

Set No. \_\_\_\_\_

**Specifications, Proposal,  
and Contract Documents for:**

**CSD 1547 / 2015 Aging  
Infrastructure  
JOB NO. 54-16-PW**



**City of Kirkland  
Department of Public Works  
123 Fifth Avenue  
Kirkland, Washington 98033**

**CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS**

**CSD 1547 / 2015 Aging Infrastructure  
CSD NO. CSD-1547  
JOB NO. 54-16-PW**

***Certificate of Engineer:***

The Special Provisions and drawings contained herein have been prepared by or under the direction of the undersigned, whose seal as a Professional Engineer licensed to practice in the State of Washington, is affixed below.

Phoebe Johannessen, P.E.  
Project Engineer



***Approved for Construction:***

---

Dave Snider, P.E.  
Capital Projects Manager



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# **GENERAL INFORMATION, PROPOSAL, & CONTRACT**



**City of Kirkland**

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# CITY OF KIRKLAND

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**MUST BE SUBMITTED WITH PROPOSAL**

## **INVITATION TO BID**

Notice is hereby given that the City of Kirkland will receive sealed bids in the office of the Purchasing Agent, City Hall, 123 Fifth Avenue, Kirkland, Washington, at 2:00pm, local time on November 29, 2016, for the project hereinafter referred to as:

### **CSD 1547 / 2015 Aging Infrastructure**

#### **JOB NO. 54-16-PW**

At said time all bids will be opened and publicly read aloud. Each bid shall be accompanied by a bid proposal deposit in the form of a cashier's check or a bond issued on a form acceptable to your surety made payable to the City of Kirkland for a sum of not less than five percent (5%) of the total bid amount. No bid shall be considered unless accompanied by such bid proposal deposit. Incomplete proposals and proposals received after the time stated above will not be considered. Faxed or emailed responses are not acceptable.

The work to be performed under these specifications consists of furnishing all labor, tools, materials, and equipment necessary for construction of the **CSD 1547 / 2015 Aging Infrastructure**. Specific work includes, but is not limited to, the installation of 12" storm drain pipe, abandonment of existing storm drains, replacement of curb and gutter, sidewalk, and asphalt patch. The estimated cost for this project is in a range of \$90,000 to \$110,000.

The City will not sell bid packages. Plans, specifications, and addenda may be viewed and obtained online at [www.bxwa.com](http://www.bxwa.com). Click on: "Posted Projects"; "Public Works"; "City of Kirkland". The Bidders List is maintained by the Builder's Exchange of Washington, Inc. Registration for the bidder's list may be made online, by phoning (425) 258-1303, or at Builder's Exchange of Washington located at 2607 Wetmore Ave, Everett, WA.

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

Questions regarding this project shall be submitted in writing to Lane Kawaoka via fax (425) 587-3844. Questions via phone or email will not be accepted. Bidders shall submit questions no later than November 22, 2016.

The City reserves the right to reject any and all bids, and to waive any informalities in the bidding, and to make the award to the lowest, responsive, responsible bidder as best serves the interests of the City.

No bids may be withdrawn within forty-five (45) days after the actual date of the bid opening.

Published: Daily Journal of Commerce – November 15

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**CITY OF KIRKLAND  
BIDDER RESPONSIBILITY CRITERIA**

It is the intent of City to award a contract to the low responsible bidder. Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria. The bidder must:

- 1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
- 2. Have a current Washington Unified Business Identifier (UBI) number;
- 3. Have:
  - a. Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - b. A Washington Employment Security Department number, as required in Title 50 RCW;
  - c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
- 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).
- 5. Until December 31, 2013, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
- 6. For public works projects subject to the apprenticeship utilization requirements of RCW 3.0.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

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**CITY OF KIRKLAND  
SUBCONTRACTOR RESPONSIBILITY CRITERIA**

- A. The Contractor shall include the language of this section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this section apply to all subcontractors regardless of tier.
  
- B. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria:
  - 1. Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
  
  - 2. Have a current Washington Unified Business Identifier (UBI) number;
  
  - 3. Have:
    - a) Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RC
    - b) A Washington Employment Security Department number, as required in Title 50 RCW;
    - c) A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
    - d) An electrical contractor license, if required by Chapter 19.28 RCW;
    - e) An elevator contractor license, if required by Chapter 70.87 RCW.
  
  - 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3).
  
  - 5. Until December 31, 2013, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
  
  - 6. For public works projects subject to the apprenticeship utilization requirements of RCW 3.0.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

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**CITY OF KIRKLAND  
INFORMATION FOR BIDDERS**

Bidders must bid on all items contained in the proposal.

The omission or deletion of any bid item will be considered non-responsive and shall be cause for rejection of the bid.

Submit your proposal on the Bid Proposal and other forms which are enclosed, or make a copy of the required forms and submit these documents.

**The following forms must be executed in full with submittal of the bid:**

1. BIDDER RESPONSIBILITY CRITERIA CHECKLIST
2. SUBCONTRACTOR RESPONSIBILITY CRITERIA CHECKLIST
3. PROPOSAL

The lump sum or unit prices must be shown in the spaces provided on the bid schedule. Show total bid price in both words and figures on the Proposal. The Proposal form must be completed in full, signed and dated.
4. BID BOND

A surety issued bid bond must be executed by the bidder and its surety company. The amount of the bid bond shall be not less than five percent (5%) of the total amount bid and may be shown in dollars or on a percentage basis. (A cashier's check payable to the City of Kirkland and issued for an amount not less than 5% of the total bid may be submitted in lieu of a bid bond.)
5. NONCOLLUSION AFFIDAVIT - Notarized
6. STATEMENT OF BIDDER'S QUALIFICATIONS

This form must be filled in and signed. The owner reserves the right to check all statements and to judge the adequacy of the bidder's qualifications.
7. SUBCONTRACTOR IDENTIFICATION LIST

This form must be completed for HVAC, plumbing, and electrical subcontractors if the bid amount exceeds \$1,000,000.

**The following forms are to be executed after the contract is awarded:**

1. CONTRACT

This agreement is to be executed by the successful bidder.
2. PERFORMANCE AND PAYMENT BOND

To be executed by the successful bidder and its surety company.
3. CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY RETAINED PERCENTAGE; RETAINED PERCENTAGE ESCROW AGREEMENT

To be executed by the successful bidder based on bidder's selection of option.
4. CERTIFICATES OF INSURANCE

To be executed by the successful bidder and by an acceptable insurance company. The City of Kirkland must be named as an additional insured.
5. STATEMENT(S) OF INTENT TO PAY PREVAILING WAGES

Affidavit certifying all employees of Contractor and Subcontractor shall be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Washington State Department of Labor and Industries.

**SPECIAL NOTE: Prior to commencing work, the contractor and all subcontractors must have applied and paid for a City of Kirkland business license.**

**CITY OF KIRKLAND  
BID PROPOSAL**



CSD 1547 / 2015 AGING INFRASTRUCTURE  
JOB NO. 54-16-PW

**To:** Director of Finance  
City of Kirkland  
123 Fifth Avenue  
Kirkland, Washington 98033

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this proposal are those named herein; that this proposal is in all respects fair and without fraud; that it is made without collusion with any official or employee of the City of Kirkland, hereinafter called the Owner; and that the proposal is made without any connection or collusion with any person making another proposal on this contract.

The bidder further declares that it has carefully examined the contract documents for the construction of the project; that it has personally inspected the site; that it has satisfied itself as to the quantities involved, including materials and equipment and conditions of work involved, including the fact that the description of the quantities of work materials, as included herein, is brief and is 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 provisions and under the terms of the contract documents, which documents are hereby made a part of this proposal.

The bidder further agrees that it has exercised its own judgment regarding the interpretation of subsurface information and has utilized all data which it believes pertinent from the engineer-architect, owner, and other sources in arriving at its conclusions.

The bidder agrees to hold its bid proposal open for 45 days after the actual date of bid opening and to accept the provisions of the Instructions to Bidders regarding disposition of bid bond.

The bidder agrees that if this proposal is accepted, it will, within ten (10) calendar days after notification of acceptance, execute the contract with the Owner in the form of contract included in the contract documents, and will, at the time of execution of the contract, deliver to the Owner the Performance and Payment Bond and all Certificates of Insurance required therein, and will, to the extent of its proposals, 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 as specified in the contract documents and required by the engineer or other project manager designated thereunder.

The bidder further agrees, if awarded the contract, to begin work within ten (10) calendar days after the date of the execution of the contract and to complete the construction within the time specified in Section 1-08.5 of the Special Provisions.

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 further proposes to accept as full payment for the work proposed herein, the amounts computed under the provisions of the contract documents and based upon the lump sum and unit

**MUST BE SUBMITTED WITH PROPOSAL**

price amounts entered by the bidder for the various bid items included in the Bid Schedule. The bidder further agrees the lump sum and unit prices entered for the various bid items included in the Bid Schedule include all use taxes, overhead, profit, bond premiums, insurance premiums and all other miscellaneous and incidental expenses as well as all costs of materials, labor, tools and equipment required to perform and complete the work.

The undersigned bids and agrees to complete all construction of the CSD 1547 / 2015 AGING INFRASTRUCTURE for the following:

Total Computed Price (*in figures*): \$ \_\_\_\_\_  
Washington State Sales Tax: \$ N/A (per rule 171)  
Total Bid (*in figures*): \$ \_\_\_\_\_  
Total Bid (*in words*): \_\_\_\_\_  
\_\_\_\_\_

Receipt of Addenda No(s). \_\_\_\_\_ is hereby acknowledged.

\_\_\_\_\_  
CONTRACTOR (Firm Name)

\_\_\_\_\_  
By

\_\_\_\_\_  
Name and title of person signing

\_\_\_\_\_  
(Indicate whether Contractor is Partnership,  
Corporation, or Sole Proprietorship)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Washington State Contractor's  
Registration Number

\_\_\_\_\_  
Contractor's Industrial Insurance  
Account Number

\_\_\_\_\_  
Employment Security Identification  
Number

\_\_\_\_\_  
Uniform Business Identification  
(UBI) Number

\_\_\_\_\_  
Contractor's Address:

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
EMAIL

\*\* Bid proposal to be submitted in a **sealed envelope** marked "**Bid Enclosed**" for CSD 1547 / 2015 AGING INFRASTRUCTURE.

**CITY OF KIRKLAND  
BID SCHEDULE**

CSD 1547 / 2015 AGING INFRASTRUCTURE  
JOB NO. 54-16-PW

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

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
<b>SECTION 1: PREPARATION</b>						
1	MOBILIZATION	1-09	1	L.S.		
2	REMOVING CEMENT CONC. SIDEWALK	2-02	20	S.Y.		
3	REMOVING AND SALVAGING CHAIN LINK FENCE	2-02	30	L.F.		
4	REMOVING AND SALVAGING WOOD FENCE	2-02	20	L.F.		
5	CAP AND ABANDON STORM SEWER PIPE	2-02	1	L.S.		
<b>SECTION 2: GRADING</b>						
6	GRAVEL BORROW INCL. HAUL	2-03	20	TON		
<b>SECTION 5: STORM SEWER</b>						
7	CATCH BASIN TYPE 2 54 IN. DIAM.	7-05	2	EACH		
8	SOLID WALL PVC STORM SEWER PIPE 12 IN. DIAM.	7-04	293	L.F.		
<b>SECTION 9: SURFACING</b>						
9	CRUSHED SURFACING TOP COURSE	4-04	310	TON		
<b>SECTION 14: HOT MIX ASPHALT</b>						
10	HMA CL. 1/2 IN. PG 64-22	5-04	50	TON		
<b>SECTION 17: EROSION CONTROL AND ROADSIDE RESTORATION</b>						
11	ESC LEAD	8-01	5	DAY		
12	INLET PROTECTION	8-01	5	EACH		
13	EROSION/WATER POLLUTION CONTROL	8-01	1	EST	\$ 2,000.00	\$ 2,000.00
14	SEEDING AND FERTILIZING BY HAND	8-01	40	S.Y.		

**MUST BE SUBMITTED WITH PROPOSAL**

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
15	TOPSOIL TYPE A	8-02	10	C.Y.		
16	STORMWATER BYPASS	8-01	1	L.S.		
	<b>SECTION 18: TRAFFIC</b>					
17	CEMENT CONC. TRAFFIC CURB AND GUTTER	8-04	30	L.F.		
18	PROJECT TEMPORARY TRAFFIC CONTROL	1-10	1	L.S.		
19	FLAGGERS AND SPOTTERS	1-10	240	HR		
	<b>SECTION 19: OTHER ITEMS</b>					
20	STRUCTURE EXCAVATION CLASS B INCL. HAUL	2-09	260	C.Y.		
21	SHORING OR EXTRA EXCAVATION CLASS B	2-09	1890	S.F.		
22	CONSTRUCTION SURVEYING	1-05	1	L.S.		
23	CEMENT CONC. SIDEWALK	8-14	14	S.Y.		
24	REINSTALLING SALVAGED CHAIN LINK FENCE	8-12	92	L.F.		
25	REINSTALLING SALVAGED WOOD FENCE	8-12	20	L.F.		
26	POTHOLING	1-07	1	EST.	\$ 4,800.00	\$ 4,800.00
27	MINOR CHANGE	1-04	1	CALC	\$ 10,000.00	\$ 10,000.00
28	SPCC PLAN	1-07	1	L.S.		

**TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**



## BID DEPOSIT

Herewith find deposit in the form of a cashier's check or certified check in the amount of \$ \_\_\_\_\_ which amount is not less than five percent (5%) of the total bid.

SIGN HERE \_\_\_\_\_

## BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_,  
as Principal, and \_\_\_\_\_,  
as Surety, are held and firmly bound unto the City of Kirkland, 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

Project Name \_\_\_\_\_

Job Number \_\_\_\_\_

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

SIGNED, SEALED AND DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2016.

PRINCIPAL:

SURETY:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Note: If a Bid Bond is provided, it must be accompanied by a power of attorney which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this Bid Bond.



**CITY OF KIRKLAND  
STATEMENT OF BIDDER'S QUALIFICATIONS**

Contractor Name: \_\_\_\_\_ Contact: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Number of years the Contractor has been engaged in the construction business under the present firm name: \_\_\_\_\_

Describe the general character of work performed by your company: \_\_\_\_\_

List five projects of a similar nature which Contractor has completed within the last 10 years. Include contract amount and contact information for references:

Project Name	Amount	Owner/Agency	Contact	Phone	Year Completed

List major equipment anticipated to be used on this project; indicate whether Contractor-owned or to be leased from others: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bank reference(s): \_\_\_\_\_

Washington State Contractor Registration No.: \_\_\_\_\_

Uniform Business Identification No.: \_\_\_\_\_

I certify that other contracts now in progress or hereafter obtained will not interfere with timely performance of the City of Kirkland project should I become the successful bidder.

Authorized Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

=====

**CITY OF KIRKLAND  
SUBCONTRACTOR IDENTIFICATION LIST**

\*REQUIRED IF BID AMOUNT EXCEEDS \$1,000,000 (*Reference RCW 39.30.060 RCW*)

**Proposed Subcontractors and items of work to be performed:**

Subcontractor Name: \_\_\_\_\_

Item Numbers: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*- make additional pages if necessary -*

**Work to be performed by Prime Contractor:**

Item Numbers: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **CITY OF KIRKLAND BIDDER'S CHECKLIST**

1. Have you reviewed the Bidder Responsibility and Subcontractor Responsibility Criteria?
2. Have you enclosed a bid bond or certified check with your bid? (Must be at least 5% of the total amount bid)
3. Have you entered a bid amount for all items and all schedules?
4. Do the written amounts of the proposal agree with the amounts shown in the figures?
5. Have you acknowledged receipt of addenda?
6. Has the proposal been properly completed and signed?
7. Have you completed the Statement of Bidder's Qualifications?
8. Have you completed the City of Kirkland Non-collusion Affidavit?
9. Have you completed the Subcontractor Identification List? (This is to be completed for HVAC, plumbing, and electrical subcontractors if the amount bid exceeds \$1,000,000.)
10. Bid proposal to be submitted in a sealed envelope marked "Bid Enclosed" for CSD 1547 / 2015 AGING INFRASTRUCTURE.

# CONTRACT

## INFORMATION ONLY

The following forms must be executed and submitted by the successful bidder within ten (10) calendar days following Notice of Award.



# CITY OF KIRKLAND

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**CITY OF KIRKLAND**  
**PUBLIC WORKS CONTRACT**  
CSD 1547 / 2015 AGING INFRASTRUCTURE  
JOB NO. 54-16-PW

This agreement is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2016, by and between \_\_\_\_\_, hereinafter called the "Contractor" and the City of Kirkland, hereinafter called the "Owner."

WITNESSETH:

Whereas, pursuant to the invitation of the Owner extended through an officially published "Invitation to Bid," the Contractor did, in accordance therewith, file with the Owner a proposal containing an offer which was invited by said notice, and

Whereas, the Owner has heretofore determined that said offer was the lowest responsible bid submitted; now, therefore, it is agreed:

Section 1. That Contractor shall comply in every way with the requirements of those certain specifications entitled: "CSD 1547 / 2015 AGING INFRASTRUCTURE; JOB NO. 54-16-PW."

The further terms, conditions and covenants of the contract are set forth in the following contract documents which are hereby made a part of this agreement by actual attachment or by this reference thereto as follows:

- A. Any Invitation To Bid, as published by the Owner.
- B. Any Specifications prepared for this project by the Owner and named above by title.
- C. Any detailed Plans listed and described in said Specifications, together with those which may be issued as supplements thereof.
- D. The bid proposals submitted by the Contractor as to those items and/or alternatives accepted by the Owner.
- E. Any change orders, additions or deletions, if any, issued by the Owner.

Section 2. In consideration of faithful compliance with the terms and conditions of this agreement, whether set forth herein or incorporated by reference, the Owner shall pay to the Contractor, at the times and in the manner provided in said specifications, the total sum of (\$ \_\_\_\_\_) \_\_\_\_\_ dollars which sum is subject, however, to increase or decrease in such proportion as the quantities named in said proposal are so changed, all as in said specifications and proposal provided.



**PERFORMANCE BOND**

Bond No. \_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS, that \_\_\_\_\_, (insert name of Contractor) as Principal, and \_\_\_\_\_, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of \_\_\_\_\_, (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland in the sum of \_\_\_\_\_dollars (\$\_\_\_\_\_), lawful money of the United States of America, plus the total amount of extra orders issued by the City of Kirkland to the Principal pursuant to the terms of the Contract referred to in the next succeeding paragraph hereof, for the payment whereof Principal and Surety bind ourselves, and our heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has been awarded, and is about to enter into, a written Contract with the City of Kirkland for (project name) \_\_\_\_\_, which is hereby made a part of this bond as if fully set forth herein;

NOW, THEREFORE, the condition of this bond is such that:

If the Principal shall completely and faithfully perform all of its obligations under the Contract, including any warranties required thereunder, and all modifications, amendments, additions, and alterations thereto, including modifications which increase the contract price or time for completion, with or without notice to the surety; and

If the Principal shall indemnify and hold the City of Kirkland harmless from any and all losses, liability, damages, claims, judgments, liens, costs, and fees of any type that the City of Kirkland may be subject to because of the failure or default of the Principal in the performance of any of the terms, conditions, or obligations of the Contract, including all modifications, amendments, additions, and alterations thereto, and any warranties required thereunder;

THEN THIS obligation shall be null and void; otherwise to remain in full force and effect. If City of Kirkland shall declare Principal to be in default of the Contract, and shall so notify Surety, Surety shall, within a reasonable time which shall not exceed 14 days, except for good cause shown, notify the City of Kirkland in writing of the manner in which surety will satisfy its obligations under this Bond.

Nonpayment of the Bond premium will not invalidate this Bond nor shall the City of Kirkland be obligated for the payment thereof. The Surety hereby waives notice of any modification of the Contract or extension of time made by the City of Kirkland.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Principal: \_\_\_\_\_

Surety: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

City/Zip: \_\_\_\_\_

City/Zip: \_\_\_\_\_

Telephone: ( ) \_\_\_\_\_

Telephone: ( ) \_\_\_\_\_

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this performance bond.

**LABOR AND MATERIAL PAYMENT BOND**

Bond No. \_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS, that, \_\_\_\_\_ (insert name of Contractor) as Principal, and \_\_\_\_\_, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of \_\_\_\_\_ (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland, for the use and benefit of claimants as hereinafter defined, in the sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_), lawful money of the United States of America, plus the total amount of any extra orders issued by the City of Kirkland, for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has been awarded, and is about to enter into, a Contract with the City of Kirkland for (project name) \_\_\_\_\_, which contract is by this reference made a part hereof;

WHEREAS, the contract is a public works contract, subject to the provisions of RCW Title 39;

NOW, THEREFORE, the conditions of this obligation are such that, if the Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the contract, then this obligation shall be void; otherwise, it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as a person claiming to have supplied labor or materials for the prosecution of the work provided for in the contract, including any person having direct contractual relationship with the contractor furnishing the bond or direct contractual relationship with any subcontractor, or an assignee of such person.
2. The Principal and Surety hereby jointly and severally agree with the City of Kirkland that every claimant as herein defined, who has not been paid in full prior to Final Acceptance of the Project, or materials were furnished by such claimant, has an action on this bond for such sum or sums as may be justly due claimant, and may have execution thereon. The City of Kirkland shall not be liable for the payment of any costs or expenses of any such suit or action.
3. No suit or action shall be commenced hereunder by any claimant unless the claimant has sent the written notice required under RCW Title 39 to the Principal and to the City of Kirkland's Purchasing Agent by registered or certified mail, or by hand delivery, no later than 30 days after Final Acceptance of the Project.
4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against the improvement, whether or not claim for the amount of such lien be presented under and against this bond.

The Surety hereby waives notice of any modification of the contract or extension of time made by the City of Kirkland.

SIGNED this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Principal: \_\_\_\_\_ Surety: \_\_\_\_\_

By: \_\_\_\_\_ By: \_\_\_\_\_

Title: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

City/Zip: \_\_\_\_\_ City/Zip: \_\_\_\_\_

Telephone: ( ) \_\_\_\_\_ Telephone: ( ) \_\_\_\_\_

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this payment and material bond.



**CITY OF KIRKLAND  
OPTION TO INCREASE RETAINED PERCENTAGE  
IN LIEU OF POSTING PERFORMANCE AND PAYMENT BOND**

City of Kirkland Project: CSD 1547 / 2015 AGING INFRASTRUCTURE, JOB NO. 54-16-PW

Contractor:

---

The undersigned Contractor on the above identified City of Kirkland Public Works Project hereby elects to take the option provided by RCW 39-08-010 to authorize the City of Kirkland to retain fifty percent (50%) of the total contract price for a period of thirty (30) days after the date of final acceptance of the work to be performed on the above referenced contract, or until receipt of all necessary releases from the Department of Revenue and the Department of Labor and Industries, and the settlement of any liens which may be filed under RCW Chapter 60.28, whichever is later.

The undersigned certifies that the total contract price is \$35,000 or less, including applicable sales tax.

DATED this \_\_\_\_\_ day of \_\_\_\_\_, 2016

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print of Type Name

\_\_\_\_\_  
Title

**CITY OF KIRKLAND  
CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT  
OF STATUTORY RETAINED PERCENTAGE  
CSD 1547 / 2015 AGING INFRASTRUCTURE  
JOB NO. 54-16-PW**

Monies reserved under provisions of Chapter 60.28 RCW, at the option of the Contractor, shall be:

Select  
One

- (1) Retained in a fund by the City. No interest will be earned on the retained percentage amount under this election.
  
- (2) Retainage Bond
  
- (3) Placed in escrow with a bank or trust company by the City. When the monies reserved are to be placed in escrow, the City will issue a check representing the sum of the monies reserved payable to the bank or trust company and the Contractor jointly. Such check shall be converted into bonds and securities chosen by the Contractor and approved by the City and the bonds and securities held in escrow. (For the convenience of those Contractors choosing option (3) a City approved Form of Escrow Agreement is included on the next page and should be completed and submitted with the executed contract.)

*The Contractor in choosing option (3) agrees to assume full responsibility to pay all costs which may accrue from escrow services, brokerage charges or both, and further agrees to assume all risks in connection with the investment of the retained percentages in securities.*

- (4) Deposited by the City in an interest-bearing account at the FDIC insured bank currently providing contracted banking services to the City of Kirkland. Interest on such account shall be paid to the contractor. Any fees incurred shall be the responsibility of the contractor.

CONTRACTOR:

Signature: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**RETAINAGE BOND**  
**RETURN THIS FORM IF RETAINAGE BOND OPTION IS SELECTED**

Contract Title	
Contract Number	
Contractor Name	

The Undersigned, \_\_\_\_\_, existing under and by virtue of the laws of the State of Washington and authorized to do business in the State of Washington as Principal, and \_\_\_\_\_ organized and existing under the laws of the State of \_\_\_\_\_ and authorized to transact business in the State of Washington as Surety, are jointly and severally held and bound unto \_\_\_\_\_, hereinafter called Obligee, and are similarly held and bound unto the beneficiaries of the trust fund created by RCW 60.28, in the penal sum of

(\$ \_\_\_\_\_), Which is \_\_\_\_ % of the principal's price on Contract ID \_\_\_\_\_.

WHEREAS, on the \_\_\_\_\_ day of \_\_\_\_\_, 2016, the said principal herein executed a contract with the Obligee, for the Contract specified above, Contract ID Number \_\_\_\_\_.

WHEREAS, said contract and RCW 60.28 require the Obligee to withhold from the Principal the sum of \_\_\_\_% from monies earned on estimates during the progress of the construction, herein after referred to as earned retained funds.

NOW WHEREAS, Principal has requested that the Obligee not retain any earned retained funds as allowed under RCW 60.28.

NOW THEREFORE, the condition of the obligation is such that the Principal and Surety are held and bound unto the beneficiaries of the trust fund created by RCW 60.28 in the penal sum of \_\_\_\_\_ percent (\_\_\_\_%) of the final contract cost which shall include any increases due to change orders, increases in quantities of work or the addition of any new item of work. If the Principal shall use the earned retained funds, which will not be retained, for the trust fund purposes of RCW 60.28, then this obligation shall be null and void; otherwise, it shall remain in full force and effect until release is authorized in writing by the Obligee. This bond and any proceeds therefrom shall be made subject to all claims and liens and in the same manner and priority as set forth for retained percentages in RCW 60.28.

PROVIDED HOWEVER, that:

1. The liability of the surety under this bond shall not exceed 5% or 50% of the total amount earned by the Principal if no monies are retained by the Obligee on estimates during the progress of construction.
2. Any suit under this bond must be instituted within the time provided by applicable law.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

**SURETY**

**PRINCIPAL**

By: \_\_\_\_\_  
Name/Title

By: \_\_\_\_\_  
Name/Title

OF: \_\_\_\_\_

OF: \_\_\_\_\_

Surety Name and Local Office of Agent: \_\_\_\_\_

Surety Address and Phone of Local Office and Agent: \_\_\_\_\_

\_\_\_\_\_

**CITY OF KIRKLAND  
RETAINED PERCENTAGE ESCROW AGREEMENT**

CSD 1547 / 2015 AGING INFRASTRUCTURE

JOB NO. 54-16-PW

Escrow No. \_\_\_\_\_

City of Kirkland  
123 Fifth Avenue  
Kirkland, Washington 98033

Contractor: \_\_\_\_\_

Address: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO: Escrow Bank or Trust Company:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Attention: \_\_\_\_\_

The undersigned, \_\_\_\_\_, herein referred to as the Contractor, has directed the City of Kirkland 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 Kirkland. Attached is a list of such bonds, or other securities approved by the City of Kirkland. Other bonds or securities, except stocks, may be selected by the Contractor, subject to the express written approval of the City of Kirkland. 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 at the direction of the City of Kirkland and Contractor.
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 Kirkland's warrants) except in accordance with written instructions from the City of Kirkland. 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 \_\_\_\_\_.
4. The Contractor agrees to pay you as compensation for your services hereunder as follows:  
  
Payment of all fees shall be the sole 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 Kirkland 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 hereinabove. 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 modification 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.
5. This agreement shall not be binding until executed by the Contractor and the City of Kirkland and accepted by you.
6. This instrument contains the entire agreement between you, the Contractor and the City of Kirkland, with respect to this escrow and you are not a part 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.
7. The foregoing provisions shall be binding upon the assigns, successors, personal representatives, and heirs of the parties hereto.
8. The Contractor's Federal Income Tax Identification number is \_\_\_\_\_.

\*\* Please note: Written release will be issued by the Director of Finance & Administration. For further information, contact the Purchasing Agent at (425) 587-3123.

Retained Percentage Escrow Agreement (continued)

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 KIRKLAND:

By: \_\_\_\_\_  
Signature

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

Address: \_\_\_\_\_  
\_\_\_\_\_

123 Fifth Avenue  
Kirkland, Washington 98033

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

ESCROW BANK OR TRUST CO:

\_\_\_\_\_  
By: \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

Securities Authorized by City of Kirkland (select 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.

**RETURN THIS SIGNED AGREEMENT TO:**

City of Kirkland  
Attn: Purchasing Agent  
123 Fifth Avenue  
Kirkland, Washington 98033

# CITY OF KIRKLAND RETAINAGE RELEASE REQUIREMENTS

## DOCUMENTS REQUIRED TO BE ON FILE PRIOR TO RELEASE OF RETAINAGE

1. Intent to Pay Prevailing Wage (Contractor generates)

Department of Labor/Industries  
Employment Standards Division  
General Administration Building  
Olympia, Washington 98504  
(360) 956-5335

2. Notice of Completion of Public Works Contract (City generates)

Department of Revenue  
Excise Tax Division  
Olympia, Washington 98504

3. Affidavit of Wages Paid (Contractor generates)

Department of Labor/Industries

4. Certificate of Release - State Excise Tax by Public Works Contractor (Letter from State to City)

Department of Revenue

5. Verification of compliance with Industrial Insurance requirements

Department of Labor/Industries

6. Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City (Responsibility of Contractor to obtain)

Claims against retainage or Payment Bond filed with City by any such subcontractor, workman, or material supplier.

# **AMENDMENTS TO THE STANDARD SPECIFICATIONS**



**City of Kirkland**

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1 **INTRODUCTION**

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

4  
5 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**  
6

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

11  
12 Each Amendment contains all current revisions to the applicable section of the Standard  
13 Specifications and may include references which do not apply to this particular project.

14  
15 **Section 1-01, Definitions and Terms**  
16 **August 1, 2016**

17 **1-01.3 Definitions**

18 The following new term and definition is inserted after the eighth paragraph:

19  
20 **Cold Weather Protection Period** – A period of time 7 days from the day of concrete  
21 placement or the duration of the cure period, whichever is longer.

22  
23 **Section 1-02, Bid Procedures and Conditions**  
24 **April 4, 2016**

25 **1-02.4(1) General**

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

27  
28 Any prospective Bidder desiring an explanation or interpretation of the Bid Documents,  
29 shall request the explanation or interpretation in writing by close of business on the  
30 Thursday preceding the bid opening to allow a written reply to reach all prospective Bidders  
31 before the submission of their Bids.

32  
33 **1-02.9 Delivery of Proposal**

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

35  
36 The Contracting Agency will not open or consider any Proposal when the Proposal or Bid  
37 deposit is received after the time specified for receipt of Proposals or received in a location  
38 other than that specified for receipt of Proposals unless an emergency or unanticipated  
39 event interrupts normal work processes of the Contracting Agency so that Proposals  
40 cannot be received.

41  
42 The following new paragraph is inserted before the last paragraph:

43  
44 If an emergency or unanticipated event interrupts normal work processes of the Contracting  
45 Agency so that Proposals cannot be received at the office designated for receipt of bids as  
46 specified in Section 1-02.12 the time specified for receipt of the Proposal will be deemed to  
47 be extended to the same time of day specified in the solicitation on the first work day on  
48 which the normal work processes of the Contracting Agency resume.

