Sammamish)

Section 1-07.17(3) is added as follows:

The Contractor shall maintain the operational service of all existing utilities, to include water, storm, power, telephone, cable TV, sanitary, and gas except where this Contract requires specifically for its temporary interruption. Where services are to be temporarily interrupted, affected parties shall be notified in writing at least 48 hours and not more than 72 hours in advance of the time and period of shut-down. Language, format, etc. of written notices shall be reviewed and approved by the Contracting Agency prior to distribution by the Contractor. The Contractor shall make every effort to keep scheduled shut downs to periods of anticipated minimum usage and for the least period of time.

No utility service shall be shut down or "out of service" for more than four (4) hours per day.

Should a non-scheduled shutdown of any utility be required for a period in excess of four hours, the Contractor shall take necessary measures to provide temporary service. The method of all temporary utility services shall first be approved by the Contracting Agency.

Locate Existing Utilities

Section 1-07.17(4) is added as follows:

A reasonable attempt has been made to locate existing utilities; however, the exact location and/or depth is unknown in most instances. It is the responsibility of the Contractor to locate the existing utilities and their respective depths.

1-07.18 Public Liability and Property Damage Insurance

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

1-07.18 Insurance
(January 24, 2011 APWA GSP)

1-07.18(1) General Requirements

A. The Contractor shall obtain the insurance described in this section from insurers approved by the State Insurance Commissioner pursuant to RCW Title 48. The insurance must be provided by an insurer with a rating of A-: VII or higher in the A.M. Best's Key Rating Guide, which is licensed to do business in the state of Washington (or issued as a surplus line by a Washington Surplus lines broker). The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer (including financial condition), terms and coverage, the Certificate of Insurance, and/or endorsements.

- 1 B. The Contractor shall keep this insurance in force during the term of the Contract and
2 for thirty (30) days after the Physical Completion date, unless otherwise indicated (see
3 C. below).
4
- 5 C. If any insurance policy is written on a claims made form, its retroactive date, and that
6 of all subsequent renewals, shall be no later than the effective date of this
7 Contract. The policy shall state that coverage is claims made, and state the retroactive
8 date. Claims-made form coverage shall be maintained by the Contractor for a
9 minimum of 36 months following the Final Completion or earlier termination of this
10 Contract, and the Contractor shall annually provide the Contracting Agency with proof
11 of renewal. If renewal of the claims made form of coverage becomes unavailable, or
12 economically prohibitive, the Contractor shall purchase an extended reporting period
13 (“tail”) or execute another form of guarantee acceptable to the Contracting Agency to
14 assure financial responsibility for liability for services performed.
15
- 16 D. The insurance policies shall contain a “cross liability” provision.
17
- 18 E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-
19 contributory insurance as respects the Contracting Agency’s insurance, self-insurance,
20 or insurance pool coverage.
21
- 22 F. The Contractor shall provide the Contracting Agency and all Additional Insureds with
23 written notice of any policy cancellation, within two business days of their receipt of
24 such notice.
25
- 26 G. Upon request, the Contractor shall forward to the Contracting Agency a full and
27 certified copy of the insurance policy(s).
28
- 29 H. The Contractor shall not begin work under the Contract until the required insurance
30 has been obtained and approved by the Contracting Agency.
31
- 32 I. Failure on the part of the Contractor to maintain the insurance as required shall
33 constitute a material breach of contract, upon which the Contracting Agency may, after
34 giving five business days notice to the Contractor to correct the breach, immediately
35 terminate the Contract or, at its discretion, procure or renew such insurance and pay
36 any and all premiums in connection therewith, with any sums so expended to be repaid
37 to the Contracting Agency on demand, or at the sole discretion of the Contracting
38 Agency, offset against funds due the Contractor from the Contracting Agency.
39
- 40 J. All costs for insurance shall be incidental to and included in the unit or lump sum prices
41 of the contract and no additional payment will be made.
42

43 **1-07.18(2) Additional Insured**

44 All insurance policies, with the exception of Professional Liability and Workers
45 Compensation, shall name the following listed entities as additional insured(s):
46

- 47 ■ the Contracting Agency and its officers, elected officials, employees, agents, and
48 volunteers
 - 49 ■ ***NE Sammamish Sewer and Water District***
 - 50 ■ ***Water and Sewer Risk Management Pool***
 - 51 ■ ***Sammamish Plateau Water***
- 52

1 The above-listed entities shall be additional insured(s) for the full available limits of liability
2 maintained by the Contractor, whether primary, excess, contingent or otherwise,
3 irrespective of whether such limits maintained by the Contractor are greater than those
4 required by this Contract, and irrespective of whether the Certificate of Insurance provided
5 by the Contractor pursuant to 1-07.18(3) describes limits lower than those maintained by
6 the Contractor.

7
8 **1-07.18(3) Subcontractors**

9 Contractor shall ensure that each subcontractor of every tier obtains and maintains at a
10 minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request
11 of the Contracting Agency, the Contractor shall provide evidence of such insurance.
12

13 **1-07.18(4) Evidence of Insurance**

14 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
15 endorsements for each policy of insurance meeting the requirements set forth herein when
16 the Contractor delivers the signed Contract for the work. The certificate and endorsements
17 must conform to the following requirements:

- 18 1. An ACORD certificate or a form determined by the Contracting Agency to be
19 equivalent.
- 20 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
21 1-07.18(2) as Additional Insured(s), showing the policy number. The Contractor may
22 submit a copy of any blanket additional insured clause from its policies instead of a
23 separate endorsement. A statement of additional insured status on an ACORD
24 Certificate of Insurance shall not satisfy this requirement.
- 25 3. Any other amendatory endorsements to show the coverage required herein.
26

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

28 The insurance shall provide the minimum coverages and limits set forth below. Providing
29 coverage in these stated minimum limits shall not be construed to relieve the Contractor
30 from liability in excess of such limits. All deductibles and self-insured retentions must be
31 disclosed and are subject to approval by the Contracting Agency. The cost of any claim
32 payments falling within the deductible shall be the responsibility of the Contractor.
33

34 **1-07.18(5)A Commercial General Liability**

35 A policy of Commercial General Liability Insurance, including:

- 36
37 Per project aggregate
38 Premises/Operations Liability
39 Products/Completed Operations – for a period of one year following final acceptance of
40 the work.
41 Personal/Advertising Injury
42 Contractual Liability
43 Independent Contractors Liability
44 Stop Gap / Employers' Liability
45 Explosion, Collapse, or Underground Property Damage (XCU)
46 Blasting (only required when the Contractor's work under this Contract includes exposures
47 to which this specified coverage responds)
48

49 Such policy must provide the following minimum limits:

- 50 \$1,000,000 Each Occurrence
51 \$2,000,000 General Aggregate
52 \$1,000,000 Products & Completed Operations Aggregate

1 \$1,000,000 Personal & Advertising Injury, each offence
2
3 Stop Gap / Employers' Liability
4 \$1,000,000 Each Accident
5 \$1,000,000 Disease - Policy Limit
6 \$1,000,000 Disease - Each Employee
7

8 **1-07.18(5)B Automobile Liability**
9 Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90
10 endorsement and a CA 9948 endorsement attached if "pollutants" are to be transported.
11 Such policy(ies) must provide the following minimum limit:
12 \$1,000,000 combined single limit
13

14 **1-07.18(5)C Workers' Compensation**
15 The Contractor shall comply with Workers' Compensation coverage as required by the
16 Industrial Insurance laws of the state of Washington.
17

18 19 **Public Convenience and Safety**

20 21 **Construction Under Traffic**

22
23 Section 1-07.23(1) is supplemented with the following:
24

25 (June 2006 City of Sammamish)
26 The Contractor shall be responsible for proper notification to and coordination with all
27 school districts, police and fire departments, U.S. mail, and all other persons or
28 agencies which provide public service types of business (refuse, etc.) which will be
29 affected by this project, and written notification shall be given at least one (1) week in
30 advance of construction. It shall be the Contractor's responsibility to keep the school
31 district and fire departments and others fully advised of his construction progress, any
32 required detours, and also the time of completion of the project.
33

34 **(January 2, 2012)** 35 **Work Zone Clear Zone**

36 The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours.
37 The WZCZ applies only to temporary roadside objects introduced by the Contractor's
38 operations and does not apply to preexisting conditions or permanent Work. Those
39 work operations that are actively in progress shall be in accordance with adopted and
40 approved Traffic Control Plans, and other contract requirements.
41

42 During nonworking hours equipment or materials shall not be within the WZCZ unless
43 they are protected by permanent guardrail or temporary concrete barrier. The use of
44 temporary concrete barrier shall be permitted only if the Engineer approves the
45 installation and location.
46

47 During actual hours of work, unless protected as described above, only materials
48 absolutely necessary to construction shall be within the WZCZ and only construction
49 vehicles absolutely necessary to construction shall be allowed within the WZCZ or
50 allowed to stop or park on the shoulder of the roadway.
51

1 The Contractor's nonessential vehicles and employees private vehicles shall not be
 2 permitted to park within the WZCZ at any time unless protected as described above.
 3
 4 Deviation from the above requirements shall not occur unless the Contractor has
 5 requested the deviation in writing and the Engineer has provided written approval.
 6
 7 Minimum WZCZ distances are measured from the edge of traveled way and will be
 8 determined as follows:
 9

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

* or 2-feet beyond the outside edge of sidewalk

10
11
12

13 **Minimum Work Zone Clear Zone Distance**

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

15 (*****)

16 ***Lane Closure Restrictions***

17
18
19

Lane closures are subject to the following restrictions:

20
21
22
23

Standard lane closure times are restricted to:
 9:00 am to 3:30 pm Monday through Friday
 9:00 am to 6:00 pm Saturday.

