



***BID AND CONTRACT DOCUMENTS***

***AND***

***SPECIFICATIONS***

***FOR***

---

**2018 ASPHALT OVERLAY PROJECT**

---

***RFB # 18-001***

***City of Federal Way  
City Hall Hylebos Conference Room  
33325 Eighth Avenue South  
Federal Way, WA 98003***

***Mailing Address:  
City of Federal Way  
PUBLIC WORKS DEPARTMENT  
Federal Way, WA 98003-6325***

---

BID AND CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

---

**2018 ASPHALT OVERLAY PROJECT**

***RFB # 18-001***

---

Bids Accepted Until 10:00 a.m., January 31, 2018

Bids Opened 10:10 a.m., January 31, 2018

AT:

City of Federal Way  
City Hall Hylebos Conference Room  
33325 Eighth Avenue South  
Federal Way, WA 98003

Prepared By:

***PUBLIC WORKS DEPARTMENT***  
CITY OF FEDERAL WAY, WASHINGTON

---



# TABLE OF CONTENTS

	PAGE
<b>PUBLIC NOTICE – REQUEST FOR BIDS .....</b>	<b>4</b>
<b>BIDDER’S CHECKLIST .....</b>	<b>6</b>
<b>SECTION 1: INSTRUCTIONS TO BIDDERS.....</b>	<b>8</b>
<b>SECTION 2: GENERAL CONTRACTUAL TERMS AND CONDITIONS.....</b>	<b>15</b>
<b>NO BID RESPONSE FORM (Attachment A) .....</b>	<b>21</b>
<b>BID FORM (Attachment B) .....</b>	<b>22</b>
<b>BID SCHEDULE (Attachment C).....</b>	<b>24</b>
<b>BID SIGNATURE PAGE (Attachment D).....</b>	<b>29</b>
<b>BID BOND FORM (Attachment E) .....</b>	<b>30</b>
<b>SUBCONTRACTOR LIST (Attachment F) .....</b>	<b>31</b>
<b>COMBINED AFFIDAVIT AND CERTIFICATION FORM (Attachment G) .....</b>	<b>32</b>
<b>CONTRACTOR’S COMPLIANCE STATEMENT (Attachment H).....</b>	<b>34</b>
<b>CONTRACTOR CERTIFICATION – WAGE LAW COMPLIANCE (Attachment I) .....</b>	<b>35</b>
<b>PUBLIC WORKS CONTRACT (Attachment J).....</b>	<b>36</b>
<b>(with Exhibits A-H and Appendices as attached)</b>	
Exhibit A      Notice of Completion	
Exhibit B      Contract Change Order Agreement	
Exhibit C      Contractor’s Retainage Option	
Exhibit D      Retainage Bond to the City of Federal Way	
Exhibit E      Notice to Labor Unions of Other Employment Organizations Nondiscrimination in Employment	
Exhibit F      Certificate(s) of Insurance	
Exhibit G      Performance/Payment Bond	
Exhibit H      Title VI Assurances	
<b>AMENDMENTS TO THE STANDARD SPECIFICATIONS.....</b>	<b>GREEN PAGES</b>
<b>INTRODUCTION TO SPECIAL PROVISIONS.....</b>	<b>BLUE PAGES</b>
<b>STANDARD PLANS AND DETAILS (Appendix A) .....</b>	<b>WHITE PAGES</b>
<b>PREVAILING WAGES AND BENEFIT CODE KEY (Appendix B).....</b>	<b>YELLOW PAGES</b>

**CITY OF FEDERAL WAY  
REQUEST FOR BIDS**

**2018 ASPHALT OVERLAY PROJECT**

**RFB # 18-001**

**SUBMITTAL OF SEALED BIDS:**

Notice is hereby given that the City of Federal Way, Washington, will receive sealed bids through January 31, 2018 at 10:00 a.m, at the City Hall Purchasing Office or by US Mail at City of Federal Way, Purchasing Office, 33325 8th Avenue South, Federal Way, Washington 98003. Proposals received after 10:00 a.m. on said date will not be considered.

**BID OPENING:**

All bids will be opened and read publicly aloud at 10:10 a.m. on January 31, 2018 at City Hall Hylebos Conference Room, 33325 8th Avenue South, Federal Way, Washington, for this RFB.

All bid proposals shall be accompanied by a bid deposit by a cashier's or certified check, or Bid Bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into a contract and furnish satisfactory Performance Bond within the time stated in the specifications, the bid deposit or bond shall be forfeited to the City of Federal Way.

Furnishing all materials, equipment, tools, labor, and other work or items incidental thereto (excepting any materials, equipment, utilities or service, if any, specified herein to be furnished by the Owner or others), for the construction, sequencing and traffic control plan for overlaying existing asphalt concrete pavement in up to four (4) different locations within the City of Federal Way. The work shall include, but is not limited to: Hot Mix Asphalt (HMA Cl. 1/2" PG 64 -22) pavement overlay (approximately 6,580 tons), roadway excavation, planing bituminous pavement, pavement repair, removal and replacement of curb and gutter, sidewalk, concrete approach, curb ramps, traffic curb, repairing or re-aligning manholes and catch basins, traffic signal detection loops, pedestrian push button, channelization, restoration, utility adjustments, and all items necessary to complete the work as described in the Contract Documents.

**The Contractor shall complete all work within 65 working days.**

The bidder is urged to check the plans and contract provisions carefully.

All bid proposals shall be in accordance with the Instructions to Bidders and all other contract documents now on file in the Purchasing Office of the City of Federal Way. Any questions concerning the description of the work contained in the contract documents must be directed to Jeff Huynh, Street Systems Engineer, by email at [jeff.huynh@cityoffederalway.com](mailto:jeff.huynh@cityoffederalway.com), or by letter addressed to Jeff Huynh, Street Systems Engineer prior to bid opening date.

**BID DOCUMENTS:**

Free-of-charge access to project bid documents (plans, specifications, addenda, and Bidders List) is provided to Prime Bidders, Subcontractors, and Vendors by going to [www.bxwa.com](http://www.bxwa.com) and clicking on "Posted Projects," "Public Works," and "City of Federal Way." This online plan room provides Bidders with fully usable online documents with the ability to: download, view, print, order full/partial plan sets from numerous reprographic sources, and a free online digitizer/take-off tool. It is recommended that Bidders "Register" in order to receive automatic e-mail notification of future addenda and to place themselves on the "Self-Registered Bidders List." Bidders that do not register will not be automatically notified of addenda and will need to periodically check the on-line plan for

addenda issued on this project. Contact Builders Exchange of Washington at (425) 258-1303 should you require assistance with access or registration.

An informational copy of plans, specifications, and addenda are also available for viewing only at the Public Works Department, Federal Way City Hall, 33325 8<sup>th</sup> Avenue South, Federal Way, Washington.

The City, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49 C.F.R., 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. The City encourages minority and women-owned firms to submit bids consistent with the City's policy to insure that such firms are afforded the maximum practicable opportunity to compete for and obtain public contracts.

The Contractor will be required to comply with all local, State, and Federal laws and regulations pertaining to equal employment opportunities.

The City anticipates awarding this project to the successful bidder and intends to give *Notice to Proceed* as soon as the Contract and all required associated documents are executed in full. Regardless of the date of award or *Notice to Proceed*, the Contractor must complete all work under this project by within the specified working days.

**RESERVATION OF RIGHTS:**

The City of Federal Way reserves the right to reject any and all bids, waive any informalities or minor irregularities in the bidding, and determine which bid or bidder meets the criteria set forth in the bid documents. No bidder may withdraw his or her bid after the hour set for the opening thereof unless the award is delayed for a period exceeding thirty (30) days.

Dated the 10th day of January, 2018.

Dates of Publication:

Daily Journal of Commerce: January 13, 2018  
January 20, 2018

Federal Way Mirror: January 12, 2018  
January 19, 2018

## **BIDDER'S CHECKLIST**

The bidder's attention is especially called to the following forms, which must be executed in full as required and submitted as part of the bid. Failure to comply shall result in rejection of any bid not so complying.

**Bid Form (Attachment B)**

The Bid Form shall be completed and fully executed, including filling in the total bid amount.

**Bid Schedule (Attachment C)**

The unit prices shall be set forth in the space provided.

**Bid Signature Page (Attachment D)**

The Bid Signature Page shall be filled in and fully executed by the bidder.

**Bid Bond Form (Attachment E)**

This form is to be executed by the bidder and the surety company unless a certified check is submitted with the bid. The amount of this bond or certified check shall not be less than five percent (5%) of the total bid amount and shall be shown in both words and figures.

**Subcontractor List (Attachment F)**

The Subcontractor List shall be filled in by the bidder. (This section may/may not apply)

**Combined Affidavit and Certification Form (Attachment G)**

This form must be subscribed to and sworn before a Notary Public and notarized.

**Contractor's Compliance Statement (Attachment H)**

The Contractor's Compliance Statement shall be filled in and fully executed by the bidder.

**Contractor Certification Wage Law Compliance (Attachment I)**

The Contractor's Compliance Statement shall be filled in and fully executed by the bidder.

**Contractor's Certificate of Registration**

The bidder shall provide a copy of Contractor's current registration with the State of Washington.

**Contractor's State Identification Numbers**

The bidder shall provide a copy of Contractor's current state unified business identifier number and, as applicable, an employment security department number and state excise tax registration number.

## SUCCESSFUL BIDDER'S CHECKLIST

The following documents are to be executed and delivered to the City within ten (10) calendar days after the Bid is awarded:

**Public Works Contract (Attachment J)**

The successful bidder will fully execute and deliver to the City the 2018 ASPHALT OVERLAY PROJECT Public Works Contract ("Contract") from these Bid Documents.

**Contractor's Retainage Option (Exhibit C)**

The successful bidder will fully execute and deliver to the City the Contractor's Retainage Option.

**Retainage Bond (Exhibit D) – If Applicable**

The successful bidder will fully execute and deliver to the City the Contractor's Retainage Bond) (if applicable)

**Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment (Exhibit E)**

If this applies, the successful bidder will sign and post copies of this Notice in conspicuous places available to employees or applicant for employment.

**Certificate of Insurance (Exhibit F)**

The successful bidder will provide a Certificate of Insurance evidencing the insurance requirement set forth in the Contract.

**Performance/Payment Bond (Exhibit G)**

The successful bidder will provide a fully executed Performance/Payment Bond as appropriate.

**Business License**

The successful bidder will provide a copy of a current Business License with the City of Federal Way.

## **SECTION 1: INSTRUCTIONS TO BIDDERS**

---

### **1-1 Time and Place for Submission and Opening of Bids**

Sealed bids must be submitted by 10:00 a.m. local time on January 31, 2018, to the Purchasing Office of the City of Federal Way (the "City"), located on the second floor of City Hall, or received by US Mail at City of Federal Way, Purchasing Office, 33325 8<sup>th</sup> Avenue S, Federal Way, Washington, 98003-6325, and will be publicly opened and read aloud in City Hall Hylebos Conference Room on January 31, 2018 at 10:10 a.m. local time.

The City's Purchasing Coordinator must receive the sealed bid before the time and date specified in order to be considered. Telex or facsimile bids will not be accepted. The bidder accepts all risks of late delivery of mailed bids or of misdelivery regardless of fault. Late bids will be returned unopened.

If, after reviewing this document the bidder chooses not to submit a bid, the bidder may complete and return the "No Bid Response Form" provided as Attachment "A" by the date and time indicated above.

### **1-2 Bid Form**

Bids shall be made on the "Bid Form" (Attachment "B") issued by the City as part of these contract documents, without reservation or amendment. Bids must be typewritten or printed in ink. Upon completion, the Bid Form and the bid bond or certified check and any requested information shall be placed in a sealed envelope. On the outside of the envelope, place the bid name, bid number and the time bids are due.

### **1-3 Bid Signature**

All bids shall give the total bid price and shall be signed in ink by the bidder or their authorized representative, with the address. If the bid is made by an individual, the name, signature, and address must be shown. If the bid is made by a firm or partnership, the name and address of the firm or partnership and the signature of at least one of the general partners must be shown. If the bid is made by a corporation, the bid shall show the title of the person authorized to sign on behalf of the corporation, his or her title and the address. The City reserves the right to request documentation showing the authority of the individual signing the bid to execute contracts on behalf of anyone, or any entity, other than himself/herself. Refusal to provide such information upon request may cause the bid to be rejected as nonresponsive.

### **1-4 Bid Withdrawal Due to Error**

Bids may not be withdrawn due to a claim of error in a bid unless written notice of such claim and supporting evidence for such claim including cost breakdown sheets are delivered to the City within forty-eight (48) hours prior to the opening of bids.



## **1-5 Modification of Bid**

A modification of a bid already received will be considered only if the modification is received prior to the time announced for bid opening. All modifications shall be made in writing, executed, and submitted in the same form and manner as the original bid.

## **1-6 Examination of Bid and Contract Documents – Bidder Responsibilities**

The submission of a bid shall constitute an acknowledgment upon which the City may rely that the bidder has thoroughly examined and is familiar with the bid and contract documents and has reviewed and inspected all applicable federal, state and local statutes, regulations, ordinances and resolutions dealing with or related to the equipment and/or services to be provided herein. The failure or neglect of a bidder to examine such documents, statutes, regulations, ordinances or resolutions shall in no way relieve the bidder from any obligations with respect to the bidder's bid or the contract documents. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any contract documents, statutes, regulations, ordinances or resolutions. Bidders shall visit delivery and service location(s) as required. Bidders shall become familiar with and verify any environmental factors, which may impact current or future prices for this requirement.

## **1-7 Interpretation of Bid and Contract Documents**

No oral interpretations will be made to any bidder as to the meaning of the bid or contract documents and no oral communications will be binding upon the City. Requests for an interpretation shall be made by email, or by mail, and delivered to the Engineer listed in the Request for Bids at the address indicated in Section 1-1, at least three (3) days before the date announced for opening the bids. Any interpretation deemed necessary by the City will be in the form of an addendum to the bid documents and when issued will be sent as promptly as is practical to all parties to whom the bid documents have been issued. All such addenda shall become part of the bid.

## **1-8 Addenda**

Each bid shall include acknowledgment of receipt and review of all addenda issued during the bidding period on the Bid Form.

## **1-9 Bid Price**

The bid price shall include everything necessary for the completion of the contract including, but not limited to, furnishing all materials, equipment, tools, freight charges, facilities and all management, superintendence, labor and service, except as may be provided otherwise in the contract documents. **All Washington State sales tax and all other government taxes, assessments and charges shall be included in the various Bid item prices as required by law.** The offer shall remain in effect ninety (90) days after the bid opening. In the event of a discrepancy between a unit price and an extended amount and/or the total price, the unit price will govern and the extended amount and/or total price will be corrected accordingly; however, downward correction of a bid, which would displace the apparent low bidder, will only be permitted if the error made and the intended bid price can be determined solely from the bid documents.

## **1-10 Postponement of Bid Opening**

The City reserves the right to postpone the date and time for the opening of bids by announcing such postponement at any time prior to the date and time announced in these documents.

## **1-11 Rejection of Bids**

- A. The City reserves the right to reject any bid for any reason including, but not limited to, the following: any bid which is incomplete, obscure, irregular or lacking necessary detail and specificity; any bid which omits a price on any one or more items on the Bid Form and Bid Schedule; any bid in which prices are unbalanced in the opinion of the City; any bid accompanied by insufficient or irregular bid bond; any bid from bidders who (in the sole judgment of the City) lack the qualifications and/or responsibility necessary to perform the work after considering the elements in Section 1-14.B; any bid for which a bidder fails or neglects to complete and submit any qualifications information within the time specified by the City and as may be otherwise required herein; and, any bid submitted by a bidder who is not registered or licensed as may be required by the laws of the State of Washington.
- B. The city further reserves the right to reject any portion of any bid and/or to reject all bids. In consideration for the City's review and evaluation of its bid, the bidder waives and releases any claims against the City arising from any rejection of any or all bids.