1  
2 **1-02.12 Public Opening of Proposals**

3 This section is supplemented with the following new paragraph:  
4

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

10  
11 **Section 1-04, Scope of the Work**  
12 **August 1, 2016**

13 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**  
14 **Specifications, and Addenda**

15 The following new paragraph is inserted before the second to last paragraph:  
16

17 Whenever reference is made in these Specifications or the Special Provisions to codes,  
18 rules, specifications, and standards, the reference shall be construed to mean the code,  
19 rule, specification, or standard that is in effect on the Bid advertisement date, unless  
20 otherwise stated or as required by law.  
21

22 **Section 1-06, Control of Material**  
23 **January 4, 2016**

24 This section is supplemented with the following new section and subsections:  
25

26 **1-06.6 Recycled Materials**

27 The Contractor shall make their best effort to utilize recycled materials in the construction of  
28 the project; the use of recycled concrete aggregate as specified in Section 1-06.6(1)A is a  
29 requirement of the Contract.  
30

31 The Contractor shall submit a Recycled Material Utilization Plan as a Type 1 Working  
32 Drawing within 30 calendar days after the Contract is executed. The plan shall provide the  
33 Contractor's anticipated usage of recycled materials for meeting the requirements of these  
34 Specifications. The quantity of recycled materials will be provided in tons and as a  
35 percentage of the Plan quantity for each material listed in Section 9-03.21(1)E Table on  
36 Maximum Allowable Percent (By Weight) of Recycled Material. When a Contract does not  
37 include Work that requires the use of a material that is included in the requirements for  
38 using materials the Contractor may state in their plan that no recycled materials are  
39 proposed for use.  
40

41 Prior to Physical Completion the Contractor shall report the quantity of recycled materials  
42 that were utilized in the construction of the project for each of the items listed in Section 9-  
43 03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled  
44 glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and  
45 aggregates from concrete returned to the supplier). The Contractor's report shall be  
46 provided on DOT Form 350-075 Recycled Materials Reporting.  
47

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

2  
3 **1-06.6(1)A General**

4 The minimum quantity of recycled concrete aggregate shall be 25 percent of the total  
5 quantity of aggregate that is incorporated into the Contract for those items listed in Section  
6 9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled Material that  
7 allow the use of recycled concrete aggregate. The percentage of recycled material  
8 incorporated into the project for meeting the required percentage will be calculated in tons  
9 based on the quantity of recycled concrete used on the entire Contract and not as  
10 individual items.

11  
12 If the Contractor's total cost for Work with recycled concrete aggregate is greater than  
13 without the Contractor may choose to not use recycled concrete aggregate. When the  
14 Contractor does not meet the minimum requirement of 25 percent recycled concrete  
15 aggregate for the Contract due to costs or any other reason the following shall be  
16 submitted:

- 17  
18 1. A cost estimate for each material listed in Section 9-03.21(1)E that is utilized on  
19 the Contract. The cost estimate shall include the following:  
20  
21 a. The estimated costs for the Work for each material with 25 percent recycled  
22 concrete aggregate. The cost estimate shall include for each material a copy  
23 of the price quote from the supplier with the lowest total cost for the Work.  
24  
25 b. The estimated costs for the Work for each material without recycled concrete  
26 aggregate.

27  
28 The Contractor's cost estimates shall be submitted as an attachment to the Recycled  
29 Materials Reporting form.  
30

31 **Section 1-07, Legal Relations and Responsibilities to the Public**  
32 **August 1, 2016**

33 **1-07.1 Laws to be Observed**

34 In the second to last sentence of the third paragraph, "WSDOT" is revised to read "Contracting  
35 Agency".  
36

37 **1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax**

38 The last three sentences of the first paragraph are deleted and replaced with the following new  
39 sentence:  
40

41 The Contractor (Prime or Subcontractor) shall include sales or use tax on the purchase or  
42 rental of tools, machinery, equipment, or consumable supplies not integrated into the  
43 project, in the unit bid prices.  
44

45 **1-07.9(2) Posting Notices**

46 Items 1 and 2 are revised to read:  
47

- 1 1. EEOC - P/E-1 (revised 11/09, supplemented 09/15) – **Equal Employment**  
2 **Opportunity IS THE LAW** published by US Department of Labor. Post for projects  
3 with federal-aid funding.  
4
- 5 2. FHWA 1022 (revised 05/15) – **NOTICE Federal-Aid Project** published by Federal  
6 Highway Administration (FHWA). Post for projects with federal-aid funding.  
7

8 Items 5, 6 and 7 are revised to read:

- 9
- 10 5. WHD 1420 (revised 02/13) – **Employee Rights and Responsibilities Under The**  
11 **Family And Medical Leave Act** published by US Department of Labor. Post on all  
12 projects.  
13
- 14 6. WHD 1462 (revised 01/16) – **Employee Polygraph Protection Act** published by US  
15 Department of Labor. Post on all projects.  
16
- 17 7. F416-081-909 (revised 09/15) – **Job Safety and Health Law** published by Washington  
18 State Department of Labor and Industries. Post on all projects.  
19

20 Items 9 and 10 are revised to read:

- 21
- 22 9. F700-074-909 (revised 06/13) – **Your Rights as a Worker in Washington State** by  
23 Washington State Department of Labor and Industries (L&I). Post on all projects.  
24
- 25 10. EMS 9874 (revised 10/15) – **Unemployment Benefits** published by Washington State  
26 Employment Security Department. Post on all projects.  
27

### 28 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

29 The second sentence of the first paragraph is deleted.

30  
31 The first sentence of the second paragraph is revised to read:

32  
33 The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and other  
34 materials defined in Chapter 447 of the WSDOT Environmental Manual M 31-11.  
35

36 Item number four of the fourth paragraph (up until the colon) is revised to read:

- 37
- 38 4. **Potential Spill Sources** – Describe each of the following for all potentially hazardous  
39 materials brought or generated on-site, including but not limited to materials used for  
40 equipment operation, refueling, maintenance, or cleaning:  
41

42 The first sentence of item 7e of the fourth paragraph is revised to read:

43  
44 BMP methods and locations where they are used to prevent discharges to ground or water  
45 during mixing and transfer of hazardous materials and fuel.  
46

47 The last paragraph is deleted.  
48

1 **Section 1-08, Prosecution and Progress**  
2 **August 1, 2016**

3 **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage**  
4 **Withheld**

5 In item number 5 of the first paragraph, "WSDOT" is revised to read "Contracting Agency".  
6

7 **1-08.5 Time for Completion**

8 In item 2c of the last paragraph, "Quarterly Reports" is revised to read "Monthly Reports".  
9

10 **Section 1-09, Measurement and Payment**  
11 **April 4, 2016**

12 **1-09.6 Force Account**

13 The second sentence of item number 4 is revised to read:  
14

15 A "specialized service" is a work operation that is not typically done by worker  
16 classifications as defined by the Washington State Department of Labor and Industries and  
17 by the Davis Bacon Act, and therefore bills by invoice for work in road, bridge and  
18 municipal construction.  
19

20 **Section 1-10, Temporary Traffic Control**  
21 **August 1, 2016**

22 **1-10.1(2) Description**

23 The first paragraph is revised to read:  
24

25 The Contractor shall provide flaggers and all other personnel required for labor for traffic  
26 control activities that are not otherwise specified as being furnished by the Contracting  
27 Agency.  
28

29 In the third paragraph, "Project Engineer" is revised to read "Engineer".  
30

31 The following new paragraph is inserted after the third paragraph:  
32

33 The Contractor shall keep lanes, on-ramps, and off-ramps, open to traffic at all times  
34 except when Work requires closures. Ramps shall not be closed on consecutive  
35 interchanges at the same time, unless approved by the Engineer. Lanes and ramps shall  
36 be closed for the minimum time required to complete the Work. When paving hot mix  
37 asphalt the Contractor may apply water to the pavement to shorten the time required before  
38 reopening to traffic.  
39

40 **Section 2-03, Roadway Excavation and Embankment**  
41 **August 1, 2016**

42 **2-03.3(7)C Contractor-Provided Disposal Site**

43 The second paragraph is revised to read:  
44

45 The Contractor shall acquire all permits and approvals required for the use of the disposal  
46 sites before any waste is hauled off the project. The Contractor shall submit a Type 1

1 Working Drawing consisting of copies of the permits and approvals for any disposal sites to  
2 be used. The cost of any such permits and approvals shall be included in the Bid prices for  
3 other Work.

4  
5 The third paragraph is deleted.

6  
7 **Section 5-01, Cement Concrete Pavement Rehabilitation**  
8 **August 1, 2016**

9 **5-01.2 Materials**

10 In the first paragraph, the following item is inserted after the item "Joint Sealants":

11  
12 Closed Cell Foam Backer Rod 9-04.2(3)A

13  
14 **5-01.3(8) Sealing Existing Transverse and Longitudinal Joints**

15 This section's title is revised to read:

16  
17 **Sealing Existing Longitudinal and Transverse Joint**

18  
19 The first paragraph is revised to read:

20  
21 The Contractor shall clean and seal existing longitudinal and transverse joints where shown  
22 in the Plans or as marked by the Engineer.

23  
24 The first sentence of the second paragraph is revised to read:

25  
26 Old sealant and incompressible material shall be completely removed from the joint to the  
27 depth of the new reservoir with a diamond blade saw in accordance with the detail shown in  
28 the Standard Plans.

29  
30 The fifth paragraph is revised to read:

31  
32 Immediately prior to sealing, the cracks shall be blown clean with dry oil-free compressed  
33 air. If shown in the Plans, a backer rod shall be placed at the base of the sawn reservoir.  
34 The joints shall be completely dry before the sealing installation may begin. Immediately  
35 following the air blowing and backer rod placement, if required, the sealant material shall be  
36 installed in conformance to manufacturer's recommendations and in accordance  
37 with Section 5-05.3(8)B.

38  
39 **5-01.3(11) Concrete Slurry and Grinding Residue**

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

41  
42 Slurry shall not be allowed to drain into an area open to traffic, off of the paved surface, into  
43 any drainage structure, water of the state, or wetlands.

44  
45 The following new sentence is inserted at the end of the second paragraph:

46  
47 The Contractor shall submit copies of all disposal tickets to the Engineer within 5 calendar  
48 days.

1 **5-01.4 Measurement**

2 The fourth paragraph is revised to read:

3  
4 Sealing existing longitudinal and transverse joint will be measured by the linear foot,  
5 measured along the line of the completed joint.  
6

7 **5-01.5 Payment**

8 The Bid item “Sealing Transverse and Longitudinal Joints”, per linear foot and the paragraph  
9 following Bid item are revised to read:

10  
11 “Sealing Existing Longitudinal and Transverse Joint”, per linear foot.  
12

13 The unit Contract price per linear foot for “Sealing Existing Longitudinal and Transverse  
14 Joint”, shall be full payment for all costs to complete the Work as specified, including  
15 removing incompressible material, preparing and sealing existing transverse and  
16 longitudinal joints where existing transverse and longitudinal joints are cleaned and for all  
17 incidentals required to complete the Work as specified.  
18

19 **Section 5-02, Bituminous Surface Treatment**  
20 **April 4, 2016**

21 **5-02.3(2) Preparation of Roadway Surface**

22 This section is supplemented with the following new subsection:

23  
24 **5-02.3(2)E Crack Sealing**

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

- 27  
28 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.  
29  
30 2. Cracks greater than 1 inch in width – fill with sand slurry.  
31

32 **Section 5-04, Hot Mix Asphalt**  
33 **August 1, 2016**

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

35  
36 This Section 5-04 is written in a style which, unless otherwise indicated, shall be interpreted  
37 as direction to the Contractor.  
38

39 **5-04.1 Description**

40 This Work consists of providing and placing one or more layers of plant-mixed hot mix  
41 asphalt (HMA) on a prepared foundation or base, in accordance with these Specifications  
42 and the lines, grades, thicknesses, and typical cross-sections shown in the Plans. The  
43 manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with  
44 these Specifications.  
45

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

1  
2 **5-04.2 Materials**

3 Provide materials as specified in these sections:  
4

5	Asphalt Binder	9-02.1(4)
6	Cationic Emulsified Asphalt	9-02.1(6)
7	Anti-Stripping Additive	9-02.4
8	Warm Mix Asphalt Additive	9-02.5
9	Aggregates	9-03.8
10	Reclaimed Asphalt Pavement (RAP)	9-03.8(3)B
11	Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B
12	Mineral Filler	9-03.8(5)
13	Recycled Material	9-03.21
14	Joint Sealants	9-04.2
15		
16	Closed Cell Foam Backer Rod	9-04.2(3)A

17  
18 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

19 Comply with each of the following:  
20

- 21 • Develop the mix design in accordance with WSDOT SOP 732.
- 22
- 23 • Develop a mix design that complies with Sections 9-03.8(2) and 9-03.8(6).
- 24
- 25 • Develop a mix design no more than 6 months prior to submitting it for QPL
- 26 evaluation.
- 27
- 28 • Submit mix designs to the WSDOT State Materials Laboratory in Tumwater,
- 29 including WSDOT Form 350-042.
- 30
- 31 • Include representative samples of the materials that are to be used in the
- 32 HMA production as part of the mix design submittal. See Section 5-04.2(1)A
- 33 to determine when to include samples of RAP or RAS.
- 34
- 35 • Identify the brand, type, and percentage of anti-stripping additive in the mix
- 36 design submittal.
- 37
- 38 • Include with the mix design submittal a certification from the asphalt binder
- 39 supplier that the anti-stripping additive is compatible with the crude source
- 40 and the formulation of asphalt binder proposed for use in the mix design.
- 41
- 42 • Do not include warm mix asphalt (WMA) additives when developing a mix
- 43 design or submitting a mix design for QPL evaluation. The use of warm mix
- 44 asphalt (WMA) additives is not part of the process for obtaining approval for
- 45 listing a mix design on the QPL. Refer to Section 5-04.2(2)B.
- 46

47 The Contracting Agency's basis for approving, testing, and evaluating HMA mix  
48 designs for approval on the QPL is dependent on the contractual basis for acceptance  
49 of the HMA mixture, as shown in Table 1.  
50

Table 1

<b>Basis for Contracting Agency Evaluation of HMA Mix Designs for Approval on the QPL</b>		
<b>Contractual Basis for Acceptance of HMA Mixture (see Section 5-04.3(9))</b>	<b>Basis for Contracting Agency Approval of Mix Design for Placement on QPL</b>	<b>Contracting Agency Materials Testing for Evaluation of the Mix Design</b>
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

<b>Mix Design Classification Based on RAP/RAS Content</b>	
<b>RAP/RAS Classification</b>	<b>RAP/RAS Content<sup>1</sup></b>
Low RAP/No RAS	0% ≤ RAP% ≤ 20% and RAS% = 0%
High RAP/Any RAS	20% < RAP% ≤ Maximum Allowable RAP <sup>2</sup> and/or 0% < RAS% ≤ Maximum Allowable RAS <sup>2</sup>

<sup>1</sup>Percentages in this table are by total weight of HMA

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

16

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

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

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

11 **5-04.2(1)A2 High RAP/Any RAS - Mix Design Submittals for Placement**  
 12 **on QPL**

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

- 15 1. For mix designs with any RAS, test the RAS stockpile (and RAP  
 16 stockpile if any RAP is in the mix design) in accordance with Table  
 17 3.
- 18 2. For High RAP mix designs with no RAS, test the RAP stockpile in  
 19 accordance with Table 3.
- 20 3. For mix designs with High RAP/Any RAS, construct a single  
 21 stockpile for RAP and a single stockpile for RAS and isolate  
 22 (sequester) these stockpiles from further stockpiling before  
 23 beginning development of the mix design. Test the RAP and RAS  
 24 during stockpile construction as required by item 1 and 2 above. Use  
 25 the test data in developing the mix design, and report the test data  
 26 to the Contracting Agency on WSDOT Form 350-042 as part of the  
 27 mix design submittal for approval on the QPL. Account for the  
 28 reduction in asphalt binder contributed from RAS in accordance with  
 29 AASHTO PP 78. Do not add to these stockpiles after starting the  
 30 mix design process.

31 Table 3

32 <b>Test Frequency of RAP/RAS During RAP/RAS Stockpile</b>		
33 <b>Construction For Approving a High RAP/Any RAS Mix</b>		
34 <b>Design for Placement on the QPL</b>		
35 Test Frequency <sup>1</sup>	36 Test for	37 Test Method
38 • 1/1000 tons of RAP (minimum of 10 per mix design) and • 1/100 tons of RAS (minimum of 10 per mix design)	39 Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for WAQTC T 27/T 11

<sup>1</sup>“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

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

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

<sup>2</sup> 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.
    - 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:

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- 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.
- 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.

- 1 a. Changes to the percentage of material from a stockpile will be  
2 calculated based on the total aggregate weight (not including the  
3 weight of RAP) for Low RAP/No RAS mix designs.  
4  
5 b. For High RAP/Any RAS mix designs, changes in the percentage of  
6 material from a stockpile will be based on total aggregate weight  
7 including the weight of RAP (and/or RAS when included in the  
8 mixture).  
9

10 Prior to making any change in the amount of RAS in an approved mix design,  
11 notify the Engineer for determination of whether a new mix design is required, and  
12 obtain the Engineer's approval prior to implementing such changes.  
13

#### 14 **5-04.2(2) Mix Design – Obtaining Project Approval**

15 Use only mix designs listed on the Qualified Products List (QPL). Submit WSDOT  
16 Form 350-041 to the Engineer to request approval to use a mix design from the QPL.  
17 Changes to the job mix formula (JMF) that have been approved on other contracts  
18 may be included. The Engineer may reject a request to use a mix design if production  
19 of HMA using that mix design on any contract is not in compliance with Section 5-  
20 04.3(11)D, E, F, and G for mixture or compaction.  
21

#### 22 **5-04.2(2)A Changes to the Job Mix Formula**

23 The approved mix design obtained from the QPL will be considered the starting  
24 job mix formula (JMF) and shall be used as the initial basis for acceptance of HMA  
25 mixture, as detailed in Section 5-04.3(9).  
26

27 During production the Contractor may request to adjust the JMF. Any adjustments  
28 to the JMF will require approval of the Engineer and shall be made in accordance  
29 with item 2 of Section 9-03.8(7). After approval by the Engineer, such adjusted  
30 JMF's shall constitute the basis for acceptance of the HMA mixture.  
31

#### 32 **5-04.2(2)B Using Warm Mix Asphalt Processes**

33 The Contractor may, at the Contractor's discretion, elect to use warm mix asphalt  
34 (WMA) processes for producing HMA. WMA processes include organic additives,  
35 chemical additives, and foaming. The use of WMA is subject to the following:  
36

- 37 • Do not use WMA processes in the production of High RAP/Any RAS  
38 mixtures.
- 39 • Before using WMA processes, obtain the Engineer's approval using  
40 WSDOT Form 350-076 to describe the proposed WMA process.  
41

### 42 **5-04.3 Construction Requirements**

#### 43 **5-04.3(1) Weather Limitations**

44 Do not place HMA for wearing course on any Traveled Way beginning October 1<sup>st</sup>  
45 through March 31<sup>st</sup> of the following year, without written concurrence from the  
46 Engineer.  
47

48 Do not place HMA on any wet surface, or when the average surface temperatures are  
49 less than those specified in Table 5, or when weather conditions otherwise prevent the  
50 proper handling or finishing of the HMA.  
51

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

**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.
- 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.

**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

1 list the make, model, and year of the paver and any equipment that has been  
2 retrofitted to the paver.

3  
4 Operate the screed in accordance with the manufacturer's recommendations and  
5 in a manner to produce a finished surface of the required evenness and texture  
6 without tearing, shoving, segregating, or gouging the mixture. Provide a copy of  
7 the manufacturer's recommendations upon request by the Contracting Agency.  
8 Extensions to the screed will be allowed provided they produce the same results,  
9 including ride, density, and surface texture as obtained by the primary screed. In  
10 the Travelled Way do not use extensions without both augers and an internally  
11 heated vibratory screed.

12  
13 Equip the paver with automatic screed controls and sensors for either or both  
14 sides of the paver. The controls shall be capable of sensing grade from an outside  
15 reference line, sensing the transverse slope of the screed, and providing  
16 automatic signals that operate the screed to maintain the desired grade and  
17 transverse slope. Construct the sensor so it will operate from a reference line or a  
18 mat referencing device. The transverse slope controller shall be capable of  
19 maintaining the screed at the desired slope within plus or minus 0.1 percent.

20  
21 Equip the paver with automatic feeder controls, properly adjusted to maintain a  
22 uniform depth of material ahead of the screed.

23  
24 Manual operation of the screed is permitted in the construction of irregularly  
25 shaped and minor areas. These areas include, but are not limited to, gore areas,  
26 road approaches, tapers and left-turn channelizations.

27  
28 When specified in the Contract, provide reference lines for vertical control. Place  
29 reference lines on both outer edges of the Traveled Way of each Roadway.  
30 Horizontal control utilizing the reference line is permitted. Automatically control the  
31 grade and slope of intermediate lanes by means of reference lines or a mat  
32 referencing device and a slope control device. When the finish of the grade  
33 prepared for paving is superior to the established tolerances and when, in the  
34 opinion of the Engineer, further improvement to the line, grade, cross-section, and  
35 smoothness can best be achieved without the use of the reference line, a mat  
36 referencing device may be substituted for the reference line. Substitution of the  
37 device will be subject to the continued approval of the Engineer. A joint matcher  
38 may be used subject to the approval of the Engineer. The reference line may be  
39 removed after completion of the first course of HMA when approved by the  
40 Engineer. Whenever the Engineer determines that any of these methods are  
41 failing to provide the necessary vertical control, the reference lines will be  
42 reinstalled by the Contractor.

43  
44 Furnish and install all pins, brackets, tensioning devices, wire, and accessories  
45 necessary for satisfactory operation of the automatic control equipment.

46  
47 If the paving machine in use is not providing the required finish, the Engineer may  
48 suspend Work as allowed by Section 1-08.6.

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2 **5-04.3(3)D Material Transfer Device or Material Transfer Vehicle**

3 Use a material transfer device (MTD) or material transfer vehicle (MTV) to deliver  
4 the HMA from the hauling equipment to the paving machine for any lift in (or  
5 partially in) the top 0.30 feet of the pavement section used in traffic lanes.  
6 However, an MTD/V is not required for HMA placed in irregularly shaped and  
7 minor areas such as tapers and turn lanes, or for HMA mixture that is accepted by  
8 Visual Evaluation. At the Contractor's request the Engineer may approve paving  
9 without an MTD/V; the Engineer will determine if an equitable adjustment in cost  
10 or time is due. If a windrow elevator is used, the Engineer may limit the length of  
11 the windrow in urban areas or through intersections.  
12

13 To be approved for use, an MTV:

- 14 1. Shall be a self-propelled vehicle, separate from the hauling vehicle or  
15 paver.
- 16 2. Shall not connected to the hauling vehicle or paver.
- 17 3. May accept HMA directly from the haul vehicle or pick up HMA from a  
18 windrow.
- 19 4. Shall mix the HMA after delivery by the hauling equipment and prior to  
20 placement into the paving machine.
- 21 5. Shall mix the HMA sufficiently to obtain a uniform temperature  
22 throughout the mixture.
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29 To be approved for use, an MTD:

- 30 1. Shall be positively connected to the paver.
- 31 2. May accept HMA directly from the haul vehicle or pick up HMA from a  
32 windrow.
- 33 3. Shall mix the HMA after delivery by the hauling equipment and prior to  
34 placement into the paving machine.
- 35 4. Shall mix the HMA sufficiently to obtain a uniform temperature  
36 throughout the mixture.
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42 **5-04.3(3)E Rollers**

43 Operate rollers in accordance with the manufacturer's recommendations. When  
44 requested by the Engineer, provide a Type 1 Working Drawing of the  
45 manufacturer's recommendation for the use of any roller planned for use on the  
46 project. Do not use rollers that crush aggregate, produce pickup or washboard,  
47 unevenly compact the surface, displace the mix, or produce other undesirable  
48 results.  
49

1           **5-04.3(4) Preparation of Existing Paved Surfaces**

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

10  
11           Apply a uniform coat of asphalt (tack coat) to all paved surfaces on which any course  
12           of HMA is to be placed or abutted. Apply tack coat to cover the cleaned existing  
13           pavement with a thin film of residual asphalt free of streaks and bare spots. Apply a  
14           heavy application of tack coat to all joints. For Roadways open to traffic, limit the  
15           application of tack coat to surfaces that will be paved during the same working shift.  
16           Equip the spreading equipment with a thermometer to indicate the temperature of the  
17           tack coat material.

18  
19           Do not operate equipment on tacked surfaces until the tack has broken and cured.  
20           Repair tack coat damaged by the Contractor's operation, prior to placement of the  
21           HMA.

22  
23           Unless otherwise approved by the Engineer, use CSS-1, CSS-1h,STE-1, or  
24           Performance Graded (PG) asphalt for tack coat. The CSS-1 and CSS-1h emulsified  
25           asphalt may be diluted with water at a rate not to exceed one part water to one part  
26           emulsified asphalt. Do not allow the tack coat material to exceed the maximum  
27           temperature recommended by the asphalt supplier.

28  
29           When shown in the Plans, prelevel uneven or broken surfaces over which HMA is to  
30           be placed by using an asphalt paver, a motor patrol grader, or by hand raking, as  
31           approved by the Engineer.

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33           **5-04.3(4)A Crack Sealing**

34           **5-04.3(4)A1 General**

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

37  
38           **Cleaning:** Ensure that cracks are thoroughly clean, dry and free of all loose  
39           and foreign material when filling with crack sealant material. Use a hot  
40           compressed air lance to dry and warm the pavement surfaces within the  
41           crack immediately prior to filling a crack with the sealant material. Do not  
42           overheat pavement. Do not use direct flame dryers. Routing cracks is not  
43           required.

44  
45           **Sand Slurry:** For cracks that are to be filled with sand slurry, thoroughly mix  
46           the components and pour the mixture into the cracks until full. Add additional  
47           CSS-1 emulsified asphalt to the sand slurry as needed for workability to  
48           ensure the mixture will completely fill the crack. Strike off the sand slurry  
49           flush with the existing pavement surface and allow the mixture to cure. Top off  
50           cracks that were not completely filled with additional sand slurry. Do not place  
51           the HMA overlay until the slurry has fully cured.

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

14  
15 **5-04.3(4)A2 Crack Sealing Areas Prior to Paving**

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

17  
18 **5-04.3(4)A3 Crack Sealing Areas Not to be Paved**

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

- 20  
21 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.  
22  
23 2. Cracks greater than 1 inch in width – fill with sand slurry.  
24

25 **5-04.3(4)B Soil Residual Herbicide**

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

29  
30 Use herbicide registered with the Washington State Department of Agriculture for  
31 use under pavement. Before use, obtain the Engineer's approval of the herbicide  
32 and the proposed rate of application. Include the following information in the  
33 request for approval of the material:

- 34  
35 1. Brand Name of the Material,  
36  
37 2. Manufacturer,  
38  
39 3. Environmental Protection Agency (EPA) Registration Number,  
40  
41 4. Material Safety Data Sheet, and  
42  
43 5. Proposed Rate of Application.  
44

45 **5-04.3(4)C Pavement Repair**

46 Excavate pavement repair areas and backfill these with HMA in accordance with  
47 the details shown in the Plans and as staked. Conduct the excavation operations  
48 in a manner that will protect the pavement that is to remain. Repair pavement not  
49 designated to be removed that is damaged as a result of the Contractor's  
50 operations to the satisfaction of the Engineer at no cost to the Contracting  
51 Agency. Excavate only within one lane at a time unless approved otherwise by the

1 Engineer. Do not excavate more area than can be completely backfilled and  
2 compacted during the same shift.

3  
4 Unless otherwise shown in the Plans or determined by the Engineer, excavate to  
5 a depth of 1.0 feet. The Engineer will make the final determination of the  
6 excavation depth required.

7  
8 The minimum width of any pavement repair area shall be 40 inches unless shown  
9 otherwise in the Plans. Before any excavation, sawcut the perimeter of the  
10 pavement area to be removed unless the pavement in the pavement repair area is  
11 to be removed by a pavement grinder.

12  
13 Excavated materials shall be the property of the Contractor and shall be disposed  
14 of in a Contractor-provided site off the Right of Way or used in accordance with  
15 Sections 2-02.3(3) or 9-03.21.

16  
17 Apply a heavy application of tack coat to all surfaces of existing pavement in the  
18 pavement repair area, in accordance with Section 5-04.3(4).

19  
20 Place the HMA backfill in lifts not to exceed 0.35-foot compacted depth.  
21 Thoroughly compact each lift by a mechanical tamper or a roller.

22  
23 **5-04.3(5) Producing/Stockpiling Aggregates, RAP, & RAS**

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

33  
34 **5-04.3(5)A Stockpiling RAP or RAS for High RAP/Any RAS Mixes**

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

40  
41 RAP that is used in a Low RAP/No RAS mix is not required to come from a  
42 sequestered stockpile.

43  
44 **5-04.3(6) Mixing**

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

48  
49 Anti-strip is not required for temporary work that will be removed prior to Physical  
50 Completion.

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

3  
4 Prior to introducing reclaimed materials into the asphalt plant, remove wire, nails,  
5 and other foreign material. Discontinue use of the reclaimed material if the  
6 Engineer, in their sole discretion, determines the wire, nails, or other foreign  
7 material to be excessive.

8  
9 Size RAP and RAS prior to entering the mixer to provide uniform and thoroughly  
10 mixed HMA. If there is evidence of the RAP or RAS not breaking down during the  
11 heating and mixing of the HMA, immediately suspend the use of the RAP or RAS  
12 until changes have been approved by the Engineer.

13  
14 After the required amount of mineral materials, RAP, RAS, new asphalt binder  
15 and recycling agent have been introduced into the mixer, mix the HMA until  
16 complete and uniform coating of the particles and thorough distribution of the  
17 asphalt binder throughout the mineral materials, RAP and RAS is ensured.

18  
19 Upon discharge from the mixer, ensure that the temperature of the HMA does not  
20 exceed the optimum mixing temperature shown on the approved Mix Design  
21 Report by more than 25°F, or as approved by the Engineer. When a WMA  
22 additive is included in the manufacture of HMA, do not heat the WMA additive (at  
23 any stage of production including in binder storage tanks) to a temperature higher  
24 than the maximum recommended by the manufacturer of the WMA additive.

25  
26 A maximum water content of 2 percent in the mix, at discharge, will be allowed  
27 providing the water causes no problems with handling, stripping, or flushing. If the  
28 water in the HMA causes any of these problems, reduce the moisture content.

29  
30 During the daily operation, HMA may be temporarily held in approved storage  
31 facilities. Do not incorporate HMA into the Work that has been held for more than  
32 24 hours after mixing. Provide an easily readable, low bin-level indicator on the  
33 storage facility that indicates the amount of material in storage. Waste the HMA in  
34 storage when the top level of HMA drops below the top of the cone of the storage  
35 facility, except as the storage facility is being emptied at the end of the  
36 working shift. Dispose of rejected or waste HMA at no expense to the Contracting  
37 Agency.

38  
39 **5-04.3(7) Spreading and Finishing**

40 Do not exceed the maximum nominal compacted depth of any layer in any course,  
41 as shown in Table 6, unless approved by the Engineer:  
42

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

43

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

5  
 6 When more than one JMF is being utilized to produce HMA, place the material  
 7 produced for each JMF with separate spreading and compacting equipment. Do  
 8 not intermingle HMA produced from more than one JMF. Each strip of HMA  
 9 placed during a work shift shall conform to a single JMF established for the class  
 10 of HMA specified unless there is a need to make an adjustment in the JMF.

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

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

20  
 21 For aggregate that will be used in HMA mixture which will be accepted by either  
 22 Statistical or Nonstatistical Evaluation, the Contracting Agency's acceptance of  
 23 the aggregate will be based on:

- 24  
 25 1. Samples taken prior to mixing with asphalt binder, RAP, or RAS;  
 26  
 27 2. Testing for the materials properties of fracture, uncompacted void  
 28 content, and sand equivalent;  
 29  
 30 3. Evaluation by the Contracting Agency in accordance with Section 3-04,  
 31 including price adjustments as described therein.

32  
 33 For aggregate that will be used in HMA which will be accepted by Visual  
 34 Evaluation, evaluation in accordance with items 1, 2, and 3 above is at the  
 35 discretion of the Engineer.

36  
 37 **5-04.3(9) HMA Mixture Acceptance**

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

40  
 Table 7

<b>Basis of Acceptance for HMA Mixture</b>			
	<b>Visual Evaluation</b>	<b>Nonstatistical Evaluation</b>	<b>Statistical Evaluation</b>
<b>Criteria for Selecting the Evaluation Method</b>	<ul style="list-style-type: none"> <li>• Commercial HMA placed at any location</li> <li>• Any HMA placed in:               <ul style="list-style-type: none"> <li>○ sidewalks</li> <li>○ road approaches</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• All HMA mixture of the same class and PG binder grade with a</li> </ul>	<ul style="list-style-type: none"> <li>• All HMA mixture other than that accepted by Visual or Nonstatistical</li> </ul>

	<ul style="list-style-type: none"> <li>○ ditches</li> <li>○ slopes</li> <li>○ paths</li> <li>○ trails</li> <li>○ gores</li> <li>○ prelevel</li> <li>○ temporary pavement<sup>1</sup></li> <li>○ pavement repair</li> <li>● Other nonstructural applications of HMA as approved by the Engineer</li> </ul>	Proposal quantity less than 4,000 tons. (Exclude the tonnage of HMA mixture accepted by Visual Evaluation.)	Evaluation
<sup>1</sup> Temporary pavement is HMA that will be removed before Physical Completion of the Contract.			

