



**CITY OF SNOHOMISH
WASHINGTON**

**SPECIFICATIONS, PROPOSAL AND
CONTRACT DOCUMENTS**

FOR

MAPLE AVENUE SEWER REPLACEMENT PROJECT

**ISSUED FOR BID
MAY 2016**



**CITY OF SNOHOMISH
MAPLE AVENUE SEWER REPLACEMENT PROJECT
NOTICE OF CALL FOR BIDS**

NOTICE IS HEREBY GIVEN, that sealed bids shall be received and recorded by the City Clerk at City Hall, 116 Union Street, Snohomish, WA 98290, until 2:00 PM, Pacific Coast Time, Wednesday, June 8, 2016, and then publicly opened and read aloud.

The work of this contract provides for the construction of approximately 480 lineal feet of 8" SDR PVC Sewer Pipe, 6 Sanitary Sewer Manholes, 13 side sewer laterals, removal of structures and obstructions, erosion control, traffic control, utility conflict resolution, miscellaneous surface restoration, and other related items, all as located within the City of Snohomish's corporate limits, easements, and public right-of-way, as shown on the drawings and specified in these technical provisions.

Project Title: City of Snohomish Maple Avenue Sewer Replacement Project

Engineer's Estimate Range: \$150,000 - \$200,000

Plans, specifications, addenda, and a plan holders list for this project are available on-line through Builders Exchange of Washington, Inc. at <http://www.bxwa.com>; 2607 Wetmore Avenue, Everett, WA 98201-2929, (425) 258-1303, Fax (425) 259-3832. Informational copies of any available maps, plans and specifications are on file for inspection online through the City's website at <http://www.ci.snohomish.wa.us/105/RFPs> and in the office of the City of Snohomish Public Works Engineering Department, located at 112 Union Avenue, Snohomish, WA 98290.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the grand total amount of such bid proposal. **NO BID SHALL BE CONSIDERED UNLESS ACCOMPANIED BY SUCH BID PROPOSAL DEPOSIT.** If the successful bidder does not enter into a contract and file a performance and payment bond and the required insurance certificates, with the City of Snohomish within ten (10) working days after Notice of Award of Bid, the amount of the bid deposit shall be forfeited to the City of Snohomish. Unsuccessful bidders' deposits will be returned upon City's execution of contract documents or rejection of all bids.

A one hundred percent (100%) Contractor's Performance and Payment Bond is required. The bond must be delivered to the Snohomish City Clerk within ten (10) working days after notification of the award to the successful bidder. The Bond must be approved by City officials before the contract award is final. A Contract is required and must be executed and returned to the City of Snohomish within ten (10) working days after notification of award. Approval of the contract by City officials is required before the contract award is final.

A certificate of liability insurance with \$1,000,000 single event and \$3,000,000 aggregate limits for this project must be furnished to the City of Snohomish within ten (10) working days after

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Notice of Award of Bid. This insurance certificate shall also specifically name the City of Snohomish as an additional insured. The successful bidder may not commence work under this contract until all required insurance coverage has been approved by the City.

The City of Snohomish reserves the right to reject any or all bids, and to waive irregularities or informalities in the bid or in the opening. The City of Snohomish reserves the right to delete portions of the work.

No bidder may withdraw his bid after the hour set for the opening thereof, or before award of contract, unless said award is delayed for a period exceeding sixty (60) calendar days.

The bidder further agrees to begin work within ten (10) working days after Notice to Proceed has been issued by the City of Snohomish. The Contractor has twenty (20) working days to complete the construction of the project. Payment of liquidated damages will be made by the Contractor to the City in the amount specified in the Contract if the construction work is not physically completed within the allotted working days, in accordance with Section 1-08.9 of the Standard Specifications.

Bid package and technical related questions can be directed to Andrew Sics, P.E., Project Engineer, at (360) 282-3174.

Dated this 24th day of May, 2016

City of Snohomish, Washington

BY:

Pat Adams, City Clerk

INFORMATION FOR BIDDERS

BIDS will be received by the CITY OF SNOHOMISH (herein called the "OWNER") at the time and location set forth in the Call for Bids herein before and then at said office publicly opened and read aloud.

Each BID must be submitted in a sealed envelope addressed to the CITY OF SNOHOMISH, ATTN: CITY CLERK, 116 Union Ave., Snohomish, WA, 98290. Each sealed envelope containing a BID must be plainly marked on the outside as BID for **MAPLE AVENUE SEWER REPLACEMENT PROJECT**. The envelope should bear on the outside the name of the BIDDER, his address, his license number if applicable, and the name of the project for which the BID is submitted. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at the above address.

All BIDS must be made on the required PROPOSAL FORM. All blank spaces for BID prices must be filled in, in ink or typewritten, and the PROPOSAL FORM must be fully completed and executed when submitted. Only one copy of the PROPOSAL FORM is required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within sixty (60 days) after the actual date of the opening thereof.

Before submitting its proposal, the BIDDER shall examine the site of the work and review the drawings and specifications including ADDENDA and ascertain for themselves the work required and all of the physical conditions in relation thereto. Failure to take this precaution will not release the successful BIDDER from entering into contracts nor excuse the BIDDER from performing the work in strict accordance with the terms of the contract. No verbal statement made by any officer, agent, or employee of the OWNER, in relation to the physical conditions pertaining to the site of the work, will be binding on the OWNER during the gathering of information for proposal preparation by each BIDDER. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID deposit payable to the OWNER for five percent (5%) of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the deposits of all except the three lowest responsible BIDDERS. When the Agreement is executed, the deposits of the remaining unsuccessful BIDDERS will be returned.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance and payment bond within ten calendar days after the date on the NOTICE OF AWARD. The performance and payment bond in the amount of 100 percent of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and bond forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default; in which case the BID deposit accompanying the bid shall become the property of the OWNER.

The OWNER, within 10 days of receipt of acceptable bond and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement within such period.

CONTRACTOR shall not commence work until a NOTICE TO PROCEED has been issued by the OWNER.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER, in the OWNER'S discretion, that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

The low BIDDER must supply the names and addresses of major material suppliers and subcontractors when requested to do so by the OWNER.

The City of Snohomish reserves the right to delete portions of the work.

Bid Package and technical related questions can be directed to the Project Engineer, Andrew Sics, PE, at (360) 282-3174.

CITY OF SNOHOMISH - BID PROPOSAL

TO: City of Snohomish
Attn: City Clerk
116 Union Street
Snohomish, WA 98290

The bidder declares that he or she has carefully examined the contract documents for the project; that he or she has personally visited the sites; that he or she has satisfied himself or herself as to the quantities of work involved, including materials and the equipment and conditions of work involved, surveying necessary for the project, and including the fact that the description of the quantities of work and materials as included herein, is brief and intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the contract documents and that this proposal is made according to the contract documents, which are hereby made a part of this proposal. The City of Snohomish reserves the right to delete portions of the work.

The bidder declares that he or she has exercised his or her own judgment regarding the interpretations of the specifications contained within the construction documents and has utilized all data that he or she believes pertinent in arriving at his or her conclusions.

The bidder agrees to hold his or her bid proposal open for sixty (60) days after the receipt of bids by the City.

The bidder agrees that if this proposal is accepted, he or she will, within ten (10) working days after notification of acceptance, execute a contract in the form included in the construction documents with the City of Snohomish, and will, prior to the time of execution of the contract, deliver to the City of Snohomish a performance and payment bond and a Certificate of Insurance and as required therein, and will, furnish all machinery, tools, apparatus, and other means of construction, and do the work in the manner, in the time, and according to the methods specified in the contract documents.

The bidder further agrees, if awarded the contract, to begin work within ten (10) working days after the date of notice to proceed and to complete the construction within twenty (20) working days as described in Section 1-08.5 in the Special Provisions included herein.

In the event the bidder is awarded the contract and shall fail to complete the work within the time limit or extended time limit agreed upon as more particularly set forth in the contract documents, liquidated damages shall be paid to the owner per the specifications contained in the contract documents.

The bidder proposes to accept as full payment for the work proposed herein the amount computed under the provisions of the contract documents. This amount shall be based on actual quantities of material placed and work performed. Bidder agrees that the unit prices represent a true measure of the labor and material required to perform the work, including all allowances for overhead and profit for each type of work called for in these contract documents.

**BID PROPOSAL
 MAPLE AVENUE SEWER REPLACEMENT PROJECT
 CITY OF SNOHOMISH
 NOTICE OF CALL FOR BIDS**

Note: Unit prices for all items, all extensions, and the total amount bid must be shown. 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 entered in ink.

BID SCHEDULE

ITEM	SPEC NO.	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
PREPARATION						
1	1-09	MOBILIZATION	1	LS		
2	2-02	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1	LS		
3	2-02	SAWCUTTING	1,850	LF		

GRADING

4	2-03	UNSUITABLE FOUNDATION EXCAVATION INCLUDING HAUL	25	CY	
5	2-03	FOUNDATION MATERIAL	25	CY	
6	2-03	OVER EXCAVATION INCLUDING HAUL	50	CY	

SURFACING AND PAVEMENT

7	5-04	ASPHALT PATCHING (6-INCH)	360	SY	
8	5-04	ASPHALT REMOVAL INCLUDING HAUL	360	SY	

SEWER

9	7-05	MANHOLE 48 IN. DIAM. TYPE I	4	EA	
10	7-05	SADDLE MANHOLE 48 IN. DIAM.	2	EA	
11	7-05	ABANDON EXISTING MANHOLE	2	EA	
12	7-17	PVC SANITARY SEWER PIPE 8 IN. DIAM.	480	LF	
13	7-17	TESTING SEWER PIPE	480	LF	
14	7-18	SIDE SEWER	13	EA	
15	7-17	ABANDON EXISTING 8 IN. SEWER	480	LF	

EROSION CONTROL

16	1-07.15	SPCC PLAN	1	LS	
17	8-01	INLET PROTECTION	6	EA	

TRAFFIC

18	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	1	LS	
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OTHER ITEMS

19	7-08	STRUCTURAL EXCAVATION CL. B INCL. HAUL	565	CY	
20	7-08	SHORING OR EXTRA EXCAVATION CL. B	4,800	SF	
21	1-05	ROADWAY SURVEYING	1	LS	
22	2-01	ROADSIDE CLEANUP	1	EST.	\$3,000
Subtotal Bid Items 1-22					
Total Bid					

RECEIPT OF ADDENDA

Receipt of the following Addenda to the Contract Documents is hereby acknowledged

Addendum #	Date of Receipt	Signed Acknowledgement

Note: Failure to acknowledge receipt of the Addenda may be considered an irregularity in the proposal.

BID PROPOSAL SIGNATURE SHEET

The undersigned bids for complete construction of the following project: **Maple Avenue Sewer Replacement Project** as described in the contract documents. The bidder proposes to accept as full payment for the work proposed herein; the amount computed under the provisions of the contract documents.

NOTE: The City reserves the right to accept or reject any and all bids as determined by the City.

TOTAL:

Total Bid Including Applicable Tax	\$
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Contractor (Firm Name)

Signature

Address

Name & Title (printed)

Fax
Phone & Fax Number

Date of Signing

Washington State Contractor's
Registration Number

Indicate whether contractor is partnership
corporation, or sole proprietorship

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the bid proposal. **NO BID SHALL BE CONSIDERED UNLESS ACCOMPANIED BY SUCH BID PROPOSAL DEPOSIT.**

Bid proposal to be submitted in a sealed envelope marked "**BID ENCLOSED**" FOR Maple Avenue Sewer Replacement Project.

WASHINGTON STATE SALES TAX. The work on this contract is to be performed upon lands whose ownership obligates the Contractor to pay sales tax. The provisions of Section 1-07.2(2) apply.

COMPLETION TIME AND LIQUIDATED DAMAGES

It is understood and agreed that all work required to complete this project and achieve the implied intent of the Plans and Specifications, shall be completed within twenty (20) working days. Refer to Section 1-08.5 of the General Requirements.

It is further understood and agreed that the Owner may deduct liquidated damages from payments due or to become due the Contractor in the amount set forth in Section 1-08.9, Liquid Damages, for each working day in beyond the time allowed in the contract, as stipulated in the paragraph above, unless specified otherwise. Such deductions may be made for any delays, which cannot reasonably be shown to be beyond the Contractor's control.

The liquidated damages do not include and are in addition to damages from costs for engineering, administrative, and other costs incurred beyond contract completion date. The cost of additional office and field engineering, construction surveillance, and other costs beyond contract completion date shall be billed the contractor at standard billing rates for said services then in effect.

NON COLLUSION DECLARATION

The undersigned, being duly sworn, deposes and says that the Bid submitted herewith is a genuine and not a collusive or sham bid or made in the interest or on behalf of any person herein named and that the person, firm, association, joint venture, co-partnership, or corporation herein named, has 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 the preparation and submission of a bid for consideration in the award of a contract for the improvement described on the first page of this Proposal Form.

PREVAILING WAGES

The prevailing rate of wages shall be paid to all workers, laborer, or mechanics per Chapter 39.12 RCW (See 2014 WSDOT/APWA Standard Specifications).

PROPOSAL FORM (continued)

BID DEPOSIT

A Bid Deposit in an amount of five percent (5%) of the Total Bid Amount(s) based upon the Lump Sum or Bid Schedule approximate quantities at the unit prices including applicable taxes and in the form indicated on the following pages.

Cash _____ IN THE AMOUNT OF \$ _____

Cashier's Check _____ \$ _____

Certified Check _____ \$ _____ Payable to the Owner

Bid Bond _____ IN THE AMOUNT OF 5% OF THE AMOUNT
BID

SURETY

If the Bidder is awarded a construction contract on this Bid, the Surety who provides the Contract Bond will be

_____.

Whose address is _____

Street

City

State

Zip Code

BIDDER INFORMATION AND SIGNATURE

The party by whom this bid is submitted and by whom the contract will be entered into, in case the award is made to him, is:

Corporation/Partnership/Individual

Firm Name: _____

Doing business at

Address City/State

Which is the address to which all communications concerned with this bid and contract should be sent.

The name of the president, treasurer, and manager of the bidding corporation, or the names of all persons and parties interested in this bid as partners or principals are as follows

<u>Name/Title</u>	<u>Address</u>
_____	_____
_____	_____
_____	_____
_____	_____

IN WITNESS hereto, the undersigned agrees to the conditions of the BID, certifies that this BID has not been restricted, modified or conditioned, acknowledges receipt of addenda ____to ____, attests to the absence of collusion in the Non-Collusion Affidavit below, and agrees to be bound by its provisions, certifies and agrees concerning non-segregated facilities in the Non-Segregated facilities statement below, covenants, stipulates and agrees in accordance with the Anti-Discrimination Certification below, declares, accepts and understands in accordance with the Bidder's Declaration and Understanding below, agrees as to prevailing wages as below, agrees as to Washington State Sales tax as above, understands and agrees as to the completion of time and liquidated damages as below, and with the full authority of the firm or other business entity submitting this BID has set his hand this _____day of _____2016.

If Sole Proprietor or Partnership

Signature of Bidder

Title

If Corporation

Attest:

Name of Corporation

Secretary By _____

Title

Sworn to before me this _____ day of

_____, _____.

Notary Public in and for the State
Of Washington residing at

- NOTE:
1. If the Bidder is a co-partnership, so state, giving the Name under which business is transacted.
 2. If the Bidder is a corporation, this Proposal must be Executed by the duly authorized officials and notarized.

DEPOSIT OR BID BOND FORM

DEPOSIT STATEMENT

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

SIGN HERE _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal,
and _____, as Surety, are
held firmly bound unto the _____, Washington, 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

_____,
Washington, according to the terms of the bid made by the Principal therefore, 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 so do, 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 _____, _____.

Principal

Surety

Received return of deposit in the sum of \$ _____

ANTI-DISCRIMINATION CERTIFICATE

CITY OF SNOHOMISH
STATE OF WASHINGTON
COUNTY OF SNOHOMISH

The bidder hereby covenants, stipulates and agrees that no person shall be discriminated against in the bidding of the service and/or materials hereunder and that the bidder shall not refuse to hire any person therefore because of such person's race, creed, color or national origin, unless based on a bona fide occupational qualification. Also, the bidder will in no matter discriminate against any person because of such person's race, creed, color or national origin. Any such discrimination shall be deemed a violation of this bid and shall render this bid subject to forfeiture.

Contractor's Signature

Subscribed and sworn to before me this _____ day of _____, 2016.

Notary Public in and for
The State of Washington,
Residing at

My commission expires _____

INDEMNIFICATION ADDENDUM

_____ (hereinafter called Contractor) agrees to defend, indemnify and hold the City of Snohomish (hereinafter called Owner) harmless from any and all claims, demands, loses and liabilities to or by third parties arising from, resulting from or connected with services performed or to be performed under this subcontract by Contractor or contractor's agents or employees to the fullest extent permitted by law and subject to the limitations provided below.

Contractor's duty to indemnify Owner shall not apply to liability for damages arising out of bodily injury to persons or damage to property caused by or resulting from the sole negligence of Owner or Owner's agents or employees.

Contractor's duty to indemnify Owner for liability for damages arising out of bodily injury to persons or damage to property caused by or resulting from the concurrent negligence of (a) Owner's agents or employees, and (b) Contractor or Contractor's agents or employees, shall apply only to the extent of negligence of Contractor or Contractor's agents or employees.

Contractor specifically and expressly waives any immunity that may be granted it under the Washington State Industrial Insurance Act, Title 51 RCW. Further, the indemnification obligation under this subcontract shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable to or for any third party under workers compensation acts, disability benefits acts, or other employee benefits acts; provided Contractor's waiver of immunity by the provisions of this paragraph extends only to claims against Contractor by Owner and does not include, or extend to, any claims by Contractor's employees directly against Contractor.

Contractor's duty to defend, indemnify and hold Owner harmless shall include as to all claims, demands, losses and liability to which is applies, Owner's personnel-related costs, reasonable attorney's fees, court costs and all other claim-related expenses.

THE UNDERSIGNED HEREBY CERTIFY THAT THIS ADDENDUM WAS MUTUALLY NEGOTIATED.

Dated: _____ Dated: _____

Owner: CITY OF SNOHOMISH

Contractor:

By _____
Signature

By: _____
Signature

Title: _____

Title: _____

CERTIFICATION OF NONSEGREGATED FACILITIES

The bidder certifies that s/he does not maintain or provide for her/his employees any segregated facilities at any of her/his establishments, and that s/he does not permit her/his employees to perform their services at any locations, under her/his control, where segregated facilities are maintained. The bidder certifies further that s/he will not maintain or provide for her/his employees any segregated facilities at any of her/his establishments, and that s/he will not permit her/his employees to perform their services at any location under her/his control where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause on any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants, or other eating areas, time clocks, locker rooms or other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact because of habit, local custom or otherwise. The bidder agrees that except where s/he has obtained identical certification from proposed subcontractor prior to the award of subcontracts exceeding \$10,000, which are not exempt from the provisions of the Equal Opportunity clause, that s/he will retain such certifications in her/his files.

NOTE: The penalty for making false statements in offers is prescribed in 18 USV 1001.

Dated: _____, _____
(Name of Bidder)

By _____
Signature

Title _____

Official Address:

(City, State, Zip)

Must be included without alteration.

MAPLE AVENUE SEWER REPLACEMENT PROJECT

0-01.3(7) SURPLUS MATERIAL DISPOSAL AND/OR REMOVAL

TYPE OF MATERIAL TO BE REMOVED FROM SITE	LOCATION OF STORAGE AND/OR DISPOSAL SITE (include name and phone number of owner and address of site)	PROPOSED METHOD OF DISPOSAL AND/OR REUSE

Note: Please refer to “Disposal of Surplus Material” in Section 2-03.3(7) of the Standard Specifications.

If a disposal site is rejected, the Contractor is responsible for locating a new disposal site that will meet the Owner’s criteria. Any associated costs incurred in finding a new or different disposal and/or storage site will be the responsibility of the Contractor and at no additional cost to the Owner.

CONTRACT

THIS AGREEMENT, made in 3 copies, each of which shall be deemed original, and entered into as of the date hereinafter affixed, by and between CITY OF SNOHOMISH, hereinafter called the Owner, and _____, HEREINAFTER called the Contractor,

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this Agreement, the parties hereto covenant and agree as follows:

I. The Contractor shall do all work and furnish all labor, tools, materials and equipment for the construction of the **Maple Avenue Sewer Replacement Project** in accordance with and as described in the attached plans and specifications, including any Addenda which are by this reference incorporated herein and made a part hereof, and shall perform any alterations in or additions to the work provided under this contract and every part thereof.

If said work is not completed within the time specified, the Contractor agrees to pay to the Owner the sum set forth in Section 1-08.9 for each and every calendar day said work remains uncompleted after expiration of the specified time, as liquidated damages. The Contractor shall provide and bear the expense of all equipment, work, and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof and shall guarantee said materials and work for a period of one year after completion of this contract, except such as are mentioned in the specifications to be furnished by CITY OF SNOHOMISH.

II. CITY OF SNOHOMISH hereby promises and agrees with the Contractor to employ and does employ the Contractor to provide the materials and to do and cause to be done the above-described work and to complete and finish the same according to the attached plans and specifications and the terms and conditions herein contained and hereby contracts to pay for the same according to the attached specifications and the

schedule of prices bid and hereto attached, at the time and in the manner and upon the conditions provided for in this contract.

III. The Contractor for himself and for his heirs, executors, administrators, successors and assigns does hereby agree to the full performance of all covenants herein contained upon the part of the Contractor.

IV. It is further provided that no liability shall attach to CITY OF SNOHOMISH by reason of entering into this contract, except as expressly provided herein.