## **1-12 Alterations to Documents Prohibited**

Any addition, limitation or provision attached to the bid may render it informal or nonresponsive and cause its rejection. Alteration by erasure or interlineations must be explained or noted in the bid form over the signature of the bidder. No oral, telegraphic or telephonic bids or modifications will be considered.

## **1-13 Disqualification of Bidder**

If, in the opinion of the City, there is reason to believe that collusion exists among bidders, none of the bids of the participants in such collusion will be considered. All bidders are required to submit the Affidavit of Non-Collusion (Attachment G) with their bids.

## **1-14 Evaluation of Bids**

It is the intent of City to award a contract to the lowest responsive bid by a responsible bidder as evaluated by the City. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria.

- A. Responsiveness – The bidder must complete all required forms and bid documents and provide all required and requested information. Refusal to provide such information may cause the bid to be rejected. The City will consider all the material submitted by the bidder to determine whether the bid is in compliance with the bid terms and documents and responsive to the requested work.
- B. Responsibility – The City will consider all the material submitted by the bidder, and other evidence it may obtain including information from previous project owners, to determine

whether the bidder is responsible. The bidder must meet the following bidder responsibility criteria and supplemental bidder responsibility criteria to be considered a responsible bidder:

1. Mandatory Bidder Responsibility Criteria

- a. 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;
- b. Have a current Washington Unified Business Identifier (UBI) number;
- c. If applicable:
  - i. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - ii. Have a Washington Employment Security Department number, as required in Title 50 RCW;
  - iii. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
- d. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).
- e. Within a three-year period immediately preceding the date of the bid solicitation, the bidder shall not be a willful violator, as defined in RCW 49.48.082, of any provision of Chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

2. Supplemental Bidder Responsibility Criteria

- a. The bidder shall not have a record of excessive claims filed against the retainage, payment, or performance bonds for public works projects during the previous three years, that demonstrate a lack of effective management by the bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances acceptable to the City.
- b. The bidder shall have a reasonable history of successfully completed projects of a similar size and scope as required by the contract documents for this project. The City will evaluate whether the projects were "successfully completed" and of a "similar size and scope."
- c. The bidder shall have evidence that it is able to begin and complete the work, and complete it in a timely fashion.

3. As evidence that the bidder meets the supplemental bidder responsibility criteria in paragraph (B)(2) above, the apparent low bidder must submit the following documentation to the City within 48 hours of the bid opening. The City reserves the right to request such documentation from other bidders also. Refusal to provide such information upon request may cause the bid to be rejected.

- a. The bidder shall submit a list of the public works projects completed within the previous three years and include for each project the following information; the owner and contact information for the owner; a list of claims filed against the retainage, payment, or performance bond for any of the projects listed; a written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

- b. The bidder shall submit a list of projects of similar size and scope to this project and include information about each project, including the following: the owner and contact information for the owner; the awarded contract amount; the final contract amount; a description of the scope of the project and how the project is similar to this project; the bidder's assessment of its performance of each project. The information should include any information regarding performance in the following areas; quality control; safety record; timeliness of performance; use of skilled personnel; management of subcontractors; availability of and use of appropriate equipment; compliance with contract documents; management of submittals process, change orders, and close-out.
  - c. The bidder shall furnish acceptable evidence of the bidder's current ability to perform, such as firm commitments by subcontractors, equipment, supplies and facilities, and the bidder's ability to obtain the necessary personnel.
  - d. Under penalty of perjury, the bidder shall provide certification that the bidder is in compliance with the responsible bidder criteria in section 1-14(B)(2)(d) and referenced wage payment statutes under RCW 39.04.350(1)(g) and (2).
4. If the City determines the bidder does not meet the bidder responsibility criteria in paragraph (B)(2) above and is therefore not a responsible bidder, the City shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the City's determination by presenting additional information to the City and meeting the requirements of section 1-20(B). The City will consider the additional information before issuing its final determination. If the final determination affirms that the bidder is not responsible, the City will not execute a contract with any other bidder until two business days after the bidder determined to be not responsible has received the final determination.

C. Lowest Bid – The lowest bid shall be determined as set forth on the Bid Form.

The acceptance of a bid will be evidenced by a Notice of Award. No other act of the City shall constitute acceptance of a bid. Within ten (10) days after receipt of Notice of Award, the bidder whose bid is accepted, shall furnish the required performance bond, certificate of insurance, execute the contract and perform all other acts required by the bid and contract documents as conditions precedent to formation of the contract.

### **1-15 Procedures When Only One Bid is Received**

In the event only a single responsive bid is received, the City reserves the right to conduct a price and/or cost analysis of such bid. The sole bidder shall provide such information, data and other documentation as deemed necessary by the City for such analysis. The City reserves the right to reject such bid.

### **1-16 Bid Documents**

Bidders are required to submit with the bid package the following:

A. *Attachment A* – No Bid Response Form, if applicable.

B. *Attachment B* – Bid Form.

- C. *Attachment C* – Bid Schedule.
- D. *Attachment D* – Bid Signature Page.
- E. *Attachment E* – Bid Bond Form.
- F. *Attachment F* – Subcontractor List. (May Not Apply)
- G. *Attachment G* – Combined Affidavit and Certification Form.
- H. *Attachment H* – Contractor’s Compliance Statement.
- I. *Attachment I* – Contractor Certification - Wage Law Compliance

**1-17 Conflicts of Interest and Noncompetitive Practices**

By submitting a bid, the Contractor agrees as follows:

- A. Conflict of Interest – That it has no direct or indirect pecuniary or proprietary interest, that it shall not acquire any interest which conflicts in any manner or degree with the work, services, equipment or materials required to be performed and/or provided under this contract and that it shall not employ any person or agent having any such interests. In the event that the Contractor or its agents, employees or representatives hereafter acquires such a conflict of interest, it shall immediately disclose such interest to the City and take action immediately to eliminate the conflict or to withdraw from this contract, as the City may require.
- B. Contingent Fees and Gratuities
  1. That no person or selling agency except bona fide employees or designated agents or representatives of the Contractor have been employed or retained to solicit or secure this contract with an agreement or understanding that a commission, percentage, brokerage, or contingent fee would be paid; and
  2. That no gratuities in the form of entertainment, gifts or otherwise, were offered or given by the Contractor or any of its agents, employees or representatives, to any official, member or employee of the City or other governmental agency with a view toward securing this contract or securing favorable treatment with respect to the awarding or amending, or the making of any determination with respect to the performance of this contract.

**1-18 Bid Security**

No bid will be considered unless accompanied by either a cashier’s or certified check in an amount equal to five percent (5%) of the Total Bid Price as indicated on Attachment B, “Bid Form,” or a bid bond in the form of Attachment E or a letter of credit for a like amount. The check or bond shall be payable to the City; it shall be forfeited as fixed and liquidated damages in case the bidder fails, neglects or refuses to enter into a contract for the faithful performance of said work (including the providing of any evidence of insurance and/or performance bond required herein), in the event the contract is awarded to them, within ten

(10) days after the award is made. If a bid bond is submitted in lieu of a check, it shall be executed by a corporate surety authorized to transact business in the State of Washington and in the form prescribed in Attachment E, "Bid Bond." If a letter of credit is offered in lieu of a check or bidder's bond, it shall be issued as an irrevocable documentary letter of credit drawn on a banking institution licensed to do business in the State of Washington. The letter of credit shall include instruction and provisions prescribed in Attachment E, "Bid Bond." Any questions as to the qualification of the banking institution or instruction shall be submitted to the City at least ten (10) days prior to the bid submittal date. The check, bidder's bond or letter of credit shall be attached to the bid form.

The City further reserves the right to hold all bids (and the accompanying bid security) from the date of the bid opening until the contract and any performance/payment bond are executed, provided that such period does not exceed ninety (90) days, and each bid shall remain effective during that period.

### **1-19 Performance/Payment Bond**

The bidder to whom the City has awarded this Contract will remove the Performance/Payment Bond (Exhibit G) attached to the Public Works Contract and deliver it to the City fully executed by the bidder and a surety company in the amount of one hundred percent (100%) of the contract price as security for the faithful performance of the work including the payment of all persons furnishing materials and performing labor on the work and all payments arising from the performance of the work due the State of Washington pursuant to Titles 50 and 51 RCW. Such bond must be executed by a duly licensed surety company, which is registered with the Washington State Insurance Commissioner, and the surety's name shall appear in the current Authorized Insurance Company List in the State of Washington, published by the Office of the Insurance Commissioner. The scope of the Performance/Payment Bond (Exhibit G) shall in no way affect or alter the liabilities of the Contractor to the City under Section 8 "Indemnification" of the Public Works Contract.

The City may require the surety company to appear and qualify itself upon the bond. If, at any time, the City determines in its sole judgment that the surety company is insufficient, the City may require the Contractor to furnish additional surety in form and arrangement satisfactory to the City and in an amount not exceeding that originally required. The Contractor shall submit a performance bond complying with the requirements of this paragraph within ten (10) days after the award is made. Payments will not be made on the Contract until sufficient surety as required is furnished.

### **1-20 Bid Dispute**

A. Any actual or prospective bidder, including sub-contractors and suppliers showing a substantial economic interest in this contract who is aggrieved in connection with the solicitation or award of this contract, may protest to the City in accordance with the procedures set forth herein. Protests based on the specifications or other terms in the contract documents, which are apparent prior to the date established for submittal of bids, shall be submitted not later than ten (10) calendar days prior to said date, or shall be deemed waived. All other protests shall be accepted only from actual bidders and shall be submitted within five (5) calendar days after the aggrieved person knows or should have known of the facts and circumstances upon which the protest is based; provided, however, that in no event shall a protest be considered if all bids are rejected or after the award of this contract.

- B. In order to be considered, a protest shall be in writing and shall include: (1) the name and address of the aggrieved person; (2) the RFB number and contract title under which the protest is submitted; (3) a detailed description of the specific grounds for protest and any supporting documentation; and (4) the specific ruling or relief requested. The written protest shall be addressed to:

City of Federal Way  
Federal Way, Washington 98003-6325  
Attention: Bid Protest -- 2018 Asphalt Overlay Project RFB# 18-001

- C. Upon receipt of a written protest, the City will promptly consider the protest. The City may give notice of the protest and its basis to other persons, including bidders involved in or affected by the protest; such other persons may be given an opportunity to submit their views and relevant information. If the protest is not resolved by mutual agreement of the aggrieved person and the City, the City will promptly issue a decision in writing stating the reasons for the action taken and informing the aggrieved person of his or her right to appeal the decision to the Mayor or his or her designee. A copy of the decision shall be mailed (by certified mail, return receipt requested) or otherwise promptly furnished to the aggrieved person and any other interested parties who requested a copy of the decision. The decision will be considered final and conclusive unless appealed within five (5) calendar days after receipt of the decision to the Mayor or his or her designee. If the decision is appealed, then the subsequent determination of the Mayor or his or her designee shall issue within five (5) days of the Mayor's receipt of the appeal and shall be final and conclusive.
- D. Failure to comply with these protest procedures will render a protest untimely or inadequate and shall result in rejection thereof by the City.

## **SECTION 2: GENERAL CONTRACTUAL TERMS AND CONDITIONS**

### **2-1 Administration**

This contract will be between the City and the Contractor who will be responsible for delivering all equipment and performing all work and services described herein. The City is not party to defining the division of work between the Contractor and the Contractor's subcontractors, if any, and the specifications have not been written with this intent.

The Contractor represents that it has or will obtain all personnel and equipment required to perform the services hereunder. Such personnel shall not be employees of the City.

The Contractor's performance under this contract will be monitored and reviewed by Jeff Huynh, Street Systems Engineer. Questions by the Contractor regarding interpretation of the terms, provisions and requirements of this contract shall be addressed to Jeff Huynh, Street Systems Engineer, for response.

### **2-2 Proof of Compliance with Contract**

In order that the City may determine whether the Contractor has complied with the requirements of the contract documents, the Contractor shall, at any time when requested,

submit to the City properly authenticated documents or other satisfactory proofs as to the Contractor's compliance with such requirements.

### **2-3 Contract Documents and Precedence**

The documents embodying the legally binding obligations between the City and the Contractor for completion of the work consist of the following: The City's Request for Bid; Bid Form; Bid Signature Page; Instructions to Bidders; Bid Bond; 2018 Asphalt Overlay Project Contract; General Contractual Terms and Conditions; Contractor's Compliance Statement; Combined Affidavit and Certification Form; Technical Specifications; Notice of Completion of Public Works Contract attached as Exhibit A; Contract Change Order Agreement attached as Exhibit B; Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment attached as Exhibit C; Certificate(s) of Insurance Form attached hereto as Exhibit D; Performance/Payment Bond attached hereto as Exhibit E; Title VI Assurances attached as Exhibit F; Addenda and Change Orders; 2018 Asphalt Overlay Project Special Provisions; 2016 WSDOT / APWA Standard Specifications for Road, Bridge and Municipal Construction; Contract Special Provisions; Standard Plans and Details attached as Appendix A; Current Prevailing Wage Rates and Benefit Code Key attached as Appendix B; and all other Appendices attached hereto and incorporated by this reference, (collectively the "Contract Documents").

The contract documents are intended to be complementary so that what is required by any one of them shall be as binding as if called for by all of them. In the event of any conflicting provisions or requirements within the several parts of the contract documents, the City will issue an interpretation regarding the controlling provision, which interpretation shall be binding.

### **2-4 Charges to Contractor**

Charges which are the obligation of the Contractor under the terms of the contract shall be paid by the Contractor to the City on demand and may be deducted by the City from any money due or to become due to the Contractor under the contract and may be recovered by the City from the Contractor or its surety.

### **2-5 Change Orders**

The City may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make any change in the specifications within the scope of this contract. Oral orders will not be binding on the City unless confirmed in writing by the City. Except as provided herein, no order, statement, or conduct of the City will be treated as a change hereunder or will entitle the Contractor to an equitable adjustment.

If any change hereunder causes an increase or decrease in the Contractor's cost of, or time required for, the performance or any part of the work under this contract, an equitable adjustment will be made and the contract modified in writing accordingly. However, no claim will be allowed for any costs incurred more than five (5) days before the Contractor gives written notice as required.

If the Contractor intends to assert a claim for an equitable adjustment hereunder, it shall, within five (5) days after receipt of a written change order form from the City or after giving the City the written notice required above, as the case may be, submit to the City a written



statement setting forth the general nature and monetary extent of such claim; provided the City, in its sole discretion, may extend such five (5) day submittal period upon request by the Contractor. The Contractor shall supply such supporting documents and analysis for the claims as the City may require to determine if the claims and costs have merit.

No claim by the Contractor for an equitable adjustment hereunder will be allowed if asserted after final payment under this contract.

## **2-6 Work and Materials Omitted**

The Contractor shall, when directed in writing by the City, omit work, services and materials to be furnished under the contract and the value of the omitted work and materials will be deducted from the contract price and the delivery schedule will be reviewed if appropriate. The value of the omitted work, services and materials will be a lump sum or unit price, as mutually agreed upon in writing by the Contractor and the City. If the parties cannot agree on an appropriate deduction, the City reserves the right to issue a unilateral change order adjusting the price and the delivery schedule.

## **2-7 Washington State Sales Tax**

The Contractor shall make payment directly to the State for all applicable Washington State sales taxes and all other governmental taxes, assessments and charges.

## **2-8 Shipping Charges**

All prices shall include freight. Requests for additional compensation for freight charges will be rejected by the City.