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**5-04.3(9)A Test Sections**

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 whether or not the Contractor’s mix design and production processes will produce HMA meeting the Contract requirements related to mixture. Construct HMA mixture test sections at the beginning of paving, using at least 600 tons and a maximum of 1,000 tons or as specified by the Engineer. Each test section shall be constructed in one continuous operation.

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

Use Tables 8 and 9 to determine when a test section is required, optional, or not allowed, and to determine when performing test sections may end. Each mix design will be evaluated independently for the test section requirements. If more than one test section is required, each test section shall be evaluated separately by the criteria in table 8 and 9.

Table 8

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

Test Sections?	Performing Test Sections” in Table 9 for High RAP/Any RAS.	WSDOT test results required by Table 9 for Low RAP/No RAS.
----------------	------------------------------------------------------------	------------------------------------------------------------

<sup>1</sup>If 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.

<sup>2</sup>This 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.

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

1

Table 9

<b>Results Required to Stop Performing HMA Mixture Test Sections<sup>1</sup> (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)</b>		
<b>Test Property</b>	<b>Type of HMA</b>	
	<b>High RAP/Any RAS</b>	<b>Low RAP/No RAS</b>
Gradation	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
Asphalt Binder	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
$V_a$	Minimum $PF_i$ of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
Hamburg Wheel Track Indirect Tensile Strength	Meet requirements of Section 9-03.8(2). <sup>3</sup>	These tests will not be done as part of Test Section.
Aggregates Sand Equivalent Uncompacted Void Content Fracture	Nonstatistical Evaluation in accordance with the requirements of Section 3-04 <sup>3</sup>	None <sup>3</sup>

<sup>1</sup>In 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 and Table 9a).

<sup>2</sup>Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for the property in the first column.

<sup>3</sup>Take one sample for each test section lot. Test the sample for the properties in the first column.

<sup>4</sup>Divide the test section lot into three sublots, approximately equal in size. Take one sample from each subplot, and test each sample for the property 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)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

The Engineer will evaluate the HMA mixture in each test section for rejection, acceptance, and price adjustments based on the criteria in Table 9a using the data generated from the testing required by Table 9. Each test section shall be considered a separate lot.

Table 9a

<b>Acceptance Criteria for HMA Mixture Placed in a Test Section (For HMA Mixture Accepted by Statistical or Nonstatistical Evaluation)</b>		
<b>Test Property</b>	<b>Type of HMA</b>	
	<b>High RAP/Any RAS</b>	<b>Low RAP/No RAS</b>
Gradation Asphalt Binder $V_a$	Statistical or Nonstatistical Evaluation - determined by the criteria in Table 7	Statistical or Nonstatistical Evaluation - determined by the criteria in Table 7
Hamburg Wheel Track Indirect Tensile Strength	Pass/Fail for the requirements of Section 9-03.8(2) <sup>1</sup>	N/A
HMA Aggregate Sand Equivalent Uncompacted Void Content	Nonstatistical Evaluation in accordance with the requirements of Section 3-04	Nonstatistical Evaluation in accordance with the requirements of Section 3-04

<sup>1</sup>Failure to meet the specifications for Hamburg and/or IDT will cause the mixture in the test section to be rejected. Refer to Section 5-04.3(11).

9

1 **5-04.3(9)B Mixture Acceptance – Statistical Evaluation**

2 **5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots**

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

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

- 11 • The final mixture lot of each mix design on the Contract will
- 12 • A mixture lot for a test section will consist of three sublots.

13 • The final mixture lot of each mix design on the Contract will  
14 comprise a maximum of 25 sublots.  
15 • A mixture lot for a test section will consist of three sublots.  
16  
17 Each mixture subplot shall be approximately uniform in size with the  
18 maximum mixture subplot size as specified in Table 10. The quantity of  
19 material represented by the final mixture subplot of the project, for each  
20 mix design on the project, may be increased to a maximum of two times  
21 the mixture subplot quantity calculated. Should a lot accepted by statistical  
22 evaluation contain fewer than three sublots, the HMA will be accepted in  
23 accordance with nonstatistical evaluation.  
24

Table 10

<b>Maximum HMA Mixture Sublot Size For HMA Accepted by Statistical Evaluation</b>	
<b>HMA Original Plan Quantity (tons)<sup>1</sup></b>	<b>Maximum Sublot Size (tons)<sup>2</sup></b>
< 20,000	1,000
20,000 to 30,000	1,500
>30,000	2,000

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

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

- 25 • For a mixture lot in progress with a mixture CPF less than 0.75,  
26 a new mixture lot will begin at the Contractor's request after the  
27 Engineer is satisfied that material conforming to the  
28 Specifications can be produced. See also Section 5-04.3(11)F.
- 29 • If, before completing a mixture lot, the Contractor requests a  
30 change to the JMF which is approved by the Engineer, the  
31 mixture produced in that lot after the approved change will be  
32 evaluated on the basis of the changed JMF, and the mixture  
33 produced in that lot before the approved change will be  
34 evaluated on the basis of the unchanged JMF; however, the  
35 mixture before and after the change will be evaluated in the  
36  
37

1 same lot. Acceptance of subsequent mixture lots will be  
2 evaluated on the basis of the changed JMF.  
3

4 **5-04.3(9)B2 Mixture Statistical Evaluation – Sampling**

5 Comply with Section 1-06.2(1).  
6

7 Samples of HMA mixture which is accepted by Statistical Evaluation will  
8 be randomly selected from within each subplot, with one sample per  
9 subplot. The Engineer will determine the random sample location using  
10 WSDOT Test Method T 716. The Contractor shall obtain the sample  
11 when ordered by the Engineer. The Contractor shall sample the HMA  
12 mixture in the presence of the Engineer and in accordance with FOP for  
13 WAQTC T 168.  
14

15 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

16 Comply with Section 1-06.2(1).  
17

18 The Contracting Agency will test the mixture sample from each subplot  
19 (including sublots in a test section) for the properties shown in Table 11.  
20

Table 11

Testing Required for each HMA Mixture Sublot		
Test	Procedure	Performed by
V <sub>a</sub>	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

21 The mixture samples and tests taken for the purpose of determining  
22 acceptance of the test section (as described in Section 5-04.3(9)A) shall  
23 also be used as the test results for acceptance of the mixture described  
24 in 5-04.3(9)B3, 5-04.3(9)B4, 5-04.3(9)B5, and 5-04.3(9)B6.  
25  
26

27 **5-04.3(9)B4 Mixture Statistical Evaluation – Pay Factors**

28 Comply with Section 1-06.2(2).  
29

30 The Contracting Agency will determine a pay factor (PF<sub>i</sub>) for each of the  
31 properties in Table 11, for each mixture lot, using the quality level  
32 analysis in Section 1-06.2(2)D. For Gradation, a pay factor will be  
33 calculated for each of the sieve sizes listed in Table 11 which is equal to  
34 or smaller than the maximum allowable aggregate size (100 percent  
35 passing sieve) of the HMA mixture. The USL and LSL shall be calculated  
36 using the Job Mix Formula Tolerances (for Statistical Evaluation) in  
37 Section 9-03.8(7).  
38

1 If a constituent is not measured in accordance with these Specifications,  
2 its individual pay factor will be considered 1.00 in calculating the  
3 Composite Pay Factor (CPF).  
4

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

7 Comply with Section 1-06.2(2).  
8

9 In accordance with Section 1-06.2(2)D4, the Contracting Agency will  
10 determine a Composite Pay Factor (CPF) for each mixture lot from the  
11 pay factors calculated in Section 5-04.3(9)B4, using the price adjustment  
12 factors in Table 12. Unless otherwise specified, the maximum CPF for  
13 HMA mixture shall be 1.05.  
14

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 <sub>a</sub> )	20

15  
16 **5-04.3(9)B6 Mixture Statistical Evaluation – Price Adjustments**

17 For each HMA mixture lot, a Job Mix Compliance Price Adjustment will  
18 be determined and applied, as follows:  
19

20 
$$JMCPA = [0.60 \times (CPF - 1.00)] \times Q \times UP$$

21  
22 Where

23  
24 JMCPA = Job Mix Compliance Price Adjustment for a given lot of  
25 mixture (\$)

26 CPF = Composite Pay factor for a given lot of mixture (maximum  
27 is 1.05)

28 Q = Quantity in a given lot of mixture (tons)

29 UP = Unit price of the HMA in a given lot of mixture (\$/ton)  
30

31 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

32 The Contractor may request that a mixture subplot be retested. To request  
33 a retest, submit a written request to the Contracting Agency within 7  
34 calendar days after the specific test results have been posted to the  
35 website or emailed to the Contractor, whichever occurs first. The  
36 Contracting Agency will send a split of the original acceptance sample for  
37 testing by the Contracting Agency to either the Region Materials  
38 Laboratory or the State Materials Laboratory as determined by the  
39 Engineer. The Contracting Agency will not test the split of the sample  
40 with the same equipment or by the same tester that ran the original  
41 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

<b>Nonstatistical Evaluation Lots, Sublots, Sampling, Test Section, Testing, Retests</b>		
Comply with the Specifications Below		Comply with the Requirements of the Section for:
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

**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) 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

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

<sup>1</sup>When 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.

<sup>2</sup>The Nonstatistical Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF<sub>i</sub>.

<sup>3</sup>The maximum CPF shall be 1.00.

#### 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

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

<sup>1</sup>The Visual Evaluation tolerance limits in Section 9-03.8(7) will be used in the calculation of the PF<sub>i</sub>.

<sup>2</sup>The maximum CPF shall be 1.00.

#### 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

<b>Criteria for Determining Method of Evaluation for HMA Compaction<sup>1</sup></b>		
<b>Statistical Evaluation of HMA Compaction is Required For:</b>	<b>Visual Evaluation of HMA Compaction is Required For:</b>	<b>Test Point Evaluation of HMA Compaction is Required For:</b>
<ul style="list-style-type: none"> <li>• 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"> <li>○ traffic lanes, including but not limited to:                   <ul style="list-style-type: none"> <li>• ramp lanes</li> <li>• truck climbing lanes</li> <li>• weaving lanes</li> <li>• speed change lanes</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• “HMA for Preleveling...”</li> <li>• “HMA for Pavement Repair...”</li> </ul>	<ul style="list-style-type: none"> <li>• Any HMA not meeting the criteria for Statistical Evaluation or Visual Evaluation</li> </ul>

<sup>1</sup>This table applies to all HMA, and shall be the sole basis for determining the acceptance method for compaction.

1  
2 The Contracting Agency may, at its sole discretion, evaluate any HMA for  
3 compliance with the Cyclic Density requirements of Section 5-04.3(10)B.  
4

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

6 Immediately after the HMA has been spread and struck off, and after surface  
7 irregularities have been adjusted, thoroughly and uniformly compact the mix.  
8 The completed course shall be free from ridges, ruts, humps, depressions,  
9 objectionable marks, and irregularities and shall conform to the line, grade,  
10 and cross-section shown in the Plans. If necessary, alter the JMF in  
11 accordance with Section 9-03.8(7) to achieve desired results.  
12

13 Compact the mix when it is in the proper condition so that no undue  
14 displacement, cracking, or shoving occurs. Compact areas inaccessible to  
15 large compaction equipment by mechanical or hand tampers. Remove HMA  
16 that becomes loose, broken, contaminated, shows an excess or deficiency of  
17 asphalt, or is in any way defective. Replace the removed material with new  
18 HMA, and compact it immediately to conform to the surrounding area.  
19

20 The type of rollers to be used and their relative position in the compaction  
21 sequence shall generally be the Contractor's option, provided the specified  
22 densities are attained. An exception shall be that pneumatic tired rollers shall  
23 be used for compaction of the wearing course beginning October 1<sup>st</sup> of any  
24 year through March 31<sup>st</sup> of the following year. Coverage with a steel wheel  
25 roller may precede pneumatic tired rolling. Unless otherwise approved by the  
26 Engineer, operate rollers in the static mode when the internal temperature of  
27 the mix is less than 175°F. Regardless of mix temperature, do not operate a  
28 roller in a mode that results in checking or cracking of the mat.  
29

30 On bridge decks and on the five feet of roadway approach immediately  
31 adjacent to the end of bridge/back of pavement seat, operate rollers in static  
32 mode only.  
33

34 **5-04.3(10)B HMA Compaction – Cyclic Density**

35 Low cyclic density areas are defined as spots or streaks in the pavement that  
36 are less than 90 percent of the theoretical maximum density. At the  
37 Engineer's discretion, the Engineer may evaluate the HMA pavement for low  
38 cyclic density, and when doing so will follow WSDOT SOP 733. A \$500 Cyclic  
39 Density Price Adjustment will be assessed for any 500-foot section with two  
40 or more density readings below 90 percent of the theoretical maximum  
41 density.  
42

43 **5-04.3(10)C HMA Compaction Acceptance – Statistical Evaluation**

44 HMA compaction which is accepted by Statistical Evaluation will be based on  
45 acceptance testing performed by the Contracting Agency, and statistical  
46 analysis of those acceptance tests results. This will result in a Compaction  
47 Price Adjustment.  
48

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

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

10  
11 Each compaction lot comprises a maximum of 15 compaction sublots,  
12 except for the final compaction lot of each mix design on the Contract,  
13 which comprises a maximum of 25 sublots.

14  
15 Each compaction subplot shall be uniform in size as shown in Table 17,  
16 except that the last compaction subplot of each day may be increased to a  
17 maximum of two times the compaction subplot quantity calculated. Minor  
18 variations in the size of any subplot shall not be cause to invalidate the  
19 associated test result.  
20

Table 17

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

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

21  
22 The following will cause one compaction lot to end prematurely and a  
23 new compaction lot to begin:

- 24  
25 • For a compaction lot in progress with a compaction CPF less  
26 than 0.75, a new compaction lot will begin at the Contractor's  
27 request after the Engineer is satisfied that material conforming  
28 to the Specifications can be produced. See also Section 5-  
29 04.3(11)F.

30  
31 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance**  
32 **Testing**

33 Comply with Section 1-06.2(1).

34  
35 The location of HMA compaction acceptance tests will be randomly  
36 selected by the Contracting Agency from within each subplot, with one test  
37 per subplot. The Contracting Agency will determine the random sample  
38 location using WSDOT Test Method T 716.

39  
40 Use Table 18 to determine compaction acceptance test procedures and  
41 to allocate compaction acceptance sampling and testing responsibilities

1  
2  
3  
4  
5

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

<b>HMA Compaction Acceptance Testing Procedures and Responsibilities</b>			
	When Contract Includes Bid Item "Roadway Cores"	When Contract Does Not Include Bid Item "Roadway Cores"	
Basis for Test:	Roadway Cores	Roadway Cores <sup>3</sup>	Nuclear Density Gauge <sup>3</sup>
In-Place Density Determined by:	Contractor shall take cores <sup>1</sup> using WSDOT SOP 734 <sup>2</sup> Contracting Agency will determine core density using FOP for AASHTO T 166	Contracting Agency will take cores <sup>1</sup> using WSDOT SOP 734 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 Compaction in Each Sublot Determined by:	Contracting Agency, using WSDOT SOP 736	Contracting Agency, using WSDOT SOP 736	Contracting Agency, using FOP for WAQTC TM 8

<sup>1</sup>The core diameter shall be 4-inches unless otherwise approved by the Engineer.

<sup>2</sup>The 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.

<sup>3</sup>The 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.

1  
2 When using the nuclear density gauge for acceptance testing of  
3 pavement density, the Engineer will follow WSDOT SOP 730 for  
4 correlating the nuclear gauge with HMA cores. When cores are required  
5 for the correlation, coring and testing will be by the Contracting Agency.  
6 When a core is taken for gauge correlation at the location of a subplot, the  
7 relative density of the core will be used for the subplot test result and is  
8 exempt from retesting.  
9

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

11 For each HMA compaction lot (that is accepted by Statistical Evaluation)  
12 which has less than three compaction sublots, for which all compaction  
13 sublots attain a minimum of 91 percent compaction determined in  
14 accordance with FOP for WAQTC TM 8 (or WSDOT SOP 736 when  
15 provided by the Contract), the HMA will be accepted at the unit Contract  
16 price with no further evaluation.  
17

18 For each HMA compaction lot (that is accepted by Statistical Evaluation)  
19 which does not meet the criteria in the preceding paragraph, the  
20 compaction lot shall be evaluated in accordance with Section 1-06.2(2) to  
21 determine the appropriate Compaction Price Adjustment (CPA). All of the  
22 test results obtained from the acceptance samples from a given  
23 compaction lot shall be evaluated collectively. Additional testing by either  
24 a nuclear density gauge or cores will be completed as required to provide  
25 a minimum of three tests for evaluation.  
26

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

28  
29 x = Percent compaction of each subplot  
30 USL = 100  
31 LSL = 91  
32

33 Each CPA will be determined as follows:

34  
35 
$$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$$
  
36

37 Where

38  
39 CPA = Compaction Price Adjustment for the compaction lot (\$)  
40 CPF = Composite Pay Factor for the compaction lot (maximum is  
41 1.05)  
42 Q = Quantity in the compaction lot (tons)  
43 UP = Unit price of the HMA in the compaction lot (\$/ton)  
44

45 **5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting**

46 For a compaction subplot that has been tested with a nuclear density  
47 gauge that did not meet the minimum of 91 percent of the theoretical  
48 maximum density in a compaction lot with a CPF below 1.00 and thus  
49 subject to a price reduction or rejection, the Contractor may request that  
50 a core, taken at the same location as the nuclear density test, be used for  
51 determination of the relative density of the compaction subplot. The

1 relative density of the core will replace the relative density determined by  
2 the nuclear density gauge for the compaction subplot and will be used for  
3 calculation of the CPF and acceptance of HMA compaction lot. When  
4 cores are taken by the Contracting Agency at the request of the  
5 Contractor, they shall be requested by noon of the next workday after the  
6 test results for the compaction subplot have been provided or made  
7 available to the Contractor. Traffic control shall be provided by the  
8 Contractor as requested by the Engineer. Failure by the Contractor to  
9 provide the requested traffic control will result in forfeiture of the request  
10 for retesting. When the CPF for the compaction lot based on the results  
11 of the cores is less than 1.00, the Contracting Agency will deduct the cost  
12 for the coring from any monies due or that may become due the  
13 Contractor under the Contract at the rate of \$200 per core and the  
14 Contractor shall pay for the cost of the traffic control.

15  
16 **5-04.3(10)D HMA Compaction – Visual Evaluation**

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

22  
23 **5-04.3(10)E HMA Compaction – Test Point Evaluation**

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

29  
30 **5-04.3(10)F HMA Compaction Acceptance – Notification of Acceptance  
31 Test Results**

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

35  
36 **5-04.3(11) Reject Work**

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

40  
41 **5-04.3(11)A Reject Work – General**

42 Work that is defective or does not conform to Contract requirements shall be  
43 rejected. The Contractor may propose, in writing, alternatives to removal and  
44 replacement of rejected material. Acceptability of such alternative proposals  
45 will be determined at the sole discretion of the Engineer.

46  
47 **5-04.3(11)B Rejection by Contractor**

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

1 **5-04.3(11)C Rejection Without Testing (Mixture or Compaction)**

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

5  
6 No payment will be made for the rejected materials or the removal of the  
7 materials unless the Contractor requests the rejected material to be tested. If  
8 the Contractor requests testing, acceptance will be by Statistical Evaluation,  
9 and a minimum of three samples will be obtained and tested. When  
10 uncompacted material is required for testing but not available, the Engineer  
11 will determine random sample locations on the roadway in accordance with  
12 WSDOT Test Method T 716, take cores in accordance with WSDOT SOP  
13 734, and test the cores in accordance with WSDOT SOP 737.

14  
15 If the CPF for the rejected material is less than 0.75, no payment will be made  
16 for the rejected material; in addition, the cost of sampling and testing shall be  
17 borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost  
18 of sampling and testing will be borne by the Contracting Agency. If the  
19 material is rejected before placement and the CPF is greater than or equal to  
20 0.75, compensation for the rejected material will be at a CPF of 0.75. If  
21 rejection occurs after placement and the CPF is greater than or equal to 0.75,  
22 compensation for the rejected material will be at the calculated CPF with an  
23 addition of 25 percent of the unit Contract price added for the cost of removal  
24 and disposal.

25  
26 **5-04.3(11)D Rejection – A Partial Sublot (Mixture or Compaction)**

27 In addition to the random acceptance sampling and testing, the Engineer may  
28 also isolate from a mixture or compaction sublot any material that is  
29 suspected of being defective in relative density, gradation or asphalt binder  
30 content. Such isolated material will not include an original sample location.  
31 The Contracting Agency will obtain a minimum of three random samples of  
32 the suspect material and perform the testing. When uncompacted material is  
33 required for testing but is not available, the Engineer will select random  
34 sample locations on the roadway in accordance with WSDOT Test Method T  
35 716, take cores samples in accordance with WSDOT SOP 734, and test the  
36 material in accordance with WSDOT SOP 737. The material will then be  
37 statistically evaluated as an independent lot in accordance with Section 1-  
38 06.2(2).

39  
40 **5-04.3(11)E Rejection – An Entire Sublot (Mixture or Compaction)**

41 An entire mixture or compaction sublot that is suspected of being defective  
42 may be rejected. When this occurs, a minimum of two additional random  
43 samples from this sublot will be obtained. When uncompacted material is  
44 required for the additional samples but the material has been compacted, the  
45 Contracting Agency will take and test cores from the roadway as described in  
46 Section 5-04.3(11)D. The additional samples and the original sublot will be  
47 evaluated as an independent lot in accordance with Section 1-06.2(2).  
48

1 **5-04.3(11)F Rejection - A Lot in Progress (Mixture or Compaction)**

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

- 5
- 6 1. the Composite Pay Factor (CPF) of a mixture or compaction lot in  
7 progress drops below 1.00 and the Contractor is taking no corrective  
8 action, or
  - 9 2. the Pay Factor (PF<sub>i</sub>) for any constituent of a mixture or compaction  
10 lot in progress drops below 0.95 and the Contractor is taking no  
11 corrective action, or
  - 12 3. either the PF<sub>i</sub> for any constituent (or the CPF) of a mixture or  
13 compaction lot in progress is less than 0.75.
- 14

15 **5-04.3(11)G Rejection – An Entire Lot (Mixture or Compaction)**

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

17 **5-04.3(12) Joints**

18 **5-04.3(12)A HMA Joints**

19 **5-04.3(12)A1 Transverse Joints**

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

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

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

37 **5-04.3(12)A2 Longitudinal Joints**

38 Offset the longitudinal joint in any one course from the course  
39 immediately below by not more than 6 inches nor less than 2 inches.  
40 Locate all longitudinal joints constructed in the wearing course at a lane  
41 line or an edge line of the Traveled Way. Construct a notched wedge  
42 joint along all longitudinal joints in the wearing surface of new HMA  
43 unless otherwise approved by the Engineer. The notched wedge joint  
44 shall have a vertical edge of not less than the maximum aggregate size  
45 nor more than ½ of the compacted lift thickness, and then taper down on  
46  
47  
48  
49  
50  
51

1 a slope not steeper than 4H:1V. Uniformly compact the sloped portion of  
2 the HMA notched wedge joint.

3  
4 On one-lane ramps a longitudinal joint may be constructed at the center  
5 of the traffic lane, subject to approval by the Engineer, if:

- 6  
7 1. The ramp must remain open to traffic, or  
8  
9 2. The ramp is closed to traffic and a hot-lap joint is constructed.  
10  
11 a. Two paving machines shall be used to construct the hot-lap  
12 joint.  
13  
14 b. The pavement within 6 inches of the hot-lap joint will not be  
15 excluded from random location selection for compaction  
16 testing.  
17  
18 c. Construction equipment other than rollers shall not operate  
19 on any uncompacted HMA.  
20

21 When HMA is placed adjacent to cement concrete pavement, construct  
22 longitudinal joints between the HMA and the cement concrete pavement.  
23 Saw the joint to the dimensions shown on Standard Plan A-40.10 and fill  
24 with joint sealant meeting the requirements of Section 9-04.2.  
25

#### 26 **5-04.3(12)B Bridge Paving Joint Seals**

##### 27 **5-04.3(12)B1 HMA Sawcut and Seal**

28 Prior to placing HMA on the bridge deck, establish sawcut alignment  
29 points at both ends of the bridge paving joint sealsto be placed at the  
30 bridge ends, and at interior joints within the bridge deck when and where  
31 shown in the Plans. Establish the sawcut alignment points in a manner  
32 that they remain functional for use in aligning the sawcut after placing the  
33 HMA overlay.  
34

35 Submit a Type 1 Working Drawing consisting of the sealant  
36 manufacturer's application procedure.  
37

38 Construct the bridge paving joint seal as specified in the Plans and in  
39 accordance with the detail shown in the Standard Plans. Construct the  
40 sawcut in accordance with Section 5-05.3(8). Apply the sealant in  
41 accordance with Section 5-05.3(8)B and the manufacturer's application  
42 procedure.  
43

##### 44 **5-04.3(12)B2 Paved Panel Joint Seal**

45 Construct the paved panel joint seal in accordance with the requirements  
46 specified in Section 5-04.3(12)B1 and the following requirement:  
47

- 48 1. Clean and seal the existing joint between concrete panels in  
49 accordance with Section 5-01.3(8) and the details shown in the  
50 Standard Plans.  
51



1 sensing the grade from an outside reference line, or a mat-referencing device.  
2 The automatic controls shall have a transverse slope controller capable of  
3 maintaining the mandrel at the desired transverse slope (expressed as a  
4 percentage) within plus or minus 0.1 percent.

5  
6 Remove all loose debris from the planed surface before opening the planed  
7 surface to traffic. The planings and other debris resulting from the planing  
8 operation shall become the property of the Contractor and be disposed of in  
9 accordance with Section 2-03.3(7)C, or as otherwise allowed by the Contract.

10  
11 **5-04.3(15) Sealing Pavement Surfaces**

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

15  
16 **5-04.3(16) HMA Road Approaches**

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

19  
20 **5-04.4 Measurement**

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

26  
27 Roadway cores will be measured per each for the number of cores taken.

28  
29 Crack Sealing-LF will be measured by the linear foot along the line of the crack.

30  
31 Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01  
32 mile or by the square yard, whichever is designated in the Proposal.

33  
34 Pavement repair excavation will be measured by the square yard of surface marked prior to  
35 excavation.

36  
37 Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

38  
39 Longitudinal joint seals between the HMA and cement concrete pavement will be measured  
40 by the linear foot along the line and slope of the completed joint seal.

41  
42 HMA sawcut and seal, and paved panel joint seal, will be measured by the linear foot along  
43 the line and slope of the completed joint seal.

44  
45 Planing bituminous pavement will be measured by the square yard.

46  
47 Temporary pavement marking will be measured by the linear foot as provided in Section 8-  
48 23.4.

49  
50 Water will be measured by the M gallon as provided in Section 2-07.4.  
51

1 **5-04.5 Payment**

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

3  
4 "HMA Cl. \_\_\_\_ PG \_\_\_\_", per ton.

5 "HMA for Approach Cl. \_\_\_\_ PG \_\_\_\_", per ton.

6 "HMA for Preleveling Cl. \_\_\_\_ PG \_\_\_\_", per ton.

7 "HMA for Pavement Repair Cl. \_\_\_\_ PG \_\_\_\_", per ton.

8 "Commercial HMA", per ton.

9 The unit Contract price per ton for "HMA Cl. \_\_\_\_ PG \_\_\_\_", "HMA for Approach Cl. \_\_\_\_

10 PG \_\_\_\_", "HMA for Preleveling Cl. \_\_\_\_ PG \_\_\_\_", "HMA for Pavement Repair Cl. \_\_\_\_

11 PG \_\_\_\_", and "Commercial HMA" shall be full compensation for all costs, including

12 anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for

13 those costs included in other items which are included in this Subsection and which

14 are included in the Proposal.

15  
16 "Crack Sealing-FA", by force account.

17 "Crack Sealing-FA" will be paid for by force account as specified in Section 1-09.6. For

18 the purpose of providing a common Proposal for all Bidders, the Contracting Agency

19 has entered an amount in the Proposal to become a part of the total Bid by the

20 Contractor.

21  
22 "Crack Sealing-LF", per linear foot.

23 The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for

24 all costs incurred to perform the Work described in Section 5-04.3(4)A.

25  
26 "Soil Residual Herbicide \_\_\_\_ ft. Wide", per mile, or

27 "Soil Residual Herbicide", per square yard.

28 The unit Contract price per mile or per square yard for "Soil Residual Herbicide" shall

29 be full payment for all costs incurred to obtain, provide and install herbicide in

30 accordance with Section 5-04.3(4)B.

31  
32 "Pavement Repair Excavation Incl. Haul", per square yard.

33 The unit Contract price per square yard for "Pavement Repair Excavation Incl. Haul"

34 shall be full payment for all costs incurred to perform the Work described in Section 5-

35 04.3(4)C with the exception, however, that all costs involved in the placement of HMA

36 shall be included in the unit Contract price per ton for "HMA for Pavement Repair Cl.

37 \_\_\_\_ PG \_\_\_\_", per ton.

38  
39 "Asphalt for Fog Seal", per ton.

40 Payment for "Asphalt for Fog Seal" is described in Section 5-02.5.

41  
42 "Longitudinal Joint Seal", per linear foot.

43 The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full payment

44 for all costs incurred to construct the longitudinal joint between HMA and cement

45 concrete pavement, as described in Section 5-04.3(12)B.

46  
47 "HMA Sawcut And Seal", per linear foot.

48 The unit Contract price per linear foot for "HMA Sawcut And Seal" shall be full payment

49 for all costs incurred to perform the Work described in Section 5-04.3(12)B1.

50  
51 "Paved Panel Joint Seal", per linear foot.

1 The unit Contract price per linear foot for "Paved Panel Joint Seal" shall be full  
2 payment for all costs incurred to perform the Work described in Section 5-04.3(12)B2.

3  
4 "Planing Bituminous Pavement", per square yard.  
5 The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full  
6 payment for all costs incurred to perform the Work described in Section 5-04.3(14).

7  
8 "Temporary Pavement Marking", per linear foot.  
9 Payment for "Temporary Pavement Marking" is described in Section 8-23.5.

10  
11 "Water", per M gallon.  
12 Payment for "Water" is described in Section 2-07.5.

13  
14 "Job Mix Compliance Price Adjustment", by calculation.  
15 "Job Mix Compliance Price Adjustment" will be calculated and paid for as described in  
16 Section 5-04.3(9)B6, 5-04.3(9)C3, and 5-04.3(9)D1.

17  
18 "Compaction Price Adjustment", by calculation.  
19 "Compaction Price Adjustment" will be calculated and paid for as described in Section  
20 5-04.3(10)C3.

21  
22 "Roadway Core", per each.  
23 The Contractor's costs for all other Work associated with the coring (e.g., traffic  
24 control) shall be incidental and included within the unit Bid price per each and no  
25 additional payments will be made.

26  
27 "Cyclic Density Price Adjustment", by calculation.  
28 "Cyclic Density Price Adjustment" will be calculated and paid for as described in  
29 Section 5-04.3(10)B.

30  
31 **Section 5-05, Cement Concrete Pavement**  
32 **August 1, 2016**

33 **5-05.3(3)B Mixing Equipment**

34 The last sentence of item number 4 is revised to read:

35  
36 Plant-mixed concrete may be transported in nonagitated vehicles provided that the  
37 concrete is in a workable condition when placed and:

- 38  
39 a. discharge is completed within 45 minutes after the introduction of mixing water to  
40 the cement and aggregates, or  
41  
42 b. discharge is completed within 60 minutes after the introduction of mixing water to  
43 the cement and aggregates, provided the concrete mix temperature is 70 F or  
44 below during placement, or  
45  
46 c. discharge is completed within 60 minutes after the introduction of mixing water to  
47 the cement and aggregates, provided the mix contains an approved set retarder at  
48 the manufacturer's minimum dosage rate.  
49

1 **5-05.3(6) Subgrade**

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

3  
4 **5-05.3(6) Surface Preparation**

5 The Subgrade surface shall be prepared and compacted a minimum of 3 feet beyond each  
6 edge of the area which is to receive concrete pavement in order to accommodate the slip-  
7 form equipment.

8  
9 Concrete shall not be placed during a heavy rainfall. Prior to placing concrete:

- 10  
11 1. The surface shall be moist;
- 12  
13 2. Excess water (e.g., standing, pooling or flowing) shall be removed from the  
14 surface.
- 15  
16 3. The surface shall be clean and free of any deleterious materials.
- 17  
18 4. The surface temperature shall not exceed 120°F or be frozen.

19  
20 **5-05.3(7)A Slip-Form Construction**

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

22  
23 The alignment and elevation of the paver shall be regulated from outside reference lines  
24 established for this purpose, or by an electronic control system capable of controlling the  
25 line and grade within required tolerances.