24
25
26
27

The Engineer will permit expansion of lane closure hours and one-way traffic when school is not in session or if the construction operations will not have an impact on school traffic. The expanded lane closure hours are:

28
29
30

7:00 am to 5:00 pm Monday through Friday
 9:00 am to 6:00 pm Saturday.

31
32
33

The Contractor shall request in writing the use of expanded lane closure hours and provide a description of the work being performed during the lane closure hours.

34
35
36
37

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours. No additional costs shall be incurred by the Contracting Agency for changes to lane closure time limits.

38
39
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41
42

No lane closures will be allowed on a holiday or holiday weekend, or after 12:00 PM (noon) on a day prior to a holiday or holiday weekend. Holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend.

1 **1-07.24 Rights of Way**
2 *(October 1, 2005 APWA GSP)*

3
4 Delete this section in its entirety, and replace it with the following:

5
6 Street right of way lines, limits of easements, and limits of construction permits are
7 indicated in the Plans. The Contractor's construction activities shall be confined within
8 these limits, unless arrangements for use of private property are made.

9
10 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way
11 and easements, both permanent and temporary, necessary for carrying out the work.
12 Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's
13 attention by a duly issued Addendum.

14
15 Whenever any of the work is accomplished on or through property other than public right
16 of way, the Contractor shall meet and fulfill all covenants and stipulations of any easement
17 agreement obtained by the Contracting Agency from the owner of the private property.
18 Copies of the easement agreements may be included in the Contract Provisions or made
19 available to the Contractor as soon as practical after they have been obtained by the
20 Engineer.

21
22 Whenever easements or rights of entry have not been acquired prior to advertising, these
23 areas are so noted in the Plans. The Contractor shall not proceed with any portion of the
24 work in areas where right of way, easements or rights of entry have not been acquired until
25 the Engineer certifies to the Contractor that the right of way or easement is available or
26 that the right of entry has been received. If the Contractor is delayed due to acts of
27 omission on the part of the Contracting Agency in obtaining easements, rights of entry or
28 right of way, the Contractor will be entitled to an extension of time. The Contractor agrees
29 that such delay shall not be a breach of contract.

30
31 Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
32 includes entry onto easements and private property where private improvements must be
33 adjusted.

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

48
49
50 **PROSECUTION AND PROGRESS**

51
52 Add the following new section:

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

Add the following new section:

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

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

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

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

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

Add the following new section:

1-08.0(2) Hours of Work
(March 8, 2013 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Contracting Agency, the normal straight time working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. of a working day with a maximum 1-hour lunch break and a 5-day work week. The normal straight time 8-hour working period for the Contract shall be established at the preconstruction conference or prior to the Contractor commencing the work.

Written permission from the Engineer is required, if a Contractor desires to perform work on holidays, Saturdays, or Sundays; before 7:00 a.m. or after 6:00 p.m. on any day; or longer than an 8-hour period on any day. The Contractor shall apply in writing to the Engineer for such permission, no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.

Permission to work between the hours of 10:00 p.m. and 7:00 a.m. during weekdays and between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to noise control requirements. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Contracting Agency's noise control regulations or complaints are received from the public or adjoining property owners regarding the noise from the Contractor's operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

- 1 Permission to work Saturdays, Sundays, holidays, or other than the agreed upon normal
2 straight time working hours Monday through Friday may be given subject to certain other
3 conditions set forth by the Contracting Agency or Engineer. These conditions may include
4 but are not limited to:
- 5 • The Engineer may require designated representatives to be present during the
6 work. Representatives who may be deemed necessary by the Engineer include,
7 but are not limited to: survey crews; personnel from the Contracting Agency's
8 material testing lab; inspectors; and other Contracting Agency employees when in
9 the opinion of the Engineer, such work necessitates their presence.
 - 10 • On non-Federal aid projects, requiring the Contractor to reimburse the Contracting
11 Agency for the costs in excess of straight-time costs for Contracting Agency
12 representatives who worked during such times.
 - 13 • Considering the work performed on Saturdays, Sundays, and holidays as working
14 days with regard to the contract time.
 - 15 • Considering multiple work shifts as multiple working days with respect to contract
16 time, even though the multiple shifts occur in a single 24-hour period.

17
18
19 **Subcontracting**

20
21 Revise the eighth paragraph of Section 1-08.1 to read:

22 (*****)
23
24 This project is funded with Contracting Agency funding only. Certification to the actual
25 amounts paid to Disadvantage, Minority, or Women's Business Enterprise firms is not
26 required.

27
28
29 **Progress Schedule**

30
31 ***General Requirements***

32
33 Supplement Section 1-08.3(1) with the following:

34 (*****)
35
36 The Progress Schedule shall show work activities grouped by Sites located on the Plan's
37 Vicinity Map.

38
39 **Time for Completion**

40
41 Section 1-08.5 is supplemented with the following:

42 (March 13, 1995)
43
44 This project shall be physically completed within *** 100 *** working days.

45
46
47 **1-08.9 Liquidated Damages**

48 *(August 14, 2013 APWA GSP)*

49
50 Revise the fourth paragraph to read:

51

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

13 **MEASUREMENT AND PAYMENT**

15 **1-09.6 Force Account**

16 *(October 10, 2008 APWA GSP)*
17

18 Supplement this section with the following:
19

20 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
21 all items to be paid per force account, only to provide a common proposal for Bidders. All
22 such dollar amounts are to become a part of Contractor's total bid. However, the
23 Contracting Agency does not warrant expressly or by implication, that the actual amount
24 of work will correspond with those estimates. Payment will be made on the basis of the
25 amount of work actually authorized by Engineer.
26
27

28 **1-09.9 Payments**

29 *(March 13, 2012 APWA GSP)*
30

31 Supplement this section with the following:
32

33 Lump sum item breakdowns are not required when the bid price for the lump sum item is
34 less than \$20,000.
35
36

37 **1-09.13 Claims Resolution**

38 **1-09.13(3) Claims \$250,000 or Less**

39 *(October 1, 2005 APWA GSP)*
40
41

42 Delete this Section and replace it with the following:
43

44 The Contractor and the Contracting Agency mutually agree that those claims that total
45 \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by
46 nonbinding ADR processes, shall be resolved through litigation unless the parties mutually
47 agree in writing to resolve the claim through binding arbitration.
48

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

2 (October 1, 2005 APWA GSP)

3

4 Revise the third paragraph to read:

5

6 The Contracting Agency and the Contractor mutually agree to be bound by the decision of
7 the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in
8 the Superior Court of the county in which the Contracting Agency's headquarters are
9 located. The decision of the arbitrator and the specific basis for the decision shall be in
10 writing. The arbitrator shall use the contract as a basis for decisions.

11

12

13 **TEMPORARY TRAFFIC CONTROL**

14

15 **Traffic Control Management**

16

17 **General**

18

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

20

21 (December 1, 2008)

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

25

26 The Northwest Laborers-Employers Training Trust
27 27055 Ohio Ave.
28 Kingston, WA 98346
29 (360) 297-3035

30

31 Evergreen Safety Council
32 401 Pontius Ave. N.
33 Seattle, WA 98109
34 1-800-521-0778 or
35 (206) 382-4090

36

37 The American Traffic Safety Services Association
38 15 Riverside Parkway, Suite 100
39 Fredericksburg, Virginia 22406-1022
40 Training Dept. Toll Free (877) 642-4637
41 Phone: (540) 368-1701

42

43 Replace the first and second paragraph in Section 1-10.2(2) with the following:

44

44 (*****)

45 The minimum lane widths through traffic control zones shall be ten feet with a minimum
46 shy distance of one foot to any pavement edge, shoulder obstruction, or traffic control
47 device.

48

49 **Traffic Control Plans**

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

51

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(*****)

The Contractor shall develop and submit traffic control plans for the various stages of Work. The plan(s) shall show a method of handling vehicle, bicycle and pedestrian traffic. All construction signs, flaggers, spotters and other traffic control devices required to perform the Work are to be shown on the traffic control plan(s) except for emergency situations. If flagging is to be performed during hours of darkness, the plan shall include appropriate illumination for the flagging station.

The traffic control plans shall conform to the established standards for plan development as shown in the MUTCD, Part 6 and WSDOT Standard Plans, and the most current edition of the PROWAG. The traffic control plans shall be provided to the Engineer for approval at least 10 calendar days in advance of the item the signs and other traffic control devices are scheduled to be installed and utilized. The Contractor shall be solely responsible for submitting proposed traffic control plans or modification, obtaining the Engineer’s approval and providing copies of the approved Traffic Control Plans to the Traffic Control Supervisor.

All roads shall remain open to local traffic during construction. Cul-de-sacs less than 400 feet in length may be temporarily closed during the paving process provided that proper advance notification is given to the local residences. All streets shall be open to traffic at the end of the work day.

On Street Parking Restrictions

(*****)

On streets where parking is normally allowed, the Contractor shall furnish and place “No Parking” signs where parking is to be prohibited. Sign spacing shall be a maximum of 200 ft apart with a minimum of three signs per block face. The signs shall be highly visible to motorists from all approaches to the area where parking is to be restricted. The signs shall be posted at least two full working days in advance of any construction activity and shall state the date and times when parking will be prohibited.

No Parking signs shall be removed or restriction dates and times on the signs shall be updated when No Parking signs are in place and no Work requiring parking restrictions is scheduled to be performed within the next five working days.