V. The CITY OF SNOHOMISH is committed to transparency and accountability in its contracting and expenditures, and obtaining maximum taxpayer value for public works projects. Prior to final acceptance and release of retainage by the CITY OF SNOHOMISH, Contractor shall provide the CITY OF SNOHOMISH with a report listing the names and addresses of the subcontractors and suppliers receiving contract funds from the Project.

VI. This agreement consists of the following documents, all of which are incorporated by reference as if set forth in full herein, and are component parts hereof:

1. Legal, Procedural, Contract Documents, and Indemnification Addendum
2. Washington State Legal Requirements (RCW'S; WAC'S)
3. City of Snohomish Engineering Standards, Specifications and Details
4. Amendments to the Standard Specifications
5. 2016 Standard Specifications (WSDOT/APWA)
6. Special Provisions
7. Contract Drawings (Plans)

Countersigned:

This _____ day of _____, 2016.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year first herein above written.

CITY OF SNOHOMISH (Owner)

By _____
Larry Bauman, City Manager

Approved as to form

By _____
Grant Weed, City Attorney

CONTRACTOR

By _____

Address:

Telephone Number:

Fax Number:

Acknowledgement of Waiver of Contractor's Industrial insurance immunity. See Standard Specifications, 1-07.14. (Initial acknowledgement)

Owner

Contractor

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS: That whereas CITY OF SNOHOMISH has awarded to _____, hereinafter designated as the "Principal," a contract for the construction of the Project designated City of Snohomish **Maple Avenue Sewer Replacement Project** all as hereto attached and made a part hereof, and whereas said principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract:

NOW, THEREFORE, we the principal and _____

(Surety)

_____ a corporation, organized and existing under and by virtue of the laws of the State of _____, duly authorized to do business in the State of Washington, as surety, are held and firmly bound unto CITY OF SNOHOMISH, a municipal corporation of the State of Washington in the sum of: _____ lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by those presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the above-bonded principal, his or its heirs, executors, administrators, successors, or assigns shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in the said contract and shall faithfully perform all the provisions of such contract and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material men and all persons who shall supply such person or persons or subcontractors with provisions and supplies for the carrying on of such work on his or their part and shall indemnify and save harmless CITY OF SNOHOMISH, their officers and agents and shall further save

harmless and indemnify said CITY OF SNOHOMISH from any defect or defects in any of the workmanship entering into any part of the work or designated equipment covered by said contract which shall develop or be discovered within one (1) year after the final acceptance of such work, then this obligation shall become null and void; otherwise, it shall remain in full force and effect, provided that the liability hereunder for defects in materials and workmanship for a period of one (1) year after the acceptance of the work shall not exceed the sum of:

And the said surety, for the value received, hereby further stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on the bond, and it does hereby waive notice of any change, extension of time, alterations, or additions to the terms of the contract or the work or to the specifications.

IN WITNESS WHEREOF, the said principal and the said surety have caused this bond and three (3) counterparts thereof to be signed and sealed by their duly authorized officers this _____ day of _____, _____.

Principal

TWO WITNESSES: (If sole proprietor or Partnership)

By _____

ATTEST: (If Corporation)

Corporate Seal

By _____

Title _____

Surety

By _____

Its _____

Address of local office and agent of Surety Company is: _____

APPROVED AS TO FORM

By _____
Grant Weed, Attorney for CITY OF SNOHOMISH

NOTE: THIS QUESTIONNAIRE MUST BE COMPLETED AND ATTACHED TO CERTIFICATE OF INSURANCE.

Insurance Coverage Questionnaire

For:

Project Title: **Maple Avenue Sewer Replacement Project**

Project Owner: **CITY OF SNOHOMISH**

Are the following coverage's and/or conditions in effect?

	Yes	No
The Policy form is ISO Commercial General Liability form GC-00 001 or GC 00 02 (Circle ONE). If no, attach a copy of the policy with required coverages clearly identified.		
The Owner, its officials, officers, employees and volunteers are additional insures as Respects (a) activities performed for the Owner by or on behalf of the Named Insured, (b) products and completed operations of the Named Insured, or (c) premises, owned, leased, or used by the Named Insured.		
Products Completed operation coverage.		
Cross Liability clause (or equivalent wording).		
Personal Injury Liability Coverage (with employee exclusion deleted)		
Broad Form Damage with X, C U Hazards included.		
Blanket Contractual Liability coverage applying to this contract or Contractual Liability Coverage applying to this contract		
Employers Liability – Stop Gap		
Written notice of cancellation to the City		

Deductibles

CITY OF SNOHOMISH

CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY RETAINED PERCENTAGE

The owner shall withhold the retained percentage for this contract from time-to-time as such retained percentage accrues and in accordance with RCW 60.28.010, 020, and 050.

OPTION A. I hereby elect to have the retained percentage for this contract held in a fund by the owner until thirty (30) days following final acceptance of the work. (No interest will be earned on the retained percentage amount under this election).

CONTRACTOR:

Date: _____

OPTION B. I hereby elect to have the owner deposit the retained percentage for this contract, from time-to-time, as such retained percentage accrues and in accordance with RCW 60.28.010, 020, and 050.

I hereby designate _____ as the depository for said funds which shall be deposited in an interest earning account subject to joint control by owner and the contractor. All interest earned on said deposits shall belong to the contractor. (If contractor fails to designate the depository then the owner designates)

I hereby further agree to be fully responsible for payment of all costs of fees incurred as a result of establishing said depository account and depositing the retained percentage as authorized by statute. The owner shall not be liable in any way for any costs or fees in connection therewith.

CONTRACTOR:

Date: _____

ATTN: FINANCE DEPARTMENT This form is for selection of retainage option ***ONLY. OPTION B*** must have a signed Escrow Instruction/Agreement on file prior to processing retainage payment to the bank. Signed Agreement will be secured by the Purchasing Division.

CITY OF SNOHOMISH

**PUBLIC WORKS PROJECT - RETAINED PERCENTAGE ESCROW
AGREEMENT**

Escrow No. _____

City of Snohomish
116 Union Street
Snohomish, WA 98290

Contractor:

Address:

Project Title: **Maple Avenue Sewer Replacement Project**

TO: Escrow Bank or Trust Co:

The undersigned, _____, herein referred to as the Contractor, has directed the City of Snohomish to deliver to you its warrants which shall be payable to you and the Contractor jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the contractor jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by the City of Snohomish. Attached is a list of such bonds, or other securities approved by the City of Snohomish. Other bonds or securities, except stocks may be selected by the Contractor, subject to express written approval of the City of Snohomish. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so by the City of Snohomish as provided in paragraph 4 of this Escrow Agreement.
2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless otherwise directed by the Contractor.
3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any moneys derived from the sale of such securities, or the negotiation of the City of Snohomish's warrants) except in accordance

with written instructions from the City of Snohomish. Compliance with such instructions shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow Agreement is **July _____, 2016.**

4. In the event the City of Snohomish orders you to do so in writing, you shall, within thirty-five (35) days of receipt of such order, reconvert into money the securities held by you pursuant to this agreement and return such money together with any other moneys held by you hereunder, to the City of Snohomish. Written release will be issued by the City Treasurer. For further information contact the City Treasurer at (360) 568-3115.

5. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless the City of Snohomish directs the release to the Contractor of the securities and moneys held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees as provided for herein above. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modifications hereof, you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorneys fees occasioned by such default, delay, controversy or litigation.

6. This agreement shall not be binding until executed by the Contractor and the City of Snohomish and accepted by you.

7. This instrument contains the entire agreement between you, the Contractor and the City of Snohomish with respect to this escrow and you are not a party to nor bound by any instrument or agreement other than this; you shall not be required to take notice of any default or any other matter nor be bound by nor required to give notice or demand, nor required to take any action whatever except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.

8. The foregoing provisions shall be binding upon the assigns, successors, personal representatives and heirs of the parties hereto.

9. The Contractor's Federal Income Tax Identification number is

_____.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this agreement on this _____ day of _____, 2016.

CONTRACTOR

CITY OF SNOHOMISH

City Manager

Title:

ATTEST:

City Clerk

The above escrow instructions received and accepted this _____ day of _____, 2016.

ESCROW BANK OR TRUST CO:

Signature

Title: _____

Securities Authorized by City of Snohomish - Select only one:

1. Bills, certificates, notes or bonds of the United States;
2. Other obligations of the United States or its agencies;
3. Obligations of any corporation wholly-owned by the government of the United States;
4. Indebtedness of the Federal National Mortgage Association; and
5. Time deposits in commercial banks.

PLEASE RETURN THIS SIGNED AGREEMENT TO:

City of Snohomish
Attn: City Treasurer
116 Union Street
Snohomish, WA 98290

RETAINAGE RELEASE REQUIREMENTS

The following are the documents required to be on file with the City of Snohomish prior to release of retainage to the Contractor.

No.	Document	Generated by	Contact	Date Received by City
1.	Contractor's Notification to City of Completion of Contract Work	Contractor	City Engineer	
2	Recommendation of Project Acceptance	City / Project Engineer	City Engineer	
3	Final Project Acceptance	City / Council	City Engineer	
4	Intent to Pay Prevailing Wages	Contractor	Dept. of Labor & Industries	
5	Notification of Completion to Department of Revenue	City / City Treasurer	Dept. of Revenue Excise Tax Division	
6	Affidavit of Wages Paid	Contractor	Dept. of Labor & Industries	
7	Certificate of Payment State Excise Tax by Public Works Contractor	State	Dept of Revenue Excise Tax Division	
8	Release Regarding Industrial Insurance	City	City Engineer	
9	Certification of Payment of Contributions	State	Dept. of Employment Security	
10	Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City	Contractor	All claims against retainage or payment Bond filed with the City	
11	All warranty documents to include Performance Bond	Contractor	Project Engineer	
12	Contractor's Record Drawings	Contractor	City Engineer	

SECTION I

AMENDMENT TO THE STANDARD SPECIFICATION

1 **INTRO.AP1**

2 **INTRODUCTION**

3 The following Amendments and Special Provisions shall be used in conjunction with the
4 2016 Standard Specifications for Road, Bridge, and Municipal Construction.

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7

AMENDMENTS TO THE STANDARD SPECIFICATIONS

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

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

16 **1-02.AP1**

17 **Section 1-02, Bid Procedures and Conditions**
18 **April 4, 2016**

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

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

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

27 **1-02.9 Delivery of Proposal**

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

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

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

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

44
45 **1-02.12 Public Opening of Proposals**

46 This section is supplemented with the following new paragraph:

47

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

6
7 **1-06.AP1**

8 **Section 1-06, Control of Material**
9 **January 4, 2016**

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

11
12 **1-06.6 Recycled Materials**

13 The Contractor shall make their best effort to utilize recycled materials in the
14 construction of the project; the use of recycled concrete aggregate as specified in
15 Section 1-06.6(1)A is a requirement of the Contract.

16
17 The Contractor shall submit a Recycled Material Utilization Plan as a Type 1 Working
18 Drawing within 30 calendar days after the Contract is executed. The plan shall provide
19 the Contractor's anticipated usage of recycled materials for meeting the requirements of
20 these Specifications. The quantity of recycled materials will be provided in tons and as
21 a percentage of the Plan quantity for each material listed in Section 9-03.21(1)E Table
22 on Maximum Allowable Percent (By Weight) of Recycled Material. When a Contract
23 does not include Work that requires the use of a material that is included in the
24 requirements for using materials the Contractor may state in their plan that no recycled
25 materials are proposed for use.

26
27 Prior to Physical Completion the Contractor shall report the quantity of recycled
28 materials that were utilized in the construction of the project for each of the items listed
29 in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete
30 aggregate, recycled glass, steel furnace slag and other recycled materials (e.g.
31 utilization of on-site material and aggregates from concrete returned to the supplier).
32 The Contractor's report shall be provided on DOT Form 350-075 Recycled Materials
33 Reporting.

34
35 **1-06.6(1) Recycling of Aggregate and Concrete Materials**

36
37 **1-06.6(1)A General**

38 The minimum quantity of recycled concrete aggregate shall be 25 percent of the total
39 quantity of aggregate that is incorporated into the Contract for those items listed in
40 Section 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled
41 Material that allow the use of recycled concrete aggregate. The percentage of recycled
42 material incorporated into the project for meeting the required percentage will be
43 calculated in tons based on the quantity of recycled concrete used on the entire
44 Contract and not as individual items.

45
46 If the Contractor's total cost for Work with recycled concrete aggregate is greater than
47 without the Contractor may choose to not use recycled concrete aggregate. When the
48 Contractor does not meet the minimum requirement of 25 percent recycled concrete
49 aggregate for the Contract due to costs or any other reason the following shall be
50 submitted:

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1. A cost estimate for each material listed in Section 9-03.21(1)E that is utilized on the Contract. The cost estimate shall include the following:
 - a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each material a copy of the price quote from the supplier with the lowest total cost for the Work.
 - b. The estimated costs for the Work for each material without recycled concrete aggregate.

The Contractor's cost estimates shall be submitted as an attachment to the Recycled Materials Reporting form.

1-07.AP1

Section 1-07, Legal Relations and Responsibilities to the Public April 4, 2016

1-07.1 Laws to be Observed

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

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

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

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

1-07.9(2) Posting Notices

Items 1 and 2 are revised to read:

1. EEOC - P/E-1 (revised 11/09, supplemented 09/15) – **Equal Employment Opportunity IS THE LAW** published by US Department of Labor. Post for projects with federal-aid funding.
2. FHWA 1022 (revised 05/15) – **NOTICE Federal-Aid Project** published by Federal Highway Administration (FHWA). Post for projects with federal-aid funding.

Items 5, 6 and 7 are revised to read:

5. WHD 1420 (revised 02/13) – **Employee Rights and Responsibilities Under The Family And Medical Leave Act** published by US Department of Labor. Post on all projects.
6. WHD 1462 (revised 01/16) – **Employee Polygraph Protection Act** published by US Department of Labor. Post on all projects.

1 7. F416-081-909 (revised 09/15) – **Job Safety and Health Law** published by
2 Washington State Department of Labor and Industries. Post on all projects.

3
4 Items 9 and 10 are revised to read:

5
6 9. F700-074-909 (revised 06/13) – **Your Rights as a Worker in Washington State**
7 by Washington State Department of Labor and Industries (L&I). Post on all projects.

8
9 10. EMS 9874 (revised 10/15) – **Unemployment Benefits** published by Washington
10 State Employment Security Department. Post on all projects.

11
12 **1-08.AP1**

13 **Section 1-08, Prosecution and Progress**
14 **January 4, 2016**

15 **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage**
16 **Withheld**

17 In item number 5 of the first paragraph, “WSDOT” is revised to read “Contracting Agency”.

18
19 **1-09.AP1**

20 **Section 1-09, Measurement and Payment**
21 **April 4, 2016**

22 **1-09.6 Force Account**

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

24
25 A “specialized service” is a work operation that is not typically done by worker
26 classifications as defined by the Washington State Department of Labor and Industries
27 and by the Davis Bacon Act, and therefore bills by invoice for work in road, bridge and
28 municipal construction.

29
30 **5-02.AP5**

31 **Section 5-02, Bituminous Surface Treatment**
32 **April 4, 2016**

33 **5-02.3(2) Preparation of Roadway Surface**

34 This section is supplemented with the following new subsection:

35
36 **5-02.3(2)E Crack Sealing**

37 Where shown in the Plans, seal cracks and joints in the pavement in accordance with
38 Section 5-04.3(4)A1 and the following:

39
40 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.

41
42 2. Cracks greater than 1 inch in width – fill with sand slurry.

43

1 **5-04.AP5**

2 **Section 5-04, Hot Mix Asphalt**

3 **April 4, 2016**

4 This section (and all subsections) is revised to read:

5

6 This Section 5-04 is written in a style which, unless otherwise indicated, shall be
7 interpreted as direction to the Contractor.

8

9 **5-04.1 Description**

10 This Work consists of providing and placing one or more layers of plant-mixed hot mix
11 asphalt (HMA) on a prepared foundation or base, in accordance with these
12 Specifications and the lines, grades, thicknesses, and typical cross-sections shown
13 in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes
14 in accordance with these Specifications.

15

16 HMA shall be composed of asphalt binder and mineral materials as required, and may
17 include reclaimed asphalt pavement (RAP) or reclaimed asphalt shingles (RAS), mixed
18 in the proportions specified to provide a homogeneous, stable, and workable mix.

19

20 **5-04.2 Materials**

21 Provide materials as specified in these sections:

22

23	Asphalt Binder	9-02.1(4)
24	Cationic Emulsified Asphalt	9-02.1(6)
25	Anti-Stripping Additive	9-02.4
26	Warm Mix Asphalt Additive	9-02.5
27	Aggregates	9-03.8
28	Reclaimed Asphalt Pavement (RAP)	9-03.8(3)B
29	Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B
30	Mineral Filler	9-03.8(5)
31	Recycled Material	9-03.21
32	Hot Poured Sealant	9-04.2(1)A
33	Sand Slurry	9-04.2(1)B

34

35 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

36 Comply with each of the following:

37

- 38 • Develop the mix design in accordance with WSDOT SOP 732.
- 39
- 40 • Develop a mix design that complies with Sections 9-03.8(2) and 9-03.8(6).
- 41
- 42 • Develop a mix design no more than 6 months prior to submitting it for QPL
43 evaluation.
- 44
- 45 • Submit mix designs to the WSDOT State Materials Laboratory in
46 Tumwater, including WSDOT Form 350-042.
- 47
- 48 • Include representative samples of the materials that are to be used in the
49 HMA production as part of the mix design submittal. See Section 5-
50 04.2(1)A to determine when to include samples of RAP or RAS.

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- Identify the brand, type, and percentage of anti-stripping additive in the mix design submittal.
- Include with the mix design submittal a certification from the asphalt binder supplier that the anti-stripping additive is compatible with the crude source and the formulation of asphalt binder proposed for use in the mix design.
- Do not include warm mix asphalt (WMA) additives when developing a mix design or submitting a mix design for QPL evaluation. The use of warm mix asphalt (WMA) additives is not part of the process for obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.

The Contracting Agency's basis for approving, testing, and evaluating HMA mix designs for approval on the QPL is dependent on the contractual basis for acceptance of the HMA mixture, as shown in Table 1.

Table 1

Basis for Contracting Agency Evaluation of HMA Mix Designs for Approval on the QPL		
Contractual Basis for Acceptance of HMA Mixture (see Section 5-04.3(9))	Basis for Contracting Agency Approval of Mix Design for Placement on QPL	Contracting Agency Materials Testing for Evaluation of the Mix Design
Statistical Evaluation, or Nonstatistical Evaluation	WSDOT Standard Practice QC-8	The Contracting Agency will test the mix design materials for compliance with Sections 9-03.8(2) and 9-03.8(6).
Visual Evaluation	Review of Form 350-042 for compliance with Sections 9-03.8(2) and 9-03.8(6)	The Contracting Agency may elect to test the mix design materials, or evaluate in accordance with WSDOT Standard Practice QC-8, at its sole discretion.

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If the Contracting Agency approves the mix design, it will be listed on the QPL for 12 consecutive months. The Contracting Agency may extend the 12 month listing provided the Contractor submits a certification letter to the Qualified Products Engineer verifying that the aggregate source and job mix formula (JMF) gradation, and asphalt binder crude source and formulation have not changed. The Contractor may submit the certification no sooner than one month prior to expiration of the initial 12 month mix design approval. Within 7 calendar days of receipt of the Contractor's certification, the Contracting Agency will update the QPL. The maximum duration for approval of a mix design and listing on the QPL will be 24 months from the date of initial approval or as approved by the Engineer.

5-04.2(1)A Mix Designs Containing RAP and/or RAS

Mix designs are classified by the RAP and/or RAS content as shown in Table 2.

Table 2

Mix Design Classification Based on RAP/RAS Content	
RAP/RAS Classification	RAP/RAS Content¹
Low RAP/No RAS	$0\% \leq \text{RAP}\% \leq 20\%$ and $\text{RAS}\% = 0\%$
High RAP/Any RAS	$20\% < \text{RAP}\% \leq \text{Maximum Allowable RAP}^2$ and/or $0\% < \text{RAS}\% \leq \text{Maximum Allowable RAS}^2$

¹Percentages in this table are by total weight of HMA

²See Table 4 to determine the limits on the maximum amount RAP and/or RAS.

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5-04.2(1)A1 Low RAP/No RAS – Mix Design Submittals for Placement on QPL

For Low RAP/No RAS mix designs, comply with the following additional requirements:

1. Develop the mix design without the inclusion of RAP.
2. The asphalt binder grade shall be the grade indicated in the Bid item name or as otherwise required by the Contract.
3. Do not submit samples of RAP with these mix designs.
4. Testing RAP or RAS stockpiles is not required for obtaining approval for placing these mix designs on the QPL.

5-04.2(1)A2 High RAP/Any RAS - Mix Design Submittals for Placement on QPL

For High RAP/Any RAS mix designs, comply with the following additional requirements:

1. For mix designs with any RAS, test the RAS stockpile (and RAP stockpile if any RAP is in the mix design) in accordance with Table 3.
2. For High RAP mix designs with no RAS, test the RAP stockpile in accordance with Table 3.
3. For mix designs with High RAP/Any RAS, construct a single stockpile for RAP and a single stockpile for RAS and isolate (sequester) these stockpiles from further stockpiling before beginning development of the mix design. Test the RAP and RAS during stockpile construction as required by item 1 and 2 above. Use the test data in developing the mix design, and report the test data to the Contracting Agency on WSDOT Form 350-042 as part of the mix design submittal for approval on the QPL. Account for the reduction in asphalt binder contributed from RAS

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in accordance with AASHTO PP 78. Do not add to these stockpiles after starting the mix design process.