26  
27 **Section 6-02, Concrete Structures**  
28 **August 1, 2016**

29 **6-02.3(2)A Contractor Mix Design**

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

31  
32 The mix design submittal shall also include test results no older than one year showing that  
33 the Aggregates do not contain Deleterious Substances in accordance with Section 9-03.

34  
35 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

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

37  
38 Mix designs using shrinkage reducing admixture shall state the specific quantity required.

39  
40 The following new sentence is inserted before the last sentence of the last paragraph:

41  
42 Testing samples of mixes using shrinkage reducing admixture shall use the admixture  
43 amount specified in the mix design submittal.

44  
45 **6-02.3(2)B Commercial Concrete**

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

47  
48 Commercial concrete does not require mix design or source approvals for cement,  
49 aggregate, and other admixtures.

1  
2 **6-02.3(6)A1 Hot Weather Protection**

3 This section is revised to read:

4  
5 The Contractor shall provide concrete within the specified temperature limits. Cooling of the  
6 coarse aggregate piles by sprinkling with water is permitted provided the moisture content  
7 is monitored and the mixing water is adjusted for the free water in the aggregate. Shading  
8 or cooling aggregate piles (sprinkling of fine aggregate piles with water is not allowed). If  
9 sprinkling of the coarse aggregates is to be used, the piles moisture content shall be  
10 monitored and the mixing water adjusted for the free water in the aggregate. In addition,  
11 when removing the coarse aggregate, it shall be removed from at least 1 foot above the  
12 bottom of the pile. Refrigerating mixing water; or replacing all or part of the mixing water  
13 with crushed ice, provided the ice is completely melted by placing time.

14  
15 If air temperature exceeds 90°F, the Contractor shall use water spray or other accepted  
16 methods to cool all concrete-contact surfaces to less than 90°F. These surfaces include  
17 forms, reinforcing steel, steel beam flanges, and any others that touch the mix.

18  
19 **6-02.3(6)A2 Cold Weather Protection**

20 This section is revised to read:

21  
22 Concrete shall be maintained at or above a temperature of 40°F during the first seven days  
23 of the Cold Weather Protection Period and at or above a temperature of 35°F during the  
24 remainder of the Cold Weather Protection Period. Cold weather protection requirements do  
25 not apply to concrete placed below the ground line.

26  
27 Prior to placing concrete in cold weather, the Contractor shall submit a Type 2 Working  
28 Drawing with a written procedure for cold weather concreting. The procedure shall detail  
29 how the Contractor will adequately cure the concrete and prevent the concrete temperature  
30 from falling below the minimum temperature. Extra protection shall be provided for areas  
31 especially vulnerable to freezing (such as exposed top surfaces, corners and edges, thin  
32 sections, and concrete placed into steel forms). Concrete placement will only be allowed if  
33 the Contractor's cold weather protection plan has been accepted by the Engineer.

34  
35 Prior to concrete placement, the Contractor shall review the 7-day temperature predictions  
36 for the job site from the Western Region Headquarters of the National Weather Service  
37 ([www.wrh.noaa.gov](http://www.wrh.noaa.gov)). When temperatures below 35°F are predicted, the Contractor shall:

- 38  
39
- 40 1. Install temperature data loggers in each concrete pour. One data logger shall be  
41 installed for every 100 yards of concrete placed. Data loggers shall be installed at  
42 locations directed by the Engineer, and shall be placed 1.5 inches from the face of  
43 concrete.
  - 44 2. Immediately after concrete placement, temperature data loggers shall be installed  
45 on the concrete surface at locations directed by the Engineer. One data logger  
46 shall be installed for every 100 yards of concrete placed.

47  
48 The data loggers shall be operated continuously during the Cold Weather Protection  
49 Period. Temperatures shall be measured, recorded and stored a minimum of every 30  
50 minutes. Temperature data shall be submitted to the Engineer as a Type 1 Working  
51 Drawing within three days following the end of the Cold Weather Protection Period.

1  
2 If the concrete temperature falls below 40°F during the first seven days of the Cold Weather  
3 Protection Period, no curing time is awarded for that day and the Cold Weather Protection  
4 Period is extended for one additional day. If the concrete temperature falls below 35°F  
5 during Cold Weather Protection Period, the concrete may be rejected by the Engineer.  
6

### 7 **6-02.3(17)N Removal of Falsework and Forms**

8 The fifth paragraph is deleted.  
9

### 10 **6-02.3(25)J Horizontal Alignment**

11 The last two sentences of the third paragraph are revised to read the following single sentence:  
12

13 Any girder that exceeds an offset of  $\frac{1}{8}$  inch for each 10 feet of girder length shall be  
14 corrected at the job site to the  $\frac{1}{8}$  inch maximum offset per 10 feet of girder length before  
15 concrete is placed into the diaphragms.  
16

### 17 **6-02.3(26)D2 Test Block Dimensions**

18 The first sentence is revised to read:  
19

20 The dimensions of the test block perpendicular to the tendon in each direction shall be the  
21 smaller of twice the minimum edge distance or the minimum spacing specified by the  
22 special anchorage device manufacturer, with the stipulation that the concrete cover over  
23 any confining reinforcing steel or supplementary skin reinforcement shall be appropriate for  
24 the project-specific application and circumstances.  
25

### 26 **6-02.3(26)E2 Ducts for External Exposed Installation**

27 In the first paragraph, "ASTM D3350" is revised to read "ASTM D3035".  
28

29 In the fourth paragraph, "ASTM D3505" is revised to read "ASTM D3035".  
30

### 31 **6-02.3(26)G Tensioning**

32 Item number 1 of the second paragraph is revised to read:  
33

- 34 1. All concrete has reached a compressive strength of at least 4,000 psi or the strength  
35 specified in the Plans. When tensioning takes place prior to 28-day compressive  
36 strength testing on concrete sampled in accordance with Section 6-02.3(25)H,  
37 compressive strength shall be verified on field cured cylinders in accordance with the  
38 FOP for AASHTO T23.  
39

### 40 **6-02.3(27)A Use of Self-Consolidating Concrete for Precast Units**

41 Item number 2 of the first paragraph is revised to read:  
42

- 43 2. Precast reinforced concrete three-sided structures, box culverts and split box culverts  
44 in accordance with Section 7-02.3(6).  
45

1 **Section 6-05, Piling**  
2 **August 1, 2016**

3 In this section, the words “capacity” and “capacities” are replaced with the words “resistance”  
4 and “resistances”, respectively.

5  
6 **6-05.3(1) Piling Terms**

7 The third paragraph is revised to read:

8  
9 **Overdriving** – Over-driving of piles occurs when the ultimate bearing resistance calculated  
10 from the equation in Section 6-05.3(12), or the wave equation driving criteria if applicable,  
11 exceeds the ultimate bearing resistance required in the Contract in order to reach the  
12 minimum tip elevation specified in the Contract, or as required by the Engineer.

13  
14 The first sentence of the last paragraph is revised to read:

15  
16 **Minimum Tip Elevation** – The minimum tip elevation is the elevation to which the pile tip  
17 shall be driven.

18  
19 **6-05.3(3)A Casting and Stressing**

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

21  
22 If the corrective action is not acceptable to the Engineer, the piling(s) will be subject to  
23 rejection by the Engineer.

24  
25 **6-05.3(5) Manufacture of Steel Piles**

26 This section is supplemented with the following new paragraph:

27  
28 At least 14-days prior to the start of production of the piling, the Contractor shall advise the  
29 Engineer of the production schedule. The Contractor shall give the Inspector safe and free  
30 access to the Work. If the Inspector observes any nonspecification Work or unacceptable  
31 quality control practices, the Inspector will advise the plant manager. If the corrective action  
32 is not acceptable to the Engineer, the piling(s) will be subject to rejection by the Engineer.

33  
34 **6-05.3(9)A Pile Driving Equipment Approval**

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

36  
37 The Contractor shall submit Type 2E Working Drawings consisting of a wave equation  
38 analysis for all pile driving systems used to drive piling with required maximum driving  
39 resistances of greater than 300 tons.

40  
41 **Section 6-07, Painting**  
42 **August 1, 2016**

43 **6-07.3(10)F Collecting, Testing, and Disposal of Containment Waste**

44 The third, fourth and fifth paragraphs are deleted and replaced with the following two new  
45 paragraphs:

46  
47 Containment waste is defined as all paint chips and debris removed from the steel surface  
48 and all abrasive blast media, as contained by the containment system. After all waste from

1 the containment system has been collected, the Contractor shall collect representative  
2 samples of the components that field screening indicates are lead-contaminated material.  
3 The Contractor shall collect at least one representative sample from each container. The  
4 Contractor may choose to collect a composite sample of each container, but the composite  
5 sample must consist of several collection points (a minimum of 3 random samples) that are  
6 representative of the entire contents of the container and representative of the  
7 characteristics of the type of waste in the container. In accordance with WAC 173–303-  
8 040, a representative sample means “a sample which can be expected to exhibit the  
9 average properties of the sample source.”

10  
11 The debris shall be tested for metals using the Toxicity Characteristics Leaching Procedure  
12 (TCLP) and EPA Methods 1311 and 6010. At a minimum, the materials should be  
13 analyzed for the Resource Conservation and Recovery Act (RCRA) 8 Metals (arsenic,  
14 barium, cadmium, chromium, lead, mercury, selenium, and silver). Pursuant to the  
15 Dangerous Waste (DW) Regulations Chapter 173-303-90(8)(c) WAC, “Any waste that  
16 contains contaminants which occur at concentrations at or above the DW threshold must  
17 be designated as DW.” All material within each individual container or containment system  
18 that designates as DW shall be disposed of at a legally permitted Subtitle C Hazardous  
19 Waste Landfill. All material within each individual container or containment system that  
20 designate below the DW threshold, will be designated as “Solid Waste” and shall be  
21 disposed of at a legally permitted Subtitle D Landfill. Disposal shall be in accordance with  
22 WAC 173-303 for waste designated “Dangerous Waste” and pursuant to WAC 173-350 for  
23 waste designated as “Solid Waste”.  
24

## 25 **Section 6-09, Modified Concrete Overlays** 26 **April 4, 2016**

### 27 **6-09.3(8)A Quality Assurance for Microsilica Modified and Fly Ash Modified** 28 **Concrete Overlays**

29 The first sentence of the first paragraph is revised to read the following two new sentences:  
30

31 The Engineer will perform slump, temperature, and entrained air tests for acceptance in  
32 accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor  
33 has turned over the concrete for acceptance testing. Concrete samples for testing shall be  
34 supplied to the Engineer in accordance with Section 6-02.3(5)E.  
35

36 The last paragraph is deleted.  
37

### 38 **6-09.3(8)B Quality Assurance for Latex Modified Concrete Overlays**

39 The first two paragraphs are deleted and replaced with the following:  
40

41 The Engineer will perform slump, temperature, and entrained air tests for acceptance in  
42 accordance with Section 6-02.3(5)D and as specified in this Section after the Contractor  
43 has turned over the concrete for acceptance testing. The Engineer will perform testing as  
44 the concrete is being placed. Samples shall be taken on the first charge through each  
45 mobile mixer and every other charge thereafter. The sample shall be taken after the first 2  
46 minutes of continuous mixer operation. Concrete samples for testing shall be supplied to  
47 the Engineer in accordance with Section 6-02.3(5)E.  
48

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

1  
2 Recommendations made by the technical representative on or off the jobsite shall be  
3 adhered to by the Contractor.  
4

5 **Section 6-10, Concrete Barrier**  
6 **August 1, 2016**

7 **6-10.3(5) Temporary Concrete Barrier**

8 This section title is revised to read:  
9

10 **Temporary Barrier**

11  
12 The first paragraph is revised to read:  
13

14 For temporary barrier, the Contractor may use precast concrete barrier or temporary steel  
15 barrier. Temporary concrete barrier shall comply with Standard Plan requirements and  
16 cross-sectional dimensions, except that: (1) it may be made in other lengths than those  
17 shown in the Standard Plan, and (2) it may have permanent lifting holes no larger than 4  
18 inches in diameter or lifting loops. Temporary steel barrier shall be certified that it meets  
19 NCHRP 350 or MASH crash test requirements and shall be installed in accordance with the  
20 manufacturer's recommendations.  
21

22 **6-10.4 Measurement**

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

25 Temporary barrier will be measured by the linear foot along the completed line and slope of  
26 the barrier, one time only for each setup of barrier protected area.  
27

28 **6-10.5 Payment**

29 The Bid item "Temporary Conc. Barrier", per linear foot, and the paragraph following this Bid  
30 item, is revised to read:  
31

32 "Temporary Barrier", per linear foot.  
33

34 The unit Contract price per linear foot for "Temporary Barrier" shall be full pay for all costs,  
35 including furnishing, installing, connecting, anchoring, maintaining, temporary storage, and  
36 final removal of the temporary barrier.  
37

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

40 **6-14.5 Payment**

41 The bid item "Concrete Fascia Panel", per square foot, and the paragraph following this bid item  
42 are revised to read:  
43

44 "Concrete Fascia Panel For Geosynthetic Wall", per square foot.  
45

46 All costs in connection with constructing the concrete fascia panels as specified shall be  
47 included in the unit Contract price per square foot for "Concrete Fascia Panel For  
48 Geosynthetic Wall", including all steel reinforcing bars, premolded joint filler, polyethylene

1 bond breaker strip, joint sealant, PVC pipe for weep holes, exterior surface finish, and  
2 pigmented sealer (when specified), constructing and placing the concrete footing, edge  
3 beam, anchor beam, anchor rod assembly, and backfill.  
4

5 **Section 6-19, Shafts**  
6 **August 1, 2016**

7 **6-19.3 Construction Requirements**

8 This section is supplemented with the following new subsection:  
9

10 **6-19.3(10) Engineer's Final Acceptance of Shafts**

11 The Engineer will determine final acceptance of each shaft, based on the nondestructive  
12 QA test results and analysis for the tested shafts, and will provide a response to the  
13 Contractor within 3 working days after receiving the test results and analysis submittal.  
14

15 **6-19.3(1)B Nondestructive Testing of Shafts**

16 This section's content is deleted and replaced with the following new subsections:  
17

18 **6-19.3(1)B1 Nondestructive Quality Assurance (QA) Testing of Shafts**

19 Unless otherwise specified in the Special Provisions, the Contractor shall perform  
20 nondestructive QA testing of shafts, except for those constructed completely in the dry.  
21 Either crosshole sonic log (CSL) testing in accordance with ASTM D 6760 or thermal  
22 integrity profiling (TIP) testing in accordance with ASTM D 7949 shall be used.  
23

24 **6-19.3(1)B2 Nondestructive Quality Verification (QV) Testing of Shafts**

25 The Contracting Agency may perform QV nondestructive testing of shafts that have been  
26 QA tested by the Contractor. The Contracting Agency may test up to ten percent of the  
27 shafts. The Engineer will identify the shafts selected for QV testing and the testing method  
28 the Contracting Agency will use.  
29

30 The Contractor shall accommodate the Contracting Agency's nondestructive testing.  
31

32 **6-19.3(2) Shaft Construction Submittal**

33 This section is revised to read:  
34

35 The shaft construction submittal shall be comprised of the following four components:  
36 construction experience; shaft installation narrative; shaft slurry technical assistance; and  
37 nondestructive QA testing personnel. The submittals shall be Type 2 Working Drawings,  
38 except the shaft slurry technical assistance and nondestructive QA testing personnel  
39 submittals shall be Type 1.  
40

41 This section is supplemented with the following new subsection:  
42

43 **6-19.3(2)D Nondestructive QA Testing Organization and Personnel**

44 The Contractor shall submit the names of the testing organizations, and the names of the  
45 personnel who will conduct nondestructive QA testing of shafts. The submittal shall include  
46 documentation that the qualifications specified below are satisfied. For TIP testing, the  
47 testing organization is the group that performs the data analysis and produces the final  
48 report. The testing organizations and the testing personnel shall meet the following  
49 minimum qualifications:

- 1
- 2 1. The testing organization shall have performed nondestructive tests on a minimum
- 3 of three deep foundation projects in the last two years.
- 4
- 5 2. Personnel conducting the tests for the testing organization shall have a minimum
- 6 of one year experience in nondestructive testing and interpretation.
- 7
- 8 3. The experience requirements for the organization and personnel shall be
- 9 consistent with the testing methods the Contractor has selected for nondestructive
- 10 testing of shafts.
- 11
- 12 4. Personnel preparing test reports shall be a Professional Engineers, licensed
- 13 under Title 18 RCW, State of Washington, and in accordance with WAC 196-23-
- 14 020.
- 15

### 16 **6-19.3(3) Shaft Excavation**

17 The second paragraph is revised to read:

18

19 Shaft excavation shall not be started until the Contractor has received the Engineer

20 acceptance for the reinforcing steel centralizers required when the casing is to be pulled

21 during concrete placement.

22

23 This section is supplemented with the following:

24

25 Except as otherwise noted, the Contractor shall not commence subsequent shaft

26 excavations until receiving the Engineer's acceptance of the first shaft, based on the results

27 and analysis of the nondestructive testing for the first shaft. The Contractor may commence

28 subsequent shaft excavations prior to receiving the Engineer's acceptance of the first shaft,

29 provided the following condition is satisfied:

30

31 The Engineer permits continuing with shaft construction based on the Engineer's

32 observations of the construction of the first shaft, including, but not limited to,

33 conformance to the shaft installation narrative in accordance with Section 6-19.3(2)B,

34 and the Engineer's review of Contractor's daily reports and Inspector's daily logs

35 concerning excavation, steel reinforcing bar placement, and concrete placement.

36

### 37 **6-19.3(6) Access Tubes for Crosshole Sonic Log (CSL) Testing**

38 This section title is revised to read:

#### 39 **6-19.3(6) Contractor Furnished Accessories for Nondestructive QA Testing**

40

41

42 This section is supplemented with the following three new subsections:

43

#### 44 **6-19.3(6)D Shafts Requiring Thermal Wire**

45 The Contractor shall furnish and install thermal wire in all shafts receiving the thermal wire

46 method of TIP testing, except as otherwise noted in Section 6-19.3(1)B1.

47

#### 48 **6-19.3(6)E Thermal Wire and Thermal Access Points (TAPs)**

49 The thermal wire and associated couplers shall be obtained from the source specified in

50 the Special Provisions.

51

1 The Contractor shall securely attach the thermal wire to the interior of the reinforcement  
2 cage of the shaft in conformance with the supplier's instructions. At a minimum, one  
3 thermal wire shall be furnished and installed for each foot of shaft diameter, rounded to the  
4 nearest whole number, as shown in the Plans. The number of thermal wires for shaft  
5 diameters specified as "X feet 6 inches" shall be rounded up to the next higher whole  
6 number. The thermal wires shall be placed around the shaft, inside the spiral or hoop  
7 reinforcement, and tied to the vertical reinforcement with plastic "zip" ties at a maximum  
8 spacing of 2-feet. Steel tie wire shall not be used.

9  
10 The thermal wire shall be installed in straight alignment and taut, but with enough slack to  
11 not be damaged during reinforcing cage lofting. The wires shall be as near to parallel to the  
12 vertical axis of the reinforcement cage as possible. The thermal wire shall extend from the  
13 bottom of the reinforcement cage to the top of the shaft, with 15-feet of slack wire provided  
14 above the top of shaft. Care shall be taken to prevent damaging the thermal wires during  
15 reinforcement cage installation and concrete placement operations in the shaft excavation.

16  
17 After completing shaft reinforcement cage fabrication at the site and prior to installation of  
18 the cage into the shaft excavation, the Contractor shall install and connect thermal access  
19 points (TAPs) to the thermal wires. The TAPs shall record data for at least one hour after  
20 the cage is placed in the excavation to measure the slurry temperature and enable the steel  
21 and slurry temperatures to equilibrate prior to placing concrete in the shaft. The TAPs shall  
22 record and store data every 15 minutes. The TAPs shall remain active for a minimum of 36  
23 hours.

24  
25 Prior to beginning concrete placement the TAPs shall be checked to ensure they are  
26 recording data and that the wires have not been damaged. If a TAP unit is not functioning  
27 due to a damaged wire, the Contractor shall repair or replace the wire. If a TAP unit fails or  
28 a wire breaks after concrete placement has started, the Contractor shall not stop the  
29 concrete placement operation to repair the wire.

### 30 31 **6-19.3(6)F Use of Access Tubes for TIP Testing Under the Thermal Probe Method**

32 The Contractor may use access tubes for TIP testing under the thermal probe method.  
33 Access tubes shall be cared for in accordance with Section 6-19.3(6)C. Prior to TIP testing  
34 under the thermal probe method, the water in each tube shall be removed, collected, and  
35 stored in an insulated container. The access tube shall be blown dry and swabbed to  
36 remove residual water. After TIP testing, the collected and stored tube water shall be  
37 introduced back into the access tube. New potable water may be used, provided the water  
38 temperature is not more than 10°F cooler than the average concrete temperature  
39 measured by the probe.

### 40 41 **6-19.3(6)A Shafts Requiring CSL Access Tubes**

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

#### 43 44 **6-19.3(6)A Shafts Requiring Access Tubes**

45 The Contractor shall furnish and install access tubes in all shafts receiving CSL testing or  
46 the thermal probe method of TIP testing, except as otherwise noted in Section 6-19.3(1)B1.

### 47 48 **6-19.3(6)B Orientation and Assembly of the CSL Access Tubes**

49 This section's title is revised to read:



1 **6-19.3(9)B Inspection of CSL Access Tubes**

2 This section's title is revised to read:

3  
4 **6-19.3(9)B Inspection of Access Tubes**

5  
6 **6-19.3(9)C Engineer's Final Acceptance of Shafts**

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

8  
9 **6-19.3(9)C TIP Testing With Thermal Wires and TAPs**

10 If selected as the nondestructive QA testing method by the Contractor, TIP testing with  
11 thermal wires and TAPs (See Section 6-19.3(6)E) shall be performed. The TIP testing shall  
12 commence at the beginning of the concrete placement operation, recording temperature  
13 readings at 15-minute intervals until the peak temperature is captured in the data.

14 Additional curing time may be required if the shaft concrete contains admixtures, such as  
15 set retarding admixture or water-reducing admixture, added in accordance with Section 6-  
16 02.3(3). The additional curing time required under these circumstances shall not be  
17 grounds for additional compensation or extension of time to the Contractor in accordance  
18 with Section 1-08.8.

19  
20 TIP testing shall be conducted at all shafts in which thermal wires and TAPs have been  
21 installed for thermal wire analysis (Section 6-19.3(6)A).

22  
23 **6-19.3(9)D Requirements to Continue Shaft Excavation Prior to Acceptance of**  
24 **First Shaft**

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

26  
27 **6-19.3(9)D Nondestructive QA Testing Results Submittal**

28 The Contractor shall submit the results and analysis of the nondestructive QA testing for  
29 each shaft tested. The Contractor shall submit the test results within three working days of  
30 testing. Results shall be a Type 1 Working Drawing presented in a written report.

31  
32 TIP reports shall include:

- 33  
34 1. A map or plot of the wire/tube location within the shaft and their position relative to  
35 a known and identifiable location, such as North.  
36  
37 2. Graphical displays of temperature measurements versus depth of each wire or  
38 tube for the analysis time selected, overall average temperature with depth, shaft  
39 radius or diameter with depth, concrete cover versus cage position with depth,  
40 and effective radius.  
41  
42 3. The report shall identify unusual temperatures, particularly significantly cooler  
43 local deviations from the overall average.  
44  
45 4. The report shall identify the location and extent where satisfactory or questionable  
46 concrete is identified.  
47  
48 a. Satisfactory (S) - 0 to 6% Effective Radius Reduction and Cover Criteria Met  
49



1 **6-19.4 Measurement**

2 This section is revised to read:

3  
4 Constructing shafts will be measured by the linear foot. The linear foot measurement will  
5 be calculated using the top of shaft elevation and the bottom of shaft elevation for each  
6 shaft as shown in the Plans.

7  
8 Rock excavation for shaft, including haul, will be measured by the linear foot of shaft  
9 excavated. The linear feet measurement will be computed using the top of the rock line,  
10 defined as the highest bedrock point within the shaft diameter, and the bottom elevation  
11 shown in the Plans.

12  
13 QA shaft test will be measured once per shaft tested.

14  
15 **6-19.5 Payment**

16 This section is revised to read:

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

19  
20 "Constructing \_\_\_Diam. Shaft", per linear foot.

21 The unit Contract price per linear foot for "Constructing \_\_\_Diam. Shaft" shall be full  
22 pay for performing the Work as specified, including:

- 23  
24 1. Soil excavation for shaft, including all costs in connection with furnishing,  
25 mixing, placing, maintaining, containing, collecting, and disposing of all  
26 mineral, synthetic and water slurry, and disposing of groundwater collected by  
27 the excavated shaft.  
28  
29 2. Furnishing and placing temporary shaft casing, including temporary casing in  
30 addition to the required casing specified in the Special Provisions, and  
31 including all costs in connection with completely removing the casing after  
32 completing shaft construction.  
33  
34 3. Furnishing permanent casing for shaft.  
35  
36 4. Placing permanent casing for shaft.  
37  
38 5. Casing shoring, including all costs in connection with furnishing and installing  
39 casing shoring above the specified upper limit for casing shoring but  
40 necessary to provide for sufficient water head pressure to resist artesian  
41 water pressure present in the shaft excavation, removing casing shoring, and  
42 placing seals when required.  
43  
44 6. Furnishing and placing steel reinforcing bar and epoxy-coated steel  
45 reinforcing bar, including furnishing and installing steel reinforcing bar  
46 centralizers.  
47  
48 7. Installation of CSL tubes or thermal wires.  
49

- 1           8. Furnishing, placing and curing Concrete Class 4000P to the top of shaft or to  
2 the construction joint at the base of the shaft-column splice zone as  
3 applicable.  
4

5 Payment for “Constructing \_\_\_Diam. Shaft” will be made upon Engineer acceptance of  
6 the shaft, including completion of satisfactory QA shaft tests as applicable.  
7

8 “Rock Excavation For Shaft Including Haul”, per linear foot.

9 When rock excavation is encountered, payment for rock excavation is in addition to the  
10 unit Contract price per linear foot for “Constructing \_\_\_Diam. Shaft”  
11

12 “Shoring Or Extra Excavation Cl. A - \_\_\_”, lump sum.

13 The lump sum Contract price for “Shoring Or Extra Excavation Cl. A - \_\_\_” shall be full  
14 pay for performing the Work as specified, including all costs in connection with all  
15 excavation outside the limits specified for soil and rock excavation for shaft including  
16 haul, all temporary telescoping casings, and all temporary casings beyond the limits of  
17 required temporary casing specified in the Special Provisions.  
18

19 “QA Shaft Test”, per each.

20 The unit Contract price per each for “QA Shaft Test” shall be full pay for performing the  
21 Work as specified, including operating all associated accessories necessary to record  
22 and process data and develop the summary QA test reports. Section 1-04.6 does not  
23 apply to this bid item.  
24

25 “Removing Shaft Obstructions”, estimated.

26 Payment for removing, breaking-up, or pushing aside shaft obstructions, as defined in  
27 Section 6-19.3(3)E, will be made for the changes in shaft construction methods  
28 necessary to deal with the obstruction. The Contractor and the Engineer shall evaluate  
29 the effort made and reach agreement on the equipment and employees utilized, and  
30 the number of hours involved for each. Once these cost items and their duration have  
31 been agreed upon, the payment amount will be determined using the rate and markup  
32 methods specified in Section 1-09.6. For the purpose of providing a common proposal  
33 for all Bidders, the Contracting Agency has entered an amount for the item “Removing  
34 Shaft Obstructions” in the Bid Proposal to become a part of the total Bid by the  
35 Contractor.  
36

37 If drilled shaft tools, cutting teeth, casing or Kelly bar is damaged as a result of the  
38 obstruction removal work, the Contractor will be compensated for the costs to repair  
39 this equipment in accordance with Section 1-09.6.  
40

41 If shaft construction equipment is idled as a result of the Work required to deal with the  
42 obstruction and cannot be reasonably reassigned within the project, then standby  
43 payment for the idled equipment will be added to the payment calculations. If labor is  
44 idled as a result of the Work required to deal with the obstruction and cannot be  
45 reasonably reassigned within the project, then all labor costs resulting from Contractor  
46 labor agreements and established Contractor policies will be added to the payment  
47 calculations.  
48

49 The Contractor shall perform the amount of obstruction Work estimated by the  
50 Contracting Agency within the original time of the Contract. The Engineer will consider

1 a time adjustment and additional compensation for costs related to the extended  
2 duration of the shaft construction operations, provided:

- 3  
4 1. The dollar amount estimated by the Contracting Agency has been exceeded,  
5 and  
6  
7 2. The Contractor shows that the obstruction removal Work represents a delay  
8 to the completion of the project based on the current progress schedule  
9 provided in accordance with Section 1-08.3.

10  
11  
12 **Section 7-02, Culverts**  
13 **August 1, 2016**

14 **7-02.2 Materials**

15 The following three new items are inserted after the item "Aggregate for Portland Cement  
16 Concrete:

17  
18 Gravel Backfill for Pipe Zone Bedding 9-03.12(3)  
19 Butyl Rubber Sealant 9-04.11  
20 External Sealing Band 9-04.12  
21

22 The last paragraph is deleted.  
23

24 **7-02.3(6) Precast Reinf. Conc. Three Sided Structures, Box Culverts and Split**  
25 **Box Culverts**

26 This section is supplemented with the following new paragraph:  
27

28 When the Plans include a complete set of design details for a Structure (defining panel  
29 shapes and dimensions, concrete strength requirements, and steel reinforcing bar, joint,  
30 and connection details), the design and load rating preparation and calculation submittal  
31 requirements of Sections 7-02.3(6)A1 and 7-02.3(6)A2 do not apply for the components  
32 shown in the Plans, but all other requirements of this Section remain in effect. The  
33 Contractor may propose alternate concrete culvert designs, accommodating the same rise,  
34 span, and length as shown in the Plans, to replace the Structure details shown in the Plans.  
35 If an alternate concrete culvert design is proposed, all of the requirements of this Section,  
36 including design and load rating preparation and calculation submittal, apply.  
37

38 **7-02.3(6)A General**

39 This section is supplemented with the following two new paragraphs:  
40

41 Tolerances for PRCTSS shall be as follows:  
42

- 43 1. Internal Dimensions – The internal dimension shall not vary more than 1 percent  
44 or 2 inches, whichever is less, from the Plan dimensions. The haunch dimensions  
45 shall not vary more than  $\frac{3}{4}$  inch from the Plan dimensions.  
46  
47 2. Slab and Wall Thickness – The slab and wall thickness shall not be less than that  
48 shown in the Plans by more than 5 percent or  $\frac{1}{2}$  inch, whichever is greater. A

1 thickness more than that required in the Plans will not be a cause for rejection if  
2 proper joining is not affected.

- 3  
4 3. Length of Opposite Surfaces – Variations in lengths of two opposite surfaces of  
5 the three-sided section shall not be more than  $\frac{3}{4}$  inch unless beveled sections are  
6 being used to accommodate a curve in the alignment.  
7  
8 4. Reinforcing steel placement shall meet the tolerances specified in Section 6-  
9 02.3(24)C.

10 Tolerances for PRCBC and PRCSBC shall be as follows:

- 11  
12  
13 1. Internal Dimensions – The internal dimensions shall not vary more than 1 percent  
14 from the Plan dimensions. If haunches are used, the haunch dimensions shall not  
15 vary more than  $\frac{1}{4}$  inch from the Plan dimensions.  
16  
17 2. Slab and Wall Thickness – The slab and wall thickness shall not be less than that  
18 shown in the Plans by more than 5 percent or  $\frac{3}{16}$  inch, whichever is greater. A  
19 thickness more than that required in the Plans will not be a cause for rejection.  
20  
21 3. Length of Opposite Box Segments – Variations in lengths of two opposite surfaces  
22 of the box segments shall not be more than  $\frac{1}{8}$  inch per foot of internal span, with a  
23 maximum of  $\frac{5}{8}$  inch for all sizes through 7 feet internal span, and a maximum of  $\frac{3}{4}$   
24 inch for internal spans greater than 7 feet, except where beveled sections are  
25 being used to accommodate a curve in the alignment.  
26  
27 4. Length of Box Segments – The underrun in length of a segment shall not be more  
28 than  $\frac{1}{8}$  inch per foot of length with a maximum of  $\frac{1}{2}$  inch in any box segment.  
29  
30 5. Length of Legs and Slabs – The variation in length of the legs shall not be more  
31 than  $\frac{1}{8}$  inch per foot of the rise of the leg per leg with a maximum of  $\frac{5}{8}$  inches.  
32 The differential length between opposing legs of the same segment shall not be  
33 more than  $\frac{1}{2}$  inch. Length of independent top slab spans shall not vary by more  
34 than  $\frac{1}{8}$  inch per foot of span of the top slab, with a maximum of  $\frac{5}{8}$  inches.  
35  
36 6. Reinforcing steel placement shall meet the tolerances specified in Section 6-  
37 02.3(24)C.  
38

39 This section is supplemented with the following new subsection:

40  
41 **7-02.3(6)A5 Wingwalls and Retaining Walls**

42 Wingwalls and retaining walls (including cutoff walls and headwalls) shall be constructed in  
43 accordance with the Contractor's design and Working Drawing submittal or when the Plans  
44 include a complete set of design details for a wall (defining panel shapes and dimensions,  
45 concrete strength requirements, and steel reinforcing bar, joint, and connection details), the  
46 details shown in the Plans.  
47

48 Precast concrete construction shall conform to Sections 6-02.3(28) and 6-11.3(3).

49 Culvert bedding material shall be furnished, placed, and compacted in accordance with  
50 Section 7-02.3(6)A4.  
51

1  
2 **7-02.3(6)A1 Design Criteria**

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

4  
5 Whenever the minimum finished backfill or surfacing depth above the top of the Structure is  
6 less than 1'-0" (except when the top of the Structure is directly exposed to vehicular traffic),  
7 either all steel reinforcing bars in the span unit shall be epoxy-coated with 2" minimum  
8 concrete cover from the face of concrete to the face of the top mat of steel reinforcing bars,  
9 or the minimum concrete cover shall be 2½".