Traffic Control Labor, Procedures, and Devices

Section 1-10.3 is supplemented with the following:

(*****)

Force Account Uniformed Police Officer

When working in or near a signalized intersection, a police officer shall be stationed at the intersection to assist with traffic control. Contractor to coordinate with the King County Sherrif’s Office.

KCPOG
5701-6th Avenue S., Suite 491-B
Seattle, WA 98108

4 The following information is required by the KCPOG for scheduling an officer for
5 assistance with traffic control:
6

- 7 a. Number of officers needed
- 8 b. Date/times needed (include ending time)
- 9 c. Exact location/intersection
- 10 d. Employer/address
- 11 e. Contact person/number
- 12 f. Email or fax officer can send invoicing to
- 13 g. Any specific instructions for officer(s)

14 (*********)
15 **Public Noticing**
16

17 Contractor shall provide notice to property owners impacted by No Parking restrictions
18 and paving operations when “No Parking” signs are installed. Format and information on
19 Notice shall be approved by the Engineer prior to publication and delivery. At a minimum
20 the Notice shall provide a summary of schedule for major items of work requiring lane or
21 road closures. Noticing includes delivery of publication to each property owner and
22 maintaining general information of work and dates on signs located at limits of work.
23 Property owners shall be re-noticed with updated schedules when schedules are delayed
24 by more than five working days.
25

26 **Traffic Control Procedures**
27

28 **One-Way Traffic Control**
29

30 Section 1-10.3(2)A is supplemented with the following:
31

32 (*********)

33 The total delay for any vehicle due to alternating one way flagging operations shall be
34 15 minutes or less through the work area with a maximum of 2 separate flagging operations
35 at any given time through the work area in a Work Site.
36

37 **Measurement**
38

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

40 Section 1-10.4(2) is supplemented with the following:
41

42 (August 2, 2004)

43 The bid proposal does not contain the item “Other Temporary Traffic Control,” lump sum.
44 The provisions of Section 1-10.4(2) shall apply.
45

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

47 No specific unit of measure will apply to Force Account Uniform Police Officer.
48

1 (*****)
2 “Other Temporary Traffic Control Labor” is per hour. “Other Temporary Traffic Control
3 Labor” also includes measurement for each Laborer distributing the initial Public Noticing
4 and the initial placement and removal of signs for On Street Parking Restrictions; and
5 additional Public Noticing or removal and replacement of signs for On Street Parking
6 Restrictions when ordered by the Engineer. Hours will not be measured when additional
7 Public Noticing or removal and replacement of signs for On Street Parking Restrictions
8 are required due to changes in schedule caused by Contractors operations.

9
10 Portable Changeable Message Sign
11 (*****)

12
13 Change the measure of payment of “Portable Changeable Message Sign” from per hour
14 to per day.

15
16 **Payment**

17
18 Section 1-10.5 is supplemented with the following:

19 (*****)
20 “Force Account Uniformed Police Officer” by force account per Section 1-09.6. Markup
21 for these services provided will be per Subsection 6 of Section 1-09.6.

22
23 The KCPOG charges a cancellation fee if notice of schedule cancellation is not received
24 within 24 hours of the scheduled time. The cost is equivalent to four hours of the officer’s
25 time, approximately \$250. Cancellation fees incurred due to weather or Contracting
26 Agency actions occurring within the 24 hour cancellation period will be reimbursed to the
27 Contractor.

28
29
30 **DIVISION 2**
31 **EARTHWORK**

32
33 (*****)
34 **SITE PREPARATION**

35
36 **Description**

37
38 This Work consists of removing vegetation, debris and traffic items to prepare work sites
39 for paving.

40

1 **Materials**

2

3 Cationic Emulsified Asphalt (CSS-1)
4 Clean No. 4-0 Paving Sand

9-02.1(6)

5

6

7 **Construction Requirements**

8

9 A description of Work specific to each site is detailed on the plans. Work may include
10 some or all of the following items:

11

12 • Trim tree branches and remove all vegetation that interferes with other contract
13 work.

14 • Remove dirt and debris to expose the pavement edges along streets to be paved.

15 • Remove all existing permanent traffic control items from the existing pavement
16 surface.

17 • Clean the pavement surface to meet the requirements of Section 5-04.3(5) A.

18 • Removing extruded curb where specified.

19 • Haul away and dispose of all material removed.

20 • Crack seal longitudinal and transverse cracks and joints per Section 5-04.3(5)C.

21

22 Extruded curb shall not be removed more than two weeks before planing and paving work
23 is scheduled to begin within the specific site.

24

25 **Measurement**

26

27 Measurement will be lump sum for each site.

28

29 **Payment**

30

31 Payment will be made in accordance with Section 1-04.1, for each of the following Bid
32 items that are included in the Proposal:

33

34 "Site ____ Preparation" per lump sum.

35

36 The unit Contract price per each for "Site ____ Preparation" shall be full pay for all costs
37 necessary to complete the work.

38

DIVISION 4
BASES

BALLAST AND CRUSHED SURFACING

Materials

Section 4-04.2 is modified as follows:

(*****)

Permeable Ballast

“Permeable Ballast” shall meet the requirements of crushed surfacing top course in Section 9-03.9(3).

DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

SECTION 5-04, HOT MIX ASPHALT

(*****)

PAVING STRIP MEMBRANE

Description

This work shall consist of furnishing and placing an asphalt-coated paving fabric reinforced membrane over pavement cracks, joints and other pavement distress areas prior to the placement of a pavement overlay. The membrane shall be installed as indicated on the plans and contract documents.

Materials

Paving Strip Membrane

Property	Test Method	Units	Value ¹
Strip Tensile	ASTM D 882 ²	lb/in	50
Puncture Resistance	ASTM E 154	lb	200
Permeance	ASTM E 96 Method B	perms	.10(max)
Pliability	ASTM D 146 ³	n/a	No cracks in fabric or rubberized asphalt

Notes:

1. Minimum average roll values unless otherwise noted
2. Using 12 in/min test speed at 1” initial distance between grips
3. Using 180° bend on ¼” mandrel at -25°F

A Certification of Compliance for the membrane used on the project shall be furnished to the engineer. The fabric shall be furnished in suitable packaging for protection. Materials shall be stored and handled in accordance with the manufacturer’s recommendations.

Incidental materials recommended by the manufacturer for proper membrane installation, such as primer, tack coat, and mastic, shall be used in accordance with the manufacturer’s recommendations.

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Construction Requirements

Submittals

Submit manufacture’s installation guide a minimum of 14 calendar days in advance of placement.

Installation

Install membrane in accordance with the manufacturer’s recommendations and the following requirements.

Surface Preparation: Existing pavement surface must be reasonable clean and dry, and approved by the engineer. Fill cracks wider than 1/4-inch. Use primer on surface as recommended by membrane manufacturer.

Membrane Placement: Place membrane according to manufacturer installation guide.

Measurement

The pavement membrane will be measured in place by the square yard, without credit for overlaps.

Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal.

“Paving Strip Membrane”, per square yard.

Materials

Section 5-04.2 is supplemented with the following:

(January 3, 2011)
ESAL's

The number of ESAL’s for the design and acceptance of the HMA shall be *****<0.3***** million.

Construction Requirements

5-04.3(3)A Material Transfer Device / Vehicle
(January 16, 2014 APWA GSP)

The first paragraph of this section is revised to read:

Additionally, a material transfer device or vehicle (MTD/V) is not required at the following locations *****all locations*****.

Section 5-04.3 is supplemented with the following:

Utility Coordination

1 The Contractor shall notify Utility Districts a minimum of two working days and not more
2 than five working days before placement of a HMA overlay.
3
4 **Utility Locations**
5 The Contractor is responsible for recording the locations of all utility covers that will be
6 temporarily covered during the Work. During the paving process, the center of the cover
7 shall be marked by dimpling the un-compacted HMA or other approved methods.
8
9
10 **Pavement Repair**
11 Supplement Section 5-04.3(5)E with the following:
12
13 (*****)
14 **Coordination**
15 Some areas of pavement repair occur after planing of the HMA surface course. Pavement
16 repairs will be located prior to planning the surface.
17
18 (*****)
19 **Pavement Repair Additional Excavation and Backfill**
20 At any time, the Engineer may order excavation below Pavement Repair Excavation to
21 remove unsuitable materials. Excavate and backfill areas per Section 2-03.3(3) except
22 that replacement material shall be Crushed Surfacing Base Course.
23
24
25 **HMA Base Course**
26 (*****)
27 Excavate areas for HMA base course to the depths and grades detailed in the plans and
28 limits determined by the Engineer. The Contractor shall not remove more area than can
29 be completely resurfaced with HMA base course during the same shift. Sawcut or grind
30 the existing pavement edge where necessary to form a clean edge to pave against.
31 Excavation operations shall be performed in a manner that will protect the pavement that
32 is to remain. Excavated materials will become the property of the Contractor and shall be
33 disposed of in a Contractor-provided site off the Right of Way or used in accordance with
34 Section 2-02.3(3) or 9-03.21. Areas that are excavated below the depths established in
35 the Plans due to Contractors operations shall be backfilled with crushed surfacing per
36 Section 4-04 at the Contractors expense.
37
38 Prepare the subgrade as specified in Section 2-06. Compaction control tests may be
39 waived at the discretion of the Engineer or substituted with a proof roll. Equipment and
40 materials used for the proof roll shall be provided by the Contractor and approved by the
41 Engineer. At any time the Engineer may order excavation below Subgrade to remove soft
42 and uncompactible material. Backfill the excavated area per section 2-03.3(3).
43
44 HMA shall not be placed until the Engineer accepts the condition of the prepared
45 Subgrade. Asphalt for tack coat shall be applied to all surfaces of existing pavement edge
46 unless the existing pavement is scheduled to be removed. Placement of the HMA shall
47 be accomplished in lifts not to exceed 0.35-foot compacted depth. HMA pavers shall be
48 used for placement of the HMA. Equipment and methods used for placement and
49 compaction of HMA Base Course shall meet the requirements of Section 5-04.
50
51

1 **HMA Shoulder Base Course Excavation**
2 **(*****)**
3 Excavate areas for shoulder base course to the depths and grades detailed in the plans
4 and limits determined by the Engineer. Sawcut or grind the existing pavement edge
5 where necessary to form a clean edge to pave against. Excavation operations shall be
6 performed in a manner that will protect the pavement that is to remain. Excavated
7 materials will become the property of the Contractor and shall be disposed of in a
8 Contractor-provided site off the Right of Way or used in accordance with Section 2-02.3(3)
9 or 9-03.21. Abrupt changes in roadway left exposed to traffic during non-working hours
10 shall be maintained as described in Section 1-07.23(1).