Table 3

Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction For Approving a High RAP/Any RAS Mix Design for Placement on the QPL		
Test Frequency ¹	Test for	Test Method
<ul style="list-style-type: none"> • 1/1000 tons of RAP (minimum of 10 per mix design) and • 1/100 tons of RAS (minimum of 10 per mix design) 	Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for WAQTC T 27/T 11

¹“tons”, in this table, refers to tons of the reclaimed material before being incorporated into HMA.

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4. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

Table 4

Maximum Amount of RAP and/or RAS in HMA Mixture	
Maximum Amount of Binder Contributed from:	
RAP	RAS
40% ¹ minus contribution of binder from RAS	20% ²

¹ Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.

² Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture.

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5. Develop the mix design including RAP, RAS, recycling agent, and new binder.
6. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.
 - a. Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade trichloroethylene.
 - b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.

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- c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).
 - d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.
 - e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).
7. Include the following test data with the mix design submittal:
- a. All test data from RAP and RAS stockpile construction.
 - b. All data from testing the recovered and blended asphalt binder.
8. Include representative samples of the following with the mix design submittal:
- a. RAP and RAS.
 - b. 100 grams of recovered asphalt residue from the RAP and RAS that are to be used in the HMA production.

5-04.2(1)B Commercial HMA - Mix Design Submittal for Placement on QPL

For HMA used in the Bid item Commercial HMA, in addition to the requirements of 5-04.2(1) identify the following in the submittal:

- 1. Commercial HMA
- 2. Class of HMA
- 3. Performance grade of binder
- 4. Equivalent Single Axle Load (ESAL)

The Contracting Agency may elect to approve Commercial HMA mix designs without evaluation.

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

Develop a new mix design and resubmit for approval on the QPL when any of the following changes occur. When these occur, discontinue using the mix design until after it is reapproved on the QPL.

- 1. Change in the source of crude petroleum used in the asphalt binder.

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- 2. Changes in the asphalt binder refining process.
- 3. Changes in additives or modifiers in the asphalt binder.
- 4. Changes in the anti-strip additive, brand, type or quantity.
- 5. Changes to the source of material for aggregate.
- 6. Changes to the job mix formula that exceed the amounts as described in item 2 of Section 9-03.8(7), unless otherwise approved by the Engineer.
- 7. Changes in the percentage of material from a stockpile, when such changes exceed 5% of the total aggregate weight.
 - a. Changes to the percentage of material from a stockpile will be calculated based on the total aggregate weight (not including the weight of RAP) for Low RAP/No RAS mix designs.
 - b. For High RAP/Any RAS mix designs, changes in the percentage of material from a stockpile will be based on total aggregate weight including the weight of RAP (and/or RAS when included in the mixture).

Prior to making any change in the amount of RAS in an approved mix design, notify the Engineer for determination of whether a new mix design is required, and obtain the Engineer's approval prior to implementing such changes.

5-04.2(2) Mix Design – Obtaining Project Approval

Use only mix designs listed on the Qualified Products List (QPL). Submit WSDOT Form 350-041 to the Engineer to request approval to use a mix design from the QPL. Changes to the job mix formula (JMF) that have been approved on other contracts may be included. The Engineer may reject a request to use a mix design if production of HMA using that mix design on any contract is not in compliance with Section 5-04.3(11)D, E, F, and G for mixture or compaction.

5-04.2(2)A Changes to the Job Mix Formula

The approved mix design obtained from the QPL will be considered the starting job mix formula (JMF) and shall be used as the initial basis for acceptance of HMA mixture, as detailed in Section 5-04.3(9).

During production the Contractor may request to adjust the JMF. Any adjustments to the JMF will require approval of the Engineer and shall be made in accordance with item 2 of Section 9-03.8(7). After approval by the Engineer, such adjusted JMF's shall constitute the basis for acceptance of the HMA mixture.

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

The Contractor may, at the Contractor's discretion, elect to use warm mix asphalt (WMA) processes for producing HMA. WMA processes include

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organic additives, chemical additives, and foaming. The use of WMA is subject to the following:

- Do not use WMA processes in the production of High RAP/Any RAS mixtures.
- Before using WMA processes, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed WMA process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

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

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified in Table 5, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

Table 5

Minimum Surface Temperature for Paving		
Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to 0.20	45°F	35°F
More than 0.20	35°F	35°F

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5-04.3(2) Paving Under Traffic

These requirements apply when the Roadway being paved is open to traffic.

In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

During paving operations, maintain temporary pavement markings throughout the project. Install temporary pavement markings on the Roadway prior to opening to traffic. Temporary pavement markings shall comply with Section 8-23.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

Equip mixing plants as follows.

1. Use tanks for storage and preparation of asphalt binder which:

- Heat the contents by means that do not allow flame to contact the contents or the tank, such as by steam or electricity.
- Heat and hold contents at the required temperatures.
- Continuously circulate contents to provide uniform temperature and consistency during the operating period.

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- Provide an asphalt binder sampling valve, in either the storage tank or the supply line to the mixer.
2. **Provide thermometric equipment:**
- In the asphalt binder feed line near the charging valve at the mixer unit, capable of detecting temperature ranges expected in the HMA and in a location convenient and safe for access by Inspectors.
 - At the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates, and situated in full view of the plant operator.
3. **When heating asphalt binder:**
- Do not exceed the maximum temperature of the asphalt binder recommended by the asphalt binder supplier.
 - Avoid local variations in heating.
 - Provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F.
4. **Provide a mechanical sampler for sampling mineral materials that:**
- Meets the crushing or screening requirements of Section 1-05.6.
5. **Provide HMA sampling equipment that complies with WSDOT SOP T-168.**
- Use a mechanical sampling device installed between the discharge of the silo and the truck transport, approved by the Engineer, or
 - Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA.
6. **Provide for setup and operation of the Contracting Agency's field testing:**
- As required in Section 3-01.2(2).
7. **Provide screens or a lump breaker:**
- When using any RAP or any RAS, to eliminate oversize RAP or RAS particles from entering the pug mill or drum mixer.

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5-04.3(3)B Hauling Equipment

Provide HMA hauling equipment with tight, clean, smooth metal beds and a cover of canvas or other suitable material of sufficient size to protect the HMA from adverse weather. Securely attach the cover to protect the HMA whenever the weather conditions during the work shift include, or are forecast to include, precipitation or an air temperature less than 45°F.

Prevent HMA from adhering to the hauling equipment. Spray metal beds with an environmentally benign release agent. Drain excess release agent prior to filling hauling equipment with HMA. Do not use petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA. For hopper trucks, operate the conveyer during the process of applying the release agent.

5-04.3(3)C Pavers

Use self-contained, power-propelled pavers provided with an internally heated vibratory screed that is capable of spreading and finishing courses of HMA in lane widths required by the paving section shown in the Plans.

When requested by the Engineer, provide written certification that the paver is equipped with the most current equipment available from the manufacturer for the prevention of segregation of the coarse aggregate particles. The certification shall list the make, model, and year of the paver and any equipment that has been retrofitted to the paver.

Operate the screed in accordance with the manufacturer's recommendations and in a manner to produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. Provide a copy of the manufacturer's recommendations upon request by the Contracting Agency. Extensions to the screed will be allowed provided they produce the same results, including ride, density, and surface texture as obtained by the primary screed. In the Travelled Way do not use extensions without both augers and an internally heated vibratory screed.

Equip the paver with automatic screed controls and sensors for either or both sides of the paver. The controls shall be capable of sensing grade from an outside reference line, sensing the transverse slope of the screed, and providing automatic signals that operate the screed to maintain the desired grade and transverse slope. Construct the sensor so it will operate from a reference line or a mat referencing device. The transverse slope controller shall be capable of maintaining the screed at the desired slope within plus or minus 0.1 percent.

Equip the paver with automatic feeder controls, properly adjusted to maintain a uniform depth of material ahead of the screed.

Manual operation of the screed is permitted in the construction of irregularly shaped and minor areas. These areas include, but are not limited to, gore areas, road approaches, tapers and left-turn channelizations.

When specified in the Contract, provide reference lines for vertical control. Place reference lines on both outer edges of the Traveled Way of each

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Roadway. Horizontal control utilizing the reference line is permitted. Automatically control the grade and slope of intermediate lanes by means of reference lines or a mat referencing device and a slope control device. When the finish of the grade prepared for paving is superior to the established tolerances and when, in the opinion of the Engineer, further improvement to the line, grade, cross-section, and smoothness can best be achieved without the use of the reference line, a mat referencing device may be substituted for the reference line. Substitution of the device will be subject to the continued approval of the Engineer. A joint matcher may be used subject to the approval of the Engineer. The reference line may be removed after completion of the first course of HMA when approved by the Engineer. Whenever the Engineer determines that any of these methods are failing to provide the necessary vertical control, the reference lines will be reinstalled by the Contractor.

Furnish and install all pins, brackets, tensioning devices, wire, and accessories necessary for satisfactory operation of the automatic control equipment.

If the paving machine in use is not providing the required finish, the Engineer may suspend Work as allowed by Section 1-08.6.

5-04.3(3)D Material Transfer Device or Material Transfer Vehicle

Use a material transfer device (MTD) or material transfer vehicle (MTV) to deliver the HMA from the hauling equipment to the paving machine for any lift in (or partially in) the top 0.30 feet of the pavement section used in traffic lanes. However, an MTD/V is not required for HMA placed in irregularly shaped and minor areas such as tapers and turn lanes, or for HMA mixture that is accepted by Visual Evaluation. At the Contractor's request the Engineer may approve paving without an MTD/V; the Engineer will determine if an equitable adjustment in cost or time is due. If a windrow elevator is used, the Engineer may limit the length of the windrow in urban areas or through intersections.

To be approved for use, an MTV:

1. Shall be a self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not connected to the hauling vehicle or paver.
3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.

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2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

Operate rollers in accordance with the manufacturer's recommendations. When requested by the Engineer, provide a Type 1 Working Drawing of the manufacturer's recommendation for the use of any roller planned for use on the project. Do not use rollers that crush aggregate, produce pickup or washboard, unevenly compact the surface, displace the mix, or produce other undesirable results.

5-04.3(4) Preparation of Existing Paved Surfaces

Before constructing HMA on an existing paved surface, the entire surface of the pavement shall be clean. Entirely remove all fatty asphalt patches, grease drippings, and other deleterious substances from the existing pavement to the satisfaction of the Engineer. Thoroughly clean all pavements or bituminous surfaces of dust, soil, pavement grindings, and other foreign matter. Thoroughly remove any cleaning or solvent type liquids used to clean equipment spilled on the pavement before paving proceeds. Fill all holes and small depressions with an appropriate class of HMA. Level and thoroughly compact the surface of the patched area.

Apply a uniform coat of asphalt (tack coat) to all paved surfaces on which any course of HMA is to be placed or abutted. Apply tack coat to cover the cleaned existing pavement with a thin film of residual asphalt free of streaks and bare spots. Apply a heavy application of tack coat to all joints. For Roadways open to traffic, limit the application of tack coat to surfaces that will be paved during the same working shift. Equip the spreading equipment with a thermometer to indicate the temperature of the tack coat material.

Do not operate equipment on tacked surfaces until the tack has broken and cured. Repair tack coat damaged by the Contractor's operation, prior to placement of the HMA.

Unless otherwise approved by the Engineer, use CSS-1, CSS-1h, or Performance Graded (PG) asphalt for tack coat. The CSS-1 and CSS-1h emulsified asphalt may be diluted with water at a rate not to exceed one part water to one part emulsified asphalt. Do not allow the tack coat material to exceed the maximum temperature recommended by the asphalt supplier.

When shown in the Plans, prelevel uneven or broken surfaces over which HMA is to be placed by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

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5-04.3(4)A Crack Sealing

5-04.3(4)A1 General

When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in width and greater.

Cleaning: Ensure that cracks are thoroughly clean, dry and free of all loose and foreign material when filling with crack sealant material. Use a hot compressed air lance to dry and warm the pavement surfaces within the crack immediately prior to filling a crack with the sealant material. Do not overheat pavement. Do not use direct flame dryers. Routing cracks is not required.

Sand Slurry: For cracks that are to be filled with sand slurry, thoroughly mix the components and pour the mixture into the cracks until full. Add additional CSS-1 emulsified asphalt to the sand slurry as needed for workability to ensure the mixture will completely fill the crack. Strike off the sand slurry flush with the existing pavement surface and allow the mixture to cure. Top off cracks that were not completely filled with additional sand slurry. Do not place the HMA overlay until the slurry has fully cured.

Hot Poured Sealant: For cracks that are to be filled with hot poured sealant, apply the material in accordance with these requirements and the manufacturer's recommendations. Furnish a Type 1 Working Drawing of the manufacturer's recommendations to the Engineer prior to the start of work, including the manufacturer's recommended heating time and temperatures, allowable storage time and temperatures after initial heating, allowable reheating criteria, and application temperature range. Confine hot poured sealant material within the crack. Clean any overflow of sealant from the pavement surface. If, in the opinion of the Engineer, the Contractor's method of sealing the cracks with hot poured sealant results in an excessive amount of material on the pavement surface, stop and correct the operation to eliminate the excess material.

5-04.3(4)A2 Crack Sealing Areas Prior to Paving

In areas where HMA will be placed, use sand slurry to fill the cracks.

5-04.3(4)A3 Crack Sealing Areas Not to be Paved

In areas where HMA will not be placed, fill the cracks as follows:

1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
2. Cracks greater than 1 inch in width – fill with sand slurry.

5-04.3(4)B Soil Residual Herbicide

Where shown in the Plans, apply one application of an approved soil residual herbicide. Comply with Section 8-02.3(3)B. Complete paving within 48 hours of applying the herbicide.

Use herbicide registered with the Washington State Department of Agriculture for use under pavement. Before use, obtain the Engineer's approval of the

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herbicide and the proposed rate of application. Include the following information in the request for approval of the material:

1. Brand Name of the Material,
2. Manufacturer,
3. Environmental Protection Agency (EPA) Registration Number,
4. Material Safety Data Sheet, and
5. Proposed Rate of Application.

5-04.3(4)C Pavement Repair

Excavate pavement repair areas and backfill these with HMA in accordance with the details shown in the Plans and as staked. Conduct the excavation operations in a manner that will protect the pavement that is to remain. Repair pavement not designated to be removed that is damaged as a result of the Contractor's operations to the satisfaction of the Engineer at no cost to the Contracting Agency. Excavate only within one lane at a time unless approved otherwise by the Engineer. Do not excavate more area than can be completely backfilled and compacted during the same shift.

Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0 feet. The Engineer will make the final determination of the excavation depth required.

The minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the Plans. Before any excavation, sawcut the perimeter of the pavement area to be removed unless the pavement in the pavement repair area is to be removed by a pavement grinder.

Excavated materials shall be the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

Apply a heavy application of tack coat to all surfaces of existing pavement in the pavement repair area, in accordance with Section 5-04.3(4).

Place the HMA backfill in lifts not to exceed 0.35-foot compacted depth. Thoroughly compact each lift by a mechanical tamper or a roller.

5-04.3(5) Producing/Stockpiling Aggregates, RAP, & RAS

Produce aggregate in compliance with Section 3-01. Comply with Section 3-02 for preparing stockpile sites, stockpiling, and removing from stockpile each of the following: aggregates, RAP, and RAS. Provide sufficient storage space for each size of aggregate, RAP and RAS. Fine aggregate or RAP may be uniformly blended with the RAS as a method of preventing the agglomeration of RAS particles. Remove the aggregates, RAP and RAS from stockpile(s) in a manner that ensures minimal segregation when being moved to the HMA plant for processing into the final mixture. Keep different aggregate sizes separated until they have been delivered to the HMA plant.

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5-04.3(5)A Stockpiling RAP or RAS for High RAP/Any RAS Mixes

Do not place any RAP or RAS into a stockpile which has been sequestered for a High RAP/Any RAS mix design. Do not incorporate any RAP or RAS into a High RAP/Any RAS mixture from any source other than the stockpile which was sequestered for approval of that particular High RAP/Any RAS mix design.

RAP that is used in a Low RAP/No RAS mix is not required to come from a sequestered stockpile.

5-04.3(6) Mixing

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

Anti-strip is not required for temporary work that will be removed prior to Physical Completion.

Use asphalt binder of the grade, and from the supplier, in the approved mix design.

Prior to introducing reclaimed materials into the asphalt plant, remove wire, nails, and other foreign material. Discontinue use of the reclaimed material if the Engineer, in their sole discretion, determines the wire, nails, or other foreign material to be excessive.

Size RAP and RAS prior to entering the mixer to provide uniform and thoroughly mixed HMA. If there is evidence of the RAP or RAS not breaking down during the heating and mixing of the HMA, immediately suspend the use of the RAP or RAS until changes have been approved by the Engineer.

After the required amount of mineral materials, RAP, RAS, new asphalt binder and recycling agent have been introduced into the mixer, mix the HMA until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials, RAP and RAS is ensured.

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

A maximum water content of 2 percent in the mix, at discharge, will be allowed providing the water causes no problems with handling, stripping, or flushing. If the water in the HMA causes any of these problems, reduce the moisture content.

During the daily operation, HMA may be temporarily held in approved storage facilities. Do not incorporate HMA into the Work that has been held for more

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than 24 hours after mixing. Provide an easily readable, low bin-level indicator on the storage facility that indicates the amount of material in storage. Waste the HMA in storage when the top level of HMA drops below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift. Dispose of rejected or waste HMA at no expense to the Contracting Agency.

5-04.3(7) Spreading and Finishing

Do not exceed the maximum nominal compacted depth of any layer in any course, as shown in Table 6, unless approved by the Engineer:

Table 6

Maximum Nominal Compacted Depth of Any Layer		
HMA Class	Wearing Course	Other than Wearing Course
1 inch	0.35 feet	0.35 feet
¾ and ½ inch	0.30 feet	0.35 feet
⅜ inch	0.15 feet	0.15 feet

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Use HMA pavers complying with Section 5-04.3(3) to distribute the mix. On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, place the material produced for each JMF with separate spreading and compacting equipment. Do not intermingle HMA produced from more than one JMF. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

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

Sample aggregate for meeting the requirements of Section 3-04 prior to being incorporated into HMA. (The acceptance data generated for the Section 3-04 acceptance analysis will not be commingled with the acceptance data generated for the Section 5-04.3(9) acceptance analysis.) Aggregate acceptance samples shall be taken as described in Section 3-04. Aggregate acceptance testing will be performed by the Contracting Agency. Aggregate contributed from RAP and/or RAS will not be evaluated under Section 3-04.

For aggregate that will be used in HMA mixture which will be accepted by either Statistical or Nonstatistical Evaluation, the Contracting Agency's acceptance of the aggregate will be based on:

1. Samples taken prior to mixing with asphalt binder, RAP, or RAS;
2. Testing for the materials properties of fracture, uncompacted void content, and sand equivalent;
3. Evaluation by the Contracting Agency in accordance with Section 3-04, including price adjustments as described therein.

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For aggregate that will be used in HMA which will be accepted by Visual Evaluation, evaluation in accordance with items 1, 2, and 3 above is at the discretion of the Engineer.

5-04.3(9) HMA Mixture Acceptance

The Contracting Agency will evaluate HMA mixture for acceptance by one of three methods as determined from the criteria in Table 7.

Table 7

Basis of Acceptance for HMA Mixture			
	Visual Evaluation	Nonstatistical Evaluation	Statistical Evaluation
Criteria for Selecting the Evaluation Method	<ul style="list-style-type: none"> • Commercial HMA placed at any location • Any HMA placed in: <ul style="list-style-type: none"> ○ sidewalks ○ road approaches ○ ditches ○ slopes ○ paths ○ trails ○ gores ○ prelevel ○ temporary pavement¹ ○ pavement repair • Other nonstructural applications of HMA as approved by the Engineer 	<ul style="list-style-type: none"> • All HMA mixture of the same class and PG binder grade with a Proposal quantity less than 4,000 tons. (Exclude the tonnage of HMA mixture accepted by Visual Evaluation.) 	<ul style="list-style-type: none"> • All HMA mixture other than that accepted by Visual or Nonstatistical Evaluation

¹ Temporary pavement is HMA that will be removed before Physical Completion of the Contract.

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5-04.3(9)A Mixture Acceptance – Test Section

This Section applies to HMA mixture accepted by Statistical Evaluation and mixture accepted by Nonstatistical Evaluation. A test section is not allowed for HMA accepted by Visual Evaluation.

The purpose of a test section is to determine, at the beginning of paving, whether or not the Contractor’s mix design and production processes will produce HMA meeting the Contract requirements related to mixture.

Use Table 8 to determine when a test section is required, optional, or not allowed, and to determine when test sections may end for an individual mix design. Each mix design will be evaluated independently for the test section requirements.

Construct HMA mixture test sections at the beginning of paving, using at least 600 tons and a maximum of 1,000 tons or as approved by the Engineer. Each test section shall be constructed in one continuous operation. Each test section shall be considered a lot. The mixture in each

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test section will be evaluated based on the criteria in Table 9 to determine if test sections for that mix design may stop.

If more than one test section is required, each test section shall be separately by the criteria in table 8 and 9.

Table 8

Criteria for Conducting and Evaluating HMA Mix Texture Sections (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)		
	High RAP/Any RAS	Low RAP/No RAS
Is Mixture Test Section Optional or Mandatory?	Mandatory ¹	At Contractor's Option ³
Waiting period after paving the test section.	4 calendar days ²	4 calendar days ²
What Must Happen to Stop Performing Test Sections?	Meet "Results Required to Stop Performing Test Sections" in Table 9 for High RAP/Any RAS.	Provide samples and respond to WSDOT test results required by Table 9 for Low RAP/No RAS.

¹If a mix design has produced an acceptable test section on a previous contract (paved in the same calendar year, from the same plant, using the same JMF) the test section may be waived if approved by the Engineer.