10  
11 The last sentence of the last paragraph is revised to read:

12  
13 Concrete cover from the face of any concrete surface to the face of any steel reinforcement  
14 shall be 1-inch minimum end clearance at all joints, and 2-inches minimum at all other  
15 locations.

16  
17 **7-02.3(6)A2 Submittals**

18 The first paragraph is revised to read:

19  
20 The Contractor shall submit shop drawings of the precast Structures. Fabrication shop  
21 drawings replicating complete design details when shown in the Plans shall be Type 2  
22 Working Drawings. Submittals completing the design based on the schematic geometric  
23 requirements shown in the Plans, or proposing a Contractor designed alternative concrete  
24 culvert Structure shall be Type 2E Working Drawings with supporting design calculations.

25  
26 The last paragraph is revised to read:

27  
28 For precast Structures with a span length greater than 20-feet (as defined in Section 7-  
29 02.3(6)A1), except when the depth of fill above the top of culvert exceeds the Structure  
30 span length, a Type 2E Working Drawing shall be submitted consisting of a load rating  
31 report prepared in accordance with the AASHTO Manual for Bridge Evaluation and  
32 WSDOT Bridge Design Manual LRFD M 23-50 Chapter 13. Soil pressures used shall  
33 include effects from the backfill material and compaction methods, and shall be in  
34 accordance with the WSDOT Geotechnical Design Manual M 46-03 and the geotechnical  
35 report prepared for the project.

36  
37 **7-02.3(6)A3 Casting**

38 This section is revised to read:

39  
40 Concrete shall conform to Section 6-02.3(28)B, with a 28-day compressive strength as  
41 specified in the Plans or the Working Drawings submittal.

42  
43 **7-02.3(6)A4 Excavation and Bedding Preparation**

44 The last paragraph is revised to read:

45  
46 The upper layer of bedding course shall be a 6-inch minimum thickness layer of culvert  
47 bedding material, defined as granular material either conforming to Section 9-03.12(3) or to  
48 AASHTO Grading No. 57 as specified in Section 9-03.1(4)C. The plan limits of the culvert  
49 bedding material shall extend 1-foot beyond the plan limits of the culvert or the Structure  
50 footing as applicable. The culvert bedding material shall be compacted in accordance with

1 the Section 2-09.3(1)E requirements for gravel backfill for drains. After compaction, the  
2 culvert bedding material shall be screeded transversely to the specified line and grade.  
3 Voids in the screeded culvert bedding material shall be filled and then rescreeded prior to  
4 erecting the precast Structure.

### 6 **7-02.3(6)B3 Erection**

7 The following sentence is inserted after the first sentence of the last paragraph:

8  
9 The weld-tie anchor spacing shall not exceed 6'-0".

10  
11 The last sentence of the last paragraph is revised to read:

12  
13 Keyways shall be filled with grout conforming to Section 9-20.3(2).

### 15 **7-02.3(6)C1 Casting**

16 This section is revised to read:

17  
18 PRCSBC shall consist of lid elements and "U" shaped base elements. The vertical legs of  
19 the "U" shaped base elements shall be full height matching the rise of the culvert, except as  
20 otherwise specified for culvert spans greater than 20-feet. For PRCSBC spans greater than  
21 20-feet (as defined in Section 7-02.3(6)A1), the lid elements may include vertical legs of a  
22 maximum length of 4-feet.

23  
24 All vertical and horizontal joints of PRCBC and PRCSBC elements shall be tongue and  
25 groove type joints, except PRCBC and PRCSBC of 20-foot span or less may have keyway  
26 joints connected by weld-tie anchors in accordance with Section 6-02.3(25)O. The weld-tie  
27 anchor spacing shall not exceed 6'-0". There shall be at least two galvanized steel tie  
28 plates across each top unit tongue and groove joint and each tongue and groove joint  
29 between upper and lower units, unless otherwise shown in the Plans or required by the  
30 seismic designed completed in accordance with Section 7-02.3(6)A1.

### 32 **7-02.3(6)C3 Erection**

33 This section is revised to read:

34  
35 PRCBC and PRCSBC shall be erected and backfilled in accordance with the erection  
36 sequence specified in the Working Drawing submittal, and the construction equipment  
37 restrictions specified in Section 6-02.3(25)O.

38  
39 The Contractor shall install a continuous strip of butyl rubber sealant within all tongue and  
40 groove joints prior to connecting the precast elements together. The butyl rubber sealant  
41 shall have a minimum cross section of 1/2-inch by 1 1/2-inch, unless otherwise shown in the  
42 Plans.

43  
44 After connecting the joints with weld-tie anchors, the Contractor shall paint the exposed  
45 metal surfaces with one coat of field primer conforming to Section 9-08.1(2)F. Keyways  
46 shall be filled with grout conforming to Section 9-20.3(2).

47  
48 The Contractor shall wrap all exterior joints along the top and sides of the PRCBC and  
49 PRCSBC with a 12-inch wide strip of external sealing band centered about the joint and  
50 adhesively bonded to the concrete surface.

1  
2 Backfill beside the PRCBC and PRCSBC shall be brought up in sequential layers,  
3 compacted concurrently. The difference in backfill height on opposing sides of the  
4 Structure shall not exceed 2-feet.

5  
6 **7-02.4 Measurement**

7 This section is supplemented with the following:

8  
9 Culvert bedding material will be measured by the cubic yard of material placed.

10  
11 **7-02.5 Payment**

12 This section is supplemented with the following:

13  
14 "Culvert Bedding Material", per cubic yard.

15  
16 **Section 8-01, Erosion Control and Water Pollution Control**  
17 **August 1, 2016**

18 **8-01.2 Materials**

19 This section is supplemented with the following new paragraph:

20  
21 Recycled concrete, in any form, shall not be used for any Work defined in Section 8-01.

22  
23 **8-01.3(7) Stabilized Construction Entrance**

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

25  
26 Material used for stabilized construction entrance shall be free of extraneous materials that  
27 may cause or contribute to track out.

28  
29 **8-01.3(8) Street Cleaning**

30 This section is revised to read:

31  
32 Self-propelled street sweepers shall be used to remove and collect sediment and other  
33 debris from the Roadway, whenever required by the Engineer. The street sweeper shall  
34 effectively collect these materials and prevent them from being washed or blown off the  
35 Roadway or into waters of the State. Street sweepers shall not generate fugitive dust and  
36 shall be designed and operated in compliance with applicable air quality standards.

37  
38 Material collected by the street sweeper shall be disposed of in accordance with Section 2-  
39 03.3(7)C.

40  
41 Street washing with water will require the concurrence of the Engineer.

42  
43 **Section 8-10, Guide Posts**  
44 **January 4, 2016**

45 **8-10.3 Construction Requirements**

46 The last sentence of the second paragraph is deleted.

1 **Section 8-11, Guardrail**  
2 **August 1, 2016**

3 **8-11.3(1)F Removing and Resetting Beam Guardrail**

4 The last sentence of the first paragraph is deleted.  
5

6 **8-11.5 Payment**

7 The paragraph following the Bid item "Removing and Resetting Beam Guardrail", per linear foot  
8 is revised to read:  
9

10 The unit Contract price per linear foot for "Removing and Resetting Beam Guardrail" shall  
11 be full payment for all costs to perform the Work as described in Section 8-11.3(1)F, except  
12 for replacement posts and blocks.  
13

14 The paragraph following the Bid item "Raising Existing Beam Guardrail", per linear foot is  
15 revised to read:  
16

17 The unit Contract price per linear foot for "Raising Existing Beam Guardrail" shall be full  
18 payment for all costs to perform the Work as described in Section 8-11.3(1)E, except for  
19 replacement posts and blocks.  
20

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

24 **8-20.3(5)A General**

25 The last paragraph is revised to read:  
26

27 Immediately after the sizing mandrel has been pulled through, install an equipment  
28 grounding conductor if applicable (see Section 8-20.3(9)) and any new or existing wire or  
29 cable as specified in the Plans. Where conduit is installed for future use, install a 200-  
30 pound minimum tensile strength pull string with the equipment grounding conductor. The  
31 pull string shall be attached to duct plugs or caps at both ends of the conduit.  
32

33 **8-20.3(5)A1 Fiber Optic Conduit**

34 The last paragraph is deleted.  
35

36 **8-20.3(5)D Conduit Placement**

37 Item number 2 is revised to read:  
38

39 2. 24-inches below the top of the untreated surfacing on a Roadbed.  
40

41 **8-20.3(9) Bonding, Grounding**

42 The following two new paragraphs are inserted after the first paragraph:  
43

44 Install an equipment grounding conductor in all new conduit, whether or not the equipment  
45 grounding conductor is called for in the wire schedule.  
46

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

1  
2 The fourth paragraph (after the preceding Amendments are applied) is revised to read:

3  
4 Bonding jumpers and equipment grounding conductors meeting the requirements of  
5 Section 9-29.3(2)A3 shall be minimum #8 AWG, installed in accordance with the NEC.  
6 Where existing conduits are used for the installation of new circuits, an equipment  
7 grounding conductor shall be installed unless an existing equipment ground conductor,  
8 which is appropriate for the largest circuit, is already present in the existing raceway. The  
9 equipment ground conductor between the isolation switch and the sign lighter fixtures shall  
10 be minimum #14 AWG stranded copper conductor. Where parallel circuits are enclosed in  
11 a common conduit, the equipment-grounding conductor shall be sized by the largest  
12 overcurrent device serving any circuit contained within the conduit.

13  
14 The second sentence of the fifth paragraph (after the preceding Amendments are applied) is  
15 revised to read:

16  
17 A non-insulated stranded copper conductor, minimum #8 AWG with a full circle crimp on  
18 connector (crimped with a manufacturer recommended crimper) shall be connected to the  
19 junction box frame or frame bonding stud, the other end shall be crimped to the equipment  
20 bonding conductor, using a "C" type crimp connector.

21  
22 The last two sentences of the sixth paragraph (after the preceding Amendments are applied)  
23 are revised to read:

24  
25 For light standards, signal standards, cantilever and sign bridge Structures the  
26 supplemental grounding conductor shall be #4 AWG non-insulated stranded copper  
27 conductor. For steel sign posts which support signs with sign lighting or flashing beacons  
28 the supplemental grounding conductor shall be #6 AWG non insulated stranded copper  
29 conductor.

30  
31 The fourth to last paragraph is revised to read:

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

42  
43 **Section 8-22, Pavement Marking**  
44 **January 4, 2016**

45 **8-22.4 Measurement**

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

47  
48 The measurement for "Painted Wide Lane Line", "Plastic Wide Lane Line", "Profiled Plastic  
49 Wide Lane Line", "Painted Barrier Center Line", "Plastic Barrier Center Line", "Painted Stop  
50 Line", "Plastic Stop Line", "Painted Wide Dotted Entry Line", or "Plastic Wide Dotted Entry

1 Line” will be based on the total length of each painted, plastic or profiled plastic line  
2 installed. No deduction will be made for the unmarked area when the marking includes a  
3 broken line such as, wide broken lane line, drop lane line, wide dotted lane line or wide  
4 dotted entry line.

### 6 **8-22.5 Payment**

7 The following two new Bid items are inserted after the Bid item “Plastic Crosshatch Marking”,  
8 per linear foot:

9  
10 “Painted Wide Dotted Entry Line”, per linear foot.

11  
12 “Plastic Wide Dotted Entry Line”, per linear foot.

## 14 **Section 9-03, Aggregates** 15 **August 1, 2016**

### 16 **9-03.1(1) General Requirements**

17 This first paragraph is supplemented with the following:

18  
19 Reclaimed aggregate may be used if it complies with the specifications for Portland  
20 Cement Concrete. Reclaimed aggregate is aggregate that has been recovered from plastic  
21 concrete by washing away the cementitious materials.

### 23 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**

24 This section is revised to read:

25  
26 Fine aggregate shall consist of natural sand or manufactured sand, or combinations  
27 thereof, accepted by the Engineer, having hard, strong, durable particles free from  
28 adherent coating. Fine aggregate shall be washed thoroughly to meet the specifications.

### 30 **9-03.1(2)A Deleterious Substances**

31 This section is revised to read:

32  
33 The amount of deleterious substances in the washed aggregate shall be tested in  
34 accordance with AASHTO M 6 and not exceed the following values:

35		
36	Material finer than No. 200 Sieve	2.5 percent by weight
37	Clay lumps and friable particles	3.0 percent by weight
38	Coal and lignite	0.25 percent by weight
39	Particles of specific gravity less than 2.00	1.0 percent by weight.

40  
41 Organic impurities shall be tested in accordance with AASHTO T 21 by the glass color  
42 standard procedure and results darker than organic plate no. 3 shall be rejected. A  
43 darker color results from AASHTO T 21 may be used provided that when tested for the  
44 effect of organic impurities on strength of mortar, the relative strength at 7 days,  
45 calculated in accordance with AASHTO T 71, is not less than 95 percent.

### 47 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**

48 This section is revised to read:

1 Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or  
2 combinations thereof having hard, strong, durable pieces free from adherent coatings.  
3 Coarse aggregate shall be washed to meet the specifications.  
4

### 5 **9-03.1(4)A Deleterious**

6 This section, including title, is revised to read:  
7

#### 8 **9-03.1(4)A Deleterious Substances**

9 The amount of deleterious substances in the washed aggregate shall be tested in  
10 accordance with AASHTO M 80 and not exceed the following values:

11		
12	Material finer than No. 200	1.0 <sup>1</sup> percent by weight
13	Clay lumps and Friable Particles	2.0 percent by weight
14	Shale	2.0 percent by weight
15	Wood waste	0.05 percent by weight
16	Coal and Lignite	0.5 percent by weight
17	Sum of Clay Lumps, Friable Particles, and	
18	Chert (Less Than 2.40 specific gravity SSD)	3.0 percent by weight
19		

20 <sup>1</sup>If the material finer than the No. 200 sieve is free of clay and shale, this percentage  
21 may be increased to 1.5.  
22

### 23 **9-03.1(4)C Grading**

24 The following new sentence is inserted at the beginning of the last paragraph:  
25

26 Where coarse aggregate size 467 is used, the aggregate may be furnished in at least two  
27 separate sizes.  
28

### 29 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

30 This section is revised to read:  
31

32 As an alternative to using the fine aggregate sieve grading requirements in Section 9-  
33 03.1(2)B, and coarse aggregate sieve grading requirements in Section 9-03.1(4)C, a  
34 combined aggregate gradation conforming to the requirements of Section 9-03.1(5)A may  
35 be used.  
36

### 37 **9-03.1(5)A Deleterious Substances**

38 This section is revised to read:  
39

40 The amount of deleterious substances in the washed aggregates  $\frac{3}{8}$  inch or larger shall not  
41 exceed the values specified in Section 9-03.1(4)A and for aggregates smaller than  $\frac{3}{8}$  inch  
42 they shall not exceed the values specified in Section 9-03.1(2)A.  
43

### 44 **9-03.1(5)B Grading**

45 The first paragraph is deleted.  
46

### 47 **9-03.8(7) HMA Tolerances and Adjustments**

48 In the table in item 1, the last column titled "Commercial Evaluation" is revised to read "Visual  
49 Evaluation".  
50

1 **9-03.11(1) Streambed Sediment**

2 The following three new sentences are inserted after the first sentence of the first paragraph:

3  
4 Alternate gradations may be used if proposed by the Contractor and accepted by the  
5 Engineer. The Contractor shall submit a Type 2 Working Drawing consisting of 0.45 power  
6 maximum density curve of the proposed gradation. The alternate gradation shall closely  
7 follow the maximum density line and have Nominal Aggregate Size of no less than 1½  
8 inches or no greater than 3 inches.  
9

10 **9-03.21(1)B Concrete Rubble**

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

12  
13 **9-03.21(1)B Recycled Concrete Aggregate**

14 Recycled concrete aggregates are coarse aggregates manufactured from hardened  
15 concrete mixtures. Recycled concrete aggregate may be used as coarse aggregate or  
16 blended with coarse aggregate for Commercial Concrete. Recycled concrete aggregate  
17 shall meet all of the requirements for coarse aggregate contained in Section 9-03.1(4) or 9-  
18 03.1(5). In addition to the requirements of Section 9-03.1(4) or 9-03.1(5), recycled concrete  
19 shall:

- 20  
21 1. Contain an aggregated weight of less than 1 percent of adherent fines, vegetable  
22 matter, plastics, plaster, paper, gypsum board, metals, fabrics, wood, tile, glass,  
23 asphalt (bituminous) materials, brick, porcelain or other deleterious substance(s)  
24 not otherwise noted;  
25 2. Be free of harmful components such as chlorides and reactive materials unless  
26 mitigation measures are taken to prevent recurrence in the new concrete;  
27 3. Have an absorption of less than 10 percent when tested in accordance with  
28 AASHTO T 85.  
29

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

31  
32 Recycled concrete aggregate shall not be placed below the ordinary high water mark of any  
33 water of the State.  
34

35 **9-03.21(1)D Recycled Steel Furnace Slag**

36 This section title is revised to read:

37  
38 **Steel Furnace Slag**  
39

40 **9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled**  
41 **Material**

42 The following new row is inserted after the second row:  
43

44  
45

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

1 **Section 9-04, Joint and Crack Sealing Materials**  
2 **August 1, 2016**

3 This section is supplemented with the following two new subsections:  
4

5 **9-04.11 Butyl Rubber Sealant**

6 Butyl rubber sealant shall conform to ASTM C 990.  
7

8 **9-04.12 External Sealing Band**

9 External sealing band shall by Type III B conforming to ASTM C 877.  
10

11 **9-04.2(1) Hot Poured Joint Sealants**

12 This section's content is deleted and replaced with the following new subsections:  
13

14 **9-04.2(1)A Hot Poured Sealant**

15 Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in  
16 accordance with ASTM D5329.  
17

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

19 Hot poured sealant for cement concrete pavement shall meet the requirements of  
20 ASTM D6690 Type IV, except for the following:  
21

- 22 1. The Cone Penetration at 25°C shall be 130 maximum.
- 23
- 24 2. The extension for the Bond, non-immersed, shall be 100 percent.
- 25

26 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

27 Hot poured sealant for bituminous pavement shall meet the requirements of ASTM  
28 D6690 Type I or Type II.  
29

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

31 Sand slurry is mixture consisting of the following components measured by total weight:  
32

- 33 1. Twenty percent CSS-1 emulsified asphalt,
- 34
- 35 2. Two percent portland cement, and
- 36
- 37 3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B  
38 Class 2. Fine aggregate may be damp (no free water).  
39

40 **9-04.2(2) Poured Rubber Joint Sealer**

41 The last paragraph is deleted.  
42

43 **9-04.4(1) Rubber Gaskets for Aluminum or Steel Drain Pipe**

44 "AASHTO M198" is revised to read "ASTM C 990".  
45

46 **9-04.4(3) Gaskets for Aluminum or Steel Culvert or Storm Sewer Pipe**

47 In the last sentence, "AASHTO M198" is revised to read "ASTM C 990".  
48

1 **Section 9-07, Reinforcing Steel**  
2 **August 1, 2016**

3 **9-07.1(1)A Acceptance of Materials**

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

5  
6 Reinforcing steel rebar manufacturers shall comply with the National Transportation  
7 Product Evaluation Program (NTPEP) Work Plan for Reinforcing Steel (rebar)  
8 Manufacturers.

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

11  
12 Steel reinforcing bar manufacturers use either English or a Metric size designation while  
13 stamping rebar.

14  
15 **9-07.1(2) Bending**

16 The first two sentences of the first paragraph are deleted and replaced with the following two  
17 new sentences:

18  
19 Steel reinforcing bars shall be cut and bent cold to the shapes shown on the Plans.  
20 Fabrication tolerances shall be in accordance with ACI 315.

21  
22 **Section 9-10, Piling**  
23 **August 1, 2016**

24 **9-10.3 Cast-In-Place Concrete Piling**

25 This section is revised to read:

26  
27 Reinforcement for cast-in-place concrete piles shall conform to Section 9-07.2.

28  
29 **Section 9-35, Temporary Traffic Control Materials**  
30 **August 1, 2016**

31 **9-35.12 Transportable Attenuator**

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

33  
34 The transportable attenuator shall be mounted on, or attached to, a host vehicle that  
35 complies with the manufacturer's recommended weight range.

# **SPECIAL PROVISIONS**



**City of Kirkland**

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# **SPECIAL PROVISIONS**

*Supplement to*  
**2016**

**WSDOT Standard  
Specifications**



City of Kirkland

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## City of Kirkland Special Provisions

### INTRODUCTION

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 supersede any conflicting provisions of the Standard Specifications, and the foregoing Amendments to the Standard Specifications.

The accompanying Plans and these Specifications and any Addenda thereto, show and describe the location and type of work to be performed under the CDS 1547 / 2015 AGING INFRASTRUCTURE.

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 titles of headings of the Sections and subsections herein are intended for convenience or reference and shall not be considered as having any bearing on their interpretation.

Several types of Special Provisions are included in this contract and are differentiated as follows:

**General Special Provisions (GSPs)** are similar to Standard Specifications in that they typically apply to many projects and are used by agencies throughout the state. Denoted as: **(date)**

**Local Agency Approved GSPs** are modifications to the standard specifications prepared by the APWA Division 1 subcommittee, which is comprised of representatives of local agencies throughout the state. APWA GSPs replace what was formerly referred to as "Division 1-99 APWA Supplement" in previous editions of the Standard Specifications for Road, Bridge and Municipal Construction. Denoted as: **(date APWA GSP)**

**City of Kirkland GSPs** are commonly applicable to City of Kirkland projects. Denoted as: **(date COK GSP)**

**Project Specific Special Provisions** normally appear only in the contract for which they were developed. Denoted as: **(\*\*\*\*\*)**

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 Kirkland Public Works Department Pre-Approved Plans

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

## DIVISION 1 – GENERAL REQUIREMENTS

### DESCRIPTION OF WORK

This contract provides for the improvement of and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications. This project includes extension of 293 linear feet of 12-inch storm drain; pavement patch, abandoning existing drain pipes; and property restoration.

### 1-01 DEFINITIONS AND TERMS

*(January 4, 2016 APWA GSP)*

#### 1-01.3 Definitions

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

#### Dates

##### ***Bid Opening Date***

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

##### ***Award Date***

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

##### ***Contract Execution Date***

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

##### ***Notice to Proceed Date***

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

##### ***Substantial Completion Date***

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

##### ***Physical Completion Date***

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

##### ***Completion Date***

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

##### ***Final Acceptance Date***

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

Supplement this Section with the following:

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

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

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

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

**Additive**

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

**Alternate**

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

**Business Day**

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

**Contract Bond**

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

**Contract Documents**

See definition for “Contract”.

**Contract Time**

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

**Notice of Award**

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

**Notice to Proceed**

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

**Traffic**

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

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

### **1-02.1 Prequalification of Bidders**

Delete this section and replace it with the following:

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

#### **1-02.1 Qualifications of Bidder**

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

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

Add the following new section:

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

***(January 4, 2016 APWA GSP; requires pre-approval on FHWA funded projects, through WSDOT/Local Programs)***

In addition, the Contracting Agency has established Contracting Agency-specific and/or project-specific supplemental criteria, in accordance with RCW 39.04.350(2), for determining Bidder responsibility, including the basis for evaluation and the deadline for appealing a determination that a Bidder is not responsible. These criteria are contained in Section 1-02.14 Option C of these Special Provisions.

#### ***(1/1/2016 COK GSP)***

Bidders shall complete and sign the Statement of Bidder's Qualification contained in the Proposal. Said form must be submitted with the bid proposal.

After bids are opened, Contracting Agency may request that a bidder or all bidders provide supplemental information concerning responsibility in accordance with RCW 39.04.350(2). Such supplemental information shall be provided to Contracting Agency in writing within two (2) business days of the request. Whether bidder supplies this supplemental information within the time and manner specified or not, in addition to consideration of this additional information, Contracting Agency may also base its determination of responsibility on any available information related to the supplemental criteria.

If Contracting Agency determines that a bidder is not responsible, Contracting Agency will provide, in writing, the reasons for such determination at which point the contractor will be deemed disqualified in accordance with WSDOT Standard Specification 1-02.14(10) and the proposal rejected. The bidder may appeal the determination within two (2) business days after receipt of the determination by presenting additional information to Contracting Agency. Contracting Agency will consider the additional information before issuing its final decision. If Contracting Agency's final decision affirms that the bidder is not responsible, Contracting Agency will not execute a contract with any other bidder until two (2) business days after the bidder determined to be not responsible has received Contracting Agency's final determination. The failure or omission of a bidder to receive or examine any form, instrument, addendum or other document shall in no way relieve any bidder from obligations with respect to the bid or to the contract.

Any bidder may, within five (5) business days before the bid submittal deadline, request that Contracting Agency modify the supplemental criteria. Contracting Agency will evaluate the information submitted by the bidder and respond before the submittal deadline. If the evaluation

results in a change of the criteria, the Contracting Agency will issue an Addendum to the bidding documents identifying the new criteria.

Supplemental Criteria. Contracting Agency acknowledges that Change Orders (changes, extra work, requests for equitable adjustment and claims (defined as including demands for money or time in excess of the contract amount or contract time)) are ubiquitous on public works construction projects. The expeditious resolution of Change Orders is critical to the on budget and on time successful completion of a public works project. Thus, the City has established the following relevant supplemental bidder responsibility criteria applicable for the project:

1. Criterion. The bidder must demonstrate a record of successful and timely resolution of Change Orders including compliance with public contract Change Order resolution procedures (e.g. timely notice of event giving rise to the Change Order, timely submission of a statement of the cost and/or impact of the Change Order unless the bidder is able to show extenuating circumstances that explain bidder's failure to timely provide such information to the satisfaction of Contracting Agency.
2. Documentation. As evidence that the bidder meets the supplemental responsibility criteria, after bids are opened and within two (2) business days of the public notice of Contracting Agency's tabulation of bids, the lowest responsive bidder must submit the following documentation of public works projects completed within the previous three (3) years and include for each project the following:
  - a. The Owner and contact information for the Owner;
  - b. A listing of Change Orders and a signed statement from the bidder that the project timelines concerning resolution of Change Orders was complied with, and if not, provide a written explanation of what the bidder believes to be the extenuating circumstances excusing compliance with the Contract Change Order notice and claim provisions.

Contracting Agency may contact owners listed by the bidders to validate the information provided by a bidder.

## **1-02.2 Plans and Specifications**

***(June 27, 2011 APWA GSP)***

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed can be found in the Call for Bids (~~Advertisement~~ **Invitation** 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
Reduced plans (11" x 17")	<b>3</b>	Furnished automatically upon award.
Contract Provisions	<b>3</b>	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	<b>0</b>	Furnished only upon request.

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

#### **1-02.4 Examination of Plans, Specifications, and Site of Work**

##### **1-02.4(2) Subsurface Information**

**(March 8, 2013 APWA GSP)**

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

The Summary of Geotechnical Conditions and the boring logs, if and when included as an appendix to the Special Provisions, shall be considered as part of the Contract.

#### **1-02.5 Proposal Forms**

**(June 27, 2011 APWA GSP)**

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's 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. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

#### **1-02.6 Preparation of Proposal**

**(June 27, 2011 APWA GSP)**

Supplement the second paragraph with the following:

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

Delete the last paragraph, and replace it with the following:

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/M/WBE requirements are to be satisfied through such an agreement.

**1-02.7 Bid Deposit**

***(March 8, 2013 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.

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

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

***(1/1/2016 COK GSP)***

**1-02.8 Noncollusion Declaration and Lobbying Certification**

The following new paragraph is inserted at the end of Section 1-02.8:

**Conflict of Interest**

The bidder affirms that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. The Contractor further covenants that in the performance of this contract, no person having any conflicting interest shall be employed. Any interest on the part of the Contractor or its employees must be disclosed forthwith to the City of Kirkland. If this contract is within the scope of a Federal Housing and Community Development Block Grant program, the Contractor further covenants that no person who presently exercises any functions or responsibilities in connection with the block grant program has any personal financial interest, direct or indirect, in this contract.

### **1-02.9 Delivery of Proposal**

***(August 15, 2012 APWA GSP, Option A)***

Delete this section and replace it with the following:

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

If the project has FHWA funding and requires DBE Written Confirmation Documents or Good Faith Effort Documentation, then to be considered responsive, the Bidder shall submit with their Bid Proposal, written Confirmation Documentation from each DBE firm listed on the Bidder's completed DBE Utilization Certification, form 272-056A EF, as required by Section 1-02.6.

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

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

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

Delete this section, and replace it with the following:

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

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

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

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

### **1-02.12 Public Opening of Proposals**

***(May 4, 2012 APWA GSP)***

Delete this section and replace it with the following:

Proposals will be opened and publicly read at the time indicated in the Call for Bids, after the deadline(s) for submitting all elements of the Bid Proposal including DBE Written Confirmation Documents and/or Good Faith Effort Documentation, unless the Bid opening has been

delayed or canceled. Bidders, their authorized agents, and other interested parties are invited to be present.

### **1-02.13 Irregular Proposals**

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

Delete this section and replace it with the following:

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 Business Enterprise Certification, if applicable, as required in Section 1-02.6;
  - i. The Bidder fails to submit written confirmation from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidders DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
  - j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
  - k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
  - l. More than one proposal is submitted for the same project from a Bidder under the same or different names.
  
2. A Proposal may be considered irregular and may be rejected if:
  - a. The Proposal does not include a unit price for every Bid item;
  - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
  - c. Receipt of Addenda is not acknowledged;
  - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
  - e. If Proposal form entries are not made in ink

### **1-02.14 Disqualification of Bidders**

***(March 8, 2013 APWA GSP, Option A; may be used on FHWA-funded projects)***

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended.

As evidence that the Bidder meets the mandatory bidder responsibility criteria, 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 responsibility 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 Contracting Agency also reserves the right to obtain information from third parties concerning a Bidder's compliance with the mandatory bidder responsibility criteria.

If the Contracting Agency determines the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1) 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 two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information 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 Contracting Agency's final determination.

#### **1-02.15 Pre Award Information**

##### ***(August 14, 2013 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. 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**

##### **1-03.1 Consideration of Bids**

##### ***(January 23, 2006 APWA GSP)***

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum

price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

### **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) calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, 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 10 calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of \*\*10\*\* additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

#### ***(1/1/2016 COK GSP)***

### **1-03.4 Contract Bond**

Revise the first paragraph to read:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. Separate payment and performance bonds are required and each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
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, and
  - c. Have an A.M. best rating of A:VII or better.
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to

indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:

- a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
- 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;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
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(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

**(1/1/2016 COK GSP)**

In accordance with RCW 39.08.010, on contracts of twenty-five thousand dollars (\$25,000) or less, at the option of the Contractor the Owner may, in lieu of the bond, retain fifty percent (50%) of the contract amount for a period of thirty (30) days after date of final acceptance, or until receipt of all necessary releases from the Department of Revenue and the Department of Labor and Industries and settlement of any liens filed under Chapter 60.28 RCW, whichever is later.

**1-03.4(1)      *Retainage in Lieu of Contract Bond***

Add the following new section:

**1-03.4(1) *Retainage in Lieu of Contract Bond***

***New Section***

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

For contracts of \$35,000 or less, the Contractor may, at the Contractor's option, authorize the Contracting Agency to retain fifty percent (50%) of the contract amount in lieu of furnishing a performance and/or payment bond. If the Contractor elects this option, the retainage shall be held for a period of thirty (30) days after the date of final acceptance, or until receipt of all necessary releases from the Departments of Revenue and of Labor and Industries and settlement of any liens filed under RCW 60.28, whichever is later. The Contractor must advise the Contracting Agency in writing of the Contractor's election to authorize retainage in lieu of a bond, at the time of execution of the Contract.