11
12 Prepare the subgrade as specified in Section 2-06. Compaction control tests may be
13 waived at the discretion of the Engineer. Backfill and compact the excavated area per
14 Section 2-03.3(3). HMA shall not be placed until Engineer accepts the condition of the
15 prepared Subgrade.

16
17 **Wide Thickened Edge**
18 **(*****)**
19 Construct HMA thickened edges according to the plans and as directed by the Engineer.

20
21 **Speed Hump**
22 **(*****)**
23 Place and compact speed humps according to the Plans and as directed by the Engineer.
24 Prepare existing surface per Section 5-04.3(5)A. A template shall be used by the
25 Contractor to form the speed hump. Contractor is responsible for supplying the template.
26 The dimensions of the template shall be approved by the City prior to construction of the
27 speed hump.

28
29
30 **5-04.3(7) Preparation of Aggregates**

31
32 **5-04.3(7)A2 Statistical or Nonstatistical Evaluation**
33 Delete this section and replace it with the following:

34
35 **5-04.3(7)A2 Nonstatistical Evaluation**
36 *(January 16, 2014 APWA GSP)*

37
38 Mix designs for HMA accepted by Nonstatistical evaluation shall;
39

- 40 • Be submitted to the Project Engineer on WSDOT Form 350-042
- 41 • Have the aggregate structure and asphalt binder content determined in accordance
- 42 with WSDOT Standard Operating Procedure 732 and meet the requirements of
- 43 Sections 9-03.8(2) and 9-03.8(6).
- 44 • Have anti-strip requirements, if any, for the proposed mix design determined in
- 45 accordance with WSDOT Test Method T 718 or based on historic anti-strip and
- 46 aggregate source compatibility from WSDOT lab testing. Anti-strip evaluation of HMA
- 47 mix designs utilized that include RAP will be completed without the inclusion of the
- 48 RAP.

49 At or prior to the preconstruction meeting, the contractor shall provide one of the following mix
50 design verification certifications for Contracting Agency review;
51

- 1 • The proposed mix design indicated on a WSDOT mix design/anti-strip report that is
- 2 within one year of the approval date
- 3 • The proposed HMA mix design submittal (Form 350-042) with the seal and certification
- 4 (stamp & signature) of a valid licensed Washington State Professional Engineer.
- 5 • The proposed mix design by a qualified City or County laboratory mix design report
- 6 that is within one year of the approval date.
- 7

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

13
14 At the discretion of the Engineer, agencies may accept mix designs verified beyond the one
15 year verification period with a certification from the Contractor that the materials and sources
16 are the same as those shown on the original mix design.

17
18
19 **5-04.3(8) Mixing**

20
21 **5-04.3(8)A1 General**
22 *(January 16, 2014 APWA GSP)*

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

25
26 Acceptance of HMA shall be as defined under nonstatistical or commercial evaluation.

27
28 Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the
29 contract documents.

30
31 The mix design will be the initial JMF for the class of HMA. The Contractor may request a
32 change in the JMF. Any adjustments to the JMF will require the approval of the Project
33 Engineer and must be made in accordance with Section 9-03.8(7).

34
35 Commercial evaluation may be used for Commercial HMA and for other classes of HMA in

36 the following applications: *****HMA wide thickened edges, speed humps,*****
37 sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, and pavement
38 repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be
39 as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial
40 evaluation will be at the option of the Project Engineer. Commercial HMA can be accepted
41 by a contractor certificate of compliance letter stating the material meets the HMA
42 requirements defined in the contract.

43
44 **5-04.3(8)A4 Definition of Sampling Lot and Sublot**
45 *(January 16, 2014 APWA GSP)*

46
47 Section 5-04.3(8)A4 is supplemented with the following:

48
49 For HMA in a structural application, sampling and testing for total project quantities less than
50 400 tons is at the discretion of the engineer. For HMA used in a structural application and

- 1 with a total project quantity less than 800 tons but more than 400 tons, a minimum of one
2 acceptance test shall be performed:
- 3 i. If test results are found to be within specification requirements, additional
4 testing will be at the engineer's discretion.
 - 5 ii. If test results are found not to be within specification requirements, additional
6 testing as needed to determine a CPF shall be performed.

7
8 **5-04.3(8)A5 Test Results**
9 *(January 16, 2014 APWA GSP)*

10
11 The first paragraph of this section is deleted.

12
13 **5-04.3(8)A6 Test Methods**
14 *(January 16, 2014 APWA GSP)*

15
16 Delete this section and replace it with the following:

17
18 Testing of HMA for compliance of Va will be at the option of the Contracting Agency. If tested,
19 compliance of Va will be use WSDOT Standard Operating Procedure SOP 731. Testing for
20 compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308. Testing for
21 compliance of gradation will be by WAQTC FOP for AASHTO T 27/T 11.

22
23 **Joins**
24 Section 5-04.3(12) is supplemented with the following:

25
26 **(*****)**

27 **Feathered Joints**

28 Where called for on the Plans, the HMA overlay shall be feathered to produce a
29 smooth riding connection to the existing pavement.

30
31 HMA utilized in the construction of the feathered connections shall be modified by
32 eliminating the coarse aggregate from the mix at the Contractor's plant or the
33 commercial source or by raking the joint on the roadway, to the satisfaction of the
34 Engineer.

35
36 **(*****)**

37 **Joint Sealing**

38 The Contractor shall seal all joints placed against existing pavement and on
39 pavement cuts made for utility structure adjustments with joint sealant meeting the
40 requirements of Section 9-04.10.

41
42 **Longitudinal Joints**

43 Supplement section 5-04.3(12)B with the following:

44 **(*****)**

45 Notched wedge joints may be eliminated on streets with cul-de-sacs; and wearing
46 surfaces that are 1.5 inch thick or less.

47
48

1 **Planing Bituminous Pavement**

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

3 (*****)

4 Once planing has begun on a street, the street shall be resurfaced within 15 working
5 days for local roads and 10 working days for arterial roads.

7 (*****)

8 Where planing results in exposure of base material below the HMA pavement, the
9 exposed base shall be covered with HMA per section 5-04.3(5)E by the end of the
10 following work day shift. Work to repair pavement will be paid for using the Contract
11 item for "HMA for Pavement Repair CI__PG__".

13 (*****)

14 Edge plane in front of concrete driveways according to the plans and as directed by
15 the Engineer.

17 **Measurement**

18 Section 5-04.4 is supplemented with the following:

19 (*****)

20 Pavement repair additional excavation and backfill will be measured by the cubic
21 yard based on the dimensions of the excavated areas.

23 (*****)

24 Excavation for HMA shoulder base course and placement of HMA for shoulder base course
25 will be measured by the square yard based on the limits established by the Engineer prior
26 to excavation.

27 (*****)

28 Edge planing in front of concrete driveways will be measured by the linear foot.

29 (*****)

30 Speed Hump will be measured per each .

33 **Payment**

34 Supplement Section 5-04.5 with the following:

35 (*****)

37 "Pavement Repair Additional Excavation Incl. Haul and Backfill", per cubic yard.

38 "HMA Base Course Excavation, Incl. Haul", per square yard.

39 "HMA Base Course, CI __ PG __", per ton.

40 "HMA Shoulder Base Course Excavation Incl Haul", per square yard.

41 "HMA Shoulder Base Course CI __ PG __", per square yard.

42 "HMA Thickened Edge", per linear foot.

1 "HMA Wide Thickened Edge", per linear foot.
 2 "Driveway Edge Planing", per linear foot.
 3 "Speed Hump", per each.
 4
 5 The unit Contract price per cubic yard for "Pavement Repair Additional Excavation and
 6 Backfill" includes Haul.
 7
 8 The unit Contract price per square yard for "HMA Shoulder Base Course Excavation Incl
 9 Haul" shall be full compensation for all costs incurred to excavate and prepare the
 10 Subgrade for placement of the HMA base course. Work for any areas determined by the
 11 Engineer to require excavation and backfill below the Subgrade will be paid for by Force
 12 Account.