²This is to provide time needed by the Contracting Agency to complete testing and the Contractor to adjust the mixture in response to those test results. Paving may resume when this is done.

³For HMA with Low RAP/No RAS, which is accepted by Nonstatistical Evaluation, a test section is not allowed.

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Table 9

Results Required to Stop Performing HMA Mixture Test Sections¹ (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)		
Test Property	Type of HMA	
	High RAP/Any RAS	Low RAP/No RAS
Gradation	Minimum PF _i of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
Asphalt Binder	Minimum PF _i of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
V _a	Minimum PF _i of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
Hamburg Wheel Track Indirect Tensile Strength	Meet requirements of Section 9-03.8(2). ³	These tests will not be done as part of

		Test Section.
Sand Equivalent Uncompacted Void Content Fracture	Meet requirements of Section 9-03.8(2). ³	None ³

¹In addition to the requirements of this table, acceptance of the HMA mixture used in each test section is subject to the acceptance criteria and price adjustments for Statistical Evaluation or Non-statistical Evaluation (see Table 7).

²Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for all of the properties in the first column.

³Take one sample for each test section lot. Test the sample for all of the properties in the first column.

⁴Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for all of the properties in the first column. There are no criteria for discontinuing test sections for these mixes; however, the contractor must comply with Section 5-04.3(11)F before resuming paving.

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5-04.3(9)B Mixture Acceptance – Statistical Evaluation

5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots

HMA mixture which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing that HMA tonnage into mixture lots, and each mixture lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each mixture lot into mixture sublots. All mixture in a mixture lot shall be of the same mix design. The mixture sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each mixture lot comprises a maximum of 15 mixture sublots, except:

- The final mixture lot of each mix design on the Contract will comprise a maximum of 25 sublots.
- A mixture lot for a test section, which will consist of the three sublots and corresponding test results used in evaluating the test section for gradation, asphalt binder, and Va.

Each mixture subplot shall be approximately uniform in size with the maximum mixture subplot size as specified in Table 10. The quantity of material represented by the final mixture subplot of the project, for each mix design on the project, may be increased to a maximum of two times the mixture subplot quantity calculated. Should a lot accepted by statistical evaluation contain fewer than three sublots, the HMA will be accepted in accordance with nonstatistical evaluation.

Table 10

Maximum HMA Mixture Sublot Size For HMA Accepted by Statistical Evaluation	
HMA Original Plan Quantity (tons) ¹	Maximum Sublot Size (tons) ²
< 20,000	1,000

20,000 to 30,000	1,500
>30,000	2,000

¹ "Plan quantity" means the plan quantity of all HMA of the same class and binder grade which is accepted by Statistical Evaluation.

² The maximum subplot size for each combination of HMA class and binder grade shall be calculated separately.

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- For a mixture lot in progress with a mixture CPF less than 0.75, a new mixture lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.
- If, before completing a mixture lot, the Contractor requests a change to the JMF which is approved by the Engineer, the mixture produced in that lot after the approved change will be evaluated on the basis of the changed JMF, and the mixture produced in that lot before the approved change will be evaluated on the basis of the unchanged JMF; however, the mixture before and after the change will be evaluated in the same lot. Acceptance of subsequent mixture lots will be evaluated on the basis of the changed JMF.

5-04.3(9)B2 Mixture Statistical Evaluation – Sampling

Comply with Section 1-06.2(1).

Samples of HMA mixture which is accepted by Statistical Evaluation will be randomly selected from within each subplot, with one sample per subplot. The Engineer will determine the random sample location using WSDOT Test Method T 716. The Contractor shall obtain the sample when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with FOP for WAQTC T 168.

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

Comply with Section 1-06.2(1).

The Contracting Agency will test the mixture sample from each subplot (including sublots in a test section) for the properties shown in Table 11.

Table 11

Testing Required for each HMA Mixture Sublot		
Test	Procedure	Performed by
V _a	WSDOT SOP 731	Engineer
Asphalt Binder Content	FOP for AASHTO T 308	Engineer
Gradation: Percent Passing 1½", 1", ¾", ½", ⅜", No. 4, No. 8, No. 200	FOP for WAQTC T 27/T 11	Engineer

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The mixture samples and tests taken for the purpose of determining acceptance of the test section (as described in Section 5-04.3(9)A) shall also be used as the test results for acceptance of the mixture described in 5-04.3(9)B3, 5-04.3(9)B4, 5-04.3(9)B5, and 5-04.3(9)B6.

5-04.3(9)B4 Mixture Statistical Evaluation – Pay Factors
Comply with Section 1-06.2(2).

The Contracting Agency will determine a pay factor (PF_i) for each of the properties in Table 11, for each mixture lot, using the quality level analysis in Section 1-06.2(2)D. For Gradation, a pay factor will be calculated for each of the sieve sizes listed in Table 11 which is equal to or smaller than the maximum allowable aggregate size (100 percent passing sieve) of the HMA mixture. The USL and LSL shall be calculated using the Job Mix Formula Tolerances (for Statistical Evaluation) in Section 9-03.8(7).

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

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

Comply with Section 1-06.2(2).

In accordance with Section 1-06.2(2)D4, the Contracting Agency will determine a Composite Pay Factor (CPF) for each mixture lot from the pay factors calculated in Section 5-04.3(9)B4, using the price adjustment factors in Table 12. Unless otherwise specified, the maximum CPF for HMA mixture shall be 1.05.

Table 12

HMA Mixture Price Adjustment Factors	
Constituent	Factor “f”
All aggregate passing: 1½", 1", ¾", ½", ⅜" and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (V _a)	20

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5-04.3(9)B6 Mixture Statistical Evaluation – Price Adjustments

For each HMA mixture lot, a Job Mix Compliance Price Adjustment will be determined and applied, as follows:

$$JMCPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$$

Where

$$JMCPA = \text{Job Mix Compliance Price Adjustment for a given lot of mixture (\$)}$$

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CPF = Composite Pay factor for a given lot of mixture
(maximum is 1.05)
Q = Quantity in a given lot of mixture (tons)
UP = Unit price of the HMA in a given lot of mixture (\$/ton)

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

The Contractor may request that a mixture subplot be retested. To request a retest, submit a written request to the Contracting Agency within 7 calendar days after the specific test results have been posted to the website or emailed to the Contractor, whichever occurs first. The Contracting Agency will send a split of the original acceptance sample for testing by the Contracting Agency to either the Region Materials Laboratory or the State Materials Laboratory as determined by the Engineer. The Contracting Agency will not test the split of the sample with the same equipment or by the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and V_a , and the results of the retest will be used for the acceptance of the HMA mixture in place of the original mixture subplot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of \$250 per sample.

5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation

5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots, Sublots, Sampling, Test Section, Testing, Retests

For HMA mixture accepted by Nonstatistical Evaluation, comply with the requirements in Table 13:

Table 13

Nonstatistical Evaluation Lots, Sublots, Sampling, Test Section, Testing, Retests		
Comply with the Specifications Below		Comply with the Requirements of the Section for:
Test Section	Section 5-04.3(9)A	Nonstatistical Evaluation
Lots and Sublots	Section 5-04.3(9)B1	Statistical Evaluation
Sampling	Section 5-04.3(9)B2	Statistical Evaluation
Acceptance Tests	Section 5-04.3(9)B3	Statistical Evaluation
Retests	Section 5-04.3(9)B7	Statistical Evaluation

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5-04.3(9)C2 Mixture Nonstatistical Evaluation - Acceptance

Each mixture lot of HMA produced under Nonstatistical Evaluation, for which all subplot acceptance test results (required by Table 13) fall within the Job Mix Formula Tolerances for Nonstatistical Evaluation in Section 9-03.8(7), will be accepted at the unit Contract price with no further evaluation.

5-04.3(9)C3 Mixture Nonstatistical Evaluation – Out of Tolerance Procedures

Each mixture lot of HMA produced under Nonstatistical Evaluation, for which any subplot acceptance test result (required by Table 13)

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falls outside of the Job Mix Formula Tolerances for Nonstatistical Evaluation in Section 9-03.8(7), shall be evaluated in accordance with Section 1-06.2 and Table 14 to determine a Job Mix Compliance Price Adjustment.

Table 14

Nonstatistical Evaluation – Out of Tolerance Procedures	
Comply with the Following ¹	
Pay Factors ²	Section 5-04.3(9)B4
Composite Pay Factors ³	Section 5-04.3(9)B5
Price Adjustments	Section 5-04.3(9)B6

¹When less than three mixture sublots exist, backup samples of the existing mixture sublots shall be tested to provide a minimum of three sets of results for evaluation. If enough backup samples are not available, the Contracting Agency will select core sample locations from the Roadway in accordance with WSDOT Test Method T 716, take cores from the roadway in accordance with WSDOT SOP 734, and test the cores in accordance with WSDOT SOP 737.

²The Nonstatistical Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF.

³The maximum CPF shall be 1.00.

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5-04.3(9)D Mixture Acceptance – Visual Evaluation

Visual Evaluation of HMA mixture will be by visual inspection by the Engineer or, in the sole discretion of the Engineer, the Engineer may sample and test the mixture.

5-04.3(9)D1 Mixture Visual Evaluation – Lots, Sampling, Testing, Price Adjustments

HMA mixture accepted by Visual Evaluation will not be broken into lots unless the Engineer determines that testing is required. When that occurs, the Engineer will identify the limits of the questionable HMA mixture, and that questionable HMA mixture shall constitute a lot. Then, the Contractor will take samples from the truck, or the Engineer will take core samples from the roadway at a minimum of three random locations from within the lot, selected in accordance with WSDOT Test Method T 716, taken from the roadway in accordance with WSDOT SOP 734, and tested in accordance with WSDOT SOP 737. The Engineer will test one of the samples for all constituents in Section 5-04.3(9)B3. If all constituents from that test fall within the Job Mix Formula Tolerances (for Visual Evaluation) in Section 9-03.8(7), the lot will be accepted at the unit Contract price with no further evaluation.

When one or more constituents fall outside those tolerance limits, the other samples will be tested for all constituents in Section 5-04.3(9)B3, and a Job Mix Compliance Price Adjustment will be calculated in accordance with Table 15.

Table 15

Visual Evaluation – Out of Tolerance Procedures	
Comply with the Following	
Pay Factors ¹	Section 5-04.3(9)B4
Composite Pay Factors ²	Section 5-04.3(9)B5
Price Adjustments	Section 5-04.3(9)B6

¹The Visual Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF_i.

²The maximum CPF shall be 1.00.

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5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results

The results of all mixture acceptance testing and the Composite Pay Factor (CPF) of the lot after three sublots have been tested will be available to the Contractor through The Contracting Agency’s website.

The Contracting Agency will endeavor to provide written notification (via email to the Contractor’s designee) of acceptance test results through its web-based materials testing system Statistical Analysis of Materials (SAM) within 24 hours of the sample being made available to the Contracting Agency. However, the Contractor agrees:

1. Quality control, defined as the system used by the Contractor to monitor, assess, and adjust its production processes to ensure that the final HMA mixture will meet the specified level of quality, is the sole responsibility of the Contractor.
2. The Contractor has no right to rely on any testing performed by the Contracting Agency, nor does the Contractor have any right to rely on timely notification by the Contracting Agency of the Contracting Agency’s test results (or statistical analysis thereof), for any part of quality control and/or for making changes or correction to any aspect of the HMA mixture.
3. The Contractor shall make no claim for untimely notification by the Contracting Agency of the Contracting Agency’s test results or statistical analysis.

5-04.3(10) HMA Compaction Acceptance

For all HMA, the Contractor shall comply with the General Compaction Requirements in Section 5-04.3(10)A. The Contracting Agency will evaluate all HMA for compaction compliance with one of the following - Statistical Evaluation, Visual Evaluation, or Test Point Evaluation - determined by the criteria in Table 16:

Table 16

Criteria for Determining Method of Evaluation for HMA Compaction¹		
Statistical Evaluation of HMA Compaction is Required For:	Visual Evaluation of HMA Compaction is Required For:	Test Point Evaluation of HMA Compaction is Required For:

<ul style="list-style-type: none"> • Any HMA for which the specified course thickness is greater than 0.10 feet, and the HMA is in: <ul style="list-style-type: none"> ○ traffic lanes, including but not limited to: <ul style="list-style-type: none"> • ramp lanes • truck climbing lanes • weaving lanes • speed change lanes 	<ul style="list-style-type: none"> • “HMA for Preleveling...” • “HMA for Pavement Repair...” 	<ul style="list-style-type: none"> • Any HMA not meeting the criteria for Statistical Evaluation or Visual Evaluation
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¹This table applies to all HMA, and shall be the sole basis for determining the acceptance method for compaction.

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The Contracting Agency may, at its sole discretion, evaluate any HMA for compliance with the Cyclic Density requirements of Section 5-04.3(10)B.

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

Immediately after the HMA has been spread and struck off, and after surface irregularities have been adjusted, thoroughly and uniformly compact the mix. The completed course shall be free from ridges, ruts, humps, depressions, objectionable marks, and irregularities and shall conform to the line, grade, and cross-section shown in the Plans. If necessary, alter the JMF in accordance with Section 9-03.8(7) to achieve desired results.

Compact the mix when it is in the proper condition so that no undue displacement, cracking, or shoving occurs. Compact areas inaccessible to large compaction equipment by mechanical or hand tampers. Remove HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective. Replace the removed material with new HMA, and compact it immediately to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor’s option, provided the specified densities are attained. An exception shall be that pneumatic tired rollers shall be used for compaction of the wearing course beginning October 1st of any year through March 31st of the following year. Coverage with a steel wheel roller may precede pneumatic tired rolling. Unless otherwise approved by the Engineer, operate rollers in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, do not operate a roller in a mode that results in checking or cracking of the mat.

On bridge decks and on the five feet of roadway approach immediately adjacent to the end of bridge/back of pavement seat, operate rollers in static mode only.

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

Low cyclic density areas are defined as spots or streaks in the pavement that are less than 90 percent of the theoretical maximum density. At the Engineer’s discretion, the Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will follow WSDOT SOP 733. A \$500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two or more density readings below 90 percent of the theoretical maximum density.

5-04.3(10)C HMA Compaction Acceptance – Statistical Evaluation

HMA compaction which is accepted by Statistical Evaluation will be based on acceptance testing performed by the Contracting Agency, and statistical analysis of those acceptance tests results. This will result in a Compaction Price Adjustment.

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

HMA compaction which is accepted by Statistical Evaluation will be evaluated by the Contracting Agency dividing the project into compaction lots, and each compaction lot will be evaluated using stratified random sampling by the Contracting Agency sub-dividing each compaction lot into compaction sublots. All mixture in any individual compaction lot shall be of the same mix design. The compaction sublots will be numbered in the order in which the mixture (of a particular mix design) is paved.

Each compaction lot comprises a maximum of 15 compaction sublots, except for the final compaction lot of each mix design on the Contract, which comprises a maximum of 25 sublots.

Each compaction subplot shall be uniform in size as shown in Table 17, except that the last compaction subplot of each day may be increased to a maximum of two times the compaction subplot quantity calculated. Minor variations in the size of any subplot shall not be cause to invalidate the associated test result.

Table 17

HMA Compaction Sublot Size	
HMA Original Plan Quantity (tons) ¹	Compaction Sublot Size (tons)
<20,000	100
20,000 to 30,000	150
>30,000	200

¹ In determining the plan quantity tonnage, do not include any tons accepted by test point evaluation.

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The following will cause one compaction lot to end prematurely and a new compaction lot to begin:

- For a compaction lot in progress with a compaction CPF less than 0.75, a new compaction lot will begin at the Contractor’s request after the Engineer is satisfied that

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material conforming to the Specifications can be produced.
See also Section 5-04.3(11)F.

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

Comply with Section 1-06.2(1).

The location of HMA compaction acceptance tests will be randomly selected by the Contracting Agency from within each subplot, with one test per subplot. The Contracting Agency will determine the random sample location using WSDOT Test Method T 716.

Use Table 18 to determine compaction acceptance test procedures and to allocate compaction acceptance sampling and testing responsibilities between the Contractor and the Contracting Agency. Roadway cores shall be taken or nuclear density testing shall occur after completion of the finish rolling, prior to opening to traffic, and on the same day that the mix is placed.

Table 18

HMA Compaction Acceptance Testing Procedures and Responsibilities			
	When Contract Includes Bid Item "Roadway Cores"	When Contract Does Not Include Bid Item "Roadway Cores"	
Basis for Test:	Roadway Cores	Roadway Cores ³	Nuclear Density Gauge ³
In-Place Density Determined by:	Contractor shall take cores ¹ using WSDOT SOP 734 ² <hr/> Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency will take cores ¹ using WSDOT SOP 734 <hr/> Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency, using FOP for WAQTC TM 8
Theoretical Maximum Density Determined by:	Contracting Agency, using FOP for AASHTO T 209		
Rolling Average of Theoretical Maximum Densities Determined by:	Contracting Agency, using WSDOT SOP 729		
Percent	Contracting	Contracting	Contracting

Compaction in Each Sublot Determined by:	Agency, using WSDOT SOP 736	Agency, using WSDOT SOP 736	Agency, using FOP for WAQTC TM 8
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¹The core diameter shall be 4-inches unless otherwise approved by the Engineer.

²The Contractor shall take the core samples in the presence of the Engineer, at locations designated by the Engineer, and deliver the core samples to the Contracting Agency.

³The Contracting Agency will determine, in its sole discretion, whether it will take cores or use the nuclear density gauge to determine in-place density. Exclusive reliance on cores for density acceptance is generally intended for small paving projects and is not intended as a replacement for nuclear gauge density testing on typical projects.

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When using the nuclear density gauge for acceptance testing of pavement density, the Engineer will follow WSDOT SOP 730 for correlating the nuclear gauge with HMA cores. When cores are required for the correlation, coring and testing will be by the Contracting Agency. When a core is taken for gauge correlation at the location of a subplot, the relative density of the core will be used for the subplot test result and is exempt from retesting.

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

For each HMA compaction lot (that is accepted by Statistical Evaluation) which has less than three compaction sublots, for which all compaction sublots attain a minimum of 91 percent compaction determined in accordance with FOP for WAQTC TM 8 (or WSDOT SOP 736 when provided by the Contract), the HMA will be accepted at the unit Contract price with no further evaluation.

For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in accordance with Section 1-06.2(2) to determine the appropriate Compaction Price Adjustment (CPA). All of the test results obtained from the acceptance samples from a given compaction lot shall be evaluated collectively. Additional testing by either a nuclear density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For the statistical analysis in Section 1-06.2, use the following values:

- x = Percent compaction of each subplot
- USL = 100
- LSL = 91

Each CPA will be determined as follows:

$$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$$

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- CPA = Compaction Price Adjustment for the compaction lot (\$)
- CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
- Q = Quantity in the compaction lot (tons)
- UP = Unit price of the HMA in the compaction lot (\$/ton)

5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting

For a compaction subplot that has been tested with a nuclear density gauge that did not meet the minimum of 91 percent of the theoretical maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core, taken at the same location as the nuclear density test, be used for determination of the relative density of the compaction subplot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the compaction subplot and will be used for calculation of the CPF and acceptance of HMA compaction lot. When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the compaction subplot have been provided or made available to the Contractor. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for retesting. When the CPF for the compaction lot based on the results of the cores is less than 1.00, the Contracting Agency will deduct the cost for the coring from any monies due or that may become due the Contractor under the Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the traffic control.

5-04.3(10)D HMA Compaction – Visual Evaluation

Visual Evaluation will be the basis of acceptance for compaction of the Bid items “HMA for Pavement Repair Cl. ___ PG ___” and “HMA for Prelevelling Class ___ PG ___”. This HMA shall be thoroughly compacted to the satisfaction of the Engineer. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller.

5-04.3(10)E HMA Compaction – Test Point Evaluation

When compaction acceptance is by Test Point Evaluation, compact HMA based on a test point evaluation of the compaction train. Perform the test point evaluation in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

5-04.3(10)F HMA Compaction Acceptance – Notification of Acceptance Test Results

The obligations and responsibilities for notifying the Contractor of compaction acceptance test results are the same as for mixture acceptance test results. See Section 5-04.3(9)E.

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5-04.3(11) Reject Work

This Section applies to HMA and all requirements related to HMA (except aggregates prior to being incorporated into HMA). For rejection of aggregate prior to its incorporation into HMA refer to Section 3-04.

5-04.3(11)A Reject Work – General

Work that is defective or does not conform to Contract requirements shall be rejected.

5-04.3(11)B Rejection by Contractor

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

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

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

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests the rejected material to be tested. If the Contractor requests testing, acceptance will be by Statistical Evaluation, and a minimum of three samples will be obtained and tested. When uncompacted material is required for testing but not available, the Engineer will determine random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores in accordance with WSDOT SOP 734, and test the cores in accordance with WSDOT SOP 737.

If the CPF for the rejected material is less than 0.75, no payment will be made for the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the material is rejected before placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at the calculated CPF with an addition of 25 percent of the unit Contract price added for the cost of removal and disposal.

5-04.3(11)D Rejection – A Partial Sublot (Mixture or Compaction)

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a mixture or compaction sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. The Contracting Agency will obtain a minimum of three random samples of the suspect material and perform the testing. When uncompacted material is required for testing but is not available, the Engineer will select random sample locations on the roadway in accordance with WSDOT Test Method T 716, take cores samples in accordance with WSDOT SOP 734, and test the material in accordance

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with WSDOT SOP 737. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)E Rejection – An Entire Sublot (Mixture or Compaction)

An entire mixture or compaction sublot that is suspected of being defective may be rejected. When this occurs, a minimum of two additional random samples from this sublot will be obtained. When uncompacted material is required for the additional samples but the material has been compacted, the Contracting Agency will take and test cores from the roadway as described in Section 5-04.3(11)D. The additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)F Rejection - A Lot in Progress (Mixture or Compaction)

The Contractor shall shut down operations and shall not resume HMA placement until such time as the Engineer is satisfied that material conforming to the Specifications can be produced when:

1. the Composite Pay Factor (CPF) of a mixture or compaction lot in progress drops below 1.00 and the Contractor is taking no corrective action, or
2. the Pay Factor (PF_i) for any constituent of a mixture or compaction lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. either the PF_i for any constituent (or the CPF) of a mixture or compaction lot in progress is less than 0.75.