## **2-9 Warranty**

All materials and equipment sold and labor performed under this contract are warranted by the Contractor to be free from defects in materials or workmanship for a period of at least one (1) year from date of delivery and installation; provided, however, that this warranty may extend beyond this time period pursuant to any attached warranties. If the merchandise sold or work performed hereunder is defective on account of workmanship or materials, the Contractor agrees to replace the merchandise or, at the City's sole option, repair the defective merchandise. All defects in work or materials shall be promptly corrected.

## **2-10 No Waiver of Warranties and Contract Rights**

Conducting of tests and inspections, review of specifications or plans, payment for goods or services, or acceptance by the City does not constitute a waiver, modification or exclusion of any express or implied warranty or any right under this contract or in law.

## **2-11 Legal Relations**

The Contractor shall comply with all of the City's resolutions and regulations applicable under this contract and with any local, state or federal law or regulation applicable to the materials, equipment or service provided under this contract. Neither the Contractor nor the City shall assign any interest, obligation or benefit under or in this contract or transfer any

interest in the same, whether by assignment or novation, without prior written consent of the other party. This contract shall be binding upon and inure to the benefit of the successors of the parties.

## **2-12 Applicable Law and Forum**

Except as hereinafter specifically provided, this contract shall be governed by and construed according to the laws of the State of Washington including, but not limited to, the Uniform Commercial Code, Title 62A RCW. Any suit arising herefrom shall be brought in King County Superior Court, which shall have sole and exclusive jurisdiction and venue.

## **2-13 Hazardous Chemical Communication**

In order to comply with WAC 296-62-054, Hazard Communication, the Contractor shall submit with each shipment a Material Safety Data Sheet (MSDS) for all products containing any toxic products that may be harmful to the end user. The MSDS Sheet is to accompany the toxic product(s) to the specified delivery sites.

Include the following information in the MSDS:

- A. Chemical Abstract Service (CAS) numbers for every chemical that is listed in the MSDS.
- B. If the product is actually used diluted, the dilution rate should be so stated in the MSDS and the hazards and corresponding personal protection, etc., also be listed.
- C. A statement as to the intended use of the product.

## **2-14 Delivery and Liquidated Damages**

Time is of the essence of the contract and each and all of its provisions in which performance is a factor. The Contractor will be held to strict compliance with the prescribed date(s) set forth in these contract documents. For each and every day that delivery is delayed beyond the specific date(s), damage will be sustained by the City. Because of the difficulty in computing the actual damages and disadvantages to the City, and as a reasonable forecast of actual damages which the City will suffer by the delay in delivery, the parties agree that for each such delay the Contractor will pay the City liquidated damages (and not as a penalty) in accordance with Section 1.3 of Attachment I, Public Works Contract, to compensate for any damages caused by such delay. The City may deduct from any payment owing to the Contractor, any liquidated damages, which may be incurred by the Contractor pursuant to this paragraph.

## **2-15 Force Majeure**

The Contractor's or City's failure to perform any of its obligations under this contract shall be excused if due to causes beyond the control and without the fault or negligence of the Contractor or City, respectively, including, but not restricted to, acts of God, acts of public enemy, acts of any government, fire, floods, epidemics, and strikes.

## **2-16 Patents, Copyrights and Rights in Data**

Any patentable result or material suitable for copyright arising out of this contract shall be owned by and made available to the City for public use, unless the City shall, in a specific case where it is legally permissible, determine that it is in the public interest that it not be so owned or available.

The Contractor agrees that the ownership of any plans, drawings, designs, specifications, computer programs, technical reports, operating manuals, calculations, notes and other work submitted or which is specified to be delivered under this contract, whether or not complete (referred to in this subsection as "Subject Data"), shall be vested in the City or such other local, state or federal agency, if any, as may be provided by separate contract with the City.

All such Subject Data furnished by the Contractor pursuant to this contract, other than documents exclusively for internal use by the City, shall carry such notations on the front cover or a title page (or in such case of maps, in the same block) as may be requested by the City. The Contractor shall also place their endorsement on all Subject Data furnished by them. All such identification details shall be subject to approval by the City prior to printing.

The Contractor shall ensure that substantially the foregoing paragraphs are included in each subcontract for the work on the project.

## **2-17 Patents and Royalties**

The costs involved in license fees, royalties or in defending claims for any patented invention, article, process or method that may be used in or connected with the work under this contract or with the use of complete work by the City, shall be paid by the Contractor. The Contractor and the Contractor's sureties shall, at their own cost, defend, indemnify and hold the City, together with its officers and employees, harmless against any and all demands made for such fees, royalties or claims brought or made by the holder of any invention or patent. Before final payment is made on the account of this contract, the Contractor shall, if requested by the City, furnish acceptable proof of a proper release of the City, its officers, agents and employees from all such fees or claims.

Should the Contractor, its agent, servants or employees, or any of them be enjoined from furnishing or using any invention, article, material, computer programs or equipment supplied or required to be supplied or used under the contract, the Contractor shall promptly substitute other articles, materials, computer programs or equipment in lieu thereof of equal efficiency, quality, finish, suitability and market value, and satisfactory in all respects to the City.

## **2-18 Disagreements, Disputes, Claims, and Appeals**

If any disagreements occur with anything required in a change order, another written order, or an oral order from the Project Engineer, including any direction, instruction, interpretation, or determination by the Project Engineer, the Contractor shall follow the procedures outlined in Standard Specification Sections 1-04.5 and 1-09.11, which are incorporated by this reference.

By failing to follow the procedures of Sections 1-04.5 and 1-09.11, the Contractor completely waives any claims for protested Work.

Any claims or causes of action shall be brought only in the Superior Court for King County, Washington.

## **2-19 Recycled Products**

The Contractor shall use recycled paper for proposals and for any printed or photocopied material created pursuant to a contract with the City whenever practicable and use both sides of paper sheets for reports submitted to the City whenever practicable.

In the event this RFB covers the sale of product to the City that is capable of containing recycled materials, Contractor is hereby advised that the City intends to procure products with recycled content, pursuant to the recycled content notice delivered with these bid documents. Contractor shall certify the percentage of recycled content and products sold to the City, including a percentage of post-consumer waste that is in the product. This certification is required to be in the form of a label on the product or a statement by the Contractor attached to the bid documents. The certification on multi-component or multi-material products shall verify the percentage and type of post-consumer waste and recycled content by volume contained in the major constituents of the product. The Contractor agrees to grant the City, as a procuring agency, permission to verify the certification of recycled content by review of the bidder's or manufacturer's records as a condition of any bid award, in the event of a bidder's protest, or other challenge to the bid accepted.

**Attachment A**

**NO BID RESPONSE FORM**

When submitting a "No Bid," mail this completed form to Federal Way Purchasing, 33325 8th Avenue South, Federal Way, Washington 98003-6325. Be sure the form is in a sealed envelope with the bid number and bid title indicated on the outside of the envelope. The form must be received by the date and time specified for the bid opening as indicated in Section 1-1. Failure to return this form if not submitting a formal bid, may result in your firm being removed from the City's master bidder's mailing list.

**Bid Number:**            **RFB No. 18-001**

**Bid Title:**             **2018 Asphalt Overlay Project**

- Cannot comply with specifications.
- Cannot meet delivery requirement.
- Do not regularly manufacture or sell the type of commodity involved.
- Other (please specify).

**Explanation of reason(s) checked:**

**Check one of the following:**

- WE DO
- WE DO NOT desire to be retained on the mailing list for future procurements of this commodity.

**Firm Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_                      **Phone:** \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name (Type or Print)

\_\_\_\_\_  
Title

**Attachment B**

**BID FORM**

**CITY OF FEDERAL WAY**

**2018 ASPHALT OVERLAY PROJECT**

**BID FORM**

Bidder: \_\_\_\_\_

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

<b>ITEM</b>	<b>BID AMOUNT</b>
A) Schedule A – S 312 <sup>th</sup> St	\$
B) Schedule B – 23 <sup>rd</sup> Ave S	\$
C) Schedule C – Weyerhaeuser Way S Pavement Repair	\$
D) Schedule D – S 328 <sup>th</sup> St Pavement Repair	\$
<b>TOTAL BID AMOUNT</b> (including Washington State sales tax, all other government taxes, assessments and charges)	\$

To City Council Members  
 City of Federal Way  
 33325 8th Ave South  
 Federal Way, Washington 98003-6325

Pursuant to and in compliance with your advertisement for bids for construction of 2018 Asphalt Overlay Project, and other documents relating thereto, the undersigned has carefully examined all of the bid and contract documents as the premises and conditions affecting the delivery, supply and maintenance of 2018 Asphalt Overlay Project, and hereby proposes to furnish all labor, materials and perform all work as required in strict accordance with the contract documents, for the above-referenced amount, **inclusive of Washington State sales tax** and all other government taxes, assessments and charges as required by law.

The required bid security consisting of a certified check, bid bond, or cashier's check in an amount of not less than five percent (5%) of the total amount bid is attached hereto, which it is agreed shall be collected and retained by the City as liquidated damages in the event this bid is accepted by the City within forty-five (45) calendar days after the day of the bid opening and the undersigned fails to execute the 2018 Asphalt Overlay Project Public Works Contract and to provide the required certificate of insurance to the City, under the conditions thereof, within ten (10) calendar days after the Notice of Award; otherwise said Bid Security will be returned to the undersigned.

Bond or Certified Check \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

The Bidder shall complete this entire Bid Form or this bid may be considered non-responsive. The City may correct obvious mathematical errors.

The City of Federal Way reserves the right to reject any and all bids, waive any informalities or minor irregularities in the bidding, and determine which bid or bidder meets the criteria set forth in the bid documents.

Receipt of the following Addendums is hereby acknowledged:

Addendum No. \_\_\_\_\_ Date Issued: \_\_\_\_\_

Addendum No. \_\_\_\_\_ Date Issued: \_\_\_\_\_

Addendum No. \_\_\_\_\_ Date Issued: \_\_\_\_\_

\_\_\_\_\_  
Corporation/Partnership/Individual  
*(Delete Two)*

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Bidder's State License No.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Bidder's State Tax No.

\_\_\_\_\_  
Title

**ATTACHMENT C**

**CITY OF FEDERAL WAY  
2018 ASPHALT OVERLAY PROJECT**

**BID SCHEDULE**

NOTE: Unit Prices for all items, all extensions, and the total amount of the bid must be shown. Show unit prices in legible figures. Where conflict occurs between the unit price and the total amount named for any item, the unit price shall prevail, and the totals shall be corrected to conform thereto.

**SCHEDULE A - S 312TH ST (PACIFIC HWY S TO 28TH AVE S)**

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	1,100	HR	\$52.00	\$57,200.00
3	1-10	Other Traffic Control Labor	100	HR	\$52.00	\$5,200.00
4	1-10	Off Duty Uniformed Police Officer	288	HR	\$75.00	\$21,600.00
5	1-10	Portable Changeable Message Sign	32	DAY		
6	2-01	Roadside Cleanup	1	FA	\$3,000.00	\$3,000.00
7	2-02	Asphalt/Cement Concrete Sawcutting	10,568	LF		
8	2-03	Roadway Excavation Incl. Haul	350	CY		
9	4-04	CSTC for Pavement Repair & Roadway Widening, Incl. Haul	200	TN		
10	4-04	Maintenance Rock for Shoulder Reconstruction, Incl. Haul	55	TN		
11	5-04	Planing Bituminous Pavement	8,472	SY		
12	5-04	HMA Class 1/2" PG 64-22	3,096	TN		
13	5-04	HMA Class 1/2" PG 64-22 for Pavement Repair & Roadway Widening	700	TN		
14	7-05	Adjust Manhole	9	EA		
15	7-05	Adjust Catch Basin	10	EA		
16	7-05	Install Conversion Riser for Type I Catch Basin	3	EA		
17	7-05	Repair or Rebuild Manhole	2	EA		
18	7-05	Adjust Existing Utility to Grade	1	EA		
19	8-02	Sod Lawn, Incl. 4 In Topsoil	20	SY		
20	8-04	Cement Conc. Curb and Gutter	26	LF		
21	8-07	Precast Sloped Mountable Curb	5	LF		
22	8-07	Precast Dual Faced Sloped Mountable Curb	115	LF		
23	8-09	Raised Pavement Marker, Type 2	6.4	HUND		



24	8-09	Hydrant Marker, Type 2B	8	EA		
25	8-13	Adjust Monument Case & Cover	3	EA		
26	8-14	Cement Conc. Sidewalk	80	SY		
27	8-14	Cement Conc. Curb Ramp Type 1 Parallel	5	EA		
28	8-14	Cement Conc. Curb Ramp Type 2 Parallel	2	EA		
29	8-14	Cement Conc. Curb Ramp Type 1 Perpendicular	9	EA		
30	8-14	MMA-Style Truncated Dome Detectable Warning Surface	10	SF		
31	8-20	Pedestrian Push Button	2	EA		
32	8-22	Detector Loop	43	EA		
33	8-22	R3-9A and R3-9B L Sign and Post	2	EA		
34	8-22	Painted Traffic Arrow	3	EA		
35	8-22	Painted Bike Symbol	5	EA		
36	8-22	Plastic Shared Lane Marking	28	EA		
37	8-22	Profiled Plastic Line	14,220	LF		
38	8-22	Plastic Edge Line	2,914	LF		
39	8-22	Profiled Plastic Wide Line	1,071	LF		
40	8-22	Profiled Plastic Dotted Wide Line	300	LF		
41	8-22	Plastic Crosswalk Line	1,290	LF		
42	8-22	Plastic Stop Line	177	LF		
43	9-29	Plastic Traffic Arrow	26	EA		

**SUBTOTAL SCHEDULE A** \_\_\_\_\_

**SCHEDULE B - 23RD AVE S (S 312TH ST TO S 319TH PL)**

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	670	HR	\$52.00	\$34,840.00
3	1-10	Other Traffic Control Labor	50	HR	\$52.00	\$2,600.00
4	1-10	Off Duty Uniformed Police Officer	144	HR	\$75.00	\$10,800.00
5	1-10	Portable Changeable Message Sign	52	DAY		
6	2-01	Roadside Cleanup	1	FA	\$4,000.00	\$4,000.00

7	2-02	Asphalt/Cement Conc. Sawcutting	5,000	LF		
8	2-03	Roadway Excavation Incl. Haul	215	CY		
9	2-12	Construction Geosynthetic for Separation	1,000	SY		
10	4-04	CSTC for Pavement Repair & Roadway Widening, Incl. Haul	200	TN		
11	5-04	Planing Bituminous Pavement	7,198	SY		
12	5-04	HMA Class 1/2" PG 64-22	1,730	TN		
13	5-04	HMA Class 1/2" PG 64-22 for Pavement Repair & Roadway Widening	440	TN		
14	7-05	Adjust Manhole	4	EA		
15	7-05	Adjust Catch Basin	3	EA		
16	7-05	Install Conversion Riser for Type I Catch Basin	1	EA		
17	8-02	Sod Lawn, Incl. 4 In Topsoil	3	SY		
18	8-13	Adjust Monument Case & Cover	1	EA		
19	8-04	Cement Conc. Curb and Gutter	13	LF		
20	8-09	Raised Pavement Marker, Type 2	3.4	HUND		
21	8-09	Hydrant Marker, Type 2B	3	EA		
22	8-14	Cement Conc. Sidewalk	18	SY		
23	8-14	Cement Conc. Curb Ramp Type 1 Parallel	1	EA		
24	8-14	Cement Conc. Curb Ramp Type 1 Perpendicular	5	EA		
25	8-14	MMA-Style Truncated Dome Detectable Warning Surface	202	SF		
26	8-20	Detector Loop	60	EA		
27	8-22	Painted Bike Lane Arrow	12	EA		
28	8-22	Painted Bike Symbol	12	EA		
29	8-22	Profiled Plastic Line	5,949	LF		
30	8-22	Plastic Edge Line	2,968	LF		
31	8-22	Profiled Plastic Wide Line	884	LF		
32	8-22	Plastic Crosswalk Line	1,180	LF		
33	8-22	Plastic Stop Line	212	LF		
34	8-22	Plastic Traffic Arrow	23	EA		