In choosing this option, the Contractor agrees that if the Contractor, 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 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 the Contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material suppliers, 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 her part, and shall indemnify

and save harmless the Contracting Agency, its officers and agents from any claim for such payment, then the funds retained in lieu of a performance bond shall be released at the time provided above; otherwise, the funds shall be retained until the Contractor fulfills the said obligations.

#### **1-03.7 Judicial Review**

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

Revise this section to read:

Any decision made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.

#### **1-04 SCOPE OF THE WORK**

***(1/1/2016 COK GSP)***

##### **1-04.1 Intent of the Contract**

Section 1-04.1 is supplemented with the following:

All materials, tools, labor, and guarantees thereof of required to complete the work shall be furnished and supplied in accordance with the Plans, these Special Provisions, the Standard Specifications, and City of Kirkland Pre-Approved (Standard) Plans. The Contractor shall include all costs of doing this work within the contract bid item prices.

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

***(March 13, 2012 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,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency's Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

##### **1-04.6 Variation in Estimated Quantities**

***(July 23, 2015 APWA GSP, Option B; may not be used on FHWA-funded projects)***

Revise the first paragraph to read:

Payment to the Contractor will be made only for the actual quantities of Work performed and accepted in conformance with the Contract. When the 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 unless the total accepted quantity of any Contract item, adjusted to exclude added or deleted amounts included in change orders accepted by both parties, increases or decreases by more than 25 percent from the original Proposal quantity, and if the total extended bid price for that item at time of award is equal to or greater than 10 percent of the total contract price at time of award. In that case, payment for contract work may be adjusted as described herein:

**(1/1/2016 COK GSP)**

**1-04.11 Final Cleanup**

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

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

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

The Contractor shall:

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

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

**1-05 CONTROL OF WORK**

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

Add the following new sub-section:

**(1/1/2016 COK GSP)**

**1-05.4(1) Roadway and Utility Surveys**

**New Section**

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the improvements under this contract. Except for the survey control data furnished by the Owner, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

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

To facilitate the establishment of lines and elevations, the Owner will provide the Contractor with primary survey control information consisting of descriptions of two primary control points used for the horizontal and vertical control. Primary control points will be described and shown on the right-of-way Plans. The Contractor shall check all control points for horizontal and vertical locations prior to use and report any discrepancy to the Engineer. Errors resulting from using control points which have not been verified, shall be the Contractors responsibility.

At a minimum the Contractor shall provide following survey staking shall be required:

1. Construction centerline or an offset to construction centerline shall be staked at all angle points and 100-foot intervals on tangents.
2. Offset stakes of JUT Centerline at all angle points and at 50-foot intervals on tangents
  - a. Cut/fill shall reference the elevations of the lowest conduit.
  - b. Offset shall reference the location of the center of trench and list the width of the trench section.
3. Offset stakes of all structure control/location points shown on the undergrounding Plans.
  - a. Each vault, handhold, and junction box shall have a sets of off-set points provided each location point shown in the location tables Cut/Fill shall reference elevations of the finish grade of the top lid of the structure.
  - b. Each pole riser and stub up, shall have at least one set of off-set hubs provided with cut/fills to finish ground elevations.
  - c. Finish grade elevations of all structures shall be determined by the Contractor based on the typical sections and details provide on the Contract Drawings.
4. Offset stakes at face or walls.
5. Offset staking of all drainage structures and drainage pipes at 50-foot intervals.
6. Location of all right-of-way and easements adjacent to the work area as shown on the right-of-way Plans.
7. Offset of all permanent concrete sidewalks, curb ramps, and driveways.

Each stake shall have the following information: Hub elevation, offset distance to items being staked, cut/fill to proposed elevations, design elevation of items being staked.

The above information shall also be shown on a written Cut Sheet and provided to the City inspector 48-hours prior to installation of the items being staked.

The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

Stationing	+ .01 foot
Alignment	+ .01 foot (between successive points)
Superstructure Elevations	+ .01 foot (from plan elevations)
Substructure Elevations	+ .05 foot (from plan elevations)
Sidewalk and Curb Ramp Elevations	+ .01 foot (from plan elevations)

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

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

**(1/1/2016 COK GSP)**

**Measurement**

No unit of measurement shall apply to the lump sum price for construction surveying.

**Payment**

Payment will be made in accordance with Section 1-04.1 of these Specifications for the following bid item:

“Construction Surveying”, per lump sum.

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

**1-05.7 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.

**(1/1/2016 COK GSP)**

**1-05.9 Equipment**

The following new paragraph is inserted between the second and third paragraphs:

Use of equipment with metal tracks will not be permitted on concrete or asphalt surfaces unless otherwise authorized by the Engineer.

**(1/1/2016 COK GSP)**

**1-05.10 Guarantees**

Section 1-05.10 is supplemented as follows:

Guarantees and maintenance bonds shall be in accordance with City of Kirkland, State of Washington, Public Works Performance and Payment Bond forms and requirements. The performance bond shall be in the full amount of contract. The Contractor guarantees all items of material, equipment, and workmanship against mechanical, structural, or other defects for which the Contractor is responsible that may develop or become evident within a period of one year from and after acceptance of the work by the Owner. This guarantee shall be understood to require prompt remedy of defects upon written notification to the Contractor. If the Owner determines the defect requires immediate repair, the Owner may, without further notice to the Contractor, make the necessary corrections, the cost of which shall be borne by the Contractor. To support the above guarantee, the Contractor's performance bond shall remain in full force and effect for one year following the acceptance of the project by the Owner.

**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 therefor.

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

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

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

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

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

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

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall not imply

acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

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

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

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

Delete the sixth and seventh paragraph of this section.

**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.

**1-05.16 Water and Power**

Add the following new section:

**1-05.16 Water and Power**

**New Section**

***(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.

**1-05.17 Oral Agreements**

***(\*\*\*\*\*)***

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**

***(1/1/2016 COK GSP)***

**1-06.1 Approval of Materials Prior to Use**

Section 1-06.1 is supplemented as follows:

Approval of a Material source shall not mean acceptance of the Material. The Material shall meet the requirements of the Contract.

**1-06.1(4) Fabrication Inspection Expense**

***(June 27, 2011 AWPA GSP)***

Delete this section in its entirety.

**1-06.6 RECYCLED MATERIALS**

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

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Table 9-03.21(1)E in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

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

***(1/1/2016 COK GSP)***

**1-07.1 Laws to Be Observed**

Section 1-07.1 is supplemented with the following:

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

The Contractor shall make an effort to reduce carbon emissions by turning off engines on construction equipment not in active use, and on trucks that are idling while waiting to load or unload material for five minutes or more.

#### Compliance with Laws

The Contractor shall comply with the requirements of all other City ordinances, state statutes, laws, and regulations, whether or not stated herein, which are specifically applicable to the public improvements and work to be performed.

#### **(October 1, 2005 APWA GSP)**

Supplement this section 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.

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

#### **(1/1/2016 COK GSP)**

##### Contractor's Safety Responsibilities

These construction documents and the joint and several phases of construction hereby contemplated are to be governed at all times by applicable provisions of the federal law(s), including but not limited to the latest amendments of the following:

Williams-Steiger Occupational Safety and Health Act of 1980, Public Law 91-596.

Part 1910 - Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations.

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

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

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

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

#### **1-07.2 State Taxes**

***(June 27, 2011 APWA GSP)***

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

##### **1-07.2 State Sales Tax**

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

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(2) describes this exception.

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

##### **1-07.2(1) 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(2) 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(3) 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).

**1-07.9 Wages**

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

(\*\*\*\*\*)

Supplement this section with the following:

The Contractor or subcontractor directly contracting for “Off-Site, Prefabricated, Non-Standard, Project Specific Items” as defined below shall identify and report information required on the addendum to the “Affidavit of Wages Paid” form filed with the Department of Labor and Industries [form F700-164-000]. The Contractor shall include language in its subcontracts requiring subcontractors and lower-tier subcontractors to comply with the reporting requirements for “Off-Site, Prefabricated, Non-Standard, Project Specific Item” on the Affidavit of Wages Paid form addendum.

The reporting requirement for Items shall apply for all public works contracts estimated to cost over \$1 million entered into by the Contracting Agency and Contractor between September 1, 2010 through December 31, 2013.

“Off-site, prefabricated, nonstandard, project specific items” means products or items that are:

1. Made primarily of architectural or structural precast concrete, fabricated steel, pipe and pipe systems, or sheet metal and sheet metal duct work; and
2. Produced specifically for this Project and not considered to be regularly available shelf items; and
3. Produced or manufactured by labor expended to assemble or modify standard items; and
4. Produced at an off-site location outside the State of Washington.

The Contractor or subcontractor shall comply with the reporting requirements and instructions on the Affidavit of Wages Paid form, and shall report the following information on the Affidavit of Wages Paid form submitted to the Department of Labor and Industries in order to comply with the reporting requirements for use of “Off-Site, Prefabricated, Non-Standard, Project Specific” items:

1. The estimated cost of the project;
2. The name of the Contracting Agency and the project title;
3. The contract value of the off-site, prefabricated, nonstandard, project specific items produced outside of Washington State, including labor and materials; and
4. The name, address, and federal employer identification number of the contractor that produced the off-site, prefabricated, nonstandard, project specific items.

The Contracting Agency may direct the Contractor, at no additional cost to the Contracting Agency, to remove and substitute any subcontractor(s) found to be out of compliance with the “Off-Site Prefabricated Non-Standard Project Specific Items” reporting requirements more than one time as determined by the Department of Labor and Industries.

**(1/1/2016 COK GSP)**

**1-07.14 Responsibility for Damage**

Section 1-07.14 is supplemented with the following:

The Contractor further agrees that it is waiving immunity under Industrial Insurance Law Title 51 RCW for any claims brought against the City by its employees. In the event Contractor fails, after receipt of timely notice from the City, to appear, defend, or pay as required by the first paragraph of this section, then in that event and in that event only, the City may in its sole discretion, deduct from the progress payments to the Contractor and pay any amount sufficient to pay any claim, of which the City may have knowledge and regardless of the informalities of notice of such claim, arising out of the performance of this contract, provided the City has theretofore given notice of receipt of such claim to the Contractor and the Contractor has failed to act thereon.

**1-07.15 Temporary Water Pollution/Erosion Control**

**(1/1/2016 COK GSP)**

**1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

**SPCC Plan Element Requirements** is supplemented with the following:

2. City of Kirkland spill response hotline (425) 587-3900 shall be listed as the first point of contact.

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

**(1/1/2016 COK GSP)**

**1-07.16(3) Fences, Mailboxes, Incidentals**

Section 1-07.16(3) is supplemented with the following:

**U.S. Postal Service Collection Boxes, Mail Receptacles, and other Structures:** U.S. Postal Service collection box and other Structures requiring temporary relocation to accommodate construction, the Contractor shall contact the Kirkland Postmaster at least 5 Working Days in advance for coordination. Only the U.S. Post Office will move Postal Service-owned property.

**(1/1/2016 COK GSP)**

**1-07.17 Utilities and Similar Facilities**

Section 1-07.17 is supplemented with the following:

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

The Contractor is alerted to the existence of Chapter 19.122 RCW, a law relating to underground utilities. Any cost to the Contractor incurred as a result of this law shall be at the Contractor's expense.

No excavation shall begin until all known facilities in the vicinity of the excavation area have been located and marked.

The Contractor shall give advance notice to all utility companies involved where work is to take place and in all other respects comply with the provisions of Chapter 19.122 RCW. Notice shall include, but not be limited to, the following utility companies:

1. Water, sewer, storm, streets – minimum two working days in advance
2. Power (Electric and Natural Gas) – minimum 48 hours in advance
3. Telephone – minimum 30 days in advance
4. Natural Gas – minimum 48 hours in advance
5. Cable Television – minimum 48 hours in advance
6. Transit – minimum 21 days in advance

The following is a list of some utilities serving the Kirkland area. This is not intended or represented to be a complete list and is provided for the Contractor's convenience.

Utility	Agency/Company	Address	Contact	Phone
Storm Drainage	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Bobbi Wallace	(425) 587-3900
Water / Sewer (North area of Kirkland)	Northshore Utility District	6380 NE 185th Street Kenmore, WA 98028	George Matote	(425) 398-4400
Street	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Bobbi Wallace	(425) 587-3900
Natural Gas / Electric	Puget Sound Energy	P.O. Box 97034 EST-11W Bellevue, WA 98009-9734	Jeanne Coleman  Sharon Seitz	(425) 449-7410  (206) 643-1908
Telephone/ FIOS	Frontier Communications		Jay Schwab	(425) 263-4019
Cable Television	Comcast	1525 - 75th St SW, Suite 200 Everett, WA 98203	Raymond Pilkenton	(425) 263-5332
School District Transportation	Lake Washington School District	15212 NE 95th Street Redmond, WA 98052	Jeff Miles	(425) 936-1120
Transit	King County METRO	MS SVQ-TR-0100 1270 6th Avenue S Seattle, WA 98134	METRO Construction Information Center	(206) 477-1140 (206) 477-0438

Note that most utility companies may be contacted for locations through the "One Call" system, 1-800-424-5555. In the event of a gas emergency, call 911 and then the PSE hotline at 1-888-225-5773 (1-888-CALL-PSE).

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

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

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

## Other Notifications

Service Area Turn Off: All service area turn off notices must be distributed to affected parties two working days in advance of any scheduled shut off. City to provide door hangers and affected service area map. The contractor shall fill in all required information prior to hanging door hanger.

Entry onto Private Property: Each property owner shall be given two working days advance Written Notice prior to entry by the Contractor.

Loop Detection Systems: Where an excavation is to take place through a signal loop detector system, the Contractor shall provide at least five (5) Working Days advance notice to the City Signal Shop at (425) 587-3920 to coordinate temporary signal wire disconnect and installation of temporary signal detection equipment.

Survey Monuments: When proposed pavement removal is close to existing survey monumentation, or proposed pavement removal includes existing survey monumentation, the Contractor shall provide a minimum 4 Working Days advance notice to the Engineer to allow survey crews to tie the monument out and reset the monument after pavement installation.

This section is also supplemented with the following:

“Potholing”, by force account as provided in Section 1-09.6.

This work shall include exposing the side sewer pipes and water services along the gutter line to identify potential conflicts with the new storm sewer pipe. The time and labor, and materials for this work will be paid by force account in accordance with Section 1-09.6. After completion of field marking of existing utilities, the Contractor shall notify the Project Representative of any new conflicts with the planned improvements. Upon receipt of the information, the Project Representative will determine if a conflict exists and design any modifications necessary to resolve the conflicts.

### **(1/1/2016 COK GSP)**

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

Section 1-07.17(2) is supplemented with the following:

Under no circumstances will discrepancies in location or incompleteness in description of existing utilities or improvements, whether they are visible from the surface, buried, or otherwise obscured, be considered as a basis for additional compensation to the Contractor.

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

##### **(January 4, 2016 APWA GSP)**

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

#### **1-07.18 Insurance**

##### **1-07.18(1) General Requirements**

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The

Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.

- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately 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.
- H. 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 Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- 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, 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(4) describes limits lower than those maintained by the Contractor.

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

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

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

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

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

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

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

Verification of coverage shall include:

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.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

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

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

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

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

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

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

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

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

Such policy must provide the following minimum limits:

\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offence
\$1,000,000	Stop Gap / Employers' Liability each accident

**1-07.18(5)B Automobile Liability**

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

Such policy must provide the following minimum limit:

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

### **1-07.23 Public Convenience and Safety**

Section 1-07.23 is supplemented with the following:

#### **(1/1/2016 COK GSP)**

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

The Kirkland Police Department and Kirkland Fire Department shall be notified at least four (4) hours in advance of any actions by the Contractor that may affect the functions of either the Police Department or Fire Department.

The Contractor shall conduct its work and take preventative measures so that dust or other particulate matter in the project area shall not become objectionable to the adjacent property owners or general public. Should the Owner determine the Contractor is not fulfilling its obligation in this regard; the Owner reserves the right to take such action as may be necessary to remedy the objectionable condition and to charge the Contractor with any cost that may be incurred in such remedial action. All work shall be carried on with due regard for the safety of the public. No driveway, whether public, commercial, or private, may be closed without prior approval of the Owner, project supervisor, or Engineer unless written authority has been given by the affected property owner. The Contractor shall be responsible for notifying the affected property owners 24 hours in advance of scheduled interruptions to access.

#### **1-07.23(1) Construction under Traffic**

(\*\*\*\*\*)

Revise the second paragraph to read:

To disrupt public traffic as little as possible, the Contractor shall permit traffic to pass through the work with the least possible inconvenience or delay. The Contractor shall maintain existing roads, streets, sidewalks, and paths within the project limits, keeping them open, and in good, clean, safe condition at all times. Deficiencies caused by the Contractor's operations shall be repaired at the Contractor's expense. Deficiencies not caused by the Contractor's operations shall be repaired by the Contractor when directed by the Engineer, at the Contracting Agency's expense. The Contractor shall also maintain roads, streets, sidewalks, and paths adjacent to the project limits when affected by the Contractor's operations. Snow and ice control will be performed by the Contracting Agency on all projects. Cleanup of snow and ice control debris will be at the Contracting Agency's expense. The Contractor shall perform the following:

1. Remove or repair any condition resulting from the work that might impede traffic or create a hazard.
2. Keep existing traffic signal and highway lighting systems in operation as the work proceeds. (The Contracting Agency will continue the route maintenance on such system.)
3. Maintain the striping on the roadway at the Contracting Agency's expense. The Contractor shall be responsible for scheduling when to renew striping, subject to the

approval of the Engineer. When the scope of the project does not require work on the roadway, the Contracting Agency will be responsible for maintaining the striping.

4. Maintain existing permanent signing. Repair of signs will be at the Contracting Agency's expense, except those damaged due to the Contractor's operations.
5. Keep drainage structures clean to allow for free flow of water. Cleaning of existing drainage structures will be at the Contracting Agency's expense when approved by the Engineer, except when flow is impaired due to the Contractor's operations.

**(1/1/2016 COK GSP)**

**Pedestrian Control and Protection**

When the work area encroaches upon a sidewalk, walkway or crosswalk area, special consideration must be given to pedestrian safety. Maximum effort must be made to separate pedestrians from the work area. Protective barricades, fencing, and bridges, together with warning and guidance devices and signs, shall be utilized so that the passageway for pedestrians is safe and well defined. Whenever pedestrian walkways are provided across excavations, they shall be provided with suitable handrails. Footbridges shall be safe, strong, free of bounce and sway, have a slip resistant coating, and be free of cracks, holes, and irregularities that could cause tripping. Ramps shall be provided at the entrance and exit of all raised footbridges, again to prevent tripping. Adequate illumination and reflectorization shall be provided during hours of darkness. All walkways shall be maintained with at least 4 feet clear width.

Where walks are closed by construction, an alternate walkway shall be provided, preferably on the same side of the road in which the sidewalk currently exists.

Where it is necessary to divert pedestrians into the roadway, barricading or channeling devices shall be provided to separate the pedestrian walkway from the adjacent vehicular traffic lane. At no time shall pedestrians be diverted into a portion of a street used concurrently by moving vehicular traffic.

At locations where adjacent alternate walkways cannot be provided, appropriate signs shall be posted at the limits of construction and in advance of the closure at the nearest crosswalk or intersection to divert pedestrians across the street.

Physical barricades shall be installed to prevent visually impaired people from inadvertently entering a closed area. Pedestrian walkways shall be wheelchair accessible at all times. Pedestrian access shall be maintained to all properties adjacent to the construction site.

**1-07.23(2) Construction and Maintenance of Detours**

**(\*\*\*\*\*)**

Revise the first paragraph to read:

Unless otherwise approved, the Contractor shall maintain two-way traffic during construction. The Contractor shall build, maintain in a safe condition, keep open to traffic, and remove when no longer needed:

1. Detours and detour bridges that will accommodate traffic diverted from the roadway, bridge, sidewalk, or path during construction,
2. Detour crossings of intersecting highway, and
3. Temporary approaches.

## **1-07.24 Rights of Way**

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

Delete this section and replace it with the following:

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

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

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

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 hour 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.

***(1/1/2016 COK GSP)***

The Contractor shall file with the Engineer signed property release forms (in the format as detailed below) for all properties disturbed or damaged by the Contractor's operations.

**PROPERTY RELEASE**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*(Contractor's name and address)*

DATE: \_\_\_\_\_

I, \_\_\_\_\_ owner of \_\_\_\_\_, hereby release \_\_\_\_\_, *(Contractor's name)*

from any property damage or personal injury resulting from construction on or adjacent to my property located at \_\_\_\_\_ during construction of the \_\_\_\_\_. My signature below is my acknowledgment and acceptance that my property, as identified above, was returned to a satisfactory condition.

Signed: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_

**1-08 PROSECUTION AND PROGRESS**

Add the following new section:

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

**New Section**

Add the following new section:

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

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;
7. To establish a working understanding among the various parties associated or affected by the work;
8. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
9. To establish normal working hours for the work;
10. To review safety standards and traffic control; and
11. 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:

**(1/1/2016 COK GSP)**  
**1-08.0(2) Hours of Work**

***New Section***

Except in the event of an emergency, no work shall be done between the hours of 6:00 p.m. and 7:00 a.m., or weekends (except driveway construction), or holidays observed by the City of Kirkland and identified in Section 1-08.5 of the Standard Specifications. If the proper and efficient prosecution of the work requires operations during the night, hours of operation more than 8 hours per day, or work weeks greater than 40 hours in duration, the written permission of the Owner shall be obtained before starting such items of the work and shall be in full compliance with terms therewith.

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 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.

Add the following new section:

(\*\*\*\*\*)

**1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employees**

**New Section**

Where the Contractor elects to work on a Saturday, Sunday, or holiday, or longer than an 8-hour work shift on a regular working day, as defined in the Standard Specifications, such work shall be considered as overtime work. On all such overtime work an inspector will be present, and a survey crew may be required at the discretion of the Engineer. In such case, the Contracting Agency may deduct from amounts due or to become due to the Contractor for the costs in excess of the straight-time costs for employees of the Contracting Agency required to work overtime hours.

The Contractor by these specifications does hereby authorize the Engineer to deduct such costs from the amount due or to become due to the Contractor.

**1-08.1 Subcontracting**

**(1/1/2016 COK GSP)**

Section 1-08.1 is supplemented with the following:

A Subcontractor or an Agent to the Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (form 421-012).
2. Statement of Intent to Pay Prevailing Wages (Form 700-029-000).

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Department during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all Subcontractors and Agents shall be open to similar inspection or audit for the same period.

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

Delete the eighth paragraph and replace it with the following:

On all projects funded with federal assistance the Contractor shall submit "Quarterly Report of Amounts Credited as DBE Participation" (form 422-102 EF) on a quarterly basis, in which DBE Work is accomplished, for every quarter in which the Contract is active or upon completion of the project, as appropriate. The quarterly reports are due on the 20th of April, July, October, and January for the four respective quarters.

**(1/1/2016 COK GSP)**

**1-08.3 Progress Schedule**

The order of work will be at the Contractor's option, in keeping with good construction practice and the terms of the contract. All work shall be carried out in accordance with the requirements of the City of Kirkland in compliance with the plans and specifications. However, the Contractor shall so schedule the work within the time constraints noted in the various contract documents,

including any permits. The Contractor is cautioned to review said documents and permits and schedule the work appropriately as no additional compensation will be made to the Contractor due to the time constraints imposed by such documents.

**1-08.3(2) Progress Schedule Types**

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

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

Revise this section to read:

The Contractor shall submit **5** copies of a Type A Progress Schedule no later than at the preconstruction conference, or some other mutually agreed upon submittal time. The schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless of which format used, the schedule shall identify the critical path. The Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar days of receiving the submittal.

**1-08.4 Prosecution of Work**

Delete this section in its entirety, 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**

**(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 Report 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

**(1/1/2016 COK GSP)**

Section 1-08.5 is supplemented with the following:

This project shall be physically completed in its entirety within **25** working days.

**1-08.7 Maintenance during Suspension**

**(\*\*\*\*\*)**

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.

**(1/1/2016 COK GSP)**

**1-08.9 Liquidated Damages**

The third paragraph of Section 1-08.9 is revised to read as follows:

Accordingly, the Contractor agrees:

1. To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for Physical Completion, and
2. To authorize the Engineer to deduct these liquidated damages from any money due or coming to the Contractor.

**LIQUIDATED DAMAGES FORMULA**

For  $C > \$50,000 \rightarrow LD = 0.15 \times C \div T$ , and

For  $C \leq \$50,000 \rightarrow LD = 0.30 \times C \div T$ .

Where:

LD = liquidated damages per working day (rounded to the nearest dollar)

C = original Contract amount

T = original time for Physical Completion

**1-09 MEASUREMENT AND PAYMENT**

**1-09.2 Weighing Equipment**

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

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

Revise item 4 of the fifth paragraph to read:

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

**(1/1/2016 COK GSP)**

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

The last paragraph of Section 1-09.2 is supplemented with the following:

Trucks and Tickets

All tickets shall, at a minimum, contain the following information:

- Ticket serial number
- Date and hour of weighing

- Weigher's identification

Duplicate tally tickets shall be prepared to accompany each truckload of materials delivered to the project.

It is the responsibility of the Contractor to see that tickets are given to the Inspector on the project for each truckload of material delivered. Pay quantities will be prepared on the basis of said tally tickets, delivered to the Inspector at time of delivery of materials. Tickets not collected at the time of delivery will not be honored for payment.

#### **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**

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

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

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

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

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 payments. 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 — based on the approved Contractor’s lump sum breakdown for that item, or absent such a breakdown, based on the Engineer’s determination.
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.

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

1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
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.

**(1/1/2016 COK GSP)**

Unless otherwise agreed to by both parties, the work period shall coincide with the calendar month. A check will be mailed or made available to the Contractor no later than thirty (30) days following the last day of the work period.

**1-09.13 Claims Resolution**

**(1/1/2016 COK GSP)**

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

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, **provided Contracting Agency agreed to engage such ADR processes**, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

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

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

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency’s headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

**1-10            TEMPORARY TRAFFIC CONTROL**

**1-10.1        General**

**1-10.1(2)    *Description***

**(\*\*\*\*\*)**

Revise the third paragraph to read:

The Contractor shall provide signs and other traffic control devices not otherwise specified as being furnished by the Contracting Agency. The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor's operations which may occur on highways, roads, streets, sidewalks, or paths. No work shall be done on or adjacent to any traveled way until all necessary signs and traffic control devices are in place.

**END OF DIVISION 1**

## **DIVISION 2 – EARTHWORK**

### **2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP**

#### **2-01.1 Description**

Section 2-01.1 is supplemented with the following:

***(March 13, 1995)***

Clearing and grubbing on this project shall be performed within the following limits:

An area 14 feet by 19 feet at the location of the sinkhole as shown on the Plans.

#### **2-01.5 Payment**

The first and second paragraphs of Section 2-01.5 are revised to read:

***(\*\*\*\*\*)***

All costs for clearing and grubbing on this project shall be incidental to the Contract.

### **2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

#### **2-02.1 Description**

Section 2-02.1 is supplemented with the following:

***(\*\*\*\*\*)***

This work shall consist of removing and disposing of, or salvaging and storing items as shown on the Plans and listed in the Special Provisions. This work also includes capping and abandonment of existing storm sewer pipes as shown on the Plans. Abandoning pipes shall include filling the pipes with CDF.

#### **2-02.3 Construction Requirements**

Section 2-02.3 shall be supplemented with the following:

***(\*\*\*\*\*)***

##### **Removing and Salvaging Wood Board Fence**

Fence shall be removed, salvaged, and stored on site for relocation in accordance with the Plans.

##### **Removing and Salvaging Chain Link Fence**

Fence shall be removed, salvaged, and stored on site for replacement in accordance with the Plans.

##### **Cap and Abandon Storm Sewer Pipe**

Existing storm sewer pipes shall be abandoned where shown on the plans. The ends of the pipes shall be sealed with concrete and the line shall be filled with CDF per the detail shown on sheet AL1.

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

Section 2-02.3(3) shall be supplemented with the following:

(\*\*\*\*\*)

The thickness of existing pavement throughout the project is unknown. Pavement type may vary throughout the project. Removal shall be accomplished by making a neat longitudinal vertical full depth cut along the boundaries of the area to be removed. All cuts shall be continuous, and shall be made with saws specifically equipped for this purpose. No skip cutting will be allowed.

Wheel cutting or jack hammering will not be considered an acceptable means of pavement removal.

### **2-02.4            Measurement**

Section 2-02.4 shall be supplemented with the following:

(\*\*\*\*\*)

No separate measurement will be made for removing existing catch basin, removing cement concrete curb and gutter, or asphalt concrete pavement. These items will be included in the bid item structure excavation Class B including haul. Only the removal of sidewalk will be measured. No separate measurement will be made for sawcutting.

No separate measurement will be made for the bid item "Cap and Abandon Storm Sewer Pipe".

Separate measurements will be made for the following items:

Sidewalk removal will be measured by the square yard.

Removing and salvaging wood board fence will be measured by the linear foot of complete removal and salvage of the fence. Removal limits shall be marked and measured prior to removal.

Removing and salvaging chain link fence will be measured per linear foot of complete removal and salvage of the fence. Removal limits shall be marked and measured prior to removal.

### **2-02.5            Payment**

Section 2-02.5 shall be supplemented with the following:

(\*\*\*\*\*)

"Removing Cement Conc. Sidewalk", per square yard.

"Removing and Salvaging Chain Link Fence", per linear foot.

"Removing and Salvaging Wood Fence", per linear foot.

"Cap and Abandon Storm Sewer Pipe", lump sum

The unit price per square yard for "Removing Cement Conc. Sidewalk" shall be full pay for all labor, equipment, and materials necessary to perform the work. This bid item shall include sawcutting for removal of pavements.

The lump sum price for “Cap and Abandon Storm Sewer Pipe” shall be full pay for all labor, equipment, and materials necessary to fill the existing pipes with CDF and cap the ends with concrete.

**END OF DIVISION 2**

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**DIVISION 8 – MISCELLANEOUS CONSTRUCTION**

**8-01 EROSION CONTROL AND WATER POLLUTION CONTROL**

**8-01.1 Description**

Section 8-01.1 is supplemented with the following:

(\*\*\*\*\*)

This work consists of seeding and fertilizing by hand in the disturbed area once the sink hole has been filled. This work also includes a temporary stormwater bypass as shown on the Plans.

**8-01.3 Construction Requirements**

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

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

Section 8-01.3(1)C4 is supplemented with the following:

(\*\*\*\*\*)

**Stormwater Bypass**

This work shall include construction of a temporary stormwater bypass pipes around the work zones during the connection of the new storm pipe to the existing catch basin.

Work including furnishing, placing, maintaining, and removing sandbag dams, temporary pipes, pumps, and flow spreaders or plastic sheeting. Discharge of the bypass water shall not cause erosion downstream of the outlet.

Temporary bypass materials shall be removed in a manner that minimizes the transport of sediments and disturbance of adjacent areas. All materials used for the temporary bypasses shall become the property of the Contractor and be removed from the project limits upon completion of the project.

**8-1.3(2) Seeding, Fertilizing and Mulching**

**8-01.3(2)B Seeding and Fertilizing**

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

**(NWR January 17, 2006)**

**Erosion Control Seed**

Seed of the following composition, proportion, and quality shall be applied at a rate of 80 pounds per acre on areas requiring seeding, fertilizing and mulching:

<u>Kind and Variety of Seed in Mixture</u>	<u>% By Weight</u>	<u>% Pure Seed</u>	<u>Minimum % Germination</u>
Colonial Bentgrass (Agrostis tenuis)	10	9.80 (min)	85
Red Fescue (Festuca rubra)	45	39.20 (min)	80
Perennial Rye (Lolium perenne)	45	39.20 (min)	90
Weed Seed	0.50 (max)		
Inert and Other Crop	1.50 (max)		
TOTAL	100.00		

**(January 3, 2006 Option 3)**

Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied at the rate of 10 pounds per 1000 square feet.

**8-01.4 Measurement**

Section 8-01.4 shall be supplemented with the following:

(\*\*\*\*\*)

No separate measurement will be made for stormwater bypass.

**8-01.5 Payment**

Section 8-01.5 shall be supplemented with the following:

(\*\*\*\*\*)

“Stormwater Bypass”, lump sum

**8-02 ROADSIDE RESTORATION**

**8-02.1 Description**

Section 8-02.1 shall be supplemented with the following:

(\*\*\*\*\*)

This work shall also consist of installing Topsoil Type A over the sinkhole area as shown in the Plans.