5-04.3(11)G Rejection – An Entire Lot (Mixture or Compaction)

An entire lot with a CPF of less than 0.75 will be rejected.

5-04.3(12) Joints

5-04.3(12)A Transverse Joints

Conduct operations such that placement of the top or wearing course is a continuous operation or as close to continuous as possible. Unscheduled transverse joints will be allowed, but the roller may pass over the unprotected end of the freshly laid HMA only when the placement of the course is discontinued for such a length of time that the HMA will cool below compaction temperature. When the Work is resumed, cut back the previously compacted HMA to produce a slightly beveled edge for the full thickness of the course.

Construct a temporary wedge of HMA on a 50H:1V where a transverse joint as a result of paving or planing is open to traffic. Separate the HMA in the temporary wedge from the permanent HMA upon which it is placed by strips of heavy wrapping paper or other methods approved by the Engineer. Remove the wrapping paper and trim the joint to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

1 Waste the material that is cut away and place new HMA against the cut.
2 Use rollers or tamping irons to seal the joint.
3

4 **5-04.3(12)B Longitudinal Joints**

5 Offset the longitudinal joint in any one course from the course immediately
6 below by not more than 6 inches nor less than 2 inches. Locate all
7 longitudinal joints constructed in the wearing course at a lane line or an
8 edge line of the Traveled Way. Construct a notched wedge joint along all
9 longitudinal joints in the wearing surface of new HMA unless otherwise
10 approved by the Engineer. The notched wedge joint shall have a vertical
11 edge of not less than the maximum aggregate size nor more than ½ of the
12 compacted lift thickness, and then taper down on a slope not steeper than
13 4H:1V. Uniformly compact the sloped portion of the HMA notched wedge
14 joint.
15

16 On one-lane ramps a longitudinal joint may be constructed at the center of
17 the traffic lane, subject to approval by the Engineer, if:

- 18 1. The ramp must remain open to traffic, or
- 19 2. The ramp is closed to traffic and a hot-lap joint is constructed.
 - 20 a. Two paving machines shall be used to construct the hot-lap
21 joint.
22
 - 23 b. The pavement within 6 inches of the hot-lap joint will not be
24 excluded from random location selection for compaction
25 testing.
26
 - 27 c. Construction equipment other than rollers shall not operate
28 on any uncompacted HMA.
29

30 When HMA is placed adjacent to cement concrete pavement, construct
31 longitudinal joints between the HMA and the cement concrete pavement.
32 Saw the joint to the dimensions shown on Standard Plan A-40.10 and fill
33 with joint sealant meeting the requirements of Section 9-04.2.
34

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

36 The completed surface of all courses shall be of uniform texture, smooth,
37 uniform as to crown and grade, and free from defects of all kinds. The
38 completed surface of the wearing course shall not vary more than ¼ inch from
39 the lower edge of a 10-foot straightedge placed on the surface parallel to the
40 centerline. The transverse slope of the completed surface of the wearing
41 course shall vary not more than ¼ inch in 10 feet from the rate of transverse
42 slope shown in the Plans.
43

44 When deviations in excess of the above tolerances are found that result from
45 a high place in the HMA, correct the pavement surface by one of the
46 following methods:
47

- 48 1. Remove material from high places by grinding with an approved
49 grinding machine, or
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2. Remove and replace the wearing course of HMA, or
3. By other method approved by the Engineer.

Correct defects until there are no deviations anywhere greater than the allowable tolerances.

Deviations in excess of the above tolerances that result from a low place in the HMA and deviations resulting from a high place where corrective action, in the opinion of the Engineer, will not produce satisfactory results will be accepted with a price adjustment. The Engineer shall deduct from monies due or that may become due to the Contractor the sum of \$500.00 for each and every section of single traffic lane 100 feet in length in which any excessive deviations described above are found.

When portland cement concrete pavement is to be placed on HMA, the surface tolerance of the HMA shall be such that no surface elevation lies above the Plan grade minus the specified Plan depth of portland cement concrete pavement. Prior to placing the portland cement concrete pavement, bring any such irregularities to the required tolerance by grinding or other means approved by the Engineer.

When utility appurtenances such as manhole covers and valve boxes are located in the Traveled Way, pave the Roadway before the utility appurtenances are adjusted to the finished grade.

5-04.3(14) Planing Bituminous Pavement

Plane in such a manner that the underlying pavement is not torn, broken, or otherwise damaged by the planing operation. Delamination or raveling of the underlying pavement will not be construed as damage due to the Contractor's operations. Pavement outside the limits shown in the Plans or designated by the Engineer that is damaged by the Contractor's operations shall be repaired to the satisfaction of the Engineer at no additional cost to the Contracting Agency.

For mainline planing operations, use equipment with automatic controls and with sensors for either or both sides of the equipment. The controls shall be capable of sensing the grade from an outside reference line, or a mat-referencing device. The automatic controls shall have a transverse slope controller capable of maintaining the mandrel at the desired transverse slope (expressed as a percentage) within plus or minus 0.1 percent.

Remove all loose debris from the planed surface before opening the planed surface to traffic. The planings and other debris resulting from the planing operation shall become the property of the Contractor and be disposed of in accordance with Section 2-03.3(7)C, or as otherwise allowed by the Contract.

5-04.3(15) Sealing Pavement Surfaces

Apply a fog seal where shown in the Plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

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5-04.3(16) HMA Road Approaches

Construct HMA approaches at the locations shown in the Plans or where staked by the Engineer, in accordance with Section 5-04.

5-04.4 Measurement

HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the HMA. If the Contractor elects to remove and replace HMA as allowed by Section 5-04.3(11), the material removed will not be measured.

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

Crack Sealing-LF will be measured by the linear foot along the line of the crack.

Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01 mile or by the square yard, whichever is designated in the Proposal.

Pavement repair excavation will be measured by the square yard of surface marked prior to excavation.

Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

Longitudinal joint seals between the HMA and cement concrete pavement will be measured by the linear foot along the line and slope of the completed joint seal.

Planing bituminous pavement will be measured by the square yard.

Temporary pavement marking will be measured by the linear foot as provided in Section 8-23.4.

Water will be measured by the M gallon as provided in Section 2-07.4.

5-04.5 Payment

Payment will be made for each of the following Bid items that are included in the Proposal:

“HMA Cl. ___ PG ___”, per ton.

“HMA for Approach Cl. ___ PG ___”, per ton.

“HMA for Preleveling Cl. ___ PG ___”, per ton.

“HMA for Pavement Repair Cl. ___ PG ___”, per ton.

“Commercial HMA”, per ton.

The unit Contract price per ton for “HMA Cl. ___ PG ___”, “HMA for Approach Cl. ___ PG ___”, “HMA for Preleveling Cl. ___ PG ___”, “HMA for Pavement Repair Cl. ___ PG ___”, and “Commercial HMA” shall be full compensation for all costs, including anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

“Crack Sealing-FA”, by force account.

1 "Crack Sealing-FA" will be paid for by force account as specified in Section 1-09.6.
2 For the purpose of providing a common Proposal for all Bidders, the Contracting
3 Agency has entered an amount in the Proposal to become a part of the total Bid by
4 the Contractor.
5
6 "Crack Sealing-LF", per linear foot.
7 The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment
8 for all costs incurred to perform the Work described in Section 5-04.3(4)A.
9
10 "Soil Residual Herbicide ____ ft. Wide", per mile, or
11 "Soil Residual Herbicide", per square yard.
12 The unit Contract price per mile or per square yard for "Soil Residual Herbicide"
13 shall be full payment for all costs incurred to obtain, provide and install herbicide in
14 accordance with Section 5-04.3(4)B.
15
16 "Pavement Repair Excavation Incl. Haul", per square yard.
17 The unit Contract price per square yard for "Pavement Repair Excavation Incl.
18 Haul" shall be full payment for all costs incurred to perform the Work described in
19 Section 5-04.3(4)C with the exception, however, that all costs involved in the
20 placement of HMA shall be included in the unit Contract price per ton for "HMA for
21 Pavement Repair Cl. ____ PG ____", per ton.
22
23 "Asphalt for Fog Seal", per ton.
24 Payment for "Asphalt for Fog Seal" is described in Section 5-02.5.
25
26 "Longitudinal Joint Seal", per linear foot.
27 The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full
28 payment for all costs incurred to construct the longitudinal joint between HMA and
29 cement concrete pavement, as described in Section 5-04.3(12)B.
30
31 "Planing Bituminous Pavement", per square yard.
32 The unit Contract price per square yard for "Planing Bituminous Pavement" shall be
33 full payment for all costs incurred to perform the Work described in Section 5-
34 04.3(14).
35
36 "Temporary Pavement Marking", per linear foot.
37 Payment for "Temporary Pavement Marking" is described in Section 8-23.5.
38
39 "Water", per M gallon.
40 Payment for "Water" is described in Section 2-07.5.
41
42 "Job Mix Compliance Price Adjustment", by calculation.
43 "Job Mix Compliance Price Adjustment" will be calculated and paid for as described
44 in Section 5-04.3(9)B6, 5-04.3(9)C3, and 5-04.3(9)D1.
45
46 "Compaction Price Adjustment", by calculation.
47 "Compaction Price Adjustment" will be calculated and paid for as described in
48 Section 5-04.3(10)C3.
49
50 "Roadway Core", per each.

1 The Contractor's costs for all other Work associated with the coring (e.g., traffic
2 control) shall be incidental and included within the unit Bid price per each and no
3 additional payments will be made.
4
5 "Cyclic Density Price Adjustment", by calculation.
6 "Cyclic Density Price Adjustment" will be calculated and paid for as described in
7 Section 5-04.3(10)B.
8
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10 **6-02.AP6**

11 **Section 6-02, Concrete Structures**
12 **April 4, 2016**

13 **6-02.3(2)A Contractor Mix Design**

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

15
16 The mix design submittal shall also include test results no older than one year showing
17 that the Aggregates do not contain Deleterious Substances in accordance with Section
18 9-03.
19

20 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

21 The following new sentence is inserted after the second sentence of the last paragraph:

22
23 Mix designs using shrinkage reducing admixture shall state the specific quantity
24 required.
25

26 The following new sentence is inserted before the last sentence of the last paragraph:

27
28 Testing samples of mixes using shrinkage reducing admixture shall use the admixture
29 amount specified in the mix design submittal.
30

31 **6-02.3(2)B Commercial Concrete**

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

33
34 Commercial concrete does not require mix design or source approvals for cement,
35 aggregate, and other admixtures.
36

37 **6-02.3(26)D2 Test Block Dimensions**

38 The first sentence is revised to read:

39
40 The dimensions of the test block perpendicular to the tendon in each direction shall be
41 the smaller of twice the minimum edge distance or the minimum spacing specified by
42 the special anchorage device manufacturer, with the stipulation that the concrete cover
43 over any confining reinforcing steel or supplementary skin reinforcement shall be
44 appropriate for the project-specific application and circumstances.
45

46 **6-02.3(27)A Use of Self-Consolidating Concrete for Precast Units**

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

- 48
49 2. Precast reinforced concrete three-sided structures, box culverts and split box
50 culverts in accordance with Section 7-02.3(6).

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6-09.AP6

**Section 6-09, Modified Concrete Overlays
April 4, 2016**

**6-09.3(8)A Quality Assurance for Microsilica Modified and Fly Ash Modified
Concrete Overlays**

The first sentence of the first paragraph is revised to read the following two new sentences:

The Engineer will perform slump, temperature, and entrained air tests for acceptance in accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor has turned over the concrete for acceptance testing. Concrete samples for testing shall be supplied to the Engineer in accordance with Section 6-02.3(5)E.

The last paragraph is deleted.

6-09.3(8)B Quality Assurance for Latex Modified Concrete Overlays

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

The Engineer will perform slump, temperature, and entrained air tests for acceptance in accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor has turned over the concrete for acceptance testing. The Engineer will perform testing as the concrete is being placed. Samples shall be taken on the first charge through each mobile mixer and every other charge thereafter. The sample shall be taken after the first 2 minutes of continuous mixer operation. Concrete samples for testing shall be supplied to the Engineer in accordance with Section 6-02.3(5)E.

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

Recommendations made by the technical representative on or off the jobsite shall be adhered to by the Contractor.

6-14.AP6

**Section 6-14, Geosynthetic Retaining Walls
January 4, 2016**

6-14.5 Payment

The bid item "Concrete Fascia Panel", per square foot, and the paragraph following this bid item are revised to read:

"Concrete Fascia Panel For Geosynthetic Wall", per square foot.

All costs in connection with constructing the concrete fascia panels as specified shall be included in the unit Contract price per square foot for "Concrete Fascia Panel For Geosynthetic Wall", including all steel reinforcing bars, premolded joint filler, polyethylene bond breaker strip, joint sealant, PVC pipe for weep holes, exterior surface finish, and pigmented sealer (when specified), constructing and placing the concrete footing, edge beam, anchor beam, anchor rod assembly, and backfill.

1 **6-19.AP6**

2 **Section 6-19, Shafts**
3 **January 4, 2016**

4 **6-19.4 Measurement**

5 The first paragraph is revised to read:

6

7 Soil excavation for shaft, including haul, will be measured by the cubic yards of shaft
8 excavated. The cubic yards will be computed using the shaft diameter, top of shaft
9 elevation and bottom of shaft elevation shown in the Plans, less all rock excavation
10 measured as specified for rock excavation. Excavation between the existing ground
11 line and the top of shaft elevation is considered incidental to soil excavation for shaft
12 and will not be measured.

13

14 The second paragraph is deleted.

15

16 **6-19.5 Payment**

17 The paragraph following the bid item "Soil Excavation For Shaft Including Haul", per cubic
18 yard is revised to read:

19

20 The unit Contract price per cubic yard for "Soil Excavation For Shaft Including Haul"
21 shall be full pay for performing the work as specified, including all costs in connection
22 with furnishing, mixing, placing, maintaining, containing, collecting, and disposing of all
23 mineral, synthetic, and water slurry, and disposing of groundwater collected by the shaft
24 excavation, and the incidental excavation of soils between the top of shaft elevation
25 shown in the Plans and the existing ground line.

26

27 **8-01.AP8**

28 **Section 8-01, Erosion Control and Water Pollution Control**
29 **April 4, 2016**

30 **8-01.2 Materials**

31 This section is supplemented with the following new paragraph:

32

33 Recycled concrete, in any form, shall not be used for any Work defined in Section 8-01.

34

35 **8-01.3(8) Street Cleaning**

36 This section is revised to read:

37

38 Self-propelled street sweepers shall be used to remove and collect sediment and other
39 debris from the Roadway, whenever required by the Engineer. The street sweeper shall
40 effectively collect these materials and prevent them from being washed or blown off the
41 Roadway or into waters of the State. Street sweepers shall not generate fugitive dust
42 and shall be designed and operated in compliance with applicable air quality standards.

43

44 Material collected by the street sweeper shall be disposed of in accordance with Section
45 2-03.3(7)C.

46

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

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8-10.AP8

**Section 8-10, Guide Posts
January 4, 2016**

8-10.3 Construction Requirements

The last sentence of the second paragraph is deleted.

8-20.AP8

**Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation
Systems, and Electrical
April 4, 2016**

8-20.3(5)A General

The last paragraph is revised to read:

Immediately after the sizing mandrel has been pulled through, install an equipment grounding conductor if applicable (see Section 8-20.3(9)) and any new or existing wire or cable as specified in the Plans. Where conduit is installed for future use, install a 200-pound minimum tensile strength pull string with the equipment grounding conductor. The pull string shall be attached to duct plugs or caps at both ends of the conduit.

8-20.3(5)A1 Fiber Optic Conduit

The last paragraph is deleted.

8-20.3(5)D Conduit Placement

Item number 2 is revised to read:

- 2. 24-inches below the top of the untreated surfacing on a Roadbed.

8-20.3(9) Bonding, Grounding

The following two new paragraphs are inserted after the first paragraph:

Install an equipment grounding conductor in all new conduit, whether or not the equipment grounding conductor is called for in the wire schedule.

For each new conduit with innerduct install an equipment grounding conductor in only one of the innerducts unless otherwise required by the NEC or the Plans.

The fourth paragraph (after the preceding Amendments are applied) is revised to read:

Bonding jumpers and equipment grounding conductors meeting the requirements of Section 9-29.3(2)A3 shall be minimum #8 AWG, installed in accordance with the NEC. Where existing conduits are used for the installation of new circuits, an equipment grounding conductor shall be installed unless an existing equipment ground conductor, which is appropriate for the largest circuit, is already present in the existing raceway. The equipment ground conductor between the isolation switch and the sign lighter fixtures shall be minimum #14 AWG stranded copper conductor. Where parallel circuits

1 are enclosed in a common conduit, the equipment-grounding conductor shall be sized
2 by the largest overcurrent device serving any circuit contained within the conduit.
3

4 The second sentence of the fifth paragraph (after the preceding Amendments are applied) is
5 revised to read:
6

7 A non-insulated stranded copper conductor, minimum #8 AWG with a full circle crimp
8 on connector (crimped with a manufacturer recommended crimper) shall be connected
9 to the junction box frame or frame bonding stud, the other end shall be crimped to the
10 equipment bonding conductor, using a "C" type crimp connector.
11

12 The last two sentences of the sixth paragraph (after the preceding Amendments are applied)
13 are revised to read:
14

15 For light standards, signal standards, cantilever and sign bridge Structures the
16 supplemental grounding conductor shall be #4 AWG non-insulated stranded copper
17 conductor. For steel sign posts which support signs with sign lighting or flashing
18 beacons the supplemental grounding conductor shall be #6 AWG non insulated
19 stranded copper conductor.
20

21 The fourth to last paragraph is revised to read:
22

23 Install a two grounding electrode system at each service entrance point, at each
24 electrical service installation and at each separately derived power source. The service
25 entrance grounding electrode system shall conform to the "Service Ground" detail in the
26 Standard Plans. If soil conditions make vertical grounding electrode installation
27 impossible an alternate installation procedure as described in the NEC may be used.
28 Maintain a minimum of 6 feet of separation between any two grounding electrodes
29 within the grounding system. Grounding electrodes shall be bonded copper, ferrous
30 core materials and shall be solid rods not less than 10 feet in length if they are 1/2 inch in
31 diameter or not less than 8 feet in length if they are 5/8 inch or larger in diameter.
32

33 **8-22.AP8**

34 **Section 8-22, Pavement Marking** 35 **January 4, 2016**

36 **8-22.4 Measurement**

37 The first two sentences of the fourth paragraph are revised to read:
38

39 The measurement for "Painted Wide Lane Line", "Plastic Wide Lane Line", "Profiled
40 Plastic Wide Lane Line", "Painted Barrier Center Line", "Plastic Barrier Center Line",
41 "Painted Stop Line", "Plastic Stop Line", "Painted Wide Dotted Entry Line", or "Plastic
42 Wide Dotted Entry Line" will be based on the total length of each painted, plastic or
43 profiled plastic line installed. No deduction will be made for the unmarked area when the
44 marking includes a broken line such as, wide broken lane line, drop lane line, wide
45 dotted lane line or wide dotted entry line.
46

47 **8-22.5 Payment**

48 The following two new Bid items are inserted after the Bid item "Plastic Crosshatch Marking",
49 per linear foot:
50

1 "Painted Wide Dotted Entry Line", per linear foot.

2

3 "Plastic Wide Dotted Entry Line", per linear foot.

4

5 **9-03.AP9**

6 **Section 9-03, Aggregates**

7 **April 4, 2016**

8 **9-03.1(1) General Requirements**

9 This first paragraph is supplemented with the following:

10

11 Reclaimed aggregate may be used if it complies with the specifications for Portland
12 Cement Concrete. Reclaimed aggregate is aggregate that has been recovered from
13 plastic concrete by washing away the cementitious materials.

14

15 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**

16 This section is revised to read:

17

18 Fine aggregate shall consist of natural sand or manufactured sand, or combinations
19 thereof, accepted by the Engineer, having hard, strong, durable particles free from
20 adherent coating. Fine aggregate shall be washed thoroughly to meet the specifications.

21

22 **9-03.1(2)A Deleterious Substances**

23 This section is revised to read:

24

25 The amount of deleterious substances in the washed aggregate shall be tested in
26 accordance with AASHTO M 6 and not exceed the following values:

27

28	Material finer than No. 200 Sieve	2.5 percent by weight
29	Clay lumps and friable particles	3.0 percent by weight
30	Coal and lignite	0.25 percent by weight
31	Particles of specific gravity less than 2.00	1.0 percent by weight.

32

33 Organic impurities shall be tested in accordance with AASHTO T 21 by the glass
34 color standard procedure and results darker than organic plate no. 3 shall be
35 rejected. A darker color results from AASHTO T 21 may be used provided that
36 when tested for the effect of organic impurities on strength of mortar, the relative
37 strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95
38 percent.

39

40 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**

41 This section is revised to read:

42

43 Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or
44 combinations thereof having hard, strong, durable pieces free from adherent coatings.
45 Coarse aggregate shall be washed to meet the specifications.