**SUBTOTAL SCHEDULE B** \_\_\_\_\_

**SCHEDULE C - WEYERHAEUSER WAY S PAVEMENT REPAIR**

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	360	HR	\$52.00	\$18,720.00
3	1-10	Other Traffic Control Labor	20	HR	\$52.00	\$1,040.00
4	1-10	Off Duty Uniformed Police Officer	64	HR	\$75.00	\$4,800.00
5	1-10	Portable Changeable Message Sign	12	DAY		
6	2-02	Asphalt/Cement Conc. Sawcutting	5,654	LF		
7	2-03	Roadway Excavation Incl. Haul	235	CY		
8	2-12	Construction Geosynthetic for Separation	1,000	SY		
9	4-04	CSTC for Pavement Repair & Roadway Widening, Incl. Haul	150	TN		
10	5-04	HMA Class 1/2" PG 64-22 for Pavement Repair & Roadway Widening	405	TN		
11	8-09	Raised Pavement Marker, Type 2	1	HUND		
12	8-22	Profiled Plastic Line	1,000	LF		
13	8-22	Plastic Edge Line	1,300	LF		
14	8-22	Plastic Crosswalk Line	100	LF		
15	8-22	Plastic Stop Line	60	LF		
16	8-22	Plastic Traffic Arrow	3	EA		

**SUBTOTAL SCHEDULE C** \_\_\_\_\_

**SCHEDULE D - S 328TH ST PAVEMENT REPAIR**

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Traffic Control Labor	120	HR	\$52.00	\$6,240.00
3	1-10	Other Traffic Control Labor	6	HR	\$52.00	\$312.00
4	1-10	Portable Changeable Message Sign	6	DAY		
5	2-02	Asphalt/Cement Conc. Sawcutting	1,338	LF		
6	2-03	Roadway Excavation Incl. Haul	45	CY		
7	2-12	Construction Geosynthetic for Separation	50	SY		

8	4-04	CSTC for Pavement Repair & Roadway Widening, Incl. Haul	30	TN		
9	5-04	HMA Class 1/2" PG 64-22 for Pavement Repair & Roadway Widening	90	TN		
10	8-09	Raised Pavement Marker, Type 2	0.25	HUND		
11	8-09	Hydrant Marker, Type 2B	2	EA		
12	8-22	Paint Line	1,050	LF		

**SUBTOTAL SCHEDULE D** \_\_\_\_\_

**Attachment D**

**BID SIGNATURE PAGE**

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

The undersigned bidder hereby proposes and agrees to deliver the equipment and/or services pursuant to the 2018 Asphalt Overlay Project and comply with all other terms and conditions of the contract and bid documents of RFB 18-001.

No bidder may withdraw his/her bid for a period of ninety (90) days after the day of bid opening.

The required bid security consisting of a certified check, bid bond, or cashier's check in an amount of not less than five percent (5%) of the total amount will be delivered to the City.

The undersigned individual represents and warrants that he or she is dully authorized to execute the bid and all bid documents on behalf of any partnership, joint venture or corporation.

\_\_\_\_\_  
Corporation/Partnership/Individual  
(Delete Two)

\_\_\_\_\_  
Company

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

Its: \_\_\_\_\_  
(Title)

\_\_\_\_\_  
\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Telephone Number)

**Attachment E**

**BID BOND FORM**

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

**BID BOND**

KNOW ALL PERSONS BY THESE PRESENTS that we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto the City of Federal Way, as Obligee, in the penal sum of \_\_\_\_\_ and \_\_\_/100 dollars (\$ \_\_\_\_\_), for the payment of which the Principal and the Surety bond themselves, their heirs and 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:

**2018 ASPHALT OVERLAY PROJECT**

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

SIGNED, SEALED AND DATED THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Surety

Date: \_\_\_\_\_, 20\_\_.

Received return of deposit in the sum of \$ \_\_\_\_\_.

**Attachment F**

**SUBCONTRACTOR LIST**

Prepared in Compliance with RCW 39.30.060

**2018 ASPHALT OVERLAY PROJECT**

Failure to list subcontractors who are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW, or identify the bidder for the work will result in your bid being non-responsive and therefore void.

Subcontractors that are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW, must be named below, or name the bidder for the work.

The bidder verifies that each first tier subcontractor, and every subcontractor of any tier that hires other subcontractors, has a current certificate of registration in compliance with chapter 18.27 RCW; a current Washington Unified Business Identifier (UBI) number; has Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW, if applicable; has a Washington Employment Security Department number, as required in Title 50 RCW, if applicable; has a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW, if applicable; has an electrical contractor license, if required by Chapter 19.28 RCW, if applicable; has an elevator contractor license, if required by Chapter 70.87 RCW.

The following listed bid items (listed in numerical sequence) for this project have been proposed for subcontracting to subcontractors as indicated.

<b>SUBCONTRACTOR NAME</b>	<b>ITEM NUMBERS</b>	<b>ESTIMATED AMOUNT</b>	<b>WMBE QUALIFIED? (Y/N)</b>

**Attachment G**

City of Federal Way  
**COMBINED AFFIDAVIT AND CERTIFICATION FORM**

Non-Collusion, Anti-Trust, Prevailing Wage (Non-Federal Aid),  
Debarment, Eligibility, and Certification of Lawful Employment

**NON-COLLUSION AFFIDAVIT**

Being first duly sworn, deposes and says, that he/she is the identical person who submitted the foregoing proposal or bid, and that such bid is genuine and not sham or collusive or made in the interest or on behalf of any person not therein named, and further, that the deponent has not directly induced or solicited any other Bidder on the foregoing work equipment to put in a sham bid, or any other person or corporation to refrain from bidding, and that deponent has not in any manner sought by collusion to secure to himself/herself or to any other person any advantage over other Bidder or Bidders; and

**NOTICE TO ALL BIDDERS ON PROJECTS INVOLVING  
THE U.S. DEPARTMENT OF TRANSPORTATION (USDOT)**

To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (USDOT) operates the above toll-free hotline Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the hotline to report such activities. The hotline is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected; and

**CERTIFICATION RE: ASSIGNMENT OF ANTI-TRUST CLAIMS TO PURCHASER**

Vendor and purchaser recognize that in actual economic practice, overcharges resulting from anti-trust violations are, in fact, usually borne by the purchaser. Therefore, vendor hereby assigns to purchaser any and all claims for such overcharges as to goods and materials purchased in connection with this order or contract, except as to overcharges resulting from anti-trust violations commencing after the date of the bid, quotation, or other event establishing the price under this order or contract. In addition, vendor warrants and represents that each of his suppliers and subcontractors shall assign any and all such claims to purchaser, subject to the aforementioned exception; and

**PREVAILING WAGE AFFADAVIT**

I, the undersigned, having duly sworn, deposed say and certify that in connection with the performance of the work of this project, will pay each classification of laborer, work person, or mechanic employed in the performance of such work, not less than the prevailing rate of wage or not less than the minimum rate of wage as specified in the principal contract; that I have read the above and forgoing statement and certificate, know the contents thereof and the substance as set forth therein, is true to my knowledge and belief; and



**DEBARMENT AFFIDAVIT**

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

**AFFIDAVIT OF ELIGIBILITY**

The Contractor certifies that it is properly licensed and registered under the laws of the State of Washington and has not been determined to have been in violation of RCW 50.12.070(1)(b), RCW 51.16.070(1)(b), or RCW 82.32.070(2) within the last two years. The Contractor further certifies that it has not been determined, within the last one year, to have committed any combination of two of the following violations or infractions within a five-year period: (1) Violated RCW 51.48.020(1) or 51.48.103; or (2) Committed an infraction or violation under chapter 18.27 RCW.

**CERTIFICATION OF LAWFUL EMPLOYMENT**

The contractor hereby certifies that it has complied with all provisions of the Immigration and Nationality Act, now or as herein after amended, 8 USC Section 1101 et. seq., and that all employees, including subcontractor employees, are lawfully permitted to perform work in the United States as provided in this agreement with the City of Federal Way.

FOR: Non-Collusion Affidavit, Assignment of Anti-Trust Claims to Purchaser, Prevailing Wage Affidavit, Debarment Affidavit, Affidavit Of Eligibility, and Certification of Lawful Employment.

**2018 Asphalt Overlay Project**

Name of Bidder's Firm

\_\_\_\_\_  
Signature of Authorized Representative of Bidder

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 201\_.

\_\_\_\_\_  
\_\_\_\_\_  
(printed/typed name of notary)  
Notary Public in and for the State of Washington  
My commission expires: \_\_\_\_\_

**Attachment H**

**CONTRACTOR'S COMPLIANCE STATEMENT**  
(President's Executive Order #11246)

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

This statement relates to a proposal contract with the City of Federal Way named

**2018 ASPHALT OVERLAY PROJECT**

I am the undersigned bidder or prospective contractor. I represent that:

I  have,  have not, participated in a previous contract or subcontract subject to the President's Executive Order #11246 (regarding equal employment opportunity) or a preceding similar Executive Order.

\_\_\_\_\_  
Name of Bidder

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

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

\_\_\_\_\_  
\_\_\_\_\_  
Address

***Attachment I***



**Washington State  
Department of Transportation**

**Contractor Certification  
Wage Law Compliance - Responsibility Criteria  
Washington State Public Works Contracts**

**FAILURE TO RETURN THIS CERTIFICATION AS PART OF THE BID PROPOSAL PACKAGE WILL  
MAKE THIS BID NONRESPONSIVE AND INELIGIBLE FOR AWARD**

I hereby certify, under penalty of perjury under the laws of the State of Washington, on behalf of the firm identified below that, to the best of my knowledge and belief, this firm has **NOT** been determined by a final and binding citation and notice of assessment issued by the Washington State Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the Call for Bids.

**Bidder Name:** \_\_\_\_\_  
Name of Contractor/Bidder - Print full legal entity name of firm

**By:** \_\_\_\_\_  
Signature of authorized person

\_\_\_\_\_  
Print Name of person making certifications for firm

**Title:** \_\_\_\_\_  
Title of person signing certificate

**Place:** \_\_\_\_\_  
Print city and state where signed

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

Form 272-009  
08/2017

**Attachment J**

**PUBLIC WORKS CONTRACT  
FOR  
2018 ASPHALT OVERLAY PROJECT**

THIS PUBLIC WORKS CONTRACT ("Contract") is dated effective this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ and is made by and between the City of Federal Way, a Washington municipal corporation ("City or Owner"), and \_\_\_\_\_, a \_\_\_\_\_ ("Contractor").

A. The City desires to retain an independent contractor to furnish all labor and materials necessary to perform work necessary to complete the 2018 Asphalt Overlay Project located at \_\_\_\_\_, Federal Way, Washington ("Property"); and

B. The Contractor has the requisite skill and experience to perform such work.

NOW, THEREFORE, the parties ("Parties") agree to the following terms and conditions:

**1. SERVICES BY CONTRACTOR**

1.1 Description of Work. Contractor shall perform all work and furnish all tools, materials, supplies, equipment, labor and other items incidental thereto necessary for the construction and completion of the work, more particularly described as the 2018 Asphalt Overlay Project, including without limitation: overlay existing asphalt concrete pavement in up to four (4) different locations within the City of Federal Way (approximately 6,580 tons), roadway excavation, planing bituminous pavement, pavement repair, removal and replacement of curb and gutter, sidewalk, concrete approach, curb ramps, traffic curb, installation of traffic signal detection loop, channelization, restoration, utility adjustments work, ("Work"), in accordance with and as described in the Contract Documents, which include without limitation: The City's Request for Bid; Bid Form; Bid Signature Page; Instructions to Bidders; Bid Bond; 2018 Asphalt Overlay Project Contract; General Contractual Terms and Conditions; Contractor's Compliance Statement; Combined Affidavit and Certification Form; Technical Specifications; Notice of Completion of Public Works Contract attached as Exhibit A; Contract Change Order Agreement attached as Exhibit B; Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment attached as Exhibit C; Certificate(s) of Insurance Form attached hereto as Exhibit D; Performance/Payment Bond attached hereto as Exhibit E; Title VI Assurances attached as Exhibit F; Addenda and Change Orders; 2018 Asphalt Overlay Project Special Provisions; 2016 WSDOT / APWA Standard Specifications for Road, Bridge and Municipal Construction; Contract Special Provisions; Standard Plans and Details attached as Appendix A; Current Prevailing Wage Rates and Benefit Code Key attached as Appendix B; and all other Appendices attached hereto and incorporated by this reference, (collectively the "Contract Documents"), which Work shall be completed to the City's satisfaction, within the time period prescribed by the City and pursuant to the direction of the Mayor or his or her designee.

1.2 Completion Date. The Work shall be commenced within five (5) days of receipt by the Contractor of the City's Notice to Proceed. The Work shall be completed on **65 working days**. In the event the Work is not substantially completed within the time specified, Contractor agrees to pay to the City liquidated damages in the amount set forth in the formula included in Section 1.3 of this Contract. The Work shall not be deemed completed until the City has accepted the Work and

delivered a written Notice of Completion of Public Works Contract in the form attached hereto as Exhibit "A."

1.3 Liquidated Damages. Time is of the essence of the Contract. Delays inconvenience the public and cost taxpayers undue sums of money, adding time needed for administration, inspection, and supervision. It is impractical for the City to calculate the actual cost of delays. Accordingly, the Contractor agrees to pay liquidated damages calculated on the following formula for its failure to complete this Contract on time:

- (1) To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for completion, and
- (2) To authorize the City to deduct these liquidated damages from any money due or coming due to the Contractor.

### **LIQUIDATED DAMAGES FORMULA**

$$LD = \frac{0.15C}{T}$$

Where: LD = Liquidated damages per working day (rounded to the nearest dollar).  
C = Original Contract amount.  
T = Original time for completion.

When the Work is completed to the extent that the City has full and unrestricted use and benefit of the facilities, both from an operational and safety standpoint, the City may determine the Work is complete. Liquidated damages will not be assessed for any days for which an extension of time is granted. No deduction or payment of liquidated damages will, in any degree, release the Contractor from further obligations and liabilities to complete this entire Contract.

1.4 Performance Standard. Contractor shall perform the Work in a manner consistent with accepted practices for other properly licensed contractors.

1.5 Compliance with Laws. Contractor shall perform the Work in accordance with all applicable federal, state and City laws, including but not limited to all City ordinances, resolutions, standards or policies, as now existing or hereafter adopted or amended, and obtain all necessary permits and pay all permit, inspection or other fees, at its sole cost and expense.

1.6 Change Orders. The City may, at any time, without notice to sureties, order changes within the scope of the Work. Contractor agrees to fully perform any such alterations or additions to the Work. All such change orders shall be in the form of the Contract Change Order Agreement attached hereto as Exhibit "B," which shall be signed by both the Contractor and the City, shall specifically state the change of the Work, the completion date for such changed Work, and any increase or decrease in the compensation to be paid to Contractor as a result of such change in the Work. Oral change orders shall not be binding upon the City unless confirmed in writing by the City. If any change hereunder causes an increases or decrease in the Contractor's cost of, or time required for, the performance or any part of the Work under this Contract, an equitable adjustment will be made and the Contract modified in writing accordingly.

If the Contractor intends to assert a claim for an equitable adjustment hereunder, it shall, within five (5) days after receipt of a written change order from the City or after giving the written

notice required above, as the case may be, submit to the City a written statement setting forth the general nature and monetary extent of such claim; provided the City, in its sole discretion, may extend such five (5) day submittal period upon request by the Contractor. The Contractor shall supply such supporting documents and analysis for the claims as the City may require to determine if the claims and costs have merit. No claim will be allowed for any costs incurred more than five (5) days before the Contractor gives written notice as required. No claim by the Contractor for an equitable adjustment hereunder will be allowed if asserted after final payment under this Contract.