**8-02.2 Materials**

Section 8-02.2 shall be supplemented with the following:

(\*\*\*\*\*)

Topsoil Type A 9-14.1(1)

**8-02.3 Construction Requirements**

Section 8-02.3A shall be supplemented with the following:

(\*\*\*\*\*)

**Topsoil Type A**

Topsoil Type A shall be placed so the finished grade is 6 inches higher than the adjacent ground to allow for future settlement of the sinkhole area.

**8-02.4 Measurement**

Section 8-02.4 shall be revised as follows:

(\*\*\*\*\*)

The first sentence shall be replaced with the following:

Topsoil Type A will be measured per cubic yard for topsoil placed.

**8-02.5 Payment**

Section 8-02.5 shall be supplemented with the following:

(\*\*\*\*\*)

“Topsoil Type A”, per cubic yard

**8-12 CHAIN LINK FENCE AND WIRE FENCE**

**8-12.1 Description**

Section 8-12.1 is supplemented with the following:

(\*\*\*\*\*)

This Work consists of reinstalling wood fence with new ground posts and relocating salvaged chain link fence with new ground posts as shown in the Plans.

**8-12.2 Materials**

Section 8-12.1 is supplemented with the following:

(\*\*\*\*\*)

**Reinstall Salvaged Wood Fence**

The Contractor shall reinstall and reuse the existing boards salvaged and furnish new ground posts. Ground posts shall be 4” x 4” preservative treated lumber and meet the requirements of Sections 9-09.

**Reinstall Salvaged Chain Link Fence**

The Contractor shall reinstall the salvaged chain link fence as shown in the Plans. New chain link posts shall meet the requirements of 9-16.

**8-12.3 Construction Requirements**

Section 8-12.3 is supplemented with the following:

(\*\*\*\*\*)

Wood fence shall be reinstalled at locations shown in the Plans. If the salvaged wood fence panels are damaged as a result of the Contractor’s removal or storage of the materials, the panels shall be replaced in kind at no cost to the City. The ground beneath the reinstalled portion of the fence shall be leveled prior to installation.

Chain link fence shall be reinstalled in accordance at the location shown in the Plans.

**8-12.4 Measurement**

Section 8-12.4 is supplemented with the following:

(\*\*\*\*\*)

Reinstalling salvaged wood fence will be measured by the linear foot of reinstalled fence, along the ground line. No separate measurement will be made for new ground posts furnished.

Reinstalling salvaged chain link fence will be measured by the linear foot of reinstalled fence, along the ground line. No separate measurement will be made for hardware attachments to chain

link fence, new ground posts, or concrete for post foundations.

#### **8-12.5 Payment**

Section 8-12.5 shall be supplemented with the following:

(\*\*\*\*\*)

“Reinstalling Salvaged Wood Fence”, per linear foot.

The unit contract price per linear foot for “Reinstalling Salvaged Wood Fence” shall be full pay for reinstalling the salvaged wood panels, furnishing and installing new ground posts, post foundation concrete and all labor, materials, tools, equipment necessary for the complete relocation of the fence.

“Reinstalling Salvaged Chain Link Fence”, per linear foot.

The unit contract price per each for “Reinstalling Salvaged Chain Link Fence” shall be full pay for reinstalling the salvaged fence, post foundation concrete and all labor, materials, tools, equipment necessary for the complete relocation of the fence.

**END OF DIVISION 8**

**DIVISION 9 – MATERIALS**

**9-14            EROSION CONTROL AND ROADSIDE PLANTING**

**9-14.1        Topsoil**

**9-14.1(1)    *Topsoil Type A***

Section 9-14.1(1) is supplemented with the following:

**(\*\*\*\*\*)**

Topsoil shall be free of weed seed and a 3-way mix as supplied by a certified topsoil company.

**END OF DIVISION 9**

# PREVAILING WAGE RATES



**City of Kirkland**

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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: 11/11/2016

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
King	<a href="#">Asbestos Abatement Workers</a>	Journey Level	\$45.25	<u>5D</u>	<u>1H</u>	
King	<a href="#">Boilermakers</a>	Journey Level	\$64.29	<u>5N</u>	<u>1C</u>	
King	<a href="#">Brick Mason</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
King	<a href="#">Brick Mason</a>	Pointer-Caulker-Cleaner	\$54.32	<u>5A</u>	<u>1M</u>	
King	<a href="#">Building Service Employees</a>	Janitor	\$22.84	<u>5S</u>	<u>2F</u>	
King	<a href="#">Building Service Employees</a>	Traveling Waxer/Shampooer	\$23.29	<u>5S</u>	<u>2F</u>	
King	<a href="#">Building Service Employees</a>	Window Cleaner (Non-Scaffold)	\$23.99	<u>5S</u>	<u>2F</u>	
King	<a href="#">Building Service Employees</a>	Window Cleaner (Scaffold)	\$26.78	<u>5S</u>	<u>2F</u>	
King	<a href="#">Cabinet Makers (In Shop)</a>	Journey Level	\$22.74		<u>1</u>	
King	<a href="#">Carpenters</a>	Acoustical Worker	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Bridge, Dock And Wharf Carpenters	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Carpenter	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Carpenters on Stationary Tools	\$55.64	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Creosoted Material	\$55.61	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Floor Finisher	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Floor Layer	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Carpenters</a>	Scaffold Erector	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Cement Masons</a>	Journey Level	\$55.56	<u>7A</u>	<u>1M</u>	
King	<a href="#">Divers &amp; Tenders</a>	Diver	\$108.77	<u>5D</u>	<u>4C</u>	<u>8A</u>
King	<a href="#">Divers &amp; Tenders</a>	Diver On Standby	\$66.05	<u>5D</u>	<u>4C</u>	
King	<a href="#">Divers &amp; Tenders</a>	Diver Tender	\$59.88	<u>5D</u>	<u>4C</u>	
King	<a href="#">Divers &amp; Tenders</a>	Surface Rcv & Rov Operator	\$59.88	<u>5D</u>	<u>4C</u>	
King	<a href="#">Divers &amp; Tenders</a>	Surface Rcv & Rov Operator Tender	\$55.76	<u>5A</u>	<u>4C</u>	
King	<a href="#">Dredge Workers</a>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
King	<a href="#">Dredge Workers</a>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
King	<a href="#">Dredge Workers</a>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
King	<a href="#">Dredge Workers</a>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
King	<a href="#">Dredge Workers</a>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	

King	<a href="#">Dredge Workers</a>	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
King	<a href="#">Dredge Workers</a>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
King	<a href="#">Drywall Applicator</a>	Journey Level	\$55.51	<u>5D</u>	<u>1H</u>	
King	<a href="#">Drywall Tapers</a>	Journey Level	\$55.66	<u>5P</u>	<u>1E</u>	
King	<a href="#">Electrical Fixture Maintenance Workers</a>	Journey Level	\$27.24	<u>5L</u>	<u>1E</u>	
King	<a href="#">Electricians - Inside</a>	Cable Splicer	\$69.77	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Cable Splicer (tunnel)	\$74.95	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Certified Welder	\$67.41	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Certified Welder (tunnel)	\$72.37	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Construction Stock Person	\$37.94	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Journey Level	\$65.05	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Inside</a>	Journey Level (tunnel)	\$69.77	<u>7C</u>	<u>4E</u>	
King	<a href="#">Electricians - Motor Shop</a>	Craftsman	\$15.37		<u>1</u>	
King	<a href="#">Electricians - Motor Shop</a>	Journey Level	\$14.69		<u>1</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Cable Splicer	\$71.85	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Certified Line Welder	\$65.71	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Groundperson	\$44.12	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Heavy Line Equipment Operator	\$65.71	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Journey Level Lineperson	\$65.71	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Line Equipment Operator	\$55.34	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Pole Sprayer	\$65.71	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electricians - Powerline Construction</a>	Powderperson	\$49.16	<u>5A</u>	<u>4D</u>	
King	<a href="#">Electronic Technicians</a>	Journey Level	\$31.00		<u>1</u>	
King	<a href="#">Elevator Constructors</a>	Mechanic	\$85.45	<u>7D</u>	<u>4A</u>	
King	<a href="#">Elevator Constructors</a>	Mechanic In Charge	\$92.35	<u>7D</u>	<u>4A</u>	
King	<a href="#">Fabricated Precast Concrete Products</a>	All Classifications - In-Factory Work Only	\$16.55	<u>5B</u>	<u>1R</u>	
King	<a href="#">Fence Erectors</a>	Fence Erector	\$15.18		<u>1</u>	
King	<a href="#">Flaggers</a>	Journey Level	\$38.36	<u>7A</u>	<u>3I</u>	
King	<a href="#">Glaziers</a>	Journey Level	\$58.31	<u>7L</u>	<u>1Y</u>	
King	<a href="#">Heat &amp; Frost Insulators And Asbestos Workers</a>	Journeyman	\$65.43	<u>5J</u>	<u>1S</u>	
King	<a href="#">Heating Equipment Mechanics</a>	Journey Level	\$75.46	<u>7F</u>	<u>1E</u>	
King	<a href="#">Hod Carriers &amp; Mason Tenders</a>	Journey Level	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Industrial Power Vacuum Cleaner</a>	Journey Level	\$9.47		<u>1</u>	
King	<a href="#">Inland Boatmen</a>	Boat Operator	\$56.78	<u>5B</u>	<u>1K</u>	
King	<a href="#">Inland Boatmen</a>	Cook	\$53.30	<u>5B</u>	<u>1K</u>	
King	<a href="#">Inland Boatmen</a>	Deckhand	\$53.30	<u>5B</u>	<u>1K</u>	

King	<a href="#">Inland Boatmen</a>	Deckhand Engineer	\$54.32	<u>5B</u>	<u>1K</u>	
King	<a href="#">Inland Boatmen</a>	Launch Operator	\$55.57	<u>5B</u>	<u>1K</u>	
King	<a href="#">Inland Boatmen</a>	Mate	\$55.57	<u>5B</u>	<u>1K</u>	
King	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Cleaner Operator, Foamer Operator	\$31.49		<u>1</u>	
King	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Grout Truck Operator	\$11.48		<u>1</u>	
King	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Head Operator	\$24.91		<u>1</u>	
King	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Technician	\$19.33		<u>1</u>	
King	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Tv Truck Operator	\$20.45		<u>1</u>	
King	<a href="#">Insulation Applicators</a>	Journey Level	\$55.51	<u>5D</u>	<u>4C</u>	
King	<a href="#">Ironworkers</a>	Journeyman	\$65.53	<u>7N</u>	<u>10</u>	
King	<a href="#">Laborers</a>	Air, Gas Or Electric Vibrating Screed	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Airtrac Drill Operator	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Ballast Regular Machine	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Batch Weighman	\$38.36	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Brick Pavers	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Brush Cutter	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Brush Hog Feeder	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Burner	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Caisson Worker	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Carpenter Tender	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Caulker	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Cement Dumper-paving	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Cement Finisher Tender	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Change House Or Dry Shack	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Chipping Gun (under 30 Lbs.)	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Chipping Gun(30 Lbs. And Over)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Choker Setter	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Chuck Tender	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Clary Power Spreader	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Clean-up Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Concrete Dumper/chute Operator	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Concrete Form Stripper	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Concrete Placement Crew	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Concrete Saw Operator/core Driller	\$46.09	<u>7A</u>	<u>3I</u>	

King	<a href="#">Laborers</a>	Crusher Feeder	\$38.36	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Curing Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Demolition: Wrecking & Moving (incl. Charred Material)	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Ditch Digger	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Diver	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Drill Operator (hydraulic,diamond)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Dry Stack Walls	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Dump Person	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Epoxy Technician	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Erosion Control Worker	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Faller & Bucker Chain Saw	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Fine Graders	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Firewatch	\$38.36	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Form Setter	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Gabian Basket Builders	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	General Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Grade Checker & Transit Person	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Grinders	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Grout Machine Tender	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Groutmen (pressure)including Post Tension Beams	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Guardrail Erector	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Hazardous Waste Worker (level A)	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Hazardous Waste Worker (level B)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Hazardous Waste Worker (level C)	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	High Scaler	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Jackhammer	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Laserbeam Operator	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Maintenance Person	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Manhole Builder-mudman	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Material Yard Person	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Motorman-dinky Locomotive	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pavement Breaker	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pilot Car	\$38.36	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pipe Layer Lead	\$46.66	<u>7A</u>	<u>3I</u>	

King	<a href="#">Laborers</a>	Pipe Layer/tailor	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pipe Pot Tender	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pipe Reliner	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pipe Wrapper	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Pot Tender	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Powderman	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Powderman's Helper	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Power Jacks	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Railroad Spike Puller - Power	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Raker - Asphalt	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Re-timberman	\$46.66	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Remote Equipment Operator	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Rigger/signal Person	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Rip Rap Person	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Rivet Buster	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Rodder	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Scaffold Erector	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Scale Person	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Sloper (over 20")	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Sloper Sprayer	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Spreader (concrete)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Stake Hopper	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Stock Piler	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Tamper & Similar Electric, Air & Gas Operated Tools	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Tamper (multiple & Self-propelled)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Toolroom Person (at Jobsite)	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Topper	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Track Laborer	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Track Liner (power)	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Traffic Control Laborer	\$41.02	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<a href="#">Laborers</a>	Traffic Control Supervisor	\$41.02	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<a href="#">Laborers</a>	Truck Spotter	\$45.25	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Tugger Operator	\$46.09	<u>7A</u>	<u>3I</u>	
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 0-30 psi	\$83.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$88.15	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$91.83	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$97.53	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$99.65	<u>7A</u>	<u>3I</u>	<u>8Q</u>

King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$104.75	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$106.65	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$108.65	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$110.65	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Tunnel Work-Guage and Lock Tender	\$46.76	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Tunnel Work-Miner	\$46.76	<a href="#">7A</a>	<a href="#">3I</a>	<a href="#">8Q</a>
King	<a href="#">Laborers</a>	Vibrator	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers</a>	Vinyl Seamer	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers</a>	Watchman	\$34.86	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers</a>	Welder	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers</a>	Well Point Laborer	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers</a>	Window Washer/cleaner	\$34.86	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers - Underground Sewer &amp; Water</a>	General Laborer & Topman	\$45.25	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Laborers - Underground Sewer &amp; Water</a>	Pipe Layer	\$46.09	<a href="#">7A</a>	<a href="#">3I</a>	
King	<a href="#">Landscape Construction</a>	Irrigation Or Lawn Sprinkler Installers	\$13.56		<a href="#">1</a>	
King	<a href="#">Landscape Construction</a>	Landscape Equipment Operators Or Truck Drivers	\$28.17		<a href="#">1</a>	
King	<a href="#">Landscape Construction</a>	Landscaping or Planting Laborers	\$17.87		<a href="#">1</a>	
King	<a href="#">Lathers</a>	Journey Level	\$55.51	<a href="#">5D</a>	<a href="#">1H</a>	
King	<a href="#">Marble Setters</a>	Journey Level	\$54.32	<a href="#">5A</a>	<a href="#">1M</a>	
King	<a href="#">Metal Fabrication (In Shop)</a>	Fitter	\$15.86		<a href="#">1</a>	
King	<a href="#">Metal Fabrication (In Shop)</a>	Laborer	\$9.78		<a href="#">1</a>	
King	<a href="#">Metal Fabrication (In Shop)</a>	Machine Operator	\$13.04		<a href="#">1</a>	
King	<a href="#">Metal Fabrication (In Shop)</a>	Painter	\$11.10		<a href="#">1</a>	
King	<a href="#">Metal Fabrication (In Shop)</a>	Welder	\$15.48		<a href="#">1</a>	
King	<a href="#">Millwright</a>	Journey Level	\$57.01	<a href="#">5D</a>	<a href="#">4C</a>	
King	<a href="#">Modular Buildings</a>	Cabinet Assembly	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Electrician	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Equipment Maintenance	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Plumber	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Production Worker	\$9.47		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Tool Maintenance	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Utility Person	\$11.56		<a href="#">1</a>	
King	<a href="#">Modular Buildings</a>	Welder	\$11.56		<a href="#">1</a>	
King	<a href="#">Painters</a>	Journey Level	\$40.60	<a href="#">6Z</a>	<a href="#">2B</a>	
King	<a href="#">Pile Driver</a>	Journey Level	\$55.76	<a href="#">5D</a>	<a href="#">4C</a>	
King	<a href="#">Plasterers</a>	Journey Level	\$53.20	<a href="#">7Q</a>	<a href="#">1R</a>	
King	<a href="#">Playground &amp; Park Equipment Installers</a>	Journey Level	\$9.47		<a href="#">1</a>	

King	<a href="#">Plumbers &amp; Pipefitters</a>	Journey Level	\$75.06	<u>6Z</u>	<u>1G</u>	
King	<a href="#">Power Equipment Operators</a>	Asphalt Plant Operators	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Assistant Engineer	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Barrier Machine (zipper)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Batch Plant Operator, Concrete	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Bobcat	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Brokk - Remote Demolition Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Brooms	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Bump Cutter	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cableways	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Chipper	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Compressor	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Concrete Finish Machine -laser Screed	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Conveyors	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes Friction: 200 tons and over	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: A-frame - 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: Friction cranes through 199 tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<a href="#">Power Equipment Operators</a>	Crusher	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Deck Engineer/deck Winches (power)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Derricks, On Building Work	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Dozers D-9 & Under	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Drilling Machine	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Elevator And Man-lift: Permanent And Shaft Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Forklift: 3000 Lbs And Over With Attachments	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Forklifts: Under 3000 Lbs. With Attachments	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Gradechecker/stakeman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Guardrail Punch	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Locator	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Operator	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Hydralifts/boom Trucks Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Hydralifts/boom Trucks, 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Loader, Overhead 8 Yards. & Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Loaders, Overhead Under 6 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Loaders, Plant Feed	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Loaders: Elevating Type Belt	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Locomotives, All	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Material Transfer Device	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Motor Patrol Graders	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>		\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield				
King	<a href="#">Power Equipment Operators</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type: 100 Tons And Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Pavement Breaker	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Pile Driver (other Than Crane Mount)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Plant Oiler - Asphalt, Crusher	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Posthole Digger, Mechanical	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Power Plant	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Pumps - Water	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Quad 9, Hd 41, D10 And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Rigger And Bellman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Rigger/Signal Person, Bellman (Certified)	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Rollagon	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Roller, Other Than Plant Mix	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Roller, Plant Mix Or Multi-lift Materials	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Roto-mill, Roto-grinder	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Saws - Concrete	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Scraper, Self Propelled Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Scrapers - Concrete & Carry All	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Scrapers, Self-propelled: 45 Yards And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Service Engineers - Equipment	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Shotcrete/gunite Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>		\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons				
King	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Slipform Pavers	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Spreader, Top sider & Screedman	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Subgrader Trimmer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Tower Bucket Elevators	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Tower Crane Up To 175' In Height Base To Boom	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Tower Crane: over 175' through 250' in height, base to boom	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Tower Cranes: over 250' in height from base to boom	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Transporters, All Track Or Truck Type	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Trenching Machines	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/driver Under 100 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Truck Mount Portable Conveyor	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Welder	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Wheel Tractors, Farmall Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators</a>	Yo Yo Pay Dozer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Asphalt Plant Operators	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Assistant Engineer	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Barrier Machine (zipper)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Batch Plant Operator, Concrete	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Bobcat	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Brokk - Remote Demolition Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Brooms	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Bump Cutter	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cableways	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Chipper	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Compressor	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Finish Machine -laser Screed	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Conveyors	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes Friction: 200 tons and over	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: A-frame - 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: Friction cranes through 199 tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Crusher	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Deck Engineer / deck Winches (power)	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Derricks, On Building Work	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Dozers D-9 & Under	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drilling Machine	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Elevator And Man-lift: Permanent And Shaft Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklift: 3000 Lbs And Over With Attachments	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklifts: Under 3000 Lbs. With Attachments	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Gradechecker/stakeman	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Guardrail Punch	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Horizontal/directional Drill Locator	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Horizontal/directional Drill Operator	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hydralifts/boom Trucks Over 10 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Hydralifts/boom Trucks, 10 Tons And Under	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loader, Overhead 8 Yards. & Over	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders, Overhead Under 6 Yards	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders, Plant Feed	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Loaders: Elevating Type Belt	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Locomotives, All	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Material Transfer Device	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Motor Patrol Graders	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$58.69	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$58.17	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type: 100 Tons And Over	\$59.28	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$58.69	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pavement Breaker	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pile Driver (other Than Crane Mount)	\$58.17	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Plant Oiler - Asphalt, Crusher	\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Posthole Digger, Mechanical	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Power Plant	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Pumps - Water	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Quad 9, Hd 41, D10 And Over	\$58.69	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$58.69	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rigger And Bellman	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rigger/Signal Person, Bellman (Certified)	\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Rollagon	\$58.69	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roller, Other Than Plant Mix	\$55.21	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roller, Plant Mix Or Multi-lift Materials	\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Roto-mill, Roto-grinder	\$58.17	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Saws - Concrete	\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scraper, Self Propelled Under 45 Yards	\$58.17	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>
King			\$57.72	<a href="#">7A</a>	<a href="#">3C</a>	<a href="#">8P</a>

	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scrapers - Concrete & Carry All				
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Scrapers, Self-propelled: 45 Yards And Over	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Service Engineers - Equipment	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shotcrete/gunite Equipment	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Slipform Pavers	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Spreader, Topsider & Screedman	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Subgrader Trimmer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Bucket Elevators	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane Up To 175' In Height Base To Boom	\$59.28	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane: over 175' through 250' in height, base to boom	\$59.88	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Cranes: over 250' in height from base to boom	\$60.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Transporters, All Track Or Truck Type	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Trenching Machines	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/driver Under 100 Tons	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Mount Portable Conveyor	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Welder	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Wheel Tractors, Farmall Type	\$55.21	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Yo Yo Pay Dozer	\$58.17	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<a href="#">Power Line Clearance Tree Trimmers</a>	Journey Level In Charge	\$47.08	<u>5A</u>	<u>4A</u>	
King	<a href="#">Power Line Clearance Tree Trimmers</a>	Spray Person	\$44.64	<u>5A</u>	<u>4A</u>	
King	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Equipment Operator	\$47.08	<u>5A</u>	<u>4A</u>	
King	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer	\$42.01	<u>5A</u>	<u>4A</u>	
King	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer Groundperson	\$31.65	<u>5A</u>	<u>4A</u>	
King	<a href="#">Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$74.66	<u>6Z</u>	<u>1G</u>	
King	<a href="#">Residential Brick Mason</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
King	<a href="#">Residential Carpenters</a>	Journey Level	\$28.20		<u>1</u>	
King	<a href="#">Residential Cement Masons</a>	Journey Level	\$22.64		<u>1</u>	
King	<a href="#">Residential Drywall Applicators</a>	Journey Level	\$41.69	<u>5D</u>	<u>4C</u>	
King	<a href="#">Residential Drywall Tapers</a>	Journey Level	\$55.66	<u>5P</u>	<u>1E</u>	
King	<a href="#">Residential Electricians</a>	Journey Level	\$30.44		<u>1</u>	
King	<a href="#">Residential Glaziers</a>	Journey Level	\$38.40	<u>7L</u>	<u>1H</u>	
King	<a href="#">Residential Insulation Applicators</a>	Journey Level	\$26.28		<u>1</u>	
King	<a href="#">Residential Laborers</a>	Journey Level	\$23.03		<u>1</u>	
King	<a href="#">Residential Marble Setters</a>	Journey Level	\$24.09		<u>1</u>	
King	<a href="#">Residential Painters</a>	Journey Level	\$24.46		<u>1</u>	
King	<a href="#">Residential Plumbers &amp; Pipefitters</a>	Journey Level	\$34.69		<u>1</u>	
King	<a href="#">Residential Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$74.66	<u>6Z</u>	<u>1G</u>	
King	<a href="#">Residential Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$45.99	<u>7F</u>	<u>1R</u>	
King	<a href="#">Residential Soft Floor Layers</a>	Journey Level	\$45.86	<u>5A</u>	<u>3D</u>	
King	<a href="#">Residential Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$42.73	<u>5C</u>	<u>2R</u>	
King	<a href="#">Residential Stone Masons</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
King	<a href="#">Residential Terrazzo Workers</a>	Journey Level	\$48.86	<u>5A</u>	<u>1M</u>	
King	<a href="#">Residential Terrazzo/Tile Finishers</a>	Journey Level	\$21.46		<u>1</u>	
King	<a href="#">Residential Tile Setters</a>	Journey Level	\$25.17		<u>1</u>	
King	<a href="#">Roofers</a>	Journey Level	\$46.46	<u>5A</u>	<u>3H</u>	
King	<a href="#">Roofers</a>	Using Irritable Bituminous Materials	\$49.46	<u>5A</u>	<u>3H</u>	
King	<a href="#">Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$75.46	<u>7F</u>	<u>1E</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Boilermaker	\$41.72	<u>7M</u>	<u>1H</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Carpenter	\$41.06	<u>7T</u>	<u>2B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Electrician	\$41.09	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Heat & Frost Insulator	\$65.43	<u>5J</u>	<u>1S</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Laborer	\$41.08	<u>7T</u>	<u>4B</u>	

King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Machinist	\$41.32	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Operator	\$41.03	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Painter	\$41.05	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Pipefitter	\$41.05	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Rigger	\$41.12	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Sheet Metal	\$41.04	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Shipfitter	\$41.12	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Trucker	\$41.01	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Warehouse	\$41.02	<u>7T</u>	<u>4B</u>	
King	<a href="#">Shipbuilding &amp; Ship Repair</a>	Welder/Burner	\$41.12	<u>7T</u>	<u>4B</u>	
King	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Sign Installer	\$22.92		<u>1</u>	
King	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Sign Maker	\$21.36		<u>1</u>	
King	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Sign Installer	\$27.28		<u>1</u>	
King	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Sign Maker	\$33.25		<u>1</u>	
King	<a href="#">Soft Floor Layers</a>	Journey Level	\$45.86	<u>5A</u>	<u>3D</u>	
King	<a href="#">Solar Controls For Windows</a>	Journey Level	\$12.44		<u>1</u>	
King	<a href="#">Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$72.49	<u>5C</u>	<u>1X</u>	
King	<a href="#">Stage Rigging Mechanics (Non Structural)</a>	Journey Level	\$13.23		<u>1</u>	
King	<a href="#">Stone Masons</a>	Journey Level	\$54.32	<u>5A</u>	<u>1M</u>	
King	<a href="#">Street And Parking Lot Sweeper Workers</a>	Journey Level	\$19.09		<u>1</u>	
King	<a href="#">Surveyors</a>	Assistant Construction Site Surveyor	\$57.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Surveyors</a>	Chainman	\$57.17	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Surveyors</a>	Construction Site Surveyor	\$58.69	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<a href="#">Telecommunication Technicians</a>	Journey Level	\$22.76		<u>1</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Cable Splicer	\$37.60	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Hole Digger/Ground Person	\$20.79	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Installer (Repairer)	\$36.02	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Special Aparatus Installer I	\$37.60	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Special Apparatus Installer II	\$36.82	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Heavy)	\$37.60	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Light)	\$34.94	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Telephone Lineperson	\$34.93	<u>5A</u>	<u>2B</u>	

King	<a href="#">Telephone Line Construction - Outside</a>	Television Groundperson	\$19.73	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Television Lineperson/Installer	\$26.31	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Television System Technician	\$31.50	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Television Technician	\$28.23	<u>5A</u>	<u>2B</u>	
King	<a href="#">Telephone Line Construction - Outside</a>	Tree Trimmer	\$34.93	<u>5A</u>	<u>2B</u>	
King	<a href="#">Terrazzo Workers</a>	Journey Level	\$48.86	<u>5A</u>	<u>1M</u>	
King	<a href="#">Tile Setters</a>	Journey Level	\$21.65		<u>1</u>	
King	<a href="#">Tile, Marble &amp; Terrazzo Finishers</a>	Finisher	\$39.69	<u>5A</u>	<u>1B</u>	
King	<a href="#">Traffic Control Stripers</a>	Journey Level	\$44.35	<u>7A</u>	<u>1K</u>	
King	<a href="#">Truck Drivers</a>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<a href="#">Truck Drivers</a>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<a href="#">Truck Drivers</a>	Dump Truck & Trailer	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<a href="#">Truck Drivers</a>	Dump Truck (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<a href="#">Truck Drivers</a>	Other Trucks (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<a href="#">Truck Drivers</a>	Transit Mixer	\$43.23		<u>1</u>	
King	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Irrigation Pump Installer	\$17.71		<u>1</u>	
King	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Oiler	\$12.97		<u>1</u>	
King	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Well Driller	\$18.00		<u>1</u>	

**Washington State Department of Labor and Industries**  
**Policy Statement**  
**(Regarding the Production of "Standard" or "Non-standard" Items)**

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's  
Predetermined List for  
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		<b>X</b>
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		<b>X</b>
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		<b>X</b>
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		<b>X</b>
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		<b>X</b>
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		<b>X</b>
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		<b>X</b>

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		<b>X</b>
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	<b>X</b>	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	<b>X</b>	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.	<b>X</b>	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		<b>X</b>
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	<b>X</b>	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		<b>X</b>
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		<b>X</b>
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		<b>X</b>

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		<b>X</b>
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		<b>X</b>
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		<b>X</b>
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		<b>X</b>
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		<b>X</b>
22. Vault Risers - For use with Valve Vaults and Utilities  X Vaults.		<b>X</b>
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		<b>X</b>
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		<b>X</b>
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	<b>X</b>	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	<b>X</b>	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	<b>X</b>	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	<b>X</b>	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	<b>X</b>	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	<b>X</b>	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	<b>X</b>	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	<b>X</b>	
33. Monument Case and Cover See Std. Plan.		<b>X</b>

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	<b>X</b>	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	<b>X</b>	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	<b>X</b>	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		<b>X</b>
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	<b>X</b>	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	<b>X</b>	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	<b>X</b>	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		<b>X</b>

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. <b>NOTE:</b> *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	<b>X</b>	<b>X</b>
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		<b>X</b>
44. Guardrail components	<b>X</b>	<b>X</b>
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		<b>X</b>
48. Electrical wiring/components		<b>X</b>
49. treated or untreated timber pile		<b>X</b>
50. Girder pads (elastomeric bearing)	<b>X</b>	
51. Standard Dimension lumber		<b>X</b>
52. Irrigation components		<b>X</b>

ITEM DESCRIPTION	YES	NO
53. Fencing materials		<b>X</b>
54. Guide Posts		<b>X</b>
55. Traffic Buttons		<b>X</b>
56. Epoxy		<b>X</b>
57. Cribbing		<b>X</b>
58. Water distribution materials		<b>X</b>
59. Steel "H" piles		<b>X</b>
60. Steel pipe for concrete pile casings		<b>X</b>
61. Steel pile tips, standard		<b>X</b>
62. Steel pile tips, custom	<b>X</b>	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

### **WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects**

This project is subject to the state hourly minimum rates for wages and fringe benefits in

the contract provisions, as provided by the state Department of Labor and Industries. The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects. When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential \*\*\* ALL ASSOCIATED RATES \*\*\*
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

**Washington State Department of Labor and Industries  
Policy Statements  
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)**

**WAC 296-127-018 Agency filings affecting this section**

**Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.**

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

Benefit Code Key – Effective 8/31/2016 thru 3/2/2017

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**Overtime Codes**

**Overtime calculations** are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
  - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
  - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
  - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
  - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**Overtime Codes Continued**

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

**Overtime Codes Continued**

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
  - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
  - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
  - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
  - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
  - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
  - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

**Overtime Codes Continued**

3.
  - D. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 15% over the hourly rate of wage. All other hours worked after 6:00 am on Saturdays, shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
  - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
  - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
  - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
  - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

**Overtime Codes Continued**

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

**EXCEPTION:**

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**Holiday Codes**

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

Benefit Code Key – Effective 8/31/2016 thru 3/2/2017

**Holiday Codes Continued**

5. I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).

**Holiday Codes Continued**

6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Holiday Codes Continued**

7. K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Note Codes**

8. A. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:  
Over 50' To 100' -\$2.00 per Foot for Each Foot Over 50 Feet  
Over 100' To 150' -\$3.00 per Foot for Each Foot Over 100 Feet  
Over 150' To 220' -\$4.00 per Foot for Each Foot Over 150 Feet  
Over 220' -\$5.00 per Foot for Each Foot Over 220 Feet

**Note Codes Continued**

8. C. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:  
Over 50' To 100' -\$1.00 per Foot for Each Foot Over 50 Feet  
Over 100' To 150' -\$1.50 per Foot for Each Foot Over 100 Feet  
Over 150' To 200' -\$2.00 per Foot for Each Foot Over 150 Feet  
Over 200' -Divers May Name Their Own Price
- D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.