46

47 **9-03.1(4)A Deleterious**

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

49

1 **9-03.1(4)A Deleterious Substances**
2 The amount of deleterious substances in the washed aggregate shall be tested in
3 accordance with AASHTO M 80 and not exceed the following values:

4		
5	Material finer than No. 200	1.0 ¹ percent by weight
6	Clay lumps and Friable Particles	2.0 percent by weight
7	Shale	2.0 percent by weight
8	Wood waste	0.05 percent by weight
9	Coal and Lignite	0.5 percent by weight
10	Sum of Clay Lumps, Friable Particles, and	
11	Chert (Less Than 2.40 specific gravity SSD)	3.0 percent by weight
12		

13 ¹If the material finer than the No. 200 sieve is free of clay and shale, this
14 percentage may be increased to 1.5.

15
16 **9-03.1(4)C Grading**

17 The following new sentence is inserted at the beginning of the last paragraph:

18
19 Where coarse aggregate size 467 is used, the aggregate may be furnished in at least
20 two separate sizes.

21
22 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

23 This section is revised to read:

24
25 As an alternative to using the fine aggregate sieve grading requirements in Section 9-
26 03.1(2)B, and coarse aggregate sieve grading requirements in Section 9-03.1(4)C, a
27 combined aggregate gradation conforming to the requirements of Section 9-03.1(5)A
28 may be used.

29
30 **9-03.1(5)A Deleterious Substances**

31 This section is revised to read:

32
33 The amount of deleterious substances in the washed aggregates $\frac{3}{8}$ inch or larger shall
34 not exceed the values specified in Section 9-03.1(4)A and for aggregates smaller than
35 $\frac{3}{8}$ inch they shall not exceed the values specified in Section 9-03.1(2)A.

36
37 **9-03.1(5)B Grading**

38 The first paragraph is deleted.

39
40 **9-03.8(7) HMA Tolerances and Adjustments**

41 In the table in item 1, the last column titled "Commercial Evaluation" is revised to read
42 "Visual Evaluation".

43
44 **9-03.21(1)B Concrete Rubble**

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

46
47 **9-03.21(1)B Recycled Concrete Aggregate**

48 Recycled concrete aggregates are coarse aggregates manufactured from hardened
49 concrete mixtures. Recycled concrete aggregate may be used as coarse aggregate or
50 blended with coarse aggregate for Commercial Concrete. Recycled concrete aggregate
51 shall meet all of the requirements for coarse aggregate contained in Section 9-03.1(4)

- 1 or 9-03.1(5). In addition to the requirements of Section 9-03.1(4) or 9-03.1(5), recycled
 2 concrete shall:
 3
- 4 1. Contain an aggregated weight of less than 1 percent of adherent fines,
 5 vegetable matter, plastics, plaster, paper, gypsum board, metals, fabrics,
 6 wood, tile, glass, asphalt (bituminous) materials, brick, porcelain or other
 7 deleterious substance(s) not otherwise noted;
 - 8 2. Be free of harmful components such as chlorides and reactive materials unless
 9 mitigation measures are taken to prevent recurrence in the new concrete;
 - 10 3. Have an absorption of less than 10 percent when tested in accordance with
 11 AASHTO T 85.

12 Recycled concrete aggregate shall be in a saturated condition prior to mixing.

13 Recycled concrete aggregate shall not be placed below the ordinary high water mark of
 14 any water of the State.

15
 16
 17
 18 **9-03.21(1)D Recycled Steel Furnace Slag**

19 This section title is revised to read:

20
 21 **Steel Furnace Slag**

22
 23 **9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled**
 24 **Material**

25 The following new row is inserted after the second row:

26

Coarse Aggregate for Commercial Concrete	9-03.1(4)	0	100	0	0
--	-----------	---	-----	---	---

27
 28
 29 **9-04.AP9**

30 **Section 9-04, Joint and Crack Sealing Materials**
 31 **January 4, 2016**

32 **9-04.2(1) Hot Poured Joint Sealants**

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

34
 35 **9-04.2(1)A Hot Poured Sealant**

36 Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in
 37 accordance with ASTM D5329. Hot poured sealant shall have a minimum Cleveland
 38 Open Cup Flash Point of 205°C in accordance with AASHTO T 48.

39
 40 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

41 Hot poured sealant for cement concrete pavement shall meet the requirements of
 42 ASTM D6690 Type IV, except for the following:

- 43
- 44 1. The Cone Penetration at 25°C shall be 130 maximum.
 - 45 2. The extension for the Bond, non-immersed, shall be 100 percent.
- 46
 47

1 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**
2 Hot poured sealant for bituminous pavement shall meet the requirements of ASTM
3 D6690 Type II.
4

5 **9-04.2(1)B Sand Slurry for Bituminous Pavement**
6 Sand slurry is mixture consisting of the following components measured by total weight:
7

- 8 1. Twenty percent CSS-1 emulsified asphalt,
- 9
- 10 2. Two percent portland cement, and
- 11
- 12 3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B
- 13 Class 2. Fine aggregate may be damp (no free water).
- 14

15 **9-07.AP9**

16 **Section 9-07, Reinforcing Steel**
17 **January 4, 2016**

18 **9-07.1(1)A Acceptance of Materials**

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

20

21 Reinforcing steel rebar manufacturers shall comply with the National Transportation
22 Product Evaluation Program (NTPEP) Work Plan for Reinforcing Steel (rebar)
23 Manufacturers.

24

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

26

27 Steel reinforcing bar manufacturers use either English or a Metric size designation while
28 stamping rebar.

SECTION II

SPECIAL PROVISIONS

INTRODUCTION TO THE SPECIAL PROVISIONS

(July 31, 2007 APWA GSP)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2016 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter “Standard Specifications”). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

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

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

(May 18, 2007 APWA GSP)
(August 7, 2006 WSDOT GSP)
(May 2016 COS)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA, current edition
- *City of Snohomish Engineering Design and Construction Standards*

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

Wherever reference is made in the Standard Specifications to the Contracting Agency, State, Commission, Department of Transportation, Secretary of Transportation, such reference shall be deemed to be the City of Snohomish through its City Council, employees, and duly authorized representatives.

**DIVISION 1
GENERAL REQUIREMENTS**

DESCRIPTION OF WORK
(March 13, 1995 WSDOT GSP)

The work of this contract provides for the construction of approximately 480 lineal feet of 8-inch SDR PVC Sewer Pipe, six Sanitary Sewer Manholes, thirteen side sewer laterals, removal of structures and obstructions, erosion control, traffic control, utility conflict resolution, miscellaneous surface restoration, and other related items, all as located within the City of Snohomish's corporate limits, easements, and public right-of-way, as shown on the drawings and specified in these technical provisions.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions
(September 12, 2008 APWA GSP)

This Section is supplemented with the following:

All references in the Standard Specifications to the terms "State", "Department of Transportation", "Washington State Transportation Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

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

The venue of all causes of action arising from the advertisement, award, execution, and performance of the contract shall be in the Superior Court of the County where the Contracting Agency's headquarters are located.

Additive

A supplemental unit of work or group of bid items, identified separately in the 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 proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Contract

The written agreement between the Contracting Agency and the Contractor. It describes, among other things:

1. What work will be done, and by when;
2. Who provides labor and materials; and
3. How Contractors will be paid

The Contract includes the Contract (Agreement) form; bidder's completed Proposal Form, all required forms, certificates and affidavits, performance, labor and material payment bonds, the 2016 Standard Specifications for Road, Bridge and Municipal Construction and amendments thereto, Contract Provisions, Contract Plans, Standard Plans, City of Snohomish Engineering Standards and Specifications and associated Standard Details, addenda and change orders.

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.

Dates***Bid Opening Date***

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

Award Date

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

Contract Execution Date

The date the Contracting Agency officially binds the agency to the contract.

Notice to Proceed Date

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

Substantial Completion Date

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, and only minor incidental work, replacement of temporary substitute facilities, or correction or repair remains for the physical completion of the total contract.

Physical Completion Date

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

Completion Date

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

Final Acceptance Date

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

Notice of Award

The written notice from the Contracting Agency to the successful bidder signifying the Contracting Agency’s acceptance of the bid.

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.

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

(March 25, 2009 APWA GSP)

Bidders must meet the minimum qualifications of RCW 39.04.350(1), as amended:

“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:

- (a) At the time of bid submittal, have a certificate of registration in compliance with chapter 18.27 RCW;
- (b) Have a current state unified business identifier number;
- (c) If applicable, have industrial insurance coverage for the bidder's employees working in Washington as required in Title 51 RCW; an employment security department number as required in Title 50 RCW; and a state excise tax registration number as required in Title 82 RCW; and
- (d) Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).”

1-02.2 Plans and Specifications
(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

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

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

To Prime Contractor	No. of Sets	Basis of Distribution
Contract Provisions	2	Furnished automatically upon award.
Large plans(e.g., 22"x34")	2	Furnished automatically upon award.

Additional plans and Contract Provisions may be obtained from the City if needed upon request.

1-02.4 Examination Of Plans, Specifications And Site Of Work
(March 13, 1995 WSDOT GSP)

1-02.4(1) General
(May 2016 COS)

This Section is supplemented with the following:

Contractor shall review the entire Contract to ensure that the completeness of their Proposal includes all items of Work regardless of where shown on the Plans and in the Contract. Bidders are cautioned that alternate sources of information (copies of the Contract obtained from third parties) are not necessarily an accurate or complete representation of the Plans and Contract. Bidders shall use such information at their own risk.

1-02.5 Proposal Forms
(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

At the request of a bidder, the Contracting Agency will provide a proposal form for any project on which the bidder is eligible to bid.

The proposal form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be

furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's D/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the proposal form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency.

Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid. The bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

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

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any D/M/WBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any D/W/MBE requirements are to be satisfied through such an agreement.

1-02.7 Bid Deposit
(October 1, 2005 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

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

The bidder must use the bond form included in the Contract Provisions.

1-02.9 Delivery of Proposal
(October 1, 2005 APWA GSP)

Revise the first paragraph to read:

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

1-02.13 Irregular Proposals
(March 25, 2009 APWA GSP)

Revise item 1 to read:

1. A proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete a Disadvantaged, Minority or Women's Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - i. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - j. More than one proposal is submitted for the same project from a Bidder under the same or different names.

1-02.14 Disqualification of Bidders
(March 25, 2009 APWA GSP, Option B)

Delete this Section and replace it with the following:

A Bidder will be deemed not responsible if:

1. the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or
2. evidence of collusion exists with any other Bidder or potential Bidder. Participants in collusion will be restricted from submitting further bids; or

3. the Bidder, in the opinion of the Contracting Agency, is not qualified for the work or to the full extent of the bid, or to the extent that the bid exceeds the authorized prequalification amount as may have been determined by a prequalification of the Bidder; or
4. an unsatisfactory performance record exists based on past or current Contracting Agency work or for work done for others, as judged from the standpoint of conduct of the work; workmanship; or progress; affirmative action; equal employment opportunity practices; termination for cause; or Disadvantaged Business Enterprise, Minority Business Enterprise, or Women's Business Enterprise utilization; or
5. there is uncompleted work (Contracting Agency or otherwise), which in the opinion of the Contracting Agency might hinder or prevent the prompt completion of the work bid upon; or
6. the Bidder failed to settle bills for labor or materials on past or current contracts, unless there are extenuating circumstances acceptable to the Contracting Agency; or
7. the Bidder has failed to complete a written public contract or has been convicted of a crime arising from a previous public contract, unless there are extenuating circumstances acceptable to the Contracting Agency; or
8. the Bidder is unable, financially or otherwise, to perform the work, in the opinion of the Contracting Agency; or
9. there are any other reasons deemed proper by the Contracting Agency.

As evidence that the Bidder meets the bidder responsibility criteria above, the apparent two lowest Bidders must submit to the Contracting Agency within 24 hours of the bid submittal deadline, documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all applicable responsibility criteria, including all documentation specifically listed in the supplemental criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess bidder responsibility.

The basis for evaluation of Bidder compliance with these supplemental criteria shall be any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) which any reasonable owner would rely on for determining such compliance, including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from owners for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the Contracting Agency's determination by presenting its appeal to the Contracting Agency. The Contracting Agency will consider the appeal before issuing its final determination. If

the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the final determination.

1-02.15 Pre Award Information

(October 1, 2005 APWA GSP)

Revise this section to read:

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

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

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

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

Within ten (10) working days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

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

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

1-03.4 Contract Bond

(October 1, 2005 APWA GSP)

Revise the first paragraph to read:

The successful bidder shall provide an executed contract bond for the full contract amount. This contract bond shall:

1. Be on a Contracting Agency-furnished form;
2. Be signed by an approved surety (or sureties) that:
 - a. Is registered with the Washington State Insurance Commissioner, and
 - b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Be conditioned upon the faithful performance of the contract by the Contractor within the prescribed time;
4. Guarantee that the surety shall indemnify, defend, and protect the Contracting Agency against any claim of direct or indirect loss resulting from the failure:

- a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform the contract, or
 - b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
 6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond must be signed by the president or vice-president, unless accompanied by written proof of the authority of the individual signing the bond to bind the corporation (i.e., corporate resolution, power of attorney or a letter to such effect by the president or vice-president).

1-04 SCOPE OF THE WORK

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

(October 1, 2005 APWA GSP)

Revise the second paragraph to read:

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

1. Addenda,
2. Proposal Form,
3. Special Provisions, including APWA General Special Provisions, if they are included,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. WSDOT Standard Specifications for Road, Bridge and Municipal Construction,
7. Contracting Agency's Standard Plans (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-04.6 Variation in Estimated Quantities Replacement

Section 1-04.6 is hereby deleted and replaced with the following:

Payment to the Contractor will be made only for the actual quantities of work performed and accepted in conformance with the contract. When the actual accepted quantity of work performed under a unit item varies from the original proposal quantity, payment will be at the unit contract price for all work and within the original time for completion.

1-05.7 Removal of Defective and Unauthorized Work
(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

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

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

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing
(October 1, 2005 APWA GSP)

1-05.11(1) Substantial Completion Date

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

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

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

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

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

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

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7. The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall

not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final 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.

1-05.13 Superintendents, Labor and Equipment of Contractor *(March 25, 2009 APWA GSP)*

Revise the seventh paragraph to read:

Whenever the Contracting Agency evaluates the Contractor's qualifications pursuant to Section 1-02.14, it will take these performance reports into account.

1-05.15 Method of Serving Notices *(March 25, 2009 APWA GSP)*

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies

of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

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

Add the following new section:

1-05.17 Oral Agreements
(October 1, 2005 AWPA GSP)

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.

1-06 CONTROL OF MATERIAL

Buy America

Section 1-06 is supplemented with the following:

(August 6, 2007 WSDOT GSP)

The major quantities of steel and iron construction material that is permanently incorporated into the project shall consist of American-made materials only. Buy America does not apply to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel scaffolding and false work.

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

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

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

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

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

The following are considered to be steel manufacturing processes:

1. Production of steel by any of the following processes:
 - a. Open hearth furnace.
 - b. Basic oxygen.
 - c. Electric furnace.
 - d. Direct reduction.
2. Rolling, heat treating, and any other similar processing.
3. Fabrication of the products.
 - a. Spinning wire into cable or strand.
 - b. Corrugating and rolling into culverts.
 - c. Shop fabrication.

A certification of materials origin will be required for any items comprised of, or containing, steel or iron construction materials prior to such items being incorporated into the permanent work. The certification shall be on DOT Form 350-109EF provided by the Engineer, or

such other form the Contractor chooses, provided it contains the same information as DOT Form 350-109EF.

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws To Be Observed

(May 2016 COS)

Section 1-07.1 is supplemented with the following:

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

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

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

All work under this contract shall be performed in a safe manner. The Contractor all Subcontractors shall observe all rules and regulations of the Washington State Department of Labor and Industries, rules and regulations of OSHA, WISHA or any other jurisdiction, and all other applicable safety standards. The Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the Work. This requirement shall apply continuously and not be limited to normal working hours.

The Engineer's review of the Contractor's work plan, safety plan, construction sequence, schedule or performance does not and is not intended to include review or approval of the adequacy of the Contractor's safety measures in, on, or near the construction site. The Engineer does not purport to be a safety expert, is not engaged in that capacity under the Contract, and has neither the authority nor the responsibility to enforce construction safety laws, rules, regulations or procedures, or to order the stoppage of Work for claimed violations thereof.

The Contractor shall exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees and property). All exposed moving parts of equipment capable of inflicting injury by accidental contact shall be protected with sturdy removable guards in accordance with applicable safety regulations.

1-07.2 State Sales Tax

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

1-07.2 State Sales Tax *(October 1, 2005 APWA GSP)*

1-07.2(1) General

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

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(3) describes this exception.

The Contracting Agency will pay the retained percentage only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.050). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

1-07.2(2) State Sales Tax — Rule 171

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

1-07.2(3) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system;

telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

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

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

1-07.2(4) Services

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

1-07.5 Environmental Regulations

Section 1-07.5 is supplemented with the following:

(August 3, 2009 WSDOT GSP)

Environmental Commitments

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

General

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

Wetlands and Water Quality

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

Areas set aside for wash out of concrete delivery trucks, pumping equipment, and tools shall be approved by the Engineer. This area shall not have any possibility of draining to storm drainage infrastructure or waters of the State including wetlands.

During any operation involving saw cutting of concrete, a vacuum method to collect all concrete dust and debris shall be used at all times. Additionally, all water generated by the cutting operation shall be controlled and contained, to be disposed of on land with no possibility of entry to waters of the State, including wetlands.

Payment

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

1-07.17 Utilities and Similar Facilities

(May 2016 COS)

This Section is supplemented with the following:

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained with out uncovering, measuring or other verification.

Utility Locations

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor’s convenience in the table below:

<p>Water City of Snohomish Joe Palmer Water Division Lead 425-328-0068</p>	<p>Sewer and Storm Drain City of Snohomish Derek DeBardi Sewer and Storm Division Lead 425-328-6251</p>
<p>Power Snohomish County PUD 360-563-2218</p>	<p>Gas Puget Sound Energy 1-888-225-5773</p>
<p>Cable Comcast 425-754-0064</p>	<p>Phone Frontier 425-231-4609</p>

1-07.17(2) Utility Construction, Removal, or Relocation by Others

(May 2016 COS)

Delete this Section in its entirety and replace with the following:

Any authorized agent of the Contracting Agency or utility owners may enter the right-of-way to repair, rearrange, alter, or connect their equipment. The Contractor shall cooperate with such effort and shall avoid creating delays or hindrances to those doing the work. As needed, the Contractor shall arrange to coordinate work schedules.

The Contractor shall carry out the Work in a way that will minimize interference and delay for all forces involved. Any costs incurred prior to the utility owners anticipated completion (or if no completion is specified, within a reasonable period of time) that results from the coordination and prosecution of the Work regarding utility adjustment, relocation, replacement, or construction shall be at the Contractor's expense as provided in Section 1-05.14.

The Contractor shall coordinate all work with the various utility companies and their Contractors. The Contractor, when scheduling his work crews, shall use production rates that anticipate the need to provide buck-outs and/or gaps in the driveways, curb and gutter, and/or pavement sections where existing utility structures currently exist, and then come back at a later time to construct the missing sections after the utility has been relocated or adjusted by the applicable utility. The Contractor shall assume that the utilities will not be relocated prior to construction of this project nor at his convenience during the course of construction. As such, the Contractor shall assume such, and schedule his crews and his subcontractors to remobilize to the various sites and temporarily relocate his or his subcontractor's crews to other areas of the project and complete other unaffected portions of the project in order to coordinate the relocation of the utilities with the various utility companies. There shall be no additional money or time due the Contractor for leaving gaps or for buck-out construction, remobilization, demobilization, out of sequence construction, relocation of work crews, and construction of curb, gutter, or driveway patches after the utility has been relocated. It is the intent of these Specifications that the Contractor diligently pursue other work on the site when such conflicts occur and recognize and plan for the inherent inefficiencies and impaired production rates.

Payment

All costs to comply with this Section and repair specified in this Section, unless otherwise stated, are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the bid prices of the Contract.

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 *(May 10, 2006 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.

- B. The Contractor shall keep this insurance in force during the term of the contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated (see C. below).
- C. If any insurance policy is written on a claim made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Final Completion or earlier termination of this contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period (“tail”) or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The insurance policies shall contain a “cross liability” provision.
- E. The Contractor’s and all subcontractors’ insurance coverage shall be primary and non-contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or insurance pool coverage.
- F. All insurance policies and Certificates of Insurance shall include a requirement providing for a minimum of 45 days prior written notice to the Contracting Agency of any cancellation in any insurance policy.
- G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s).
- H. The Contractor shall not begin work under the contract until the required insurance has been obtained and approved by the Contracting Agency.
- I. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days notice to the Contractor to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- J. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):

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

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.

1-07.18(3) Subcontractors

Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting Agency, the Contractor shall provide evidence of such insurance.

1-07.18(4) Evidence of Insurance

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. The certificate and endorsements must conform to the following requirements:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as Additional Insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement. A statement of additional insured status on an ACORD Certificate of Insurance shall not satisfy this requirement.
3. Any other amendatory endorsements to show the coverage required herein.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve the Contractor from liability in excess of such limits. All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

A policy of Commercial General Liability Insurance, including:

- Per project aggregate
- Premises/Operations Liability
- Products/Completed Operations – for a period of one year following final acceptance of the work.