1.7 Work and Materials Omitted. The Contractor shall, when directed in writing by the City, omit work, services and materials to be furnished under the Contract and the value of the omitted work and materials will be deducted from the Total Compensation and the delivery schedule will be reviewed if appropriate. The value of the omitted work, services and materials will be a lump sum or unit price, as mutually agreed upon in writing by the Contractor and the City. If the parties cannot agree on an appropriate deduction, the City reserves the right to issue a unilateral change order adjusting the price and the delivery schedule.

1.8 Utility Location. Contractor is responsible for locating any underground utilities affected by the Work and is deemed to be an excavator for purposes of Chapter 19.122 RCW, as amended. Contractor shall be responsible for compliance with Chapter 19.122 RCW, including utilization of the "one call" locator system before commencing any excavation activities.

1.9 Air Environment. Contractor shall fully cover any and all loads of loose construction materials including without limitation, sand, dirt, gravel, asphalt, excavated materials, construction debris, etc., to protect said materials from air exposure and to minimize emission of airborne particles to the ambient air environment within the City of Federal Way.

## **2. TERM**

This Contract shall commence on the effective date of this Contract and continue until the completion of the Work, which shall be no later than October 31, 2018 to complete, and the expiration of all warranties contained in the Contract Documents ("Term").

## **3. WARRANTY**

3.1 Requisite Skill. The Contractor warrants that it has the requisite skill to complete the Work, and is appropriately accredited and licensed by all applicable agencies and governmental entities, including but not limited to being registered to do business in the City of Federal Way by obtaining a City of Federal Way business registration. Contractor represents that it has visited the site and is familiar with all of the plans and specifications in connection with the completion of the Work.

3.2 Defective Work. The Contractor shall, at its sole cost and expense, correct all Work which the City deems to have defects in workmanship and material discovered within one (1) year after the City's final acceptance of the Work as more fully set forth in the General Conditions of the Contract. This warranty shall survive termination of this Contract. Conducting of tests and inspections, review of specifications or plans, payment for goods or services, or acceptance by the City does not constitute waiver, modification or exclusion of any express or implied warranty or any right under this Contract or law.

#### **4. COMPENSATION**

4.1 Total Compensation. In consideration of the Contractor performing the Work, the City agrees to pay the Contractor in accordance with the Bid Schedule, which shall constitute full and complete payment by the City ("Total Compensation").

4.2 Contractor Responsible for Taxes. The Contractor shall be solely responsible for the payment of any taxes imposed by any lawful jurisdiction as a result of the performance and payment of this Contract.

4.3 Nonpayment. The City shall have the right to withhold payment to the Contractor for any of the Work not completed in a satisfactory manner, in the City's sole discretion, which shall be withheld until such time as Contractor modifies or repairs the Work so that the Work is acceptable to the City.

4.4 Method of Payment. The basis of payment will be the actual quantities of work performed according to the contract and as specified for payment. Payments will be made for work and labor performed and materials furnished under the contract according to the price in the proposal unless otherwise provided. Partial payments will be made once each month, based on partial estimates prepared by the Engineer and signed by the Contractor. Failure to perform any obligation under this Contract may be adequate reason for the City to withhold payments until the obligation is performed.

Upon completion of all work and after final inspection, the amount due the Contractor under the contract will be paid based upon the final estimate made by the Engineer and signed by the Contractor.

Payment to the Contractor for partial estimates, final estimates, and retained percentages shall be subject to controlling laws.

4.5 Retainage. Pursuant to Chapter 60.28 RCW, five percent (5%) of the Total Compensation shall be retained by the City to assure payment of Contractor's state sales tax as well as payment of subcontractors, suppliers and laborers. Upon execution of this Contract, Contractor shall complete, execute and deliver to the City the Contractor Retainage Agreement attached hereto as Exhibit "C" or execute the Retainage Bond attached hereto as Exhibit "D." No payments shall be made by the City from the retained percentage fund ("Fund") nor shall the City release any retained percentage escrow account to any person, until the City has received from the Department of Revenue a certificate that all taxes, increases, and penalties due from the Contractor and all taxes due and to become due with respect to the Contract have been paid in full or that they are, in the Department's opinion, readily collectible without recourse to the State's lien on the retained percentage. Upon non-payment by the general contractor, any supplier or subcontractor may file a lien against the retainage funds, pursuant to Chapter 60.28 RCW. Subcontractors or suppliers are required to give notice of any lien within forty-five (45) days of the completion of the Work and in the manner provided in RCW 39.08.030. Within sixty (60) days after completion of all Work on this Contract, the City shall release and pay in full the money held in the Fund, unless the City becomes aware of outstanding claims made against this Fund.

#### **5. EQUAL OPPORTUNITY EMPLOYER**

In all Contractor services, programs or activities, and all Contractor hiring and employment made possible by or resulting from this Contract, there shall be no discrimination by Contractor or by Contractor's employees, agents, subcontractors or representatives against any person because

of sex, age (except minimum age and retirement provisions), race, color, creed, national origin, marital status or the presence of any disability, including sensory, mental or physical handicaps, unless based upon a bona fide occupational qualification in relationship to hiring and employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Contractor shall comply with, and shall not violate any of the terms of, Chapter 49.60 RCW, Title VII of the Civil Rights Act of 1964, the Americans With Disabilities Act, Section 504 of the Rehabilitation Act of 1973, 49 CFR Part 26, or any other applicable federal, state, or local law or regulation regarding non-discrimination. Any material violation of this provision shall be grounds for termination of this Contract by the City and, in the case of the Contractor's breach, may result in ineligibility for further City agreements. If this project involves federal funds including USDOT funds administered by WSDOT, the contractor agrees to the clauses contained in Exhibit H.

## **6. INDEPENDENT CONTRACTOR/CONFLICT OF INTEREST**

6.1 It is the intention and understanding of the Parties that the Contractor shall be an independent contractor and that the City shall be neither liable nor obligated to pay Contractor sick leave, vacation pay or any other benefit of employment, nor to pay any social security or other tax which may arise as an incident of employment. The Contractor shall pay all income and other taxes due. Industrial or any other insurance that is purchased for the benefit of the City, regardless of whether such may provide a secondary or incidental benefit to the Contractor, shall not be deemed to convert this Agreement to an employment contract. It is recognized that Contractor may or will be performing professional services during the Term for other parties; provided, however, that such performance of other services shall not conflict with or interfere with Contractor's ability to perform the Services. Contractor agrees to resolve any such conflicts of interest in favor of the City.

6.2 If the Contractor is a sole proprietorship or if this is a contract with an individual, the contractor agrees to notify the City and complete any required form if the Contractor retired under a State of Washington retirement system and agrees to indemnify any losses the City may sustain through the Contractor's failure to do so.

## **7. CITY'S RIGHT TO TERMINATE CONTRACT**

7.1 Termination Without Cause. Prior to the expiration of the Term, this Contract may be terminated without cause upon oral or written notice delivered to Contractor from the City. Upon termination, all supplies, materials, labor and/or equipment furnished prior to such date shall, at the City's option, become its property. In the event Contractor is not in breach of any of the provisions of this Contract, Contractor will be paid for any portion of the Work which has been completed to the City's satisfaction, calculated by the percentage amount that portion of the Work completed and accepted by the City bears to the Total Compensation.

7.2 Termination For Cause. The City may immediately terminate this Contract, take possession of the Property and all materials thereon and finish the Work by whatever methods it may deem expedient, upon the occurrence of any one or more of the following events:

- (1) If the Contractor should be adjudged a bankrupt.
- (2) If the Contractor should make a general assignment for the benefit of its creditors.



- (3) If a receiver should be appointed on the account of insolvency of Contractor.
- (4) If Contractor should persistently or repeatedly refuse or fail to supply a sufficient number of properly skilled workmen or proper materials for completion of the Work.
- (5) If the Contractor should fail to complete the Work within the time specified in this Contract.
- (6) If the Contractor should fail to complete the Work in compliance with the plans and specifications, to the City's satisfaction.
- (7) If the Contractor should fail to make prompt payment to subcontractors or for material labor.
- (8) If Contractor should persistently disregard laws, ordinances or regulations of federal, state, or municipal agencies or subdivisions thereof.
- (9) If Contractor should persistently disregard instructions of the Mayor or his or her representative.
- (10) If Contractor shall be in breach or violation of any term or provision of this Contract, or
- (11) If the Work is not being performed pursuant to RCW 49.28.050 or 49.28.060.

7.3 Result of Termination. In the event that this Contract is terminated for cause by the City, the City may do any or all of the following:

- (1) Stop payments. The City shall cease any further payments to Contractor and Contractor shall be obligated to repay any payments it received under this contract.
- (2) Complete Work. The City may, but in no event is the City obligated to, complete the Work, which Work may be completed by the City's agents, employees or representatives or the City may retain independent persons or entities to complete the Work. Upon demand, Contractor agrees to pay to the City all of its costs and expenses in completing such Work.
- (3) Take Possession. The City may take possession of the Property and any equipment and materials on the Property and may sale the same, the proceeds of which shall be paid to the City for its damages.
- (4) Remedies Not Exclusive. No remedy or election under this Contract shall be deemed an election by the City but shall be cumulative and in addition to all other remedies available to the City at law, in equity or by statute.

## **8. INDEMNIFICATION**

8.1 Contractor Indemnification. The Contractor agrees to indemnify, defend, and hold the City, its elected officials, officers, employees, agents, and volunteers harmless from any and all claims, demands, losses, actions and liabilities (including costs and all attorney fees) to or by any and all persons or entities, including, without limitation, their respective agents, licensees, or

representatives, arising from, resulting from, or connected with this Contract to the extent caused by the negligent acts, errors or omissions of the Contractor, its partners, shareholders, agents, employees, or by the Contractor's breach of this Contract. Contractor waives any immunity that may be granted to it under the Washington State Industrial Insurance Act, Title 51 RCW. Contractor's indemnification shall not be limited in any way by any limitation on the amount of damages, compensation or benefits payable to or by any third party under workers' compensation acts, disability benefit acts or any other benefits acts or programs.

8.2 City Indemnification. The City agrees to indemnify, defend, and hold the Contractor, its officers, directors, shareholders, partners, employees, and agents harmless from any and all claims, demands, losses, actions and liabilities (including costs and attorney fees) to or by any and all persons or entities, including without limitation, their respective agents, licenses, or representatives, arising from, resulting from or connected with this Contract to the extent solely caused by the negligent acts, errors, or omissions of the City, its employees or agents.

8.3 Survival. The provisions of this Section shall survive the expiration or termination of this Contract with respect to any event occurring prior to such expiration or termination.

## **9. INSURANCE**

9.1 Minimum Limits. The Contractor agrees to carry as a minimum, the following insurance, in such forms and with such carriers who have a rating which is satisfactory to the City:

- (1) Workers' compensation and employer's liability insurance in amounts sufficient pursuant to the laws of the State of Washington;
- (2) Commercial general liability insurance with combined single limits of liability not less than \$5,000,000 for bodily injury, including personal injury or death, products liability and property damage.
- (3) Automobile liability insurance with combined single limits of liability not less than \$2,000,000 for bodily injury, including personal injury or death and property damage.

9.2 Endorsements. Each insurance policy shall contain, or be endorsed to contain, the following provisions:

- (1) The City, its officers, officials, employees, volunteers and agents shall each be named as additional insured.
- (2) Coverage may not be terminated or reduced in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, to the City.
- (3) Coverage shall be primary and non-contributory insurance as respects the City, its officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees or volunteers shall be in excess of Contractor's insurance.
- (4) Coverage shall apply to each insured separately against whom claim is made or suit is brought.

(5) Coverage shall be written on an "occurrence" form as opposed to a "claims made" or "claims paid" form.

9.3 Verification. Contractor shall furnish the City with certificates of insurance evidencing the coverage required by the Section, in compliance with the Certificate(s) of Insurance Form attached hereto as Exhibit "F," which certificate must be executed by a person authorized by the insurer to bind coverage on its behalf. The City reserves the right to require complete certified copies of all required insurance policies, at any time.

9.4 Subcontractors. Contractors shall include all subcontractors as additional insured under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

9.5 Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be disclosed by Contractor and approved in writing by the City. At the option of the City, Contractor shall either reduce or eliminate such deductibles or self-insured retentions or procure a bond guaranteeing payment for any amounts not covered by the insurance by reason of such deductibles or self-insured retentions.

9.6 Asbestos Abatement or Hazardous Materials. If asbestos abatement or hazardous materials work is performed, Contractor shall review coverage with the City's Risk Manager and provide scope and limits of coverage that are appropriate for the scope of Work and are satisfactory to the City. Contractor shall not commence any Work until its coverage has been approved by the Risk Manager.

9.7 Termination. The Contractor's failure to provide the insurance coverage required by this Section shall be deemed to constitute non-acceptance of this Contract by the Contractor and the City may then award this Contract to the next lower bidder.

## **10. PERFORMANCE/PAYMENT BOND**

Pursuant to RCW 39.08.010, Contractor shall post a Performance/Payment Bond in favor of the City, in the form attached to this Contract as Exhibit "G" and incorporated by this reference, in a dollar amount satisfactory to the City; to guarantee Contractor's performance of the Work to the City's satisfaction; to insure Contractor's performance of all of the provisions of this Contract; and to guarantee Contractor's payment of all laborers, mechanics, subcontractors and material persons. Contractor's obligations under this Contract shall not be limited to the dollar amount of the bond.

## **11. SAFETY**

Contractor shall take all necessary precautions for the safety of employees on the work site and shall comply with all applicable provisions of federal, state and municipal safety and health laws and codes, including without limitation, all OSHA/WISHA requirements, Safety and Health Standards for Construction Work (Chapter 296-155 WAC), General Safety and Health Standards (Chapter 296-24 WAC), and General Occupational Health Standards (Chapter 296-62 WAC). Contractor shall erect and properly maintain, at all times, all necessary guards, barricades, signals and other safeguards at all unsafe places at or near the Work for the protection of its employees and the public, safe passageways at all road crossings, crosswalks, street intersections, post danger signs warning against any known or unusual hazards and do all other things necessary to prevent accident or loss of any kind. Contractor shall protect from danger all water, sewer, gas, steam or other pipes or conduits, and all hydrants and all other property that is likely to become displaced or

damaged by the execution of the Work. The Contractor shall, at its own expense, secure and maintain a safe storage place for its materials and equipment and is solely responsible for the same.

## **12. PREVAILING WAGES**

12.1 Wages of Employees. This contract is subject to the minimum wage requirements of Chapter 39.12 RCW and Chapter 49.28 RCW (as amended or supplemented). On Federal-aid projects, Federal wage laws and rules also apply. The Hourly minimum rates for wages and fringe benefits are listed in Appendix B. When Federal wage and fringe benefit rates are listed, the rates match those identified by the U.S. Department of Labor's "Decision Number" shown in Appendix B.

The Contractor, any subcontractor, and all individuals or firms required by Chapter 39.12 RCW, Chapter 296-127 WAC, or the Federal Davis-Bacon and Related Acts (DBRA) to pay minimum prevailing wages, shall not pay any worker less than the minimum hourly wage rates and fringe benefits required by Chapter 39.12 RCW or the DBRA. Higher wages and benefits may be paid.

When the project is subject to both State and Federal hourly minimum rates for wages and fringe benefits and when the two rates differ for similar kinds of labor, the Contractor shall not pay less than the higher rate unless the state rates are specifically preempted by Federal law.

The Contractor shall ensure that any firm (Supplier, Manufacturer, or Fabricator) that falls under the provisions of Chapter 39.12 RCW because of the definition "Contractor" in Chapter 296-127-010 WAC, complies with all the requirements of Chapter 39.12 RCW.