13
 14 **5-04.5(1) Quality Assurance Price Adjustments**

15
 16 **5-04.5(1)A Price Adjustments for Quality of HMA Mixture**
 17 *(March 10, 2010 APWA GSP)*
 18

19 Delete the first paragraph and table and replaced them with the following:

20
 21 Statistical analysis of quality of gradation and asphalt content will be performed based
 22 on Section 1-06.2 using the following price adjustment factors:
 23

24 **Table of Price Adjustment Factors**

25 Constituent	26 Factor "f"
27 All aggregate passing: 1 1/2", 1", 3/4", 1/2", 3/8" and No. 4 sieves	2
28 All aggregate passing No. 8	15
29 All aggregate passing No. 200 sieve	20
30 Asphalt binder	52

31
 32 Delete items 1-3 in Paragraph two and replaced with the following:

33
 34 A pay factor will be calculated for sieves listed in Section 9-03.8(7) for the class of HMA
 35 and for the asphalt binder.
 36

- 37 1. **Nonstatistical Evaluation.** Each lot of HMA produced under Nonstatistical
 38 Evaluation and having all constituents falling within the tolerance limits of the job
 39 mix formula shall be accepted at the unit contract price with no further evaluation.
 40 When one or more constituents fall outside the nonstatistical acceptance tolerance
 41 limits in Section 9-03.8(7), the lot shall be evaluated in accordance with Section 1-
 42 06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be
 43 used in the calculation of the CPF and the maximum CPF shall be 1.00. When
 44 less than three sublots exist, backup samples of the existing sublots or samples
 45 from the street shall be tested to provide a minimum of three sets of results for
 46 evaluation.
 47
 48 2. **Commercial Evaluation.** If sampled and tested, HMA produced under
 49 Commercial Evaluation and having all constituents falling within the tolerance limits
 50 of the job mix formula shall be accepted at the unit contract price with no further
 51 evaluation. When one or more constituents fall outside the commercial acceptance
 52 tolerance limits in Section 9-03.8(7), the lot shall be evaluated to determine the

1 appropriate CPF. The commercial tolerance limits will be used in the calculation of
2 the CPF and the maximum CPF shall be 1.00. When less than three sublots exist,
3 backup samples of the existing sublots or samples from the street shall be tested
4 to provide a minimum of three sets of results for evaluation.

5
6 For each lot of HMA produced under Nonstatistical or Commercial Evaluation when the
7 calculated CPF is less than 1.00, a Nonconforming Mix factor (NCMF) will be
8 determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by
9 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the product
10 of the NCMF, the quantity of HMA in the lot in tons, and the unit contract price per ton of
11 the mix.

12
13 If a constituent is not measured in accordance with these Specifications, its individual
14 pay factor will be considered 1.00 in calculating the composite pay factor.

15
16
17 **5-04.5(1)B Price Adjustments for Quality of HMA Compaction**
18 *(March 10, 2010 APWA GSP)*

19
20 Delete this section and replace it with the following:

21
22 The maximum CPF of a compaction lot is 1.00

23
24 For each compaction lot of HMA when the CPF is less than 1.00, a Nonconforming
25 Compaction Factor (NCCF) will be determined. THE NCCF equals the algebraic
26 difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price
27 Adjustment will be calculated as the product of the NCCF, the quantity of HMA in the lot
28 in tons and the unit contract price per ton of the mix.

29
30 ***(August 5, 2013)***
31 ***Asphalt Cost Price Adjustment***

32
33 The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a
34 payment, for qualifying changes in the reference cost of asphalt binder. The adjustment
35 will be applied to partial payments made according to Section 1-09.9 for the following bid
36 items when they are included in the proposal:

- 37
38 "HMA Cl. ___ PG ___"
39 "HMA for Approach Cl. ___ PG ___"
40 "HMA for Preleveling Cl. ___ PG ___"
41 "HMA for Pavement Repair Cl. ___ PG ___"
42 "Commercial HMA"

43
44 The adjustment is not a guarantee of full compensation for changes in the cost of asphalt
45 binder. The Contracting Agency does not guarantee that asphalt binder will be available
46 at the reference cost.

47
48 The Contracting Agency will establish the asphalt binder reference cost twice each month
49 and post the information on the Agency website at:

50
51 <http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm>

1 The reference cost will be determined using posted prices furnished by Poten & Partners,
2 Inc. If the selected price source ceases to be available for any reason, then the
3 Contracting Agency will select a substitute price source to establish the reference cost.
4

5 The base cost established for this contract is the reference cost posted on the Agency
6 website for the period immediately preceding the bid opening date.
7

8 Adjustments will be based on the most current reference cost for Western Washington or
9 Eastern Washington as posted on the Agency website, depending on where the work is
10 performed. For work completed after all authorized working days are used, the adjustment
11 will be based on the posted reference cost during which contract time was exhausted. The
12 adjustment will be calculated as follows:
13

14 No adjustment will be made if the reference cost is within 5% of the base cost.
15

16 If the reference cost is greater than or equal to 105% of the base cost, then
17 $\text{Adjustment} = (\text{Current Reference Cost} - (1.05 \times \text{Base Cost})) \times (Q \times 0.056)$.
18

19 If the reference cost is less than or equal to 95% of the base cost, then
20 $\text{Adjustment} = (\text{Current Reference Cost} - (0.95 \times \text{Base Cost})) \times (Q \times 0.056)$.
21

22 Where Q = total tons of all classes of HMA paid in the current month's progress payment.
23

24 "Asphalt Cost Price Adjustment", by calculation.
25

26 "Asphalt Cost Price Adjustment" will be calculated and paid for as described in this section.
27 For the purpose of providing a common proposal for all bidders, the Contracting Agency
28 has entered an amount in the proposal to become a part of the total bid by the Contractor.
29

30 **DIVISION 7**
31 **DRAINAGE STRUCTURES, STORM SEWERS, SANITARY**
32 **SEWERS, WATER MAINS, AND CONDUITS**
33

34 **(*****)**
35 **NORTHEAST SAMMAMISH SEWER AND WATER DISTRICT UTILITIES**
36

37 **Description**
38

39 This Work consists of temporarily lowering manholes, valve boxes and meter boxes owned
40 by Northeast Sammamish Sewer and Water District (NESSWD) that interfere with
41 construction; and adjusting the manholes, valve boxes and meter boxes manholes to final
42 grade; and restoring the areas disturbed by the adjustments in accordance with the Plans,
43 these Specifications and the Standard Plans.
44

1 **Materials**

2

3 Per Section 7-05.2

4

5 **Construction Requirements**

6

7 Replace metal frames and lids where called for on the Plans or as directed by the Engineer.
8 The old frames and lids that have been replaced will become the property of the Contractor
9 and shall be removed from the project. New frames and lids will be provided by the utility
10 owner.

11

12 Prior to paving, the utilities shall be marked with a Utility Adjustment Marker and/or an
13 offset survey stake. The casting shall be raised to finished grade within seven (7) working
14 days after the HMA top lift has been placed unless otherwise approved in writing by the
15 Engineer. The Contractor shall notify NESSWD before raising any casting, and again
16 when the Work is complete and ready for approval. The Contractor shall notify the Utility
17 of any existing casting that is damaged. Any casting damaged by the Contractor shall be
18 immediately replaced in kind by the Contractor at no cost to the Utility or the City.

19

20 Where shown in the Plans or where directed by the Engineer, the existing manholes shall
21 be adjusted flush with the final pavement grade or as otherwise designated by the
22 Engineer.

23

24 The existing cast iron ring and cover on manholes shall first be removed and thoroughly
25 cleaned for reinstalling at the new elevation. From that point the existing Structure shall
26 be raised or lowered to the required elevation.

27

28 **Measurement**

29

30 Adjustment of manholes, valve boxes and meter boxes will be per each.

31

32 **Payment**

33

34 Payment will be made in accordance with Section 1-04.1, for each of the following Bid
35 items that are included in the Proposal:

36

- 37 "Adjust Manhole - NESSWD" per each
- 38 "Adjust Valve Box - NESSWD" per each
- 39 "Adjust Meter Box - NESSWD" per each

40

41 The unit Contract price per each for "Adjust Manhole - NESSWD", "Adjust Valve Box -
42 NESSWD", and "Adjust Meter Box - NESSWD" shall be full pay for all costs necessary to
43 make the adjustments to manholes including restoration of adjacent areas in a manner
44 acceptable to the Engineer.

45

46

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

1 **SAMMAMISH PLATEAU WATER AND SEWER DISTRICT MANHOLES**

2
3 **Description**

4
5 This Work also consists of temporarily lowering Sammamish Plateau Water and Sewer
6 District (SPWSD) manholes; adjusting manholes to final grade; and restoring the areas
7 disturbed by the adjustments in accordance with the Plans, these Specifications and the
8 Standard Plans.
9

10 **Materials**

11
12 Per section 7-05.2
13

14 **Construction Requirements**

15
16 Where shown in the Plans, encountered during paving operations, or where directed by
17 the Engineers, existing manholes shall be adjusted to grade.
18

19 When there will be a change in final grade or in the road section, existing sanitary sewer
20 manhole cast iron frames and covers (“casting”) shall be raised to match finish grade only
21 after installation of the final HMA top course. The materials and method of construction
22 shall conform to the requirements specified below, and the finished Structure shall conform
23 to the requirements of the *SPWSD Manhole Pavement Patch Detail for Paved Areas* and
24 the associated General Notes. The use of “pavers” or any other adjusting ring that sits on
25 top of the existing casting shall not be permitted.
26

27 When it is necessary to temporarily lower the manhole, the manhole frames shall be
28 removed in a manner that does not allow debris to fall into the structure. The manhole
29 frames and lids shall be stored by the Contractor in a safe manner that will not cause
30 damage. The manhole access hole shall be temporarily covered with a steel plate. The
31 void above the plate shall be backfilled flush with the surrounding ground surface. Hot or
32 cold mix HMA shall be used for backfill within four inches of the surface when the manhole
33 is located in a paved roadway.
34