# APPENDIX A

## PLANS



**City of Kirkland**

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# **APPENDIX B**

## **PRE-APPROVED PLANS**

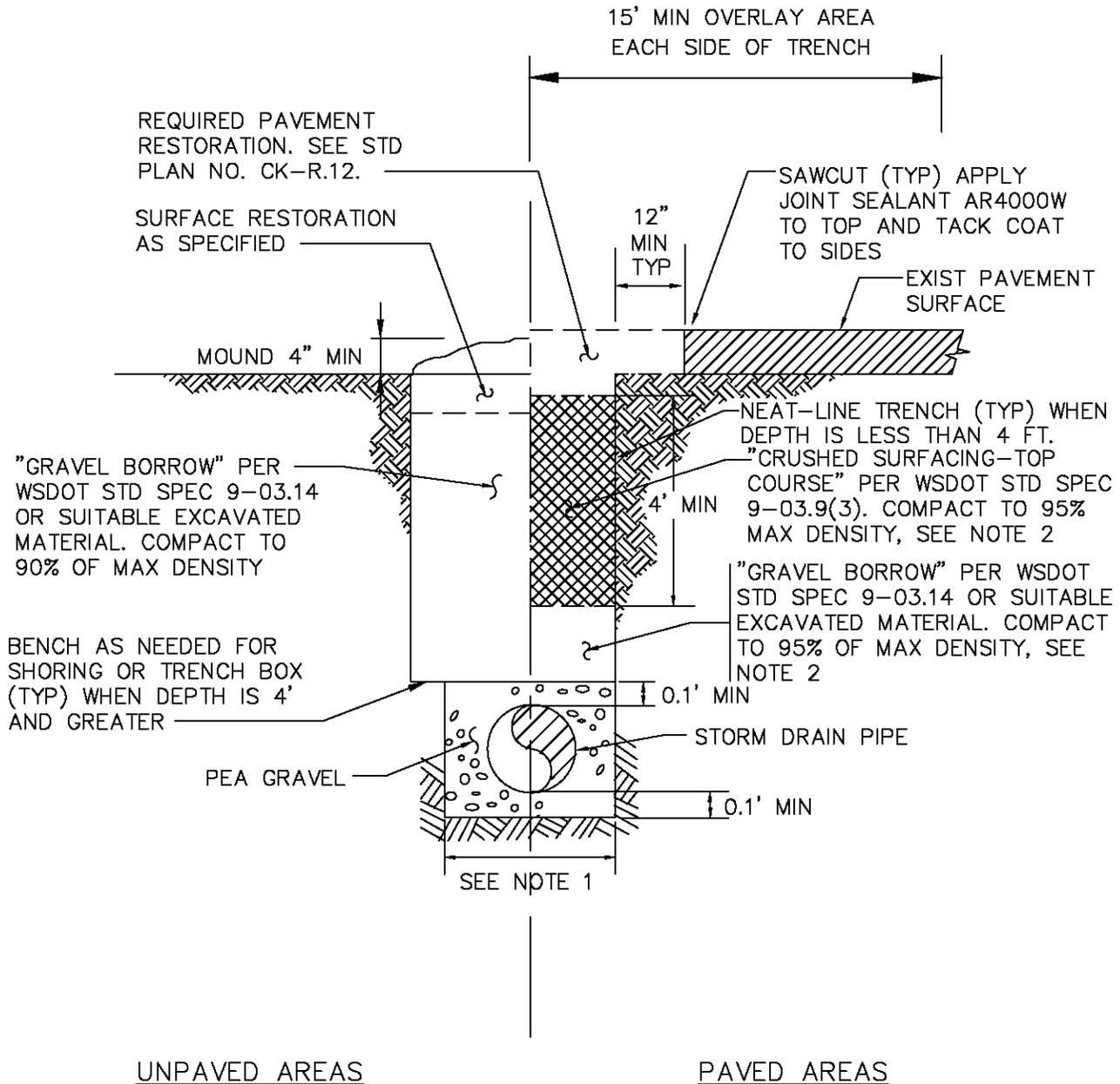


**City of Kirkland**

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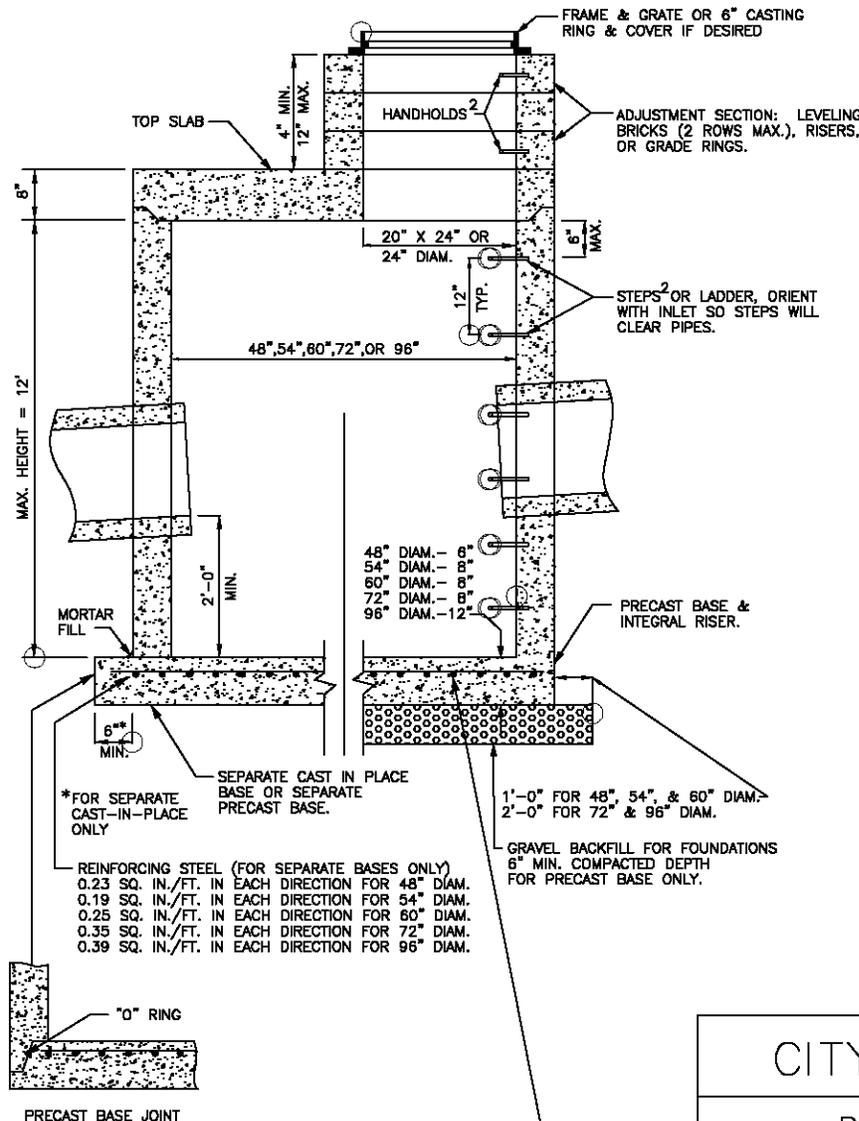
**NOTES:**

1. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE
  - \* 30" FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.
  - \* OD PLUS 16" FOR PIPE LARGER THAN 12" NOMINAL DIAMETER.
2. WHERE TRENCH IS PERPENDICULAR TO TRAVELED LANES, BACKFILL FULL DEPTH WITH CRUSHED SURFACING-TOP COURSE. WHERE TRENCH IS PARALLEL TO TRAVELED LANES, BACKFILL THE TOP 4' OF TRENCH TO SUBGRADE WITH CRUSHED SURFACING-TOP COURSE. SUITABLE EXCAVATED MATERIAL MAY BE USED PROVIDED 95% MAX. COMPACTION DENSITY CAN BE ACHIEVED.
3. THE STREET SHALL BE OVERLAID WHEN THE ASPHALT ROADWAY IS LESS THAN 5 YRS OLD FOR UTILITY CROSSINGS, THE STREET SHALL BE OVERLAID AT LEAST 25' ON EACH SIDE OF THE TRENCH. SEE OVERLAY POLICY R-7.

CITY OF KIRKLAND	
PLAN NO. CK-D.02	
	<p>STORM TRENCH DETAIL</p>

**NOTES:**

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M199) AND ASTM C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
2. HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE STD. DTL. NO. CK-D.12, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2" MIN. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS. MAX. HOLE SIZE SHALL BE 24" FOR 48" CATCH BASIN, 27" FOR 54" C.B., 30" FOR 60" C.B., 36" FOR 72" C.B., 48" FOR 96" C.B. MIN. DISTANCE BETWEEN HOLES SHALL BE 8" FOR 48", 54", AND 60" C.B.; 12" FOR 72" AND 96" C.B.
6. CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC. 7.05 OF THE STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
7. ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
8. MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
9. FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE STD. DTLs. NO. CK-D.12 AND CK-S.14.
10. ALL MANHOLE JOINTS SHALL USE A CONFINED RUBBER GASKET AND GROUTED (INSIDE AND OUT) TO MEET ASTM C-443 SPECIFICATIONS.



\*FOR SEPARATE CAST-IN-PLACE ONLY

SEPARATE CAST IN PLACE BASE OR SEPARATE PRECAST BASE.

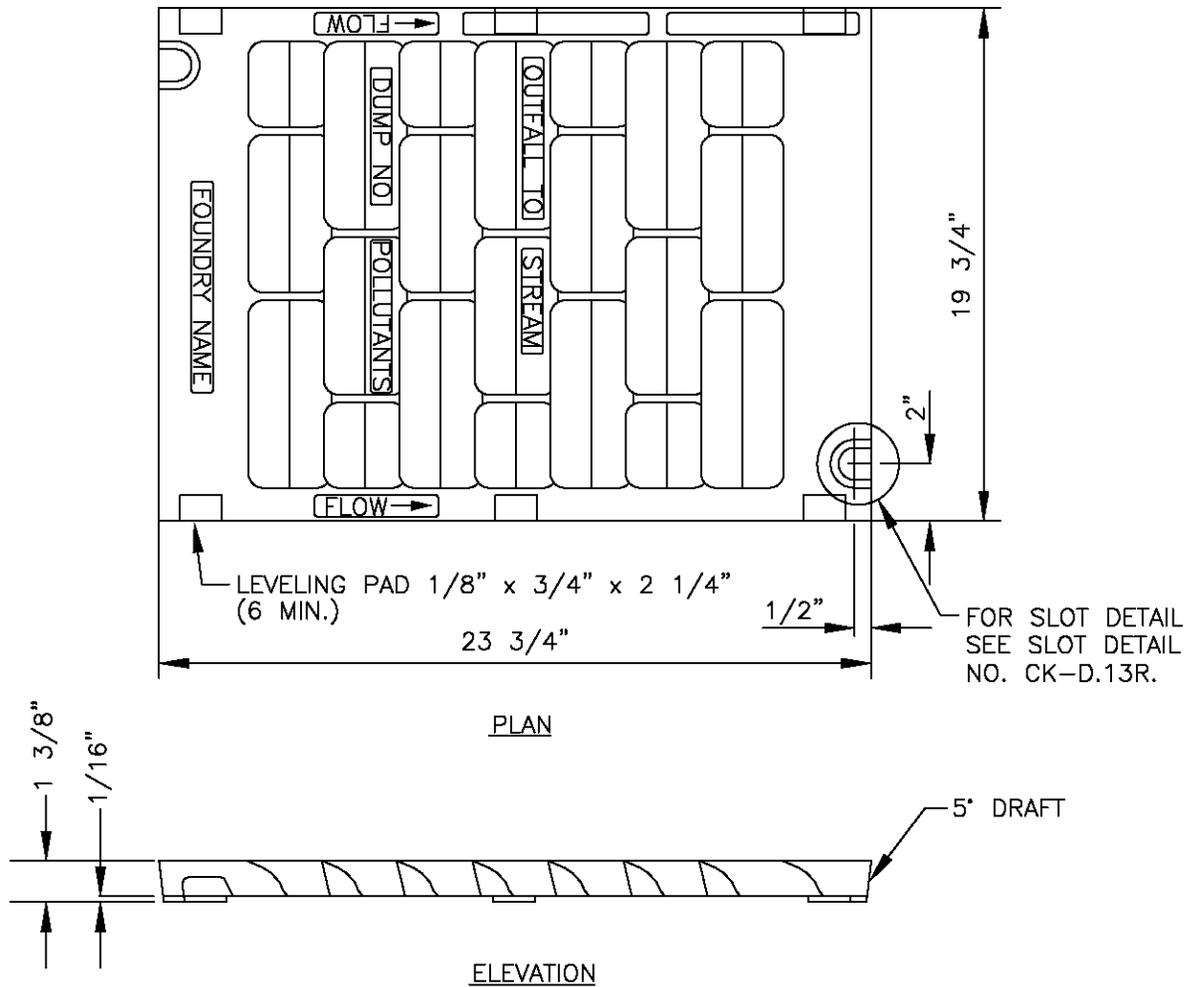
REINFORCING STEEL (FOR SEPARATE BASES ONLY)

- 0.23 SQ. IN./FT. IN EACH DIRECTION FOR 48" DIAM.
- 0.19 SQ. IN./FT. IN EACH DIRECTION FOR 54" DIAM.
- 0.25 SQ. IN./FT. IN EACH DIRECTION FOR 60" DIAM.
- 0.35 SQ. IN./FT. IN EACH DIRECTION FOR 72" DIAM.
- 0.39 SQ. IN./FT. IN EACH DIRECTION FOR 96" DIAM.

REINFORCING STEEL (FOR PRECAST BASE & INTEGRAL RISER ONLY)

- 0.15 SQ. IN./FT. IN EACH DIRECTION FOR 48" DIAM.
- 0.19 SQ. IN./FT. IN EACH DIRECTION FOR 54" DIAM.
- 0.25 SQ. IN./FT. IN EACH DIRECTION FOR 60" DIAM.
- 0.24 SQ. IN./FT. IN EACH DIRECTION FOR 72" DIAM.
- 0.29 SQ. IN./FT. IN EACH DIRECTION FOR 96" DIAM.

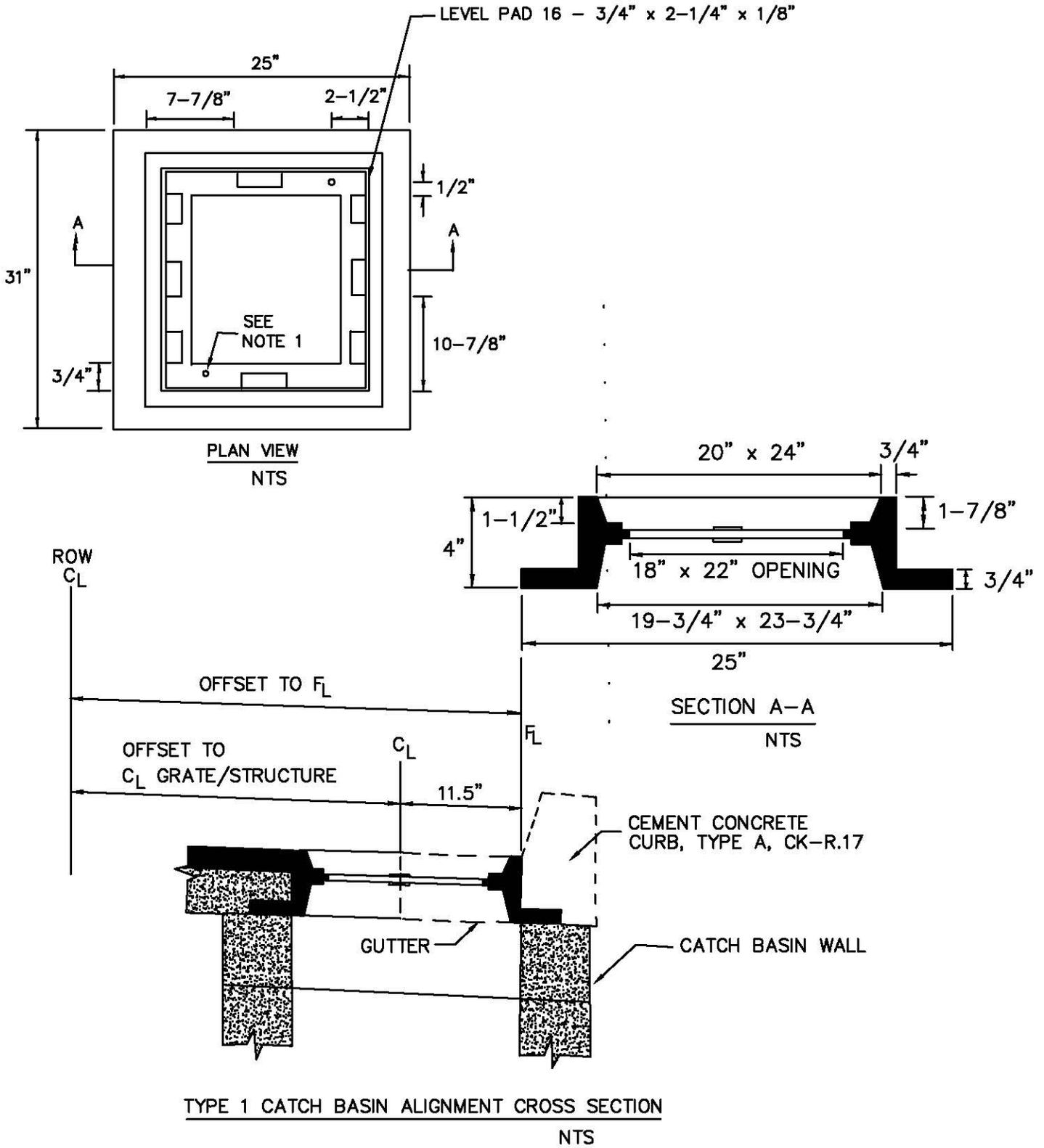
CITY OF KIRKLAND	
PLAN NO. CK-D.09	
	<p>CATCH BASIN TYPE 2 48", 54", 60", 72", 96"</p>



**NOTES:**

1. USE EAST JORDAN IRON WORKS OR EQUAL TWO BOLD LOCK CAPABILITY THAT MEETS WSDOT SPEC. MANUFACTURER SUBJECT TO APPROVAL BY CITY.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. NOTE SLOT DETAIL.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS.
6. WELDING IS NOT PERMITTED.
7. EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
8. USE A BI-DIRECTIONAL VANED GRATE AT ANY LOW POINT OR WHEN FLOWS COME FROM MULTIPLE DIRECTIONS.
9. NO EXPANSION MATERIAL IN THE FLOW LINE.

CITY OF KIRKLAND	
PLAN NO. CK-D.14	
	VANED GRATE FOR CATCH BASIN AND INLET



**NOTE:**

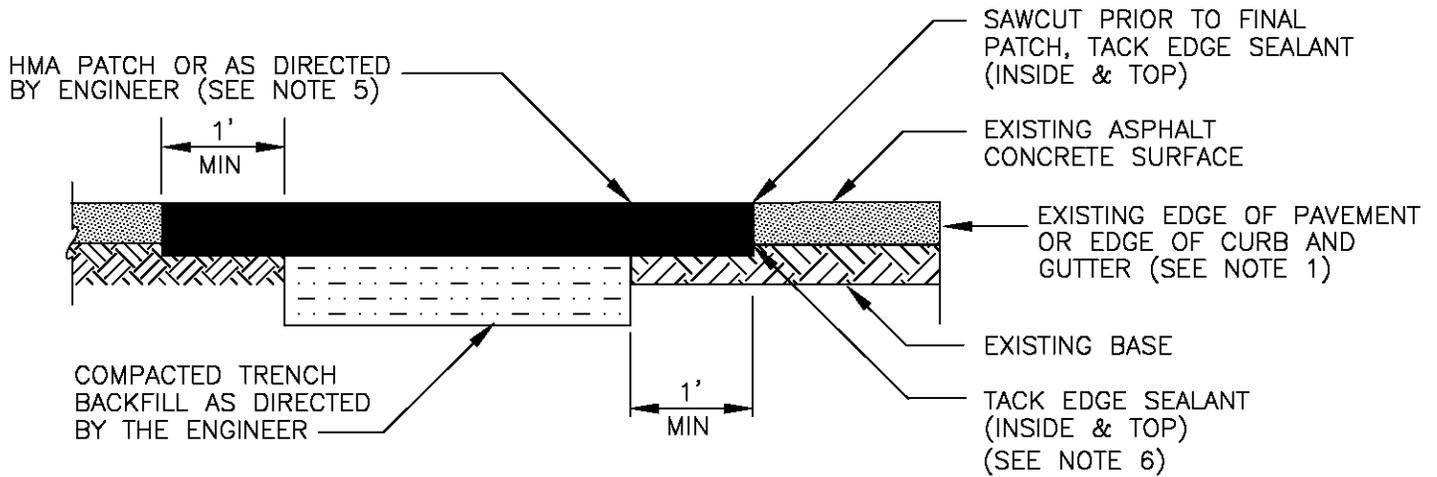
1. FRAME MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
2. SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
3. BACK OF FRAME SHALL BE IN FLOWLINE OF GUTTER.

CITY OF KIRKLAND

PLAN NO. CK- D.16A



STANDARD FRAME WITH CURB INSTALLATION

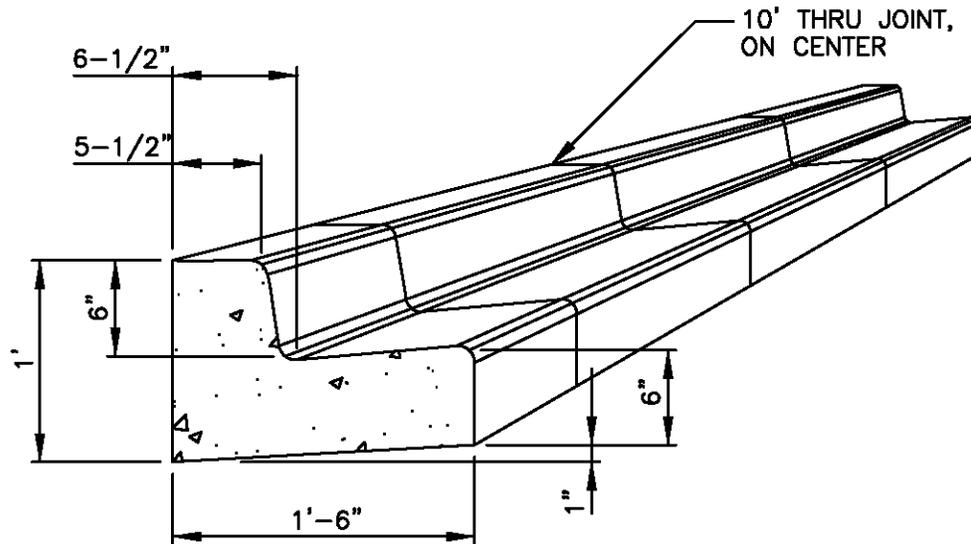


TYPICAL PATCH FOR PAVEMENT

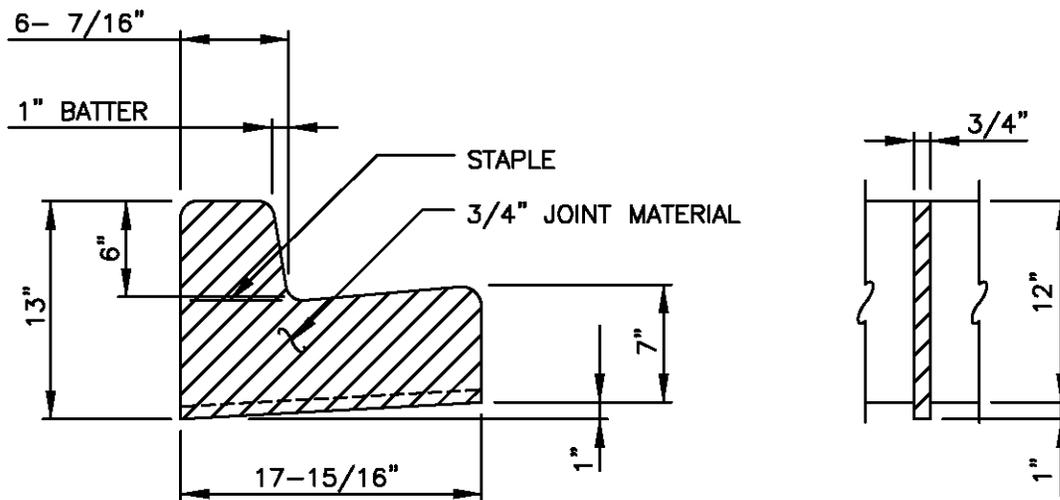
NOTES

1. IF THE DISTANCE FROM THE EDGE OF PATCH TO THE EDGE OF PAVEMENT OR CURB AND GUTTER IS LESS THAN 3', THE PATCH MUST CONTINUE TO THE EXISTING EDGE; UNLESS ROADWAY IS OVERLAID WITHIN 60 DAYS.
2. HOT MIX ASPHALT SHALL BE CLASS 1/2" OR CLASS B.
3. ALL TRENCH BACKFILL SHALL BE CRUSHED SURFACING TOP COURSE MATERIAL FOR PERPENDICULAR TRENCHES, OR AS DIRECTED BY ENGINEER.
4. HMA CLASS 1/2" OR CLASS B MAY BE USED IN LIEU OF ATB.
5. PATCH MUST ALWAYS BE 1" DEEPER THAN EXISTING ASPHALT; MAX 6" DEEP, OR AS DIRECTED BY ENGINEER.
6. TOP SEAL—USE AR4000W AND PROVIDE A SAND BLANKET TO ALLEVIATE TRAILING.

CITY OF KIRKLAND	
PLAN NO. CK-R.12	
	RESTORATION DETAIL AND PAVEMENT PATCHING



TYPICAL SECTION FOR CURB & GUTTER, TYPE A

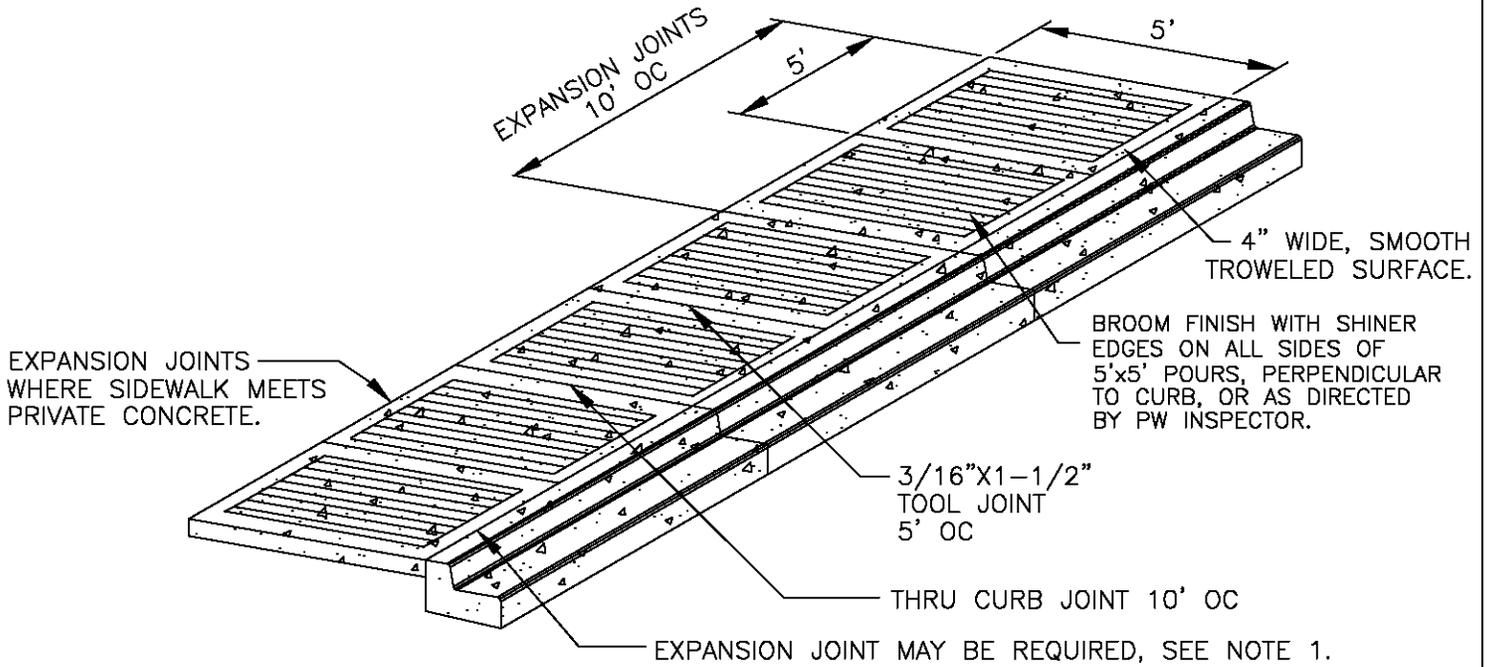


JOINT DETAIL

NOTES

1. FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE).
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
3. BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.

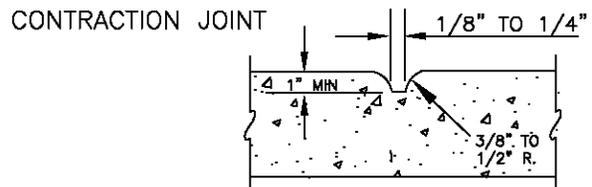
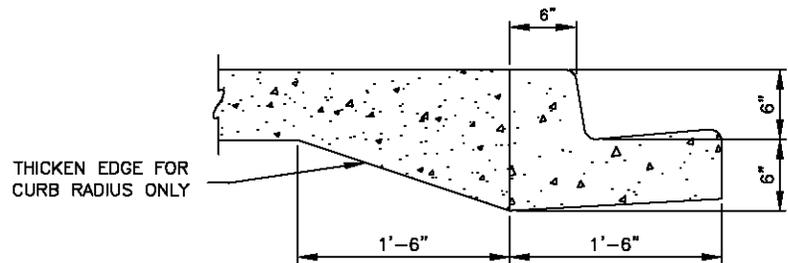
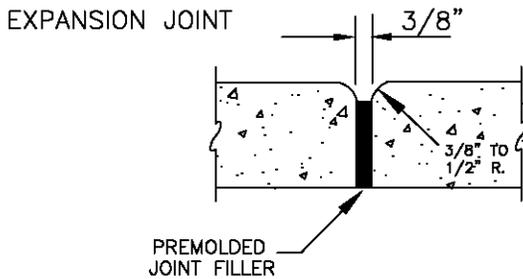
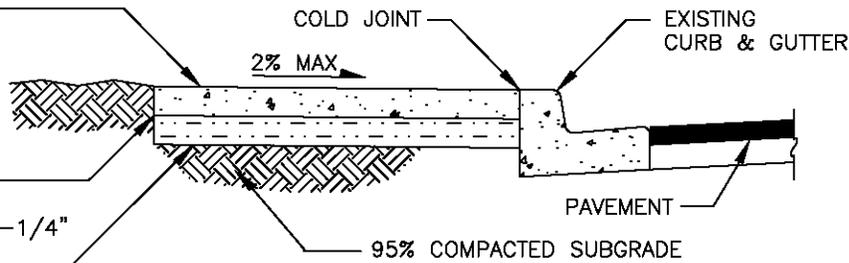
CITY OF KIRKLAND	
PLAN NO. CK-R.17	
	CONCRETE CURB AND GUTTER, TYPE "A"



5' WIDE CONCRETE SIDEWALK  
4" MIN THICKNESS (6" AT DRIVEWAYS)  
BROOM FINISH

PRE-EMERGENCE  
HERBICIDE (APPROX  
8 LBS/2500 SQ FT)

4" MINIMUM 3/4" OR 1-1/4"  
GRAVEL AS DETERMINED  
BY THE ENGINEER



**NOTES**

1. SIDEWALK AND CURB & GUTTER CANNOT BE POURED MONOLITHICALLY. EXPANSION JOINT WILL BE REQUIRED WHEN CONCRETE SIDEWALK IS SURROUNDED BY OTHER HARD SURFACES (E.G., DRIVEWAY); OR AS DIRECTED BY PW INSPECTOR.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000 PSI MINIMUM, WITH AIR ENTRAINMENT. NO COLOR OR TINT SHALL BE ADDED.
3. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SHALL BE STEEL UNLESS OTHERWISE APPROVED BY INSPECTOR.
4. SIDEWALK SHALL NOT BE POURED IN THE RAIN. SEE POLICY R-8, PLACING CONCRETE OR ASPHALT IN ADVERSE WEATHER CONDITIONS.

CITY OF KIRKLAND	
PLAN NO. CK-R.23	
 <p>CITY OF KIRKLAND WASHINGTON</p>	SIDEWALK SECTION