12.2 Exemptions to Prevailing Wage. The prevailing wage requirements of Chapter 39.12 RCW, and as required in this Contract do not apply to:

- (1) Sole owners and their spouses;
- (2) Any partner who owns at least 30% of a partnership;
- (3) The President, Vice President and Treasurer of a corporation if each one owns at least 30% of the corporation.

12.3 Reporting Requirements. On forms provided by the Industrial Statistician of State L&I, the Contractor shall submit to the Engineer the following for itself and for each firm covered under Chapter 39.12 RCW that provided work and materials of the contract:

- (1) A copy of an approved "Statement of Intent to Pay Prevailing Wages" State L&I form number F700-029-000. The City will make no payment under this contract for the work performed until this statement has been approved by State L&I and a certified copy of the approved form has been submitted to the City.
- (2) A copy of an approved "Affidavit of Prevailing Wages Paid," State L&I form number F700-007-000. The City will not release to the contractor any funds retained under Chapter 60.28.011 RCW until all of the "Affidavit of Prevailing Wages Paid" forms have been approved by State L&I and a certified copy of all the approved forms have been submitted to the City.

The Contractor shall be responsible for requesting these forms from the State L&I and for paying any approval fees required by State L&I.

Certified payrolls are required to be submitted by the Contractor to the City, for the Contractor and all subcontractors or lower tier subcontractors.

12.4 Disputes. In the event any dispute arises as to what are the prevailing rates of wages for work of a similar nature and such dispute cannot be resolved by the City and the Contractor, the matter shall be referred for arbitration to the Director of the Department of Labor and Industries of the State of Washington and the decision therein shall be final and conclusive and binding on all parties involved in the dispute.

### **13. FAILURE TO PAY SUBCONTRACTORS**

In the event the Contractor shall fail to pay any subcontractors or laborers, fail to pay for any materials, or fail to pay any insurance premiums, the City may terminate this Contract and/or the City may withhold from the money which may be due the Contractor an amount necessary for the payment of such subcontractors, laborers, materials or premiums.

### **14. OWNERSHIP OF DOCUMENTS**

All originals and copies of work product, including plans, sketches, layouts, designs, design specifications, records, files, computer disks, magnetic media, all finished or unfinished documents or material which may be produced or modified by Contractor while performing the Work shall become the property of the City and shall be delivered to the City at its request.

### **15. CONFIDENTIALITY**

Any records, reports, information, data or other documents or materials given to or prepared or assembled by the Contractor under this Contract will be kept as confidential and shall not be made available to any individual or organization by the Contractor without prior written approval of the City.

### **16. BOOKS AND RECORDS**

The Contractor agrees to maintain books, records, and documents which sufficiently and properly reflect all direct and indirect costs related to the performance of this Contract and such accounting procedures and practices as may be deemed necessary by the City to assure proper accounting of all funds paid pursuant to this Contract. These records shall be subject at all reasonable times to inspection, review or audit by the City, its authorized representative, the State Auditor, or other governmental officials authorized by law to monitor this Contract.

### **17. CLEAN UP**

At any time ordered by the City and immediately after completion of the Work, the Contractor shall, at its own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. In the event the Contractor fails to perform the necessary clean up, the City may, but in no event is it obligated to, perform the necessary clean up and the costs thereof shall be immediately paid by the Contractor to the City and/or the City may deduct its costs from any remaining payments due to the Contractor.

## **18. CONTRACTOR AND SUBCONTRACTOR RESPONSIBILITY:**

18.1 Contractor Verification. The Contractor verifies that it has a certificate of registration with the State of Washington; has a current state unified business identifier number; is not disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3); has industrial insurance as required by Title 51 RCW, if applicable; has an employment security department number as required in Title 50 RCW, if applicable; has a state excise tax registration number as required in Title 82 RCW, if applicable; possesses a valid electrical contractor license as required by Chapter 19.28 RCW, if applicable; and possesses an elevator contractor license as required by Chapter 70.87 RCW, if applicable.

18.2 Subcontractor Contracts. 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.

18.3 Subcontractor Verification. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria: 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; Have a current Washington Unified Business Identifier (UBI) number; Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3); Have Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW, if applicable; A Washington Employment Security Department number, as required in Title 50 RCW, if applicable; A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW, if applicable; An electrical contractor license, if required by Chapter 19.28 RCW, if applicable; An elevator contractor license, if required by Chapter 70.87 RCW.

## **19. GENERAL PROVISIONS**

19.1 Entire Contract. The Contract Documents contain all of the agreements of the Parties with respect to any matter covered or mentioned in this Contract and no prior agreements or understandings pertaining to any such matters shall be effective for any purpose.

19.2 Modification. No provisions of this Contract, including this provision, may be amended or added to except by agreement in writing signed by the Parties or their respective successors in interest.

19.3 Full Force and Effect. Any provision of this Contract, which is declared invalid, void or illegal, shall in no way affect, impair, or invalidate any other provision hereof and such other provisions shall remain in full force and effect.

19.4 Assignment. The Contractor shall not transfer or assign, in whole or in part, any or all of its obligations and rights hereunder without the prior written consent of the City. In the event the City consents to any such assignment or transfer, such consent shall in no way release the Contractor from any of its obligations or liabilities under this Contract.

19.5 Successors In Interest. Subject to the preceding Subsection, this Contract shall be binding upon and inure to the benefit of the Parties' successors in interest, heirs and assigns.

19.6 Attorney Fees. In the event the City or the Contractor defaults on the performance of any terms in this Contract, and the Contractor or City places the enforcement of the Contract or any part thereof, or the collection of any monies due, or to become due hereunder, or recovery of possession of any belongings, in the hands of an attorney, or file suit upon the same, each Party shall pay all its own attorneys' fees, costs and expenses. The venue for any dispute related to this Contract shall be King County, Washington.

19.7 No Waiver. Failure of the City to declare any breach or default immediately upon occurrence thereof, or delay in taking any action in connection with, shall not waive such breach or default. Failure of the City to declare one breach or default does not act as a waiver of the City's right to declare another breach or default.

19.8 Governing Law. This Contract shall be made in and shall be governed by and interpreted in accordance with the laws of the State of Washington.

19.9 Authority. Each individual executing this Contract on behalf of the City and Contractor represents and warrants that such individuals are duly authorized to execute and deliver this Contract on behalf of the Contractor or City.

19.10 Notices. Any notices required to be given by the City to Contractor or by the Contractor to the City shall be delivered to the Parties at the addresses set forth below. Any notices may be delivered personally to the addressee of the notice or may be deposited in the United States mail, postage prepaid, to the address set forth herein. Any notice so posted in the United States mail shall be deemed received three (3) days after the date of mailing.

19.11 Captions. The respective captions of the Sections of this Contract are inserted for convenience of reference only and shall not be deemed to modify or otherwise affect in any respect any of the provisions of this Contract.

19.12 Performance. Time is of the essence of this Contract and each and all of its provisions in which performance is a factor. Adherence to completion dates is essential to the Contractor's performance of this Contract.

19.13 Compliance with Ethics Code. If a violation of the City's Ethics Resolution No. 91-54, as amended, occurs as a result of the formation and/or performance of this Contract, this Contract may be rendered null and void, at the City's option.

19.14 Conflicting Provisions. In the event of a conflict between the terms and provisions of any of the Contract Documents, the Mayor or his or her designee shall issue an interpretation of the controlling document, which interpretation shall be final and binding.

DATED the day and year set forth above.

CITY OF FEDERAL WAY:

By: \_\_\_\_\_  
Jim Ferrell, Mayor  
33325 8th Avenue South  
Federal Way, WA 98003-6325

ATTEST:

\_\_\_\_\_  
Stephanie Courtney, CMC, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
J. Ryan Call, City Attorney

[CONTRACTOR'S NAME]:

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Phone)

STAFF SELECT APPROPRIATE NOTARY BLOCK FOR APPLICANT

[Individual Notary]

STATE OF WASHINGTON )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this day personally appeared before me, \_\_\_\_\_, to me known to be the individual described in and who executed the foregoing instrument, and on oath



swore that he/she/they executed the foregoing instrument as his/her/their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
(typed/printed name of notary)  
Notary Public in and for the State of Washington.  
My commission expires \_\_\_\_\_

[Corporate Notary]

STATE OF WASHINGTON     )  
  ) ss.  
COUNTY OF \_\_\_\_\_ )

On this day personally appeared before me \_\_\_\_\_, to me known to be the \_\_\_\_\_ of \_\_\_\_\_ that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he/she was authorized to execute said instrument and that the seal affixed, if any, is the corporate seal of said corporation.

GIVEN my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
(typed/printed name of notary)  
Notary Public in and for the State of Washington.  
My commission expires \_\_\_\_\_

**EXHIBIT A**

**NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT.**



Original  
 Revised # \_\_\_\_\_

**NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT**

Date: \_\_\_\_\_ Contractor's UBI Number: \_\_\_\_\_

<b>Name &amp; Mailing Address of Public Agency</b>	<b>Department Use Only</b>
UBI Number: _____	Assigned to: _____
	Date Assigned: _____

*Notice is hereby given relative to the completion of contract or project described below*

<b>Project Name</b>	<b>Contract Number</b>	<b>Job Order Contracting</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Description of Work Done/Include Jobsite Address(es)</b>		
Federally funded transportation project? <input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, provide Contract Bond Statement below)		
<b>Contractor's Name</b>	<b>E-mail Address</b>	<b>Affidavit ID*</b>
<b>Contractor Address</b>		<b>Telephone #</b>
If Retainage is not withheld, please select one of the following and List Surety's Name & Bond Number. <input type="checkbox"/> Retainage Bond <input type="checkbox"/> Contract/Payment bond (valid for federally funded transportation projects)		
<b>Name:</b>		<b>Bond Number:</b>
<b>Date Contract Awarded</b>	<b>Date Work Commenced</b>	<b>Date Work Completed</b>
<b>Were Subcontractors used on this project? If so, please complete Addendum A.</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No

Affidavit ID\* - No L&I release will be granted until all affidavits are listed.

Contract Amount	\$ _____	Liquidated Damages \$	_____
Additions (+)	\$ _____	Amount Disbursed \$	_____
Reductions (-)	\$ _____	Amount Retained \$	_____
<b>Sub-Total</b>	\$ <u>0.00</u>		
Sales Tax Rate _____ %			
<small>(If various rates apply, please send a breakdown)</small>			
Sales Tax Amount	\$ _____	<b>TOTAL \$</b>	<u>0.00</u>

**NOTE: These two totals must be equal**

**Comments:**

**Note:** The Disbursing Officer must submit this completed notice immediately after acceptance of the work done under this contract.  
 NO PAYMENT SHALL BE MADE FROM RETAINED FUNDS until receipt of all release certificates.  
**Submitting Form:** Please submit the completed form by email to all three agencies below.

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Email Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_





**EXHIBIT B  
CITY OF FEDERAL WAY  
CONTRACT CHANGE ORDER AGREEMENT**

PROJECT NUMBER \_\_\_\_\_ CHANGE ORDER NUMBER \_\_\_\_\_ EFFECTIVE DATE \_\_\_\_\_

PROJECT TITLE \_\_\_\_\_ CONTRACTOR \_\_\_\_\_

**SUMMARY OF PROPOSED CHANGES:**

The time provided for completion in the Contract is  Unchanged  Increased  Decreased by \_\_\_\_ Calendar Days. This Document shall become an Amendment to the Contract and all provisions of the Contract not amended herein will apply to this Change Order.

Will this change affect expiration or extent of Insurance coverage?  Yes  No  
If "Yes" Will the Policies Be Extended?  Yes  No

PRICE CHANGE LUMP SUM: INCREASE \$ \_\_\_\_\_ DECREASE \$ \_\_\_\_\_  
UNIT PRICE: \_\_\_\_\_

THE ITEMS ARE APPROXIMATE OR ESTIMATED QUANTITIES INVOLVED IN THIS CHANGE

ITEM NO.	ITEM	QTY.	UNIT PRICE	ADD OR DELETE

TOTAL NET CONTRACT: INCREASE \$ \_\_\_\_\_ DECREASE \$ \_\_\_\_\_

**STATEMENT:**

*Payment for the above work will be in accordance with applicable portions of the standard specifications, and with the understanding that all materials, workmanship and measurements shall be in accordance with the provisions of the standard specifications, the contract plans, and the special provisions governing the types of construction.*

**DEPARTMENT RECAP TO DATE:**

ORIGINAL CONTRACT AMOUNT	\$ _____
PREVIOUS CHANGE ORDERS	\$ _____
THIS CHANGE ORDER	\$ _____
<b>*ADJUSTMENTS</b>	\$ _____
NEW CONTRACT AMOUNT	\$ _____

CONTRACTOR'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**DIRECTOR'S SIGNATURE** \_\_\_\_\_ DATE \_\_\_\_\_

**ADJUSTMENTS**

CHANGE ORDER ESTIMATE IS HEREBY  INCREASED

\$ \_\_\_\_\_

DECREASED

\$ \_\_\_\_\_

PAY THIS ADJUSTED AMOUNT:

\$ \_\_\_\_\_

\_\_\_\_\_  
**DIRECTOR'S SIGNATURE**

\_\_\_\_\_  
DATE

**EXHIBIT C  
CONTRACTOR'S RETAINAGE OPTION**

**IDENTIFICATION AND DESCRIPTION**

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

RFB No: \_\_\_\_\_

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

**GENERAL REQUIREMENTS**

1. In accordance with applicable State Statutes, a contract retainage not to exceed five percent of the moneys earned by the contractor will be reserved by the City.
2. All investments selected are subject to City approval.
3. The final disposition of the contract retainage will be made in accordance with applicable State Statutes.

**CONTRACTOR'S INSTRUCTIONS**

Pursuant to RCW 60.28.011 I hereby notify the City of Federal Way of my instructions for the retainage withheld under the terms of this contract:

- Option 1: Retained in a fund by the City of Federal Way. No interest will be paid to the contractor.
- Option 2: Deposited in an interest bearing account in a bank, mutual savings bank, or savings and loan association. Interest paid to the contractor. Contractor shall have the bank (or other) execute a separate "City of Federal Way Retainage Bank Acceptance Agreement" upon contract award. The City will provide the agreement to the Contractor if this option is selected.
- Option 3: Placed in escrow with a bank or trust company. Contractor shall execute, and have escrow account holder execute a separate "City of Federal Way Construction Retainage Escrow Agreement" upon contract award. The City will provide the agreement to the Contractor if this option is selected. All investments are subject to City approval. The cost of the investment program, and risk thereof, is to be borne entirely by the contractor.
- Option 4: Contractor shall submit a "Retainage Bond" on City-provided form (Exhibit D of this Agreement).

\_\_\_\_\_  
Contractor Signature

\_\_\_\_\_  
Date

**EXHIBIT D**  
**RETAINAGE BOND TO CITY OF FEDERAL WAY**

**2018 ASPHALT OVERLAY PROJECT**

KNOW ALL PERSONS BY THESE PRESENTS that we, the undersigned, \_\_\_\_\_, as principal ("Principal"), and \_\_\_\_\_, a Corporation organized and existing under the laws of the State of \_\_\_\_\_, as a surety Corporation, and qualified under the laws of the State of Washington to become surety upon bonds of Contractors with Municipal Corporations, as surety ("Surety"), are jointly and severally held and firmly bonded to the City of Federal Way ("City") in the penal sum of: \_\_\_\_\_ (\$ \_\_\_\_\_) for the payment of which sum we bind ourselves and our successors, heirs, administrators or personal representatives, as the case may be.

A. This obligation is entered into in pursuant to the statutes of the State of Washington and the ordinances, regulations, standards and policies of the City, as now existing or hereafter amended or adopted.