35 Prior to paving, the casting shall be marked with a Utility Adjustment Marker and/or an
36 offset survey stake. The casting shall be raised to finished grade within seven (7) working
37 days after the HMA top lift has been placed unless otherwise approved in writing by the
38 Engineer. The Contractor shall notify SPWSD before raising any casting, and again when
39 the Work is complete and ready for approval. The Contractor shall warranty the adjustment
40 area free from leaks for one-year. The Contractor shall notify the Utility of any existing
41 casting that is damaged. Any casting damaged by the Contractor shall be immediately
42 replaced in kind by the Contractor at no cost to the Utility or the City.
43

44 To raise the existing cast iron ring and cover to grade, the Contractor shall locate the
45 casting using a metal detector, and if there is any question on the general location SPWSD
46 shall be contacted before any pavement removal begins. The existing asphalt surrounding
47 the casting shall be neatly removed in a maximum 6-foot diameter circle that is centered
48 on the casting, and to a minimum depth of 12-inches, or as needed to expose the existing
49 adjustment rings, whichever is greater.
50

1 As soon as the manhole cover is accessible, the Contractor shall install channel boards in
2 the bottom of the manhole to prevent debris from fouling the sanitary pipeline. Channel
3 boards shall be made to fit in the base of the manhole and completely cover the manhole
4 channel. The Contractor is hereby informed that entering a sanitary sewer manhole could
5 be hazardous. The Contractor shall carefully instruct all personnel working in potentially
6 hazardous work areas as to potential dangers and shall provide such necessary safety
7 equipment and instruction as are necessary or required by law to prevent injury to
8 personnel and damage to property.
9

10 The existing cast iron ring and cover shall first be removed and thoroughly cleaned before
11 reinstalling at the new elevation. Any existing adjustment bricks shall be removed and
12 disposed of offsite. The Contractor shall install adjustment rings, and tilting the frame as
13 necessary to match the existing final grade. New adjustment bricks recessed for grouting,
14 can be utilized. Grout shall be installed between the adjustment rings as they are installed,
15 and on the outside of the manhole neck. The interior surface of the manhole neck shall
16 only be grouted after installation of the final HMA patch. Grout the casting in place. All
17 grout shall meet the nonshrink requirements of Section 9-20.3(2), except for the testing
18 requirements of Section 9-20.3, unless required in writing by SPWSD.
19

20 Backfill around the structure with crushed surfacing top course (CSTC) compacted to 95%
21 modified proctor. Install 1/2" HMA in 2-inch lifts, to a compacted depth equal to the existing
22 pavement or a minimum of 4-inches, whichever is greater. Apply tack to all edges and
23 seal the finished joints with tar and sand. The final HMA patch shall meet the surface
24 smoothness requirements of Section 5-04.3(13). Failure to meet these requirements, or
25 if the casting is lower than the final grade, the entire patch shall be removed and
26 reinstalled.
27

28 After installation of the HMA patch, the manhole's interior neck shall be grouted, all debris
29 cleaned from the bottom of the manhole, and the channel boards removed. The grout
30 shall not be run onto the cast iron ring. "Jetset" shall not be allowed for any grouting.
31

32 **Measurement**

33
34 Adjustment of manholes will be per each.
35

36 **Payment**

37
38 Payment will be made in accordance with Section 1-04.1, for each of the following Bid
39 items that are included in the Proposal:
40

41 "Adjust Manhole - SPWSD" per each
42

43 The unit Contract price per each for "Adjust SPWSD Manhole" shall be full pay for all costs
44 necessary to make the adjustments to manholes including restoration of adjacent areas in
45 a manner acceptable to the Engineer.
46

47
48 **(*****)**

49 **SAMMAMISH PLATEAU WATER AND SEWER DISTRICT WATER VALVES**

50 **Description**
51

1 This Work also consists of temporarily lowering valve boxes or clean-out castings that
2 interfere with construction; adjusting valve boxes and clean-out castings to grade; and
3 restoring the areas disturbed by the adjustments.
4

5 **Construction Requirements**

6 ***Adjusting Valve Box Castings or Clean-out Castings to Grade***

7
8
9 When there will be a change in final grade or in the road section, the existing valve box or
10 clean-out casting (“casting”) shall be raised to match finish grade only after installation of
11 the final HMA top course. The materials and method of construction shall conform to the
12 requirements specified below, and the requirements of the Valve Box Pavement Patch
13 Detail for Paved Areas. The use of “pavers”, slip cans, or any other adjusting ring that sits
14 on top of the existing casting shall not be permitted.
15

16 When it is necessary to temporarily lower the valve box or clean-out, the top section of the
17 valve box shall be removed in a manner that does not allow debris to fall into the lower
18 section of the valve box. The casting and lids shall be stored by the Contractor in a safe
19 manner that will not cause damage. The bottom section shall be temporarily covered with
20 a steel plate. The void above the plate shall be backfilled flush with the surrounding ground
21 surface. Hot or cold mix HMA shall be used for backfill within four inches of the surface
22 when the valve is located in a paved roadway.
23

24 Prior to paving, the casting shall be marked with a Utility Adjustment Marker and/or an
25 offset survey stake. The casting shall be raised to finished grade within seven (7) working
26 days after the HMA top lift has been placed unless otherwise approved in writing by the
27 Engineer. The Contractor shall notify the SPWSD before raising any casting, and again
28 when the Work is complete and ready for approval. The Contractor shall notify the SPWSD
29 of any existing casting that is damaged. Any casting damaged by the Contractor shall be
30 immediately replaced in kind by the Contractor at no cost to the SPWSD or the City.
31

32 To raise the existing valve box casting to grade, the Contractor shall locate the casting
33 using a metal detector, and if there is any question on the general location the SPWSD
34 shall be contacted before any pavement removal begins. The existing asphalt surrounding
35 the casting shall be neatly removed in a maximum 3-foot diameter circle that is centered
36 on the casting. Excavate to a depth necessary to raise the casting and verify that the
37 casting overlaps the soil pipe by 3-inches. If additional height is needed to obtain the
38 required overlap, install a short spool of soil pipe. The pipe and valve box top shall be
39 centered over the valve nut. If the distance between finish grade and the top of the valve
40 nut is greater than 36-inches, the SPWSD shall be notified so that an operating nut
41 extension can be provided to the Contractor for installation as part of the adjustment.
42

43 Backfill around the casting with crushed surfacing top course (CSTC) compacted to 95%
44 modified proctor. Install ½” HMA in 2-inch lifts, to a compacted depth equal to the existing
45 pavement or a minimum of 4-inches, whichever is greater. Apply tack to all edges and
46 seal the finished joints with tar and sand. The final HMA patch shall meet the surface
47 smoothness requirements of Section 5-04.3(13). Failure to meet these requirements, or
48 if the casting is lower than the final grade, the entire patch shall be removed and
49 reinstalled.
50

51 ***Adjusting Meter Boxes to Grade***

52

1 When there will be a change in final grade, the road section, or the roadway shoulder,
2 existing concrete or plastic valve boxes (“meter boxes”) shall be raised to match finish
3 grade only after installation of the final HMA top course. The materials and method of
4 construction shall conform to the requirements specified below.

5
6 Prior to paving, the meter box shall be marked with a Utility Adjustment Marker and/or an
7 offset survey stake. If an existing plastic meter box will be within the final HMA paved
8 portion of the roadway, the SPWSD shall be notified prior to paving to allow the SPWSD
9 the opportunity to replace it with a concrete box. The meter box shall be raised to finished
10 graded within seven (7) working days after the HMA top lift has been placed unless
11 otherwise approved in writing by the Engineer. The Contractor shall notify the SPWSD
12 before raising any meter box, and again when the Work is complete and ready for
13 approval. The Contractor shall notify the SPWSD of any existing meter box that is
14 damaged. Any meter box damaged by the Contractor shall be immediately replaced in
15 kind by the Contractor at no cost to the SPWSD or the City.

16
17 To raise the existing meter box to grade, the Contractor shall locate the box, and if there
18 is any question on the general location the SPWSD shall be contacted before any
19 pavement removal begins. The existing asphalt surrounding the valve box shall be neatly
20 removed. Pavement removal shall be centered on the box and shall not extend more than
21 12-inches from the edge of the box. Excavate to a depth necessary to remove the entire
22 box. Install crushed surfacing top course (CSTC) compacted to 95% modified proctor as
23 needed to raise the finish grade of the meter box. The meter box shall than be reinstall
24 tilting the box as necessary to match the existing final grade.

25
26 Backfill around the meter box with CSTC compacted to 95% modified proctor. Install ½”
27 HMA in 2-inch lifts, to a compacted depth equal to the existing pavement or a minimum of
28 4-inches, whichever is greater. Apply tack to all edges and seal the finished joints with tar
29 and sand. The final HMA patch shall meet the surface smoothness requirements of
30 Section 5-04.3(13). Failure to meet these requirements, or if the box is lower than the final
31 grade, the entire patch shall be removed and reinstalled.

32
33 **Measurement**

34
35 Adjustment of valve casting, clean-out casting and meter boxes will be per each.

36
37 **Payment**

38
39 Payment will be made in accordance with Section 1-04.1, for each of the following Bid
40 Items that are included in the Proposal.