Personal/Advertising Injury
Contractual Liability
Independent Contractors Liability
Stop Gap / Employers' Liability
Explosion, Collapse, or Underground Property Damage (XCU)
Blasting (only required when the Contractor's work under this Contract includes exposures to which this specified coverage responds)

Such policy must provide the following minimum limits:

\$1,000,000 Each Occurrence
\$3,000,000 General Aggregate
\$1,000,000 Products & Completed Operations Aggregate
\$1,000,000 Personal & Advertising Injury, each offence

Stop Gap / Employers' Liability
\$1,000,000 Each Accident
\$1,000,000 Disease - Policy Limit
\$1,000,000 Disease - Each Employee

1-07.18(5)B Automobile Liability

Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90 endorsement and a CA 9948 endorsement attached if "pollutants" are to be transported. Such policy(ies) must provide the following minimum limit:

\$1,000,000 combined single limit

1-07.18(5)C Workers' Compensation

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

1-07.18(5)F Excess or Umbrella Liability

The Contractor shall provide Excess or Umbrella Liability coverage at limits of \$2,000,000 per occurrence and annual aggregate. This excess or umbrella liability coverage shall apply, at a minimum, to both the Commercial General and Auto insurance policy coverage.

1-07.23 Public Convenience And Safety

(April 2, 2007 WSDOT GSP)

Work Zone Clear Zone

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

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

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

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

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

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

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

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

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-07.23(1) Construction Under Traffic

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

(August 7, 2006 WSDOT GSP)

Lane closures are subject to the following restrictions:

1. Single lane closures will be allowed between 8:00 am and 5:00 pm Monday through Friday except as described below.

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 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.

1-07.23(2) Construction and Maintenance of Detours

Section 1-07.23(2) is supplemented with the following:

No road closures will be allowed for this project. The Contractor shall submit a traffic control plan that details traffic control during construction in Maple Avenue.

No traffic revisions in Maple Avenue 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.

1-07.24 Rights of Way (October 1, 2005 APWA GSP)

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

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

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

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

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

Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

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

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

1-08 PROSECUTION AND PROGRESS

Add the following new section:

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

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
(*May 25, 2006 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.

If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or after 6:00 p.m. on any day, the Contractor shall apply in writing to the Engineer for permission to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and 6:00 p.m. is not required. Such requests shall be submitted to the Engineer 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.

Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain other conditions set forth by the Contracting Agency or Engineer. These conditions may include but are not limited to: requiring the Engineer or such assistants as the Engineer may deem necessary to be present during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency employees who worked during such times, on non Federal aid projects; considering the work performed on Saturdays, Sundays, and holidays as working days with regards to the contract time; and considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period. Assistants may include, but are not limited to, survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees when in the opinion of the Engineer, such work necessitates their presence.

1-08.4 Prosecution of Work

Delete this section and replace it with the following:

1-08.4 Notice to Proceed and Prosecution of Work

(July 23, 2015 APWA GSP)

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

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

1-08.5 Time for Completion

Section 1-08.5 is supplemented with the following:

(*****)

Time of completion for this project shall be as stated in the Bid Proposal Form.

(August 14, 2013 APWA GSP, Option A)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of

any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

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

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

1-08.7 Maintenance During Suspension

(October 1, 2005 APWA GSP)

Revise the second paragraph to read:

At no expense to the Contracting Agency, the Contractor shall provide through the construction area a safe, smooth, and unobstructed roadway, sidewalk, and path for public use during suspension (as required in Section 1-07.23 or the Special Provisions). This may include a temporary road or detour.

1-08.9 Liquidated Damages

(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

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

1-09 MEASUREMENT AND PAYMENT

1-09.1 Asphalt *(May 2016 COS)*

Supplement this section with the following:

Asphalt Patch shall be measured by trench neat line and not to exceed 6-inches in depth. Payment for Asphalt Patch shall be per square yard based on measurement parameters listed in this supplement.

1-09.6 Force Account *(October 10, 2008 APWA GSP)*

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

1-09.9 Payments *(October 10, 2008 APWA GSP)*

Delete the third paragraph and replace it with the following:

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

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are

tentative, and made only for the purpose of determining progress payment. The progress estimates are subject to change at any time prior to the calculation of the Final Payment.

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

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — partial payment for lump sum Bid items will be a percentage of the price in the Proposal based on the Engineer's determination of the amount of Work performed, with consideration given to, but not exclusively based on, the Contractor's lump sum breakdown for that item.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer after signature of approval by the City Manager.

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

1. Retainage per Section 1-09.9(1);
2. The amount of Progress Payments previously made; and
3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

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

Payments will be made by warrants, issued by the Contracting Agency's fiscal officer, against the appropriate fund source for the project. Payments received on account of work performed by a subcontractor are subject to the provisions of RCW 39.04.250.

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

(October 1, 2005 APWA GSP)

Delete this Section and replace it with the following:

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

DIVISION 2 EARTHWORK

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description

Supplement this section with the following:

The work includes removing and disposing of one existing sanitary sewer manhole, and any concrete sidewalk, and curb and gutter required to be removed to install the new side sewers. Additionally, this work includes removal of any miscellaneous items and work needed to perform the work shown on the Plans.

2-02.3 Construction Requirements

(May 2016 COS)

This Section is supplemented with the following:

The removal of any existing improvements shall be conducted in such a manner as not to damage utilities and any portion of the infrastructure that is to remain in place. Any deviation in this matter will obligate the Contractor at his own expense, to repair, replace or otherwise make proper restoration to the satisfaction of the Contracting Agency.

When sawing of concrete or combinations of materials is required, the depth of cut shall be as such to accomplish the intended purpose, without damaging surfaces to be left in place and will be determined in the field to the satisfaction of the Engineer.

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

(May 2016 COS)

This Section is supplemented with the following:

Existing cement concrete sidewalks, driveways, roadway slabs, curbs, and curbs and gutters shall be removed at the nearest construction joint where possible and removed and waste hauled as required for the construction of this Project. Where directed by the Engineer, cement concrete curbs or curb and gutter shall be saw-cut per Section 2-02.3(6) prior to removal. Existing pavement shall be pre-cut per Section 2-02.3(6) before commencing excavation and shall be removed as required for the construction.

2-02.3(5) Waste Disposal (New Section)

(May 2016 COS)

Waste materials shall be loaded and hauled to a waste site secured by the Contractor and shall be disposed of in such a manner as to meet all requirements of state, county and municipal regulations regarding health, safety and public welfare.

Trench excavation soils may be hauled to the City Pit located at 123rd Ave SE, Snohomish, WA, if approved by the Public Works Inspector. Contractor shall coordinate hauling all soils, if approved, to the City Pit with the Public Works Inspector relative to haul hours and off loading locations.

2-02.3(6) Sawcutting (New Section)
(May 2015)

Where shown on the Plans or where directed in the field by the Engineer, the Contractor shall make a neat vertical saw-cut at the boundaries of the area to be removed. Care shall be taken during saw cutting so as to prevent damage to the existing asphalt concrete, or concrete, to remain in place. Any pavement or concrete damaged by the Contractor outside the area scheduled for removal due to the Contractor's operations or negligence shall be repaired or replaced to the Contracting Agency's satisfaction by the Contractor at no additional cost to the Contracting Agency.

All cuts shall be continuous, full depth, and shall be made with saws specifically equipped for this purpose. No skip cutting or jack hammering will be allowed unless specifically approved otherwise in writing by the Engineer. Any pavement that is damaged outside the allowable trench widths or as marked in the field, not included in the overlay, in accordance with the Plans or pre-approved by the Contracting Agency, shall be repaired entirely at the Contractor's expense.

Wheel cutting or jack hammering shall not be considered an acceptable means of pavement "cutting," unless pre-approved in writing by the Engineer. However, even if pre-approved as a method of cutting, no payment will be made for this type of work, and it shall be included in the various unit contract and lump sum prices listed in the Proposal. The location of all pavement cuts shall be pre-approved by the Engineer in the field before cutting commences. All water and slurry material resulting from saw cutting operations shall be vacuumed and not be allowed to enter the storm drainage or sanitary sewer system. It shall be removed from the site and disposed of in accordance with the Washington State Department of Ecology regulations.

2-02.4 Measurement

Supplement this section with the following:

Sawcutting will be measured by the linear foot of sawcut, along the line and grade of the sawcut and the limits of the sawcut as shown in the Plans.

2-02.5 Payment

This Section is supplemented with the following:

The lump sum contract price for "Removal of Structures and Obstructions" shall be full compensation for furnishing all tools, labor, equipment, materials, and incidentals necessary for removing, loading, hauling, relocating, disposing of, and/or delivering items as noted herein and

directed in the field by the Engineer, to include but not limited to, fees, fuel and permits related to disposal.

"Sawcutting", per linear foot.

The unit contract price per linear foot for "Sawcutting" shall be full pay for performing the work as specified, including containment, collection, and disposal of all saw cutting debris and wastewater.

2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.3(14)C Compacting Earth Embankments

Supplement this section with the following:

Method C shall be used for this project. Additionally, Contractor shall be responsible for all compaction testing for this project.

2-03.4 Measurement

(May 2016 COS)

This Section is supplemented with the following:

Measurement of Over Excavation and Unsuitable Foundation Excavation, Incl. Haul will be per cubic yard, as field neat line measured in the excavated area (not truck measurement)

2-04 HAUL

(May 2016 COS)

This Section is supplemented with the following:

If the source(s) of materials provided by the Contractor necessitates hauling over any public roads, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes. No separate monies will be due the Contractor for this work.

2-09 STRUCTURE EXCAVATION

(May 2016 COS)

This Section is supplemented with the following:

When any work is being considered by the Contractor in the vicinity of an existing utility, the Contractor shall so inform an authority of the particular utility in ample time so that the utility involved and the Contractor may take any precautions necessary to facilitate construction in the vicinity of the utility, and thereby protect that particular utility from damage.

Protecting and Maintaining Utility Service

The Contractor shall protect and maintain the operational service of existing utility systems in a continuous manner as possible. The Contractor shall have the approval from the Engineer and notification shall be given to the Contracting Agency before any disruptions of service in existing utilities will be allowed. The Contractor shall comply with all the conditions established by the Engineer and the Contracting Agency. The Contractor shall give the utility owner a minimum notice of 48 hours before disrupting any planned service interruption. No planned interruption to an existing system shall be allowed on Fridays, weekends, or holidays, unless specifically agreed to in writing by the Contracting Agency. Where services are to be shut down, affected parties shall be notified in writing by the Contractor (i.e., door hangers) at least 48 hours and not more than 72 hours in advance of the time and period of shut down. The Contractor shall make every effort to keep shut down schedules to periods of anticipated minimum usage and for the least period of time.

Where the construction crosses or is adjacent to existing utilities, the Contractor shall exercise extreme care to protect such utilities from damage. Additionally, the Contractor shall review the Plans, the project site and familiarize himself with the various utilities and plan his construction activities in recognition that the very close proximity of existing utilities to the proposed work will adversely affect production rates of installation of the various planned improvements. The Contractor is hereby advised and cautioned that the location of existing utilities will be cause for considerable and extreme care and due diligence on the part of the Contractor. As such, work production rates are anticipated to be significantly impacted by their presence and normal production rates should not be anticipated, during construction by the Contractor for work in these areas. The Contractor shall anticipate minor alignment adjustments will also be required to accommodate the installation of utilities.

DIVISION 4 BASES

4-04.5 Payment (May 2016 COS)

This Section is supplemented with the following:

The unit contract prices bid for the various types of ballast, structural fill, crushed surfacing base course, and crushed surfacing top course materials shall include all costs for obtaining the materials, hauling the materials to the site, stockpiling, spreading, grading, shaping, compaction, compaction testing, material testing, and all other incidentals, complete, in place and in good working order. Asphalt grindings are not subject to reimbursement under any of these bid items.

**DIVISION 7
DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER
MAINS AND CONDUITS**

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

7-05.3 Construction Requirements
(May 2016 COS)

This Section is supplemented with the following:

The Contractor shall construct all manholes from precast concrete bases and risers. Cast-in-place concrete bases shall only be used for “straddle” of existing systems and shall be watertight. In areas of new and existing pavement, the grate rim elevation shall be set to promote drainage flow. In unimproved areas, the rim elevations shall be set as shown on the Plans. Dewatering shall be per Section 7-08.3(1).

Unless specifically noted herein or shown differently on the Plans, the Contractor shall connect to the manhole and catch basin as follows:

<u>Pipe</u>	<u>Connection System</u>
DI	Kor-N-Seal*
HDPE	Kor-N-Seal*
PVC	Kor-N-Seal*
Corrugated Polyethylene	Per Manufacturer’s
Recommendation	

*Or Contracting Agency approved equal.

All pipes entering manholes shall be securely connected to the structures with either a boot-type rubber coupling or a heavy-duty sand collar per manufacturer’s recommendations to effectively seal the pipe to the structure.

7-05.4 Measurement
(May 2016 COS)

This Section is supplemented with the following:

Manholes and saddle manholes will be measured per each and shall include frame and cover. No additional payment will be made on the basis of manhole height.

7-05.5 Payment
(May 2016 COS)

This Section is supplemented with the following:

Payment will be made in accordance with Section 1-04.1, for each of the following bid items that are included in the Proposal:

The unit contract price per each for each manhole and saddle manhole shall constitute full compensation for all labor, materials, tools, equipment, transportation, supplies, and incidentals required to complete all work to furnish and install this item, to include but not limited to structure excavation, foundation gravel, backfill, compaction, compaction testing, material testing, cast in place concrete base, removal and waste haul of excess or unsuitable excavated material, pipe connection, channelizing, dewatering, bypass pumping and maintaining flows, and adjusting to finished grade.

7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.1 Description

This Section is supplemented with the following:

This work includes the installation of SDR 35 PVC sewer pipe. The Contractor shall excavate a maximum trench width of 38 inches.

7-08.2 Materials

(May 2016 COS)

This Section is supplemented with the following:

Gravel Backfill for Pipe Zone Bedding shall meet the requirements of Section 9-03.9(3) for Top Course.

Bank Run Gravel for Trench Backfill shall meet the requirements of Section 9-03.14(1) for Gravel Borrow.

7-08.3(1)A Trenches

This Section is supplemented with the following:

The length of trench excavation in advance of pipe laying shall be kept to a maximum of 100 feet. Excavation shall either be closed up at the end of the day or protected per Section 1.07.23(1).

The Contractor shall limit his excavation to the limits of the maximum payment width and depth shown on the Plans. If the Contractor purposely or neglectfully excavates trenches to a width or depth beyond the neat line payment limit of the trench as shown on the Plans, the expenses associated with any additional trenching, waste haul, trench backfill, compaction, compaction testing, material testing and surface restoration as a result of excavating beyond the neat line payment limits shall be borne by the Contractor.

The Contractor shall furnish all equipment necessary to dewater the excavation. Before operations begin, the Contractor shall have sufficient pumping equipment and/or other

machinery available on site to assure that the operation of any dewatering system can be maintained.

The Contractor shall dispose of the water in such a manner as not to cause a nuisance or menace to the public, and comply with all codes, regulations, and ordinances of applicable governing authorities with regard to drilling, dewatering, and erosion control. The release of groundwater to its static level shall be performed in such a manner as to maintain the undisturbed state of the natural foundation soil, prevent disturbance of backfill and prevent movement of structures and pipelines.

The dewatering system shall be installed and operated by the Contractor so that the groundwater level outside the excavation is not reduced to the extent that would damage or endanger adjacent structures or property. Should settlement of the surrounding area and/or structures be observed, the Contractor shall cease dewatering operations and implement contingency plans. The cost of repairing any damage to adjacent structures, underground facilities or utilities and satisfactory restoration of above ground facilities to include fences, paving, concrete, etc., shall be the responsibility of the Contractor.

The Contractor shall be required to comply with all conditions and requirements mandated by the Department of Ecology for the construction, operation, and decommissioning of dewatering facilities.

7-08.3(2)B Pipe Laying – General (May 2016 COS)

This Section is supplemented with the following:

All pipe shall be unloaded from delivery vehicles with mechanical equipment. Dropping of pipe onto the ground or mats will not be permitted. All pipe and fittings shall be carefully lowered into the trench in such a way as to prevent damage to pipe materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped into the trench.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being laid. The pipe shall be secured in place with pipe bedding tamped under it. Precaution shall be taken to prevent dirt from entering the joint space. At times when pipe laying is not in progress, the open ends of pipe shall be closed by a watertight plug or other means approved by the Contracting Agency. If water is in the trench when work resumes, the seal shall remain in place until the trench is dewatered as specified for groundwater control.

All connections to existing pipe of differing materials shall be made with adapters which are specifically manufactured for this purpose. If the band type adapters are used, then only stainless steel bands will be allowed. Pipe shall be installed in compliance with the manufacturer's recommendations.

All connections to existing pipe of differing materials shall be made with adapters per the City of Snohomish Standards and Specifications.

7-17 SANITARY SEWERS

7-17.1 Description

This Section is supplemented with the following:

This work includes the installation of SDR 35 PVC sewer pipe. The Contractor shall excavate a maximum trench width of 38 inches.

7-17.3(3) Description

Add the following new section:

Where indicated on the plans, abandon existing 8-inch sanitary sewer by filling with control density fill.

7-17.5 Payment

(May 2016 COS)

This Section is supplemented with the following:

“PVC SANITARY SEWER PIPE 8 IN. DIAM.”, per linear foot.

The unit contract price per linear foot of “PVC SANITARY SEWER PIPE 8 IN. DIAM.” shall constitute full compensation for all labor, materials, tools, equipment, transportation, supplies, and incidentals required to complete all work to furnish and install this item, to include but not limited to pipe bedding, backfill, compaction, compaction testing, material testing, removal and waste haul of excess or unsuitable excavated material, dewatering, bypass pumping and maintaining sewer flows, connections to existing and new systems, flushing, and cleaning.

Trench excavation for this work will be paid under the bid item for STRUCTURAL EXCAVATION CL. B INCL. HAUL.

Asphalt removal for this work will be paid under the bid item (“ASPHALT REMOVAL INCL. HAUL”) and will **not** be paid under this bid item (“PVC SANITARY SEWER PIPE 8 IN. DIAM”).

“ABANDON EXISTING 8 IN. DIAM. SEWER”, per linear foot.

The unit contract price per linear foot of “ABANDON EXISTING 8 IN. DIAM. SEWER” shall constitute full compensation for all labor, materials, tools, equipment, transportation, supplies, and incidentals required to complete all work to furnish and install this item.

7-18 SIDE SEWERS

7-18.1 Description

This Section is supplemented with the following:

This work involves the installation of SDR 35 PVC 6-inch diameter sewer pipe for thirteen side sewers. It also includes associated work as specified on the plans for removing, cutting and capping or abandoning existing side sewers. Other work for this item is replacing cement concrete sidewalk and curb and gutter sections as specified on the plans in locations where the new side sewers will cross under them. The Contractor shall excavate a maximum trench width of 36 inches.

7-18.5 Payment

(May 2016 COS)

This Section is supplemented with the following:

“SIDE SEWER”, per EACH.

The unit contract price per EACH of “SIDE SEWER” shall constitute full compensation for all labor, materials, tools, equipment, transportation, supplies, and incidentals required to complete all work to furnish and install this item, to include but not limited to **excavation**, pipe installation, pipe bedding, backfill, compaction, compaction testing, material testing, removal and waste haul of excess or unsuitable excavated material, dewatering, bypass pumping and maintaining sewer flows, connections to existing and new systems, flushing, and cleaning. This also includes full compensation for the associated work as specified on the plans for removing, cutting and capping or abandoning existing side sewers and for replacing cement concrete sidewalk and curb and gutter sections as specified on the plans in locations where the new side sewers will cross under them.

Trench excavation for this work will be paid under this bid item (“SIDE SEWER”, per EACH) and will **not** be paid under the bid item for STRUCTURAL EXCAVATION CL. B INCL. HAUL.

Sidewalk and curb and gutter removal for this work will be paid under the bid item (“REMOVAL OF STRUCTURES AND OBSTRUCTION”) and will **not** be paid under this bid item (“SIDE SEWER”, per EACH).

Asphalt removal for this work will be paid under the bid item (“ASPHALT REMOVAL INCL. HAUL”) and will **not** be paid under this bid item (“SIDE SEWER”, per EACH).

DIVISION 8 MISCELLANEOUS CONSTRUCTION

8-01.1 Description

Supplement this section with the following:

This Work includes installation, maintenance, and removal of silt fence, straw bales, filter bags, inlet protection, street cleaning, and all other erosion and water pollution control devices necessary to prevent impacts to the Pilchuck and Snohomish Rivers.

8-04 CURB, GUTTERS, AND SPILLWAYS

8-04.3 Construction Requirements

(May 2016 COS)

This Section is supplemented with the following:

Any curb and gutter damaged, defaced, cracked, chipped, or determined to be of poor workmanship, in the opinion of the Contracting agency, shall be removed, waste hauled and replaced by the Contractor, at the Contractor's expense. Sacking and grinding shall not be considered an acceptable means for repairing unacceptable sections. The Contractor shall further provide verbal and written notice (door hangers) to property owners identifying restricted use of their driveways, sidewalks, etc. This notice must be provided twice: at 1 week prior and again 1 day prior to the work being performed.

8-14 CEMENT CONCRETE SIDEWALKS

8-14.3 Construction Requirements

(May 2016 COS)

This Section is supplemented with the following:

Any sidewalk damaged, defaced, cracked chipped, or determined to be of poor workmanship, in the opinion of the Contracting Agency, shall be removed, waste hauled, and replaced by the Contractor at the Contractor's expense. Damaged sidewalk shall be removed at a construction or expansion joint, Sawcutting will not be allowed. Sacking, grinding, or spot repairs shall not be considered an acceptable means for repairing unacceptable sections. The Contractor shall further provide verbal and written notice (door hangers) to property owners identifying restricted use of their driveways, sidewalks, etc. This notice must be provided twice: at one (1) week prior and again one (1) day prior to the work being performed.

8-30 MISCELLANEOUS

(May 2016 COS)

This Section is supplemented with the following:

8-30.1 Project Documentation

(May 2016 COS)

Description

The Work described in this section includes record drawings, photographs, and property release forms.