B. Pursuant to proper authorization, the Mayor is authorized to enter into a certain contract with the Principal, providing for the \_\_\_\_\_ Project, which contract is incorporated herein by this reference ("Contract"), and

C. Pursuant to State law, Chapter 60.28 RCW, the City is required to reserve from the monies earned by the Principal pursuant to the contract, a sum not to exceed five percent (5%), said sum to be retained by the City as a trust fund for the protection and payment of any person or persons, mechanic, subcontractor or material men who shall perform any labor upon such contract or the doing of such work, and all persons who shall supply such person or persons or subcontractors with provisions and supplies for the carrying on of such work, and the State with the respect to taxes imposed pursuant to Title 82 RCW which may be due from said Principal. Every person performing labor or furnishing supplies towards completion of said improvement or work shall have a lien on said monies so reserved, provided that such notice of the lien of such claimant shall be given in the manner and within the time provided in RCW 39.08.030 as now existing and in accordance with any amendments that may hereafter be provided thereto; and

D. State law further provides that with the consent of the City, the Principal may submit a bond for all or any portion of the amount of funds retained by the public body in a form acceptable to the public body conditioned upon such bond any proceeds therefrom being made subject to all claims and liens and in the same manner and priority as set forth retained percentages pursuant to Chapter 60.28 RCW; and

E. The Principal has accepted, or is about to accept, the Contract, and undertake to perform the work therein provided for in the manner and within the time set forth, for the amount of \$ \_\_\_\_\_; and

F. The City is prepared to release any required retainage money previously paid by the Principal prior to acceptance and successful operation and fulfillment of all other terms of said contract upon being indemnified by these presents,

NOW, THEREFORE, if the Principal shall perform all the provisions of the Contract in the manner and within the time period prescribed by the City, or within such extensions of time as may be granted under the Contract, and shall pay all laborers, mechanics, subcontractors and material men or women, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work, and if the Principal shall pay to the State all taxes imposed pursuant to Title 82 RCW which may be due from such Principal as a result of this contract then and in the event this obligation shall be void; but otherwise it shall be and remain in full force and effect.

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

The Surety hereby agrees that modifications and changes may be made in the terms and provisions of the Contract without notice to Surety, and any such modifications or changes increasing the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this Retainage Bond in a like amount, such increase, however, not to exceed twenty-five percent (25%) of the original amount of this bond without consent of the Surety.

Within forty-five (45) days of receiving notice that the Principal has defaulted on all or part of the terms of the Contract, the Surety shall make written commitment to the City that it will either: (a) cure the default itself within a reasonable time period, or (b) tender to the City, the amount necessary for the City to remedy the default, including legal fees incurred by the City, or (c) in the event that Surety's evaluation of the dispute is not complete or in the event the Surety disputes the City's claim of default, the Surety shall notify the City of its finding and its intent, if any, to interplead. The Surety shall then fulfill its obligations under this bond, according to the option it has elected. Should Surety elect option (a) to cure the default, the penal sum of the Bond shall be reduced in an amount equal to the costs actually incurred by the Surety in curing the default. If the Surety elects option (b), then upon completion of the necessary work, the City shall notify the Surety of its actual costs. The City shall return, without interest, any overpayment made by the Surety and the Surety shall pay to the City any actual costs which exceed the City estimate, limited to the bond amount. Should the Surety elect option (c), the Parties shall first complete participation in mediation, described in the below paragraph, prior to any interplead action.

In the event a dispute should arise between the Parties to this Bond with respect to the City's declaration of default by the Principal, the Parties agree to participate in at least four hours of mediation to resolve said dispute. The Parties shall proportionately share in the cost of the mediation. The mediation shall be administered by Judicial Dispute Resolution, LLC, 1425 Fourth Avenue, Suite 300, Seattle, Washington 98101. The Surety shall not interplead prior to completion of the mediation.

The parties have executed this instrument under their separate seals this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, the name and corporate seal of each corporate party hereto affixed, and these presents duly signed by its undersigned representatives pursuant to authority of its governing body.

CORPORATE SEAL:

PRINCIPAL

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

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

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

CORPORATE SEAL:

SURETY

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

Attorney-in-Fact  
(Attach Power of Attorney)

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

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



CERTIFICATES AS TO CORPORATE SEAL

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Principal in the within bond; that \_\_\_\_\_, who signed the said bond on behalf of the Principal, was \_\_\_\_\_ of said Corporation; that I know his or her signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

\_\_\_\_\_  
Secretary of Assistant Secretary

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Surety in the within bond; that \_\_\_\_\_, who signed the said bond on behalf of the Surety, was \_\_\_\_\_ of the said Corporation; that I know his or her signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

\_\_\_\_\_  
Secretary of Assistant Secretary

APPROVED AS TO FORM:

\_\_\_\_\_  
J. Ryan Call, City Attorney

**EXHIBIT E**

**NOTICE TO LABOR UNIONS OR OTHER EMPLOYMENT ORGANIZATIONS  
NONDISCRIMINATION IN EMPLOYMENT**

TO: ALL EMPLOYEES

AND TO: \_\_\_\_\_  
(Name of Union or Organization)

The undersigned currently holds contract(s) with \_\_\_\_\_ involving funds or credit of the City of Federal Way, Washington, or (a) subcontract(s) with a prime contractor holding such contract(s).

You are advised that, under the provisions of the above contract(s) or subcontract(s) and in accordance with Section 202 of Executive Order 11246 dated September 24, 1965, the undersigned is obliged not to discriminate against any employee or applicant of employment because of race, color, creed or national origin. This obligation not to discriminate in employment includes, but is not limited to, the following:

EMPLOYMENT, UPGRADING, TRANSFER OR DEMOTION

RECRUITMENT AND ADVERTISING

RATES OF PAY OR OTHER FORMS OF COMPENSATION

SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR TERMINATION

This notice is furnished to you pursuant to the provisions of the above contract(s) or subcontractor(s) and Executive Order 11246.

Copies of this Notice will be posted by the undersigned in conspicuous places available to employees or applicants for employment.

Complaints may be submitted to: Jeff Huynh  
City of Federal Way  
33325 8th Avenue South  
Federal Way, WA 98003

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(Contractor or subcontractor)

\_\_\_\_\_  
Date

**EXHIBIT F**  
**CERTIFICATE OF INSURANCE**

**EXHIBIT G**

**CITY OF FEDERAL WAY  
PERFORMANCE/PAYMENT BOND**

KNOW ALL PEOPLE BY THESE PRESENTS:

We, the undersigned \_\_\_\_\_, ("Principal") and \_\_\_\_\_, the undersigned corporation organized and existing under the laws of the State of \_\_\_\_\_ and legally doing business in the State of Washington as a surety ("Surety"), are held and firmly bonded unto the City of Federal Way, a Washington municipal corporation ("City") in the penal sum of \_\_\_\_\_ Dollars and no/100 (\$\_\_\_\_\_) for the payment of which we firmly bind ourselves and our legal representatives, heirs, successors and assigns, jointly and severally.

This obligation is entered into pursuant to the statutes of the State of Washington and the ordinances, regulations, standards and policies of the City, as now existing or hereafter amended or adopted.

The Principal has entered into an Agreement with the City dated \_\_\_\_\_, 20\_\_ for \_\_\_\_\_.

NOW, THEREFORE, if the Principal shall perform all the provisions of the Agreement in the manner and within the time period prescribed by the City, or within such extensions of time as may be granted under the Agreement, and shall pay all laborers, mechanics, subcontractors and material men or women, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work, and shall hold the City, their officials, agents, employees and volunteers harmless from any loss or damage occasioned to any person or property by reason of any carelessness or negligence on the part of the Principal, or any subcontractor in the performance of said work, and shall indemnify and hold the City harmless from any damage or expense by reason of failure of performance as specified in the Agreement within a period of one (1) year after its final acceptance thereof by the City, then and in the event this obligation shall be void; but otherwise, it shall be and remain in full force and effect.

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

The Surety hereby agrees that modifications and changes may be made in terms and provisions of the Agreement without notice to Surety, and any such modifications or changes increasing the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this Performance Bond in a like amount, such increase, however, not to exceed twenty-five percent (25%) of the original amount of this bond without the consent of the Surety.

Within forty-five (45) days of receiving notice that the Principal has defaulted on all or part of the terms of the Agreement, the Surety shall make a written commitment to the City that it will either: (a) cure the default itself within a reasonable time period, or (b) tender to the city, the amount necessary for the City to remedy the default, including legal fees incurred by the City, or (c) in the event that Surety's evaluation of the dispute is not complete or in the event the Surety disputes the City's claim of default, the Surety shall notify the City of its finding and its intent, if any, to interplead. The Surety shall then fulfill its obligations under this bond, according to the option it has elected. Should Surety elect option (a) to cure the default, the penal sum of the Bond shall be reduced in an amount equal to the costs actually incurred by the Surety in curing the default. If the Surety elects option (b), then upon completion of the necessary work, the City shall notify the Surety of its actual costs. The City shall return, without interest, any overpayment made by the Surety and the Surety shall pay to the City any actual costs which exceed the City estimate, limited to the bond amount. Should the



Notary's signature \_\_\_\_\_  
Notary's printed name \_\_\_\_\_  
Notary Public in and for the State of Washington.  
My commission expires \_\_\_\_\_

CORPORATE SEAL OF SURETY:

SURETY

By: \_\_\_\_\_  
Attorney-in-Fact  
(Attach Power of Attorney)  
  
\_\_\_\_\_  
(Name of Person Executing Bond)  
  
\_\_\_\_\_  
(Address)  
  
\_\_\_\_\_  
(Phone)

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney

**EXHIBIT H**  
**TITLE VI ASSURANCES**

During the performance of this contract, the contractor/consultant, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

**1. Compliance with Regulations**

The contractor shall comply with the Regulations relative to non-discrimination in federally assisted programs of United States Department of Transportation (USDOT), Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

**2. Non-discrimination**

The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of sub-contractors, including procurement of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

**3. Solicitations for Sub-contracts, Including Procurement of Materials and Equipment**

In all solicitations either by competitive bidding or negotiations made by the contractor for work to be performed under a sub-contract, including procurement of materials or leases of equipment, each potential sub-contractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, sex, or national origin.

**4. Information and Reports**

The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the contracting agency or the appropriate federal agency to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to WSDOT or the USDOT as appropriate, and shall set forth what efforts it has made to obtain the information.

**5. Sanctions for Non-compliance**

In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the contracting agency shall impose such contract sanctions as it or the USDOT may determine to be appropriate, including, but not limited to: Withholding of payments to the contractor under the contract until the contractor complies, and/or; Cancellation, termination, or suspension of the contract, in whole or in part

## **6. Incorporation of Provisions**

The contractor shall include the provisions of paragraphs (1) through (5) in every sub-contract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any sub-contractor or procurement as the contracting agency or USDOT may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a sub-contractor or supplier as a result of such direction, the contractor may request WSDOT enter into such litigation to protect the interests of the state and, in addition, the contractor may request the USDOT enter into such litigation to protect the interests of the United States.



**AMENDMENTS TO THE  
STANDARD SPECIFICATIONS**

1 INTRO.AP1  
2 **INTRODUCTION**

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

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

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

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

15  
16 1-01.AP1  
17 **Section 1-01, Definitions and Terms**  
18 **August 1, 2016**

19 **1-01.3 Definitions**

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

21  
22 **Cold Weather Protection Period** – A period of time 7 days from the day of concrete  
23 placement or the duration of the cure period, whichever is longer.  
24

25 1-02.AP1  
26 **Section 1-02, Bid Procedures and Conditions**  
27 **June 1, 2017**

28 **1-02.4(1) General**

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

30  
31 Any prospective Bidder desiring an explanation or interpretation of the Bid Documents,  
32 shall request the explanation or interpretation in writing by close of business on the  
33 Thursday preceding the bid opening to allow a written reply to reach all prospective  
34 Bidders before the submission of their Bids.  
35

36 **1-02.6 Preparation of Proposal**

37 In this section, "Disadvantaged Business Enterprise" is revised to read "Underutilized  
38 Disadvantaged Business Enterprise", and "DBE" is revised to read "UDBE".  
39

40 **1-02.9 Delivery of Proposal**

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

42  
43 The Contracting Agency will not open or consider any Proposal when the Proposal or  
44 Bid deposit is received after the time specified for receipt of Proposals or received in a  
45 location other than that specified for receipt of Proposals unless an emergency or

1 unanticipated event interrupts normal work processes of the Contracting Agency so  
2 that Proposals cannot be received.

3  
4 The following new paragraph is inserted before the last paragraph:

5  
6 If an emergency or unanticipated event interrupts normal work processes of the  
7 Contracting Agency so that Proposals cannot be received at the office designated for  
8 receipt of bids as specified in Section 1-02.12 the time specified for receipt of the  
9 Proposal will be deemed to be extended to the same time of day specified in the  
10 solicitation on the first work day on which the normal work processes of the  
11 Contracting Agency resume.

12  
13 **1-02.12 Public Opening of Proposals**

14 This section is supplemented with the following new paragraph:

15  
16 If an emergency or unanticipated event interrupts normal work processes of the  
17 Contracting Agency so that Proposals cannot be opened at the time indicated in the  
18 call for Bids the time specified for opening of Proposals will be deemed to be extended  
19 to the same time of day on the first work day on which the normal work processes of  
20 the Contracting Agency resume.

21  
22 **1-02.13 Irregular Proposals**

23 In this section, "Disadvantaged Business Enterprise" is revised to read "Underutilized  
24 Disadvantaged Business Enterprise", and "DBE" is revised to read "UDBE".

25  
26 1-04.AP1

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

28 **June 1, 2017**

29 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**  
30 **Specifications, and Addenda**

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

32  
33 Whenever reference is made in these Specifications or the Special Provisions to codes,  
34 rules, specifications, and standards, the reference shall be construed to mean the  
35 code, rule, specification, or standard that is in effect on the Bid advertisement date,  
36 unless otherwise stated or as required by law.

37  
38 **1-04.3 Reference Information**

39 This section is supplemented with the following new sentence:

40  
41 If a document that is provided as reference information contains material also included  
42 as a part of the Contract, that portion of the document shall be considered a part of  
43 the Contract and not as Reference Information.

44  
45 **1-04.4(2)A General**

46 Item number 4 in the third paragraph is revised to read:

- 1 4. Provide substitution for deleted or reduced Condition of Award Work, Apprentice  
2 Utilization and Training.  
3

4 1-07.AP1

5 **Section 1-07, Legal Relations and Responsibilities to the Public**  
6 **August 7, 2017**

7 **1-07.1 Laws to be Observed**

8 The second paragraph is deleted.  
9

10 In the second to last sentence of the third paragraph, "WSDOT" is revised to read  
11 "Contracting Agency".  
12

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

14 The last three sentences of the first paragraph are deleted and replaced with the following  
15 new sentence:  
16

17 The Contractor (Prime or Subcontractor) shall include sales or use tax on the purchase  
18 or rental of tools, machinery, equipment, or consumable supplies not integrated into  
19 the project, in the unit bid prices.  
20

21 **1-07.8 High-Visibility Apparel**

22 The last paragraph is revised to read:  
23

24 High-visibility garments shall be labeled as, and in a condition compliant with the  
25 ANSI/ISEA 107 (2004 or later version) and shall be used in accordance with  
26 manufacturer recommendations.  
27

28 **1-07.8(1) Traffic Control Personnel**

29 In this section, references to "ANSI/ISEA 107-2004" are revised to read "ANSI/ISEA 107".  
30

31 **1-07.8(2) Non-Traffic Control Personnel**

32 In this section, the reference to "ANSI/ISEA 107-2004" is revised to read "ANSI/ISEA 107".  
33

34 **1-07.9(2) Posting Notices**

35 Items 1 and 2 are revised to read:  
36

- 37 1. EEOC - P/E-1 (revised 11/09, supplemented 09/15) – **Equal Employment**  
38 **Opportunity IS THE LAW** published by US Department of Labor. Post for  
39 projects with federal-aid funding.  
40  
41 2. FHWA 1022 (revised 05/15) – **NOTICE Federal-Aid Project** published by  
42 Federal Highway Administration (FHWA). Post for projects with federal-aid  
43 funding.  
44

45 Items 5, 6 and 7 are revised to read:  
46

- 1 5. WHD 1420 (revised 02/13) – **Employee Rights and Responsibilities Under**  
2 **The Family And Medical Leave Act** published by US Department of Labor. Post  
3 on all projects.  
4  
5 6. WHD 1462 (revised 01/16) – **Employee Polygraph Protection Act** published by  
6 US Department of Labor. Post on all projects.  
7  
8 7. F416-081-909 (revised 09/15) – **Job Safety and Health Law** published by  
9 Washington State Department of Labor and Industries. Post on all projects.