- 41
42 “Adjust Valve Box - SPWSD” per each
43 “Adjust Meter Box - SPWSD” per each

44
45 The unit Contract price per each for “Adjust SPWSD Valve Box” and “Adjust SPWSD Meter
46 Box” shall be full pay for all costs necessary to make the adjustments to valve boxes and
47 meter boxes including restoration of adjacent areas in a manner acceptable to the
48 Engineer.

49
50 ***Adjusting Manholes and Catch Basins to Grade***

51
52 Section 7-05.3(1) is supplemented with the following:

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(*****)

Where called for on the plans, or where the height of the valve box will prevent paving to a consistent line and grade, the existing manholes, catch basins, and inlets shall be lowered prior to planing or pavement removal, and adjusted to the finished grade after the HMA overlay is complete.

Manholes, catch basins, and inlets shall be lowered sufficiently to allow the planer or paver to maintain a continuous profile and grade.

Manholes, catch basins and inlets to be temporarily lowered shall have their frames and grates marked as identifiable pairs. Structures with covers removed for temporarily lowering shall be covered with a steel plate. Rings and covers temporarily removed shall be stored by the Contractor in a safe place on the project site.

Debris from lowering and adjusting of the manholes, catch basins and inlets shall be removed from the project.

Contractor shall provide a visible reference to the location of each manhole, catch basin, and inlet to be temporarily lowered.

(*****)

Where shown in the Plans or where directed by the Engineer, manhole or catch basin adjusting rings shall be completely reconstructed during adjustment.

Measurement

Section 7-05.4 is supplemented with the following.

(*****)

Adjusting manholes, catch basins, or inlets and reconstructing adjusting rings will be measured per each unit adjusted to finish grade. No measurement will be made to temporarily lower manholes, catch basins, and inlets. No additional measurement will be made for adjusting structures that have reconstructed adjusting rings.

Payment

Section 7-05.5 is supplemented with the following:

(*****)

“Reconstructing Adjusting Rings”, per each

The unit contract price per each for “Adjust ____ Manhole”, “Adjust Catch Basin”, and “Adjust Inlet”, shall be full pay for all costs necessary to make the adjustment including temporary lowering and final adjustments, locating, backfilling and restoration of adjacent areas in a manner acceptable to the Project Engineer.

VALVES FOR WATER MAINS

Construction Requirements

Section 7-12.3 is supplemented with the following:

1 (*****)

2

3

Where called for on the plans, or where the height of the valve box will prevent paving to a consistent line and grade, the existing valve boxes shall be lowered prior to planing and adjusted to the finished grade after the asphalt overlay is complete.

6

7

Valve boxes shall be lowered sufficiently to allow the planer or paver to maintain a continuous profile and grade.

9

10

Debris from lowering and adjusting of the manholes, catch basins and inlets shall be removed from the project.

11

12

13

Contractor shall provide a visible reference to the location of each valve box to be temporarily lowered.

14

15

16

Measurement

17

18

Section 7-12.4 is supplemented with the following:

19

(*****)

20

21

No measurement will be made to temporarily lower valve boxes.

22

23

Payment

24

25

Section 7-12.5 is supplemented with the following:

26

(*****)

27

28

The unit contract price per each for "Adjust ____ Valve Box" shall be full pay for all costs necessary to make the adjustment including temporary lowering and final adjustments, locating, backfilling and restoration of adjacent areas in a manner acceptable to the Project Engineer.

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DIVISION 8

35

MISCELLANEOUS CONSTRUCTION

36

37

(*****)

38

CUL-DE-SAC ISLAND RESTORATION

39

40

Description

41

This work consists of furnishing and placing materials to restore areas in cul-de-sac islands disturbed by the curb replacement process.

42

43

44

Materials

45

Soil – topsoil shall be obtained from local landscape company. Submit copy of invoice or receipt describing the topsoil for material acceptance.

46

47

48

Mulch – wood bark mulch of color and texture closely matching the existing mulch in the cul-de-sac island. Submit copy of invoice or receipt describing the mulch for material acceptance. Mulch salvaged from the cul-de-sac island may be used in-lieu-of new mulch.

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Construction Requirements

Backfill topsoil behind curb, tamp and rake to form a firm smooth surface. Place mulch to blend with existing and fully cover the topsoil.

Measurement

Cul-de-sac island restoration will be measured per each island restored.

Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal.

“Cul-de-sac Island Restoration”, per each.

IRRIGATION SYSTEMS

Construction Requirements

Section 8-03.3 is supplemented with the following:

(*****)

Maintain Irrigation System

The Contractor shall notify the Engineer of locations where irrigations systems are found to be in conflict with new sidewalks. The Contractor shall not remove any irrigation system unless authorized in writing by the Engineer.

When authorized Contractor shall remove, salvage and reinstall irrigation systems and adjust sprinkler heads in conflict with new sidewalk construction. The system shall not be out of service for more than one workshift.

The re-installed portions of the irrigation system shall be checked for leaks before it is covered. The area disturbed by relocating the irrigation system shall be restored to match the adjacent area. Materials shall match existing materials.

(*****)

Measurement

Section 8-03.4 is supplemented with the following:

Measurement for maintaining irrigation systems will be per foot at location authorized in writing by the Engineer. Irrigation systems damaged by Contractor’s work will be repaired at Contractor’s expense.

(*****)

Payment

Section 8-03.5 is supplemented with the following:

1 "Maintain Irrigation", per linear feet

2 The Unit contract price for "Maintain Irrigation" shall be full compensation for all Work and
3 materials required to salvage and reinstall the irrigation system and to restore the area
4 disturbed by the Contractor operations. Work to move, adjust, or replace sprinkler heads is
5 considered incidental to other Items.

6

7 **CURBS GUTTERS AND SPILLWAYS**

8

9

10 **Description**

11 Section 8-04.1 is supplemented with the following:

12

13 (*****)

14 This work also involves removing and disposing of existing concrete curb, and curb and
15 gutter, and pavement according to the Plans and as designated by the Engineer.

16

17 **Construction Requirements**

18 Section 8-04.3(1), paragraph 1 is supplemented with the following:

19 (*****)

20 Mountable cement concrete curb and gutter shall be constructed with air entrained
21 concrete Class 4000 conforming to the requirements of Section 6-02.

22

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

24

25 (*****)

26 ***Curb and Gutter Repair***

27

28 Make a vertical full depth saw cut between any existing pavement, sidewalk, curb or
29 gutter that is to remain and the portion of curb and gutter to be removed. Pavement
30 along curb and gutter in areas of streets that will be resurfaced as part of the project
31 can be removed by jackhammer, and the amount of pavement removed can be
32 reduced to an area necessary to allow proper placement of the forms.

33

34 Excavate the existing curb and gutter marked for removal and underlying material to
35 a depth that will allow placement of the crushed surfacing base and installation and
36 bracing of the forms. All excavated material will become the property of the
37 Contractor and shall be disposed of in a Contractor-provided site off the Right of Way.

38

39 The foundation shall be shaped and compacted to a firm even surface conforming to
40 the section shown in the Plans. All soft and yielding material shall be removed and
41 replaced with acceptable material. Crushed Surfacing Top Course shall be placed
42 and compacted on the prepared subgrade. Tree roots within the limits of excavation
43 shall be neatly cut at the edge of the excavated area and removed, preventing any
44 grinding or pulverization of roots. Tree roots outside the limits of excavation shall not
45 be disturbed

46

1 The new curb and gutter shall be formed to match the line and grade of the adjacent
2 remaining curb or as directed by the Engineer. Forms shall be inspected by the
3 Engineer once they are installed and prior to placement of concrete. Formed curb
4 and gutter dimensions that deviate by more than 1/4 inch from plan dimensions for
5 shape will be removed and replaced at no expense to the Contracting Agency.
6 Formed curb and gutter with depressions or humps greater than 1/4 inch in 10 ft, or
7 that pond water greater than 1/8 inch deep will be replaced at no expense to the
8 Contracting Agency.

9
10 Restore area behind the curb using materials, vegetation and mulch approved by the
11 Engineer to match the existing conditions. Additional restoration may be ordered by
12 the Engineer. After concrete curb has cured, fill the gap in pavement between the
13 face of curb and the saw cut boundaries with HMA CI 1/2 IN. PG 64-22. HMA is to
14 be placed in accordance to 5-04.3(5)E.

15
16 Section 8-04.3(1) Delete the first sentence of the fourth paragraph and replace with the
17 following:

18 (*****)
19 Expansion joints in the curb or curb and gutter shall be spaced to match the existing joints
20 intervals, the beginning and ends of curb returns, drainage structures, bridges, and cold
21 joints with existing curbs and gutters.

22 **Measurement**

23 Section 8-04.4 is supplemented with the following:

24 (*****)
25 Cement concrete traffic curb and gutter repair will be measured by the linear foot along
26 the curb centerline.

27 **Payment**

28 Section 8-04.5 is supplemented with the following:

29 (*****)
30 "Remove and Replace Cement Concrete Traffic Curb and Gutter", per linear foot.

31
32 The unit Contract price per linear foot for "Remove and Replace Cement Concrete Traffic
33 Curb and Gutter", shall be full pay for all labor, equipment, and material to perform the
34 work as specified, whether rolled curb or vertical curb and gutter. Curb and gutter that is
35 replaced as part of sidewalk curb ramp alterations will be paid for as part of "Cement
36 Concrete Curb Ramp Alteration". Additional restoration ordered by the Engineer will be
37 paid for separately.