Construction Requirements Record Drawings

Record drawings and other documents are to be maintained and annotated by the Contractor during construction as follows: (1) a neatly and legibly marked set of Contract Plans showing the final location of piping, structures, paving limits, curbs, gutters, sidewalks, relocated utility structures, monuments, channelization, etc.; (2) additional documents such as schedules, lists, drawings, and easement/permit forms included in the Specifications; and (3) Contractor layout and installation drawings.

Unless otherwise specified, record drawings shall be full size and maintained in a clean, dry, and legible condition. Record documents shall not be used for construction purposes and shall be available for review by the Contracting Agency during normal working hours at the Contractor's field office. At the completion of the Work and prior to final payment, all record drawings and attachments shall be submitted to the Contracting Agency.

The record drawings shall be prepared concurrently with the Work being performed and shall be kept current at all times. Annotations to the record documents shall be made with an erasable colored pencil conforming to the following color code:

Additions	Red
Deletions	Green
Comments	Blue
Dimensions	Graphite

The record drawings shall identify all existing or abandoned utilities that were found during construction and not shown on the original Contract Plans. The Contractor will be provided with one set of Contract Plans for this purpose. At the end of the project, each record drawing and other document shall be stamped and signed by the Contractor, attesting to the accuracy of the drawing or other document.

Photographs

The Contractor shall provide comprehensive preconstruction photographs of the entire Work site and adjoining properties. The photographs shall provide complete coverage of all features. Before construction starts, two each 4" x 6" color glossy prints of each exposure, together with the electronic file, shall be delivered to the Contracting Agency. Photographs shall be taken in and along the project limits, prior to construction. Special attention shall be provided to depict existing conditions, edge of pavement, drainage facilities, and utility markers. The photographs shall be of commercial quality and the back of each glossy color print shall indicate the date, name of the project and the location and direction where the photograph was taken. Photographs shall be provided in one bound 3 ring photograph album, with photographs arranged in a logical

order and protected by clear plastic sheeting or sleeves specifically made for this purpose. The Contractor shall provide post-construction photographs from the same spot and angle as the pre-construction photographs. The Contractor shall provide a minimum of 24 pre and 24 post-construction photographs of each Work site.

Payment

All work required to complete the project documentation shall be considered incidental to the contract and as such merged in the various items bid.

APPENDICES

A. PREVAILING MINIMUM HOURLY WAGE RATES

APPENDIX A

PREVAILING MINIMUM HOURLY WAGE RATES

State of Washington
 Department of Labor & Industries
 Prevailing Wage Section - Telephone 360-902-5335
 PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 5/22/2016

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Snohomish	<u>Asbestos Abatement Workers</u>	Journey Level	\$43.95	<u>5D</u>	<u>1H</u>	
Snohomish	<u>Boilermakers</u>	Journey Level	\$64.29	<u>5N</u>	<u>1C</u>	
Snohomish	<u>Brick Mason</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Brick Mason</u>	Pointer-Caulker-Cleaner	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Building Service Employees</u>	Janitor	\$9.47		<u>1</u>	
Snohomish	<u>Building Service Employees</u>	Shampooer	\$9.47		<u>1</u>	
Snohomish	<u>Building Service Employees</u>	Waxer	\$9.47		<u>1</u>	
Snohomish	<u>Building Service Employees</u>	Window Cleaner	\$13.48		<u>1</u>	
Snohomish	<u>Cabinet Makers (In Shop)</u>	Journey Level	\$15.08		<u>1</u>	
Snohomish	<u>Carpenters</u>	Acoustical Worker	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Bridge, Dock And Wharf Carpenters	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Carpenter	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Carpenters on Stationary Tools	\$54.15	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Creosoted Material	\$54.12	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Floor Finisher	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Floor Layer	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Scaffold Erector	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Cement Masons</u>	Journey Level	\$53.95	<u>7A</u>	<u>1M</u>	
Snohomish	<u>Divers & Tenders</u>	Diver	\$107.22	<u>5D</u>	<u>4C</u>	<u>8A</u>
Snohomish	<u>Divers & Tenders</u>	Diver On Standby	\$64.42	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Divers & Tenders</u>	Diver Tender	\$58.33	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator	\$58.33	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Divers & Tenders</u>	Surface Rcv & Rov Operator Tender	\$54.27	<u>5A</u>	<u>4C</u>	
Snohomish	<u>Dredge Workers</u>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	<u>Dredge Workers</u>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	

Snohomish	<u>Dredge Workers</u>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>
Snohomish	<u>Dredge Workers</u>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>
Snohomish	<u>Dredge Workers</u>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>
Snohomish	<u>Dredge Workers</u>	Mates	\$56.44	<u>5D</u>	<u>3F</u>
Snohomish	<u>Dredge Workers</u>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>
Snohomish	<u>Drywall Applicator</u>	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>
Snohomish	<u>Drywall Tapers</u>	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>
Snohomish	<u>Electrical Fixture Maintenance Workers</u>	Journey Level	\$13.76		<u>1</u>
Snohomish	<u>Electricians - Inside</u>	Cable Splicer	\$63.94	<u>7H</u>	<u>1E</u>
Snohomish	<u>Electricians - Inside</u>	Construction Stock Person	\$31.71	<u>7H</u>	<u>1D</u>
Snohomish	<u>Electricians - Inside</u>	Journey Level	\$59.69	<u>7H</u>	<u>1E</u>
Snohomish	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>
Snohomish	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$74.92	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$65.71	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Groundperson	\$44.12	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$65.71	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$65.71	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$55.34	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$65.71	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electricians - Powerline Construction</u>	Powderperson	\$49.16	<u>5A</u>	<u>4D</u>
Snohomish	<u>Electronic Technicians</u>	Journey Level	\$30.10		<u>1</u>
Snohomish	<u>Elevator Constructors</u>	Mechanic	\$85.45	<u>7D</u>	<u>4A</u>
Snohomish	<u>Elevator Constructors</u>	Mechanic In Charge	\$92.35	<u>7D</u>	<u>4A</u>
Snohomish	<u>Fabricated Precast Concrete Products</u>	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>
Snohomish	<u>Fence Erectors</u>	Fence Erector	\$14.00		<u>1</u>
Snohomish	<u>Flaggers</u>	Journey Level	\$37.26	<u>7A</u>	<u>3I</u>
Snohomish	<u>Glaziers</u>	Journey Level	\$56.16	<u>7L</u>	<u>1Y</u>
Snohomish	<u>Heat & Frost Insulators And Asbestos Workers</u>	Journeyman	\$63.18	<u>5J</u>	<u>1S</u>
Snohomish	<u>Heating Equipment Mechanics</u>	Journey Level	\$72.83	<u>7F</u>	<u>1E</u>
Snohomish	<u>Hod Carriers & Mason Tenders</u>	Journey Level	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$9.47		<u>1</u>
Snohomish	<u>Inland Boatmen</u>	Boat Operator	\$56.78	<u>5B</u>	<u>1K</u>
Snohomish	<u>Inland Boatmen</u>	Cook	\$53.30	<u>5B</u>	<u>1K</u>

Snohomish	<u>Inland Boatmen</u>	Deckhand	\$53.30	<u>5B</u>	<u>1K</u>
Snohomish	<u>Inland Boatmen</u>	Deckhand Engineer	\$54.32	<u>5B</u>	<u>1K</u>
Snohomish	<u>Inland Boatmen</u>	Launch Operator	\$55.57	<u>5B</u>	<u>1K</u>
Snohomish	<u>Inland Boatmen</u>	Mate	\$55.57	<u>5B</u>	<u>1K</u>
Snohomish	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$9.73		<u>1</u>
Snohomish	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Grout Truck Operator	\$11.48		<u>1</u>
Snohomish	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Head Operator	\$12.78		<u>1</u>
Snohomish	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Technician	\$9.47		<u>1</u>
Snohomish	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Tv Truck Operator	\$10.53		<u>1</u>
Snohomish	<u>Insulation Applicators</u>	Journey Level	\$54.02	<u>5D</u>	<u>4C</u>
Snohomish	<u>Ironworkers</u>	Journeyman	\$63.53	<u>7N</u>	<u>10</u>
Snohomish	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Airtrac Drill Operator	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Ballast Regular Machine	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Batch Weighman	\$37.26	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Brick Pavers	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Brush Cutter	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Brush Hog Feeder	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Burner	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Caisson Worker	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Carpenter Tender	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Caulker	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Cement Dumper-paving	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Cement Finisher Tender	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Change House Or Dry Shack	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Choker Setter	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Chuck Tender	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Clary Power Spreader	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Clean-up Laborer	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Concrete Dumper/chute Operator	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Concrete Form Stripper	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Concrete Placement Crew	\$44.76	<u>7A</u>	<u>3I</u>

Snohomish	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Crusher Feeder	\$37.26	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Curing Laborer	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Ditch Digger	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Diver	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Drill Operator (hydraulic, diamond)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Dry Stack Walls	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Dump Person	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Epoxy Technician	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Erosion Control Worker	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Faller & Bucker Chain Saw	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Fine Graders	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Firewatch	\$37.26	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Form Setter	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Gabian Basket Builders	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	General Laborer	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grade Checker & Transit Person	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grinders	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grout Machine Tender	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Groutmen (pressure)including Post Tension Beams	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Guardrail Erector	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level A)	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level B)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level C)	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	High Scaler	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Jackhammer	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Laserbeam Operator	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Maintenance Person	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Manhole Builder-mudman	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Material Yard Person	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Motorman-dinky Locomotive	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite,	\$44.76	<u>7A</u>	<u>3I</u>

		Shotcrete, Water Bla			
Snohomish	<u>Laborers</u>	Pavement Breaker	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pilot Car	\$37.26	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pipe Layer Lead	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pipe Layer/tailor	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pipe Pot Tender	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pipe Reliner	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pipe Wrapper	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Pot Tender	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Powderman	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Powderman's Helper	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Power Jacks	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Railroad Spike Puller - Power	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Raker - Asphalt	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Re-timberman	\$45.32	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Remote Equipment Operator	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Rigger/signal Person	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Rip Rap Person	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Rivet Buster	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Rodder	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Scaffold Erector	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Scale Person	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Sloper (over 20")	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Sloper Sprayer	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Spreader (concrete)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Stake Hopper	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Stock Piler	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Tamper & Similar Electric, Air & Gas Operated Tools	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Tamper (multiple & Self- propelled)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Toolroom Person (at Jobsite)	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Topper	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Track Laborer	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Track Liner (power)	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Traffic Control Laborer	\$39.84	<u>7A</u>	<u>3I</u> <u>8R</u>
Snohomish	<u>Laborers</u>	Traffic Control Supervisor	\$39.84	<u>7A</u>	<u>3I</u> <u>8R</u>
Snohomish	<u>Laborers</u>	Truck Spotter	\$43.95	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Tugger Operator	\$44.76	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 0-30 psi	\$74.29	<u>7A</u>	<u>3I</u> <u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$79.32	<u>7A</u>	<u>3I</u> <u>8Q</u>

Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$83.00	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$88.70	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$90.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$95.92	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$97.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$99.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$101.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Miner	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Vibrator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Vinyl Seamer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Watchman	\$33.86	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Welder	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Well Point Laborer	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Window Washer/cleaner	\$33.86	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers - Underground Sewer & Water</u>	General Laborer & Topman	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers - Underground Sewer & Water</u>	Pipe Layer	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$17.31		<u>1</u>	
Snohomish	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$20.06		<u>1</u>	
Snohomish	<u>Landscape Construction</u>	Landscaping Or Planting Laborers	\$14.13		<u>1</u>	
Snohomish	<u>Lathers</u>	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>	
Snohomish	<u>Marble Setters</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Fitter	\$15.38		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Laborer	\$9.79		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$9.47		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Painter	\$9.98		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Welder	\$15.38		<u>1</u>	
Snohomish	<u>Millwright</u>	Journey Level	\$55.52	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Modular Buildings</u>	Journey Level	\$9.47		<u>1</u>	
Snohomish	<u>Painters</u>	Journey Level	\$39.35	<u>6Z</u>	<u>2B</u>	
Snohomish	<u>Pile Driver</u>	Journey Level	\$54.27	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Plasterers</u>	Journey Level	\$51.68	<u>7Q</u>	<u>1R</u>	
Snohomish	<u>Playground & Park Equipment Installers</u>	Journey Level	\$11.94		<u>1</u>	

Snohomish	<u>Plumbers & Pipefitters</u>	Journey Level	\$65.52	<u>5A</u>	<u>1G</u>	
Snohomish	<u>Power Equipment Operators</u>	Asphalt Plant Operators	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Assistant Engineer	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Barrier Machine (zipper)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Batch Plant Operator, Concrete	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Bobcat	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Brokk - Remote Demolition Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Brooms	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cableways	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Chipper	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Compressor	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Concrete Finish Machine - laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: A-frame - 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: Friction cranes through 199 tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Cranes: Through 19 Tons With	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Attachments A-frame Over 10 Tons				
Snohomish	<u>Power Equipment Operators</u>	Crusher	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Deck Engineer/deck Winches (power)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Derricks, On Building Work	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Dozers D-9 & Under	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Drilling Machine	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Elevator And Man-lift: Permanent And Shaft Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Forklift: 3000 Lbs And Over With Attachments	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Gradechecker/stakeman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Guardrail Punch	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Horizontal/directional Drill Locator	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Horizontal/directional Drill Operator	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Loader, Overhead 8 Yards. & Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Loaders, Overhead Under 6 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Loaders, Plant Feed	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Loaders: Elevating Type Belt	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Locomotives, All	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Material Transfer Device	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Motor Patrol Graders	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 100 Tons And Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Pavement Breaker	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Pile Driver (other Than Crane Mount)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Plant Oiler - Asphalt, Crusher	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Posthole Digger, Mechanical	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Power Plant	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Pumps - Water	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Quad 9, Hd 41, D10 And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Rigger And Bellman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Rigger/Signal Person, Bellman (Certified)	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Rollagon	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Roller, Other Than Plant Mix	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Roller, Plant Mix Or Multi-lift Materials	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Roto-mill, Roto-grinder	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Saws - Concrete	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Scraper, Self Propelled Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Scrapers - Concrete & Carry All	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Scrapers, Self-propelled: 45 Yards And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators</u>	Service Engineers - Equipment	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shotcrete/gunite Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Slipform Pavers	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Spreader, Topsider & Screedman	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Subgrader Trimmer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Tower Bucket Elevators	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Tower Crane Up To 175' In Height Base To Boom	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Tower Cranes: over 250' in height from base to boom	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Transporters, All Track Or Truck Type	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Trenching Machines	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver Under 100 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Truck Mount Portable Conveyor	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Welder	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Wheel Tractors, Farmall Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators</u>	Yo Yo Pay Dozer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators-Underground Sewer & Water</u>	Asphalt Plant Operators	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators-Underground Sewer & Water</u>	Assistant Engineer	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators-Underground Sewer & Water</u>	Barrier Machine (zipper)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators-Underground Sewer & Water</u>	Batch Plant Operator, Concrete	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bobcat	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brokk - Remote Demolition Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brooms	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cableways	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Chipper	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Compressor	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Finish Machine - laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: A-frame - 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Friction cranes through 199 tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators-</u>	Cranes: Through 19 Tons With	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Underground Sewer & Water</u>	Attachments A-frame Over 10 Tons				
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Crusher	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Deck Engineer/deck Winches (power)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Derricks, On Building Work	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Dozers D-9 & Under	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drilling Machine	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklift: 3000 Lbs And Over With Attachments	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Gradechecker/stakeman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Guardrail Punch	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Locator	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Operator	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead 8 Yards. & Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Overhead Under 6 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Plant Feed	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders: Elevating Type Belt	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Locomotives, All	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Material Transfer Device	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Motor Patrol Graders	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pavement Breaker	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pile Driver (other Than Crane Mount)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Plant Oiler - Asphalt, Crusher	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Posthole Digger, Mechanical	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Power Plant	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pumps - Water	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quad 9, Hd 41, D10 And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger And Bellman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger/Signal Person, Bellman (Certified)	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rollagon	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Other Than Plant Mix	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roto-mill, Roto-grinder	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Saws - Concrete	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scraper, Self Propelled Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers - Concrete & Carry All	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Service Engineers - Equipment	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shotcrete/gunite Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Slipform Pavers	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Spreader, Topsider & Screedman	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Subgrader Trimmer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Bucket Elevators	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Cranes: over 250' in height from base to boom	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Transporters, All Track Or Truck Type	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Trenching Machines	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Mount Portable Conveyor	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Welder	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Wheel Tractors, Farmall Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Equipment Operators- Underground Sewer & Water</u>	Yo Yo Pay Dozer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$45.75	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$43.38	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$45.75	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$40.84	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$30.74	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Refrigeration & Air Conditioning Mechanics</u>	Mechanic	\$65.52	<u>5A</u>	<u>1G</u>	
Snohomish	<u>Residential Brick Mason</u>	Journey Level	\$20.00		<u>1</u>	
Snohomish	<u>Residential Carpenters</u>	Journey Level	\$40.66	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Residential Cement Masons</u>	Journey Level	\$14.00		<u>1</u>	
Snohomish	<u>Residential Drywall Applicators</u>	Journey Level	\$40.64	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Residential Drywall Tapers</u>	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>	
Snohomish	<u>Residential Electricians</u>	Journey Level	\$32.24	<u>7F</u>	<u>1D</u>	
Snohomish	<u>Residential Glaziers</u>	Journey Level	\$38.40	<u>7L</u>	<u>1H</u>	
Snohomish	<u>Residential Insulation Applicators</u>	Journey Level	\$25.68		<u>1</u>	
Snohomish	<u>Residential Laborers</u>	Journey Level	\$20.73		<u>1</u>	
Snohomish	<u>Residential Marble Setters</u>	Journey Level	\$30.74		<u>1</u>	
Snohomish	<u>Residential Painters</u>	Journey Level	\$17.46		<u>1</u>	
Snohomish	<u>Residential Plumbers & Pipefitters</u>	Journey Level	\$28.99		<u>1</u>	
Snohomish	<u>Residential Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$37.72	<u>5A</u>	<u>1G</u>	
Snohomish	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$43.46	<u>7F</u>	<u>1R</u>	

Snohomish	<u>Residential Soft Floor Layers</u>	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>	
Snohomish	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$42.73	<u>5C</u>	<u>2R</u>	
Snohomish	<u>Residential Stone Masons</u>	Journey Level	\$30.74		<u>1</u>	
Snohomish	<u>Residential Terrazzo Workers</u>	Journey Level	\$9.47		<u>1</u>	
Snohomish	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$21.60		<u>1</u>	
Snohomish	<u>Residential Tile Setters</u>	Journey Level	\$25.17		<u>1</u>	
Snohomish	<u>Roofers</u>	Journey Level	\$46.46	<u>5A</u>	<u>3H</u>	
Snohomish	<u>Roofers</u>	Using Irritable Bituminous Materials	\$49.46	<u>5A</u>	<u>3H</u>	
Snohomish	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$72.83	<u>7F</u>	<u>1E</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Boilermaker	\$40.87	<u>7M</u>	<u>1H</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Carpenter	\$39.46	<u>7R</u>	<u>2B</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Electrician	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Heat & Frost Insulator	\$63.18	<u>5J</u>	<u>1S</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Laborer	\$27.88	<u>5T</u>	<u>3E</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Machinist	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Painter	\$39.35	<u>6Z</u>	<u>2B</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Shipfitter	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Welder/Burner	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	<u>Sign Makers & Installers (Electrical)</u>	Sign Installer	\$26.56		<u>1</u>	
Snohomish	<u>Sign Makers & Installers (Electrical)</u>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	<u>Sign Makers & Installers (Non-Electrical)</u>	Sign Installer	\$22.56		<u>1</u>	
Snohomish	<u>Sign Makers & Installers (Non-Electrical)</u>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	<u>Soft Floor Layers</u>	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>	
Snohomish	<u>Solar Controls For Windows</u>	Journey Level	\$9.47		<u>1</u>	
Snohomish	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$70.14	<u>5C</u>	<u>1X</u>	
Snohomish	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>	
Snohomish	<u>Stone Masons</u>	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$15.00		<u>1</u>	
Snohomish	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Surveyors</u>	Chainman	\$55.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Surveyors</u>	Construction Site Surveyor	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<u>Telecommunication Technicians</u>	Journey Level	\$22.38		<u>1</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Cable Splicer	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u>	Hole Digger/Ground Person	\$20.79	<u>5A</u>	<u>2B</u>	

	<u>Outside</u>					
Snohomish	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$36.02	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$36.82	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$34.94	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$34.93	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$19.73	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$26.31	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$31.50	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Television Technician	\$28.23	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$34.93	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Terrazzo Workers</u>	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Tile Setters</u>	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Tile, Marble & Terrazzo Finishers</u>	Finisher	\$38.29	<u>5A</u>	<u>1B</u>	
Snohomish	<u>Traffic Control Stripers</u>	Journey Level	\$43.73	<u>7A</u>	<u>1K</u>	
Snohomish	<u>Truck Drivers</u>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<u>Truck Drivers</u>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<u>Truck Drivers</u>	Dump Truck	\$37.94		<u>1</u>	
Snohomish	<u>Truck Drivers</u>	Dump Truck And Trailer	\$38.52		<u>1</u>	
Snohomish	<u>Truck Drivers</u>	Other Trucks	\$38.52		<u>1</u>	
Snohomish	<u>Truck Drivers</u>	Transit Mixer	\$34.63		<u>1</u>	
Snohomish	<u>Well Drillers & Irrigation Pump Installers</u>	Irrigation Pump Installer	\$17.05		<u>1</u>	
Snohomish	<u>Well Drillers & Irrigation Pump Installers</u>	Oiler	\$13.93		<u>1</u>	
Snohomish	<u>Well Drillers & Irrigation Pump Installers</u>	Well Driller	\$19.01		<u>1</u>	