38 **MONUMENT CASES**

39 **Description**

40 Section 8-13.1 is supplemented with the following:

41 (*****)
42 This work consists of adjusting monument cases or furnishing and installing riser rings
43 between case and cover per Plans.
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Construction Requirements

Section 8-13.2 is supplemented with the following:

(*****)

Adjusting Monument Cases

Riser rings may be installed on residential streets only. Monument cases shall be adjusted on all arterial roadways. See Public Works Standards Section 15.050 for a complete list of arterial roadways.

The monument case and cover shall be adjusted either by removing and resetting the case after the paving operation is complete, or by installing riser rings between the case and cover. The contractor shall be responsible for referencing the location of the monument case and cover for locating after paving is complete. The case and cover shall be cleaned prior to being reset. The adjusted elevation of the cover shall be ¼ inch to ½ inch below the level of the finished pavement.

If riser rings are used, it is the Contractor’s responsibility to verify the diameter of the existing monument case prior to installation.

The Contractor shall use care to avoid disturbing the monument inside the monument case. Monuments damaged or disturbed by Contractor’s operations shall be repaired and re-established by a Licensed Land Surveyor at no cost to the Contracting Agency.

Measurement

Section 8-13.4 is supplemented with the following:

(*****)

Adjust monument case and cover will be measured per each for raising the monument case and cover.

Payment

Section 8-13.5 is supplemented with the following:

(*****)

“Adjust Monument Case and Cover”, per each.

CEMENT CONCRETE SIDEWALKS

Description

Section 8-14.1 is supplemented with the following:

(*****)

This work also involves removing and disposing of existing sidewalks, curb and gutter at sidewalk ramps, and pavement and replacing with new material in locations according to the Plans and as designated by the Engineer.

Construction Requirements

Section 8-14.3 Delete the first paragraph and replace it with the following:

1 (*****)
2 The concrete in sidewalks next to mountable curb, curb ramps, and sidewalks along the
3 full width of driveway openings shall be constructed with air entrained concrete Class
4 4000 conforming to the requirements of Section 6-02. All other sidewalks may be air
5 entrained concrete Class 3000 conforming to the requirement of Section 6-02.
6

7 (*****)
8 ***Preconstruction Meeting***

9 The Contractor shall request a pre-meeting with the Engineer to be held 2 to 5
10 working days before any work can start within each Work Site on cement
11 concrete sidewalk, curb ramps or other pedestrian routes to discuss construction
12 requirements. Those attending shall include:
13

- 14 1. The Prime Contractor and Subcontractor in charge of constructing forms,
15 and placing and finishing the cement concrete.
16
- 17 2. Project Engineer (or representative) and Project Inspectors for the cement
18 concrete sidewalk, curb ramp or pedestrian access route Work.
19

20 Items to be discussed in this meeting shall include, at a minimum the following:
21

- 22 1. Slope grading
23
- 24 2. Inspection
25
- 26 3. Traffic Control
27
- 28 4. Pedestrian control, access routes and delineation
29
- 30 5. Accommodating utilities
31
- 32 6. Form work
33
- 34 7. Installation of detectable warning surfaces
35

36 (*****)
37 ***Timing Restrictions***

38 The construction of each cement concrete sidewalk ramp shall be completed
39 and opened to pedestrian traffic within 5 calendar days unless otherwise
40 approved by the Engineer. The 5 calendar day time restriction begins when the
41 existing ramp is blocked or being removed and ends when the new ramp is fully
42 functional for ADA access.
43

44 Within an intersection, one cement sidewalk ramp shall be constructed at a time
45 and be fully functional for pedestrian traffic before construction can begin on
46 another ramp.
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Layout and Conformance to Grades

The Contractor shall ensure the lines and grades of the finished product meet the requirements shown in the Plans and Standard Plans. The Contractor shall coordinate with the Engineer to locate the center of the new curb ramp prior to beginning removal of the existing cement concrete. The Contractor shall layout, grade, and form each new curb ramp, sidewalk, and curb and gutter. The Engineer may spot-check the lines and grade of each feature prior to an after each concrete pour to verify initial compliance. Once the forms have been removed, the Engineer will check the lines and grades of each feature for final compliance. Work that is out of compliance with the lines and grades provided in the Plans and Standard Plans will be rejected in accordance with Section 1-05.7.

Sidewalk Repair and Alteration

Section 8-14.3(1) Delete this paragraph and replace it with the following:

(*****)

Make a vertical full depth saw cut between any existing pavement, sidewalk, curb or gutter that is to remain and the portion of curb, gutter and sidewalk to be removed. Pavement along curb and gutter in areas of streets that will be resurfaced as part of the project can be removed by jackhammer, and the amount of pavement removed can be reduced to an area necessary to allow proper placement of the forms.

Excavate the existing curb and gutter marked for removal and underlying material to a depth that will allow placement of the crushed surfacing base and installation and bracing of the forms. All excavated material will become the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way.

The foundation shall be shaped and compacted to a firm even surface conforming to the section shown in the Plans. All soft and yielding material shall be removed and replaced with acceptable material. Crushed Surfacing Top Course shall be placed and compacted on the prepared subgrade. Tree roots within the limits of excavation shall be neatly cut at the edge of the excavated area and removed, preventing any grinding or pulverization of roots. Tree roots outside the limits of excavation shall not be disturbed.

The new sidewalk shall be formed to match the line and grade of the adjacent remaining curb or as directed by the Engineer. Forms shall be inspected by the Engineer once they are installed and prior to placement of concrete. Formed curb and gutter dimensions that deviate by more than 1/4 inch from plan dimensions for shape will be removed and replaced at no expense to the Contracting Agency. Formed curb and gutter with depressions or humps greater than 1/4 inch in 10 ft, or that pond water greater than 1/8 inch deep will be replaced at no expense to the Contracting Agency.

Restore area behind the sidewalk using materials, vegetation and mulch approved by the Engineer to match the existing conditions. Additional restoration may be ordered by the Engineer. After concrete curb has cured, fill the gap in pavement between the face of curb and the saw cut boundaries with HMA CI 1/2 IN. PG 64-22. HMA is to be placed in accordance to 5-04.3(5)E.

1 **Measurement**

2 Section 8-14.4 is supplemented with the following:

3 (*****)

4 Cement concrete sidewalk repair will be measured by the square yard

5
6 Cement concrete curb ramp alteration will be measured by the square yard. Sidewalk
7 adjacent to a curb ramp that is replaced as part of the curb ramp construction and sidewalk
8 that replaces old curb ramp locations is included in the measurement for cement concrete curb
9 ramp alteration.

10
11 **Payment**

12 Section 8-14.5 is supplemented with the following:

13 (*****)

14 "Remove and Replace Cement Concrete Sidewalk", per linear foot.

15 "ADA Parallel Ramp Alteration", per linear foot.

16
17 The unit Contract price per linear foot for "Remove and Replace Cement Concrete
18 Sidewalk" shall be full pay for all labor, equipment, and material to perform the work as
19 specified, including excavation to the depth of replacement material, haul and disposal of
20 all materials. Additional restoration ordered by the Engineer will be paid for separately.

21
22 The unit Contract price per linear foot for "ADA Parallel Ramp Alteration" shall be full pay
23 for all labor, equipment, and material to perform the Work as specified, including
24 replacement of adjacent pedestrian curb and curb and gutter, excavation to the depth of
25 replacement materials, haul and disposal of all removed materials, installation of
26 "Detectable Warning Surface", and necessary trimming of tree roots and vegetation.
27 Additional restoration ordered by the Engineer will be paid for separately.

28
29 HMA used to patch the roadway adjacent to curb and gutter repairs will be paid for as
30 "HMA for Pavement Repair Cl. ___PG___".

31
32 **ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL**

33
34 **Description**

35 Supplement section 8-20.1 with the following:

36 (*****)

37 This Work involves reinstalling induction loop vehicle detectors at signalized intersections.

38
39 **Construction Requirements**

40 Supplement section 8-20.3(14)C with the following:

41 (*****)

42 **Replace Induction Loops**

43 Re-install induction loop vehicle detectors damaged by the pavement grinding per
44 King County requirements and as directed by the Engineer. Testing will be performed
45 per King County standards by an Electrical Inspector or King County personnel at
46 the request of the Contractor.

47

1 When damaged, induction loops shall be installed within five working days.
2 Contractor shall provide Engineer with 48 hours notice prior to performing any work
3 that may damage the existing induction loops.
4

5 Where proposed loops will be installed over existing loops, remove and replace the
6 pavement. Coordinate locations with engineer. Work and pay items to remove and
7 replace pavement will be according to Section 5-04.3(5)E.
8
9

10 **Measurement**

11 Supplement section 8-20.4 with the following:

12 (*****)

13 Measurement for installing induction loop vehicle detectors will be per each loop installed.
14

15 **Payment**

16 Supplement section 8-20.5 with the following:

17

18 "Replace Induction Loop Vehicle Detector" per each.
19

20 **PAVEMENT MARKINGS**

21 (*****)

22 **Speed Hump**

23

24 **Measurement**

25 Supplement Section 8-22.4 with the following:

26 (*****)

27 Speed hump marking will be measured per each for each speed hump.
28

29 **Payment**

30 Supplement Section 8-22.5 with the following:

31 (*****)

32 "Speed Hump Marking", per each.
33
34

35 **DIVISION 9**
36 **MATERIALS**

37
38 **AGGREGATES**

39

40 **Aggregates for Hot Mix Asphalt**

41

42 **HMA Proportions of Materials**

43 (*****)

44 Revise section 9-03.8(6) with the following:
45

- 1 For residential streets the minimum aggregate gradation control point for the No. 8 Sieve
- 2 is 40% passing.
- 3