10  
11 Items 9 and 10 are revised to read:

- 12  
13 9. F700-074-909 (revised 06/13) – **Your Rights as a Worker in Washington**  
14 **State** by Washington State Department of Labor and Industries (L&I). Post on all  
15 projects.  
16  
17 10. EMS 9874 (revised 10/15) – **Unemployment Benefits** published by Washington  
18 State Employment Security Department. Post on all projects.  
19

20 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

21 The second sentence of the first paragraph is deleted.

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

24  
25 The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and  
26 other materials defined in Chapter 447 of the WSDOT Environmental Manual M 31-11.  
27

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

- 29  
30 4. **Potential Spill Sources** – Describe each of the following for all potentially  
31 hazardous materials brought or generated on-site, including but not limited to  
32 materials used for equipment operation, refueling, maintenance, or cleaning:  
33

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

35  
36 BMP methods and locations where they are used to prevent discharges to ground or  
37 water during mixing and transfer of hazardous materials and fuel.  
38

39 The last paragraph is deleted.

40  
41 1-08.AP1

42 **Section 1-08, Prosecution and Progress**  
43 **June 1, 2017**

44 **1-08.1 Subcontracting**

45 The eighth and ninth paragraphs are revised to read:  
46

1 On all projects, the Contractor shall certify to the actual amounts paid to all firms that  
2 were used as Subcontractors, lower tier subcontractors, manufacturers, regular  
3 dealers, or service providers on the Contract. This includes all Disadvantaged, Minority,  
4 Small, Veteran or Women's Business Enterprise firms. This Certification shall be  
5 submitted to the Engineer on a monthly basis each month between Execution of the  
6 Contract and Physical Completion of the Contract using the application available at:  
7 <https://wsdot.diversitycompliance.com>. A monthly report shall be submitted for every  
8 month between Execution of the Contract and Physical Completion regardless of  
9 whether payments were made or work occurred.

10  
11 The Contractor shall comply with the requirements of RCW 39.04.250, 39.76.011,  
12 39.76.020, and 39.76.040, in particular regarding prompt payment to Subcontractors.  
13 Whenever the Contractor withholds payment to a Subcontractor for any reason  
14 including disputed amounts, the Contractor shall provide notice within 10 calendar days  
15 to the Subcontractor with a copy to the Contracting Agency identifying the reason for  
16 the withholding and a clear description of what the Subcontractor must do to have the  
17 withholding released. Retainage withheld by the Contractor prior to completion of the  
18 Subcontractors work is exempt from reporting as a payment withheld and is not  
19 included in the withheld amount. The Contracting Agency's copy of the notice to  
20 Subcontractor for deferred payments shall be submitted to the Engineer concurrently  
21 with notification to the Subcontractor.

22  
23 **1-08.1(1) Prompt Payment, Subcontract Completion and Return of Retainage**  
24 **Withheld**

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

26  
27 The last sentence in item number 11 of the first paragraph is revised to read:

28  
29 The Contractor may also require any documentation from the Subcontractor that is  
30 required by the subcontract or by the Contract between the Contractor and Contracting  
31 Agency or by law such as affidavits of wages paid, and material acceptance  
32 certifications to the extent that they relate to the Subcontractor's Work.

33  
34 Item number 12 of the first paragraph is revised to read:

35  
36 12. If the Contractor fails to comply with the requirements of the Specification and the  
37 Subcontractor's retainage or retainage bond is wrongfully withheld, the Contractor  
38 will be subject to the actions described in No. 7 listed above. The Subcontractor  
39 may also seek recovery against the Contractor under applicable prompt pay  
40 statutes in addition to any other remedies provided for by the subcontract or by  
41 law.

42  
43 **1-08.5 Time for Completion**

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

1 1-09.AP1  
2 **Section 1-09, Measurement and Payment**  
3 **April 4, 2016**

4 **1-09.6 Force Account**

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

6  
7 A "specialized service" is a work operation that is not typically done by worker  
8 classifications as defined by the Washington State Department of Labor and Industries  
9 and by the Davis Bacon Act, and therefore bills by invoice for work in road, bridge and  
10 municipal construction.

11  
12 1-10.AP1  
13 **Section 1-10, Temporary Traffic Control**  
14 **January 3, 2017**

15 **1-10.1(2) Description**

16 The first paragraph is revised to read:

17  
18 The Contractor shall provide flaggers and all other personnel required for labor for  
19 traffic control activities that are not otherwise specified as being furnished by the  
20 Contracting Agency.

21  
22 In the third paragraph, "Project Engineer" is revised to read "Engineer".

23  
24 The following new paragraph is inserted after the third paragraph:

25  
26 The Contractor shall keep lanes, on-ramps, and off-ramps, open to traffic at all times  
27 except when Work requires closures. Ramps shall not be closed on consecutive  
28 interchanges at the same time, unless approved by the Engineer. Lanes and ramps  
29 shall be closed for the minimum time required to complete the Work. When paving hot  
30 mix asphalt the Contractor may apply water to the pavement to shorten the time  
31 required before reopening to traffic.

32  
33 **1-10.3(2)C Lane Closure Setup/Takedown**

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

35  
36 Channelization devices shall not be moved by traffic control personnel across an open  
37 lane of traffic. If an existing setup or staging of traffic control devices require crossing  
38 an open lane of traffic, the traffic control devices shall be taken down completely and  
39 then set up in the new configuration.

40  
41 2-03.AP2  
42 **Section 2-03, Roadway Excavation and Embankment**  
43 **August 1, 2016**

44 **2-03.3(7)C Contractor-Provided Disposal Site**

45 The second paragraph is revised to read:  
46

1 The Contractor shall acquire all permits and approvals required for the use of the  
2 disposal sites before any waste is hauled off the project. The Contractor shall submit a  
3 Type 1 Working Drawing consisting of copies of the permits and approvals for any  
4 disposal sites to be used. The cost of any such permits and approvals shall be included  
5 in the Bid prices for other Work.  
6

7 The third paragraph is deleted.  
8

9 2-06.AP2

10 **Section 2-06, Subgrade Preparation**  
11 **January 3, 2017**

12 **2-06.3(2) Subgrade for Pavement**

13 The second sentence in the first paragraph is revised to read:  
14

15 The Contractor shall compact the Subgrade to a depth of 6 inches to 95 percent of  
16 maximum density as determined by the compaction control tests for granular  
17 materials.  
18

19 4-04.AP4

20 **Section 4-04, Ballast and Crush Surfacing**  
21 **January 3, 2017**

22 **4-04.3(5) Shaping and Compaction**

23 The first sentence is revised to read:  
24

25 Immediately following spreading and final shaping, each layer of surfacing shall be  
26 compacted to at least 95 percent of maximum density determined by the requirements  
27 of Section 2-03.3(14)D before the next succeeding layer of surfacing or pavement is  
28 placed.  
29

30 5-04.AP5

31 **Section 5-04, Hot Mix Asphalt**  
32 **April 3, 2017**

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

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

38 **5-04.1 Description**

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



1 HMA shall be composed of asphalt binder and mineral materials as required, and may  
2 include reclaimed asphalt pavement (RAP) or reclaimed asphalt shingles (RAS), mixed  
3 in the proportions specified to provide a homogeneous, stable, and workable mix.  
4

### 5 **5-04.2 Materials**

6 Provide materials as specified in these sections:  
7

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

#### 19 **5-04.2(2) Mix Design – Obtaining Project Approval**

20  
21 Use only mix designs listed on the Qualified Products List (QPL). Submit WSDOT  
22 Form 350-041 to the Engineer to request approval to use a mix design from the  
23 QPL. Changes to the job mix formula (JMF) that have been approved on other  
24 contracts may be included. The Engineer may reject a request to use a mix design  
25 if production of HMA using that mix design on any contract is not in compliance  
26 with Section 5-04.3(11)D, E, F, and G for mixture or compaction.  
27  
28

#### 29 **5-04.2(2)A Changes to the Job Mix Formula**

30 The approved mix design obtained from the QPL will be considered the  
31 starting job mix formula (JMF) and shall be used as the initial basis for  
32 acceptance of HMA mixture, as detailed in Section 5-04.3(9).  
33

34 During production the Contractor may request to adjust the JMF. Any  
35 adjustments to the JMF will require approval of the Engineer and shall be  
36 made in accordance with item 2 of Section 9-03.8(7). After approval by the  
37 Engineer, such adjusted JMF's shall constitute the basis for acceptance of the  
38 HMA mixture.  
39

#### 40 **5-04.2(2)B Using Warm Mix Asphalt Processes**

41 The Contractor may, at the Contractor's discretion, elect to use warm mix  
42 asphalt (WMA) processes for producing HMA. WMA processes include organic  
43 additives, chemical additives, and foaming. The use of WMA is subject to the  
44 following:  
45

- 46 • Do not use WMA processes in the production of High RAP/Any RAS  
47 mixtures.

- Before using WMA processes, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed WMA process.

**5-04.3 Construction Requirements**

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

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

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

Table 5

<b>Minimum Surface Temperature for Paving</b>		
<b>Compacted Thickness (Feet)</b>	<b>Wearing Course</b>	<b>Other Courses</b>
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(4) Preparation of Existing Paved Surfaces**

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

Apply a uniform coat of asphalt (tack coat) to all paved surfaces on which any course of HMA is to be placed or abutted. Apply tack coat to cover the cleaned existing pavement with a thin film of residual asphalt free of streaks and bare

1 spots. Apply a heavy application of tack coat to all joints. For Roadways open to  
2 traffic, limit the application of tack coat to surfaces that will be paved during the  
3 same working shift. Equip the spreading equipment with a thermometer to  
4 indicate the temperature of the tack coat material.

5  
6 Do not operate equipment on tacked surfaces until the tack has broken and cured.  
7 Repair tack coat damaged by the Contractor's operation, prior to placement of the  
8 HMA.

9  
10 Unless otherwise approved by the Engineer, use cationic emulsified asphalt CSS-1,  
11 CSS-1h, STE-1, or Performance Graded (PG) asphalt for tack coat. The CSS-1 and  
12 CSS-1h may be diluted with water at a rate not to exceed one part water to one  
13 part emulsified asphalt. Do not allow the tack coat material to exceed the  
14 maximum temperature recommended by the asphalt supplier.

15  
16 When shown in the Plans, prelevel uneven or broken surfaces over which HMA is  
17 to be placed by using an asphalt paver, a motor patrol grader, or by hand raking,  
18 as approved by the Engineer.

### 19 20 **5-04.3(4)A Crack Sealing**

#### 21 **5-04.3(4)A1 General**

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

24  
25 **Cleaning:** Ensure that cracks are thoroughly clean, dry and free of all  
26 loose and foreign material when filling with crack sealant material. Use a  
27 hot compressed air lance to dry and warm the pavement surfaces within  
28 the crack immediately prior to filling a crack with the sealant material. Do  
29 not overheat pavement. Do not use direct flame dryers. Routing cracks  
30 is not required.

31  
32 **Sand Slurry:** For cracks that are to be filled with sand slurry, thoroughly  
33 mix the components and pour the mixture into the cracks until full. Add  
34 additional CSS-1 cationic emulsified asphalt to the sand slurry as needed  
35 for workability to ensure the mixture will completely fill the crack. Strike  
36 off the sand slurry flush with the existing pavement surface and allow the  
37 mixture to cure. Top off cracks that were not completely filled with  
38 additional sand slurry. Do not place the HMA overlay until the slurry has  
39 fully cured.

40  
41 **Hot Poured Sealant:** For cracks that are to be filled with hot poured  
42 sealant, apply the material in accordance with these requirements and  
43 the manufacturer's recommendations. Furnish a Type 1 Working Drawing  
44 of the manufacturer's product information and recommendations to the  
45 Engineer prior to the start of work, including the manufacturer's  
46 recommended heating time and temperatures, allowable storage time  
47 and temperatures after initial heating, allowable reheating criteria, and  
48 application temperature range. Confine hot poured sealant material

1 within the crack. Clean any overflow of sealant from the pavement  
2 surface. If, in the opinion of the Engineer, the Contractor's method of  
3 sealing the cracks with hot poured sealant results in an excessive amount  
4 of material on the pavement surface, stop and correct the operation to  
5 eliminate the excess material.  
6

7 **5-04.3(4)A2 Crack Sealing Areas Prior to Paving**

8 In areas where HMA will be placed, use sand slurry to fill the cracks.  
9

10 **5-04.3(4)A3 Crack Sealing Areas Not to be Paved**

11 In areas where HMA will not be placed, fill the cracks as follows:  
12

- 13 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
- 14
- 15 2. Cracks greater than 1 inch in width – fill with sand slurry.  
16

17 **5-04.3(4)B Soil Residual Herbicide**

18 Where shown in the Plans, apply one application of an approved soil residual  
19 herbicide. Comply with Section 8-02.3(3)B. Complete paving within 48 hours  
20 of applying the herbicide.  
21

22 Use herbicide registered with the Washington State Department of Agriculture  
23 for use under pavement. Before use, obtain the Engineer's approval of the  
24 herbicide and the proposed rate of application. Include the following  
25 information in the request for approval of the material:  
26

- 27 1. Brand Name of the Material,
- 28
- 29 2. Manufacturer,
- 30
- 31 3. Environmental Protection Agency (EPA) Registration Number,
- 32
- 33 4. Material Safety Data Sheet, and
- 34
- 35 5. Proposed Rate of Application.  
36

37 **5-04.3(11) Reject Work**

38 This Section applies to HMA and all requirements related to HMA (except  
39 aggregates prior to being incorporated into HMA). For rejection of aggregate  
40 prior to its incorporation into HMA refer to Section 3-04.  
41

42 **5-04.3(11)A Reject Work – General**

43 Work that is defective or does not conform to Contract requirements shall  
44 be rejected. The Contractor may propose, in writing, alternatives to  
45 removal and replacement of rejected material. Acceptability of such  
46 alternative proposals will be determined at the sole discretion of the  
47 Engineer.  
48

1 **5-04.3(11)B Rejection by Contractor**

2 The Contractor may, prior to acceptance sampling and testing, elect to  
3 remove any defective material and replace it with new material. Any such  
4 new material will be sampled, tested, and evaluated for acceptance.  
5

6 **5-04.3(11)C Rejection Without Testing (Mixture or Compaction)**

7 The Engineer may, without sampling, reject any batch, load, or section of  
8 Roadway that appears defective. Material rejected before placement shall  
9 not be incorporated into the pavement.  
10

11 No payment will be made for the rejected materials or the removal of the  
12 materials unless the Contractor requests the rejected material to be  
13 tested. If the Contractor requests testing, acceptance will be by Statistical  
14 Evaluation, and a minimum of three samples will be obtained and tested.  
15 When uncompacted material is required for testing but not available, the  
16 Engineer will determine random sample locations on the roadway in  
17 accordance with WSDOT Test Method T 716, take cores in accordance  
18 with WSDOT SOP 734, and test the cores in accordance with WSDOT  
19 SOP 737.  
20

21 If the CPF for the rejected material is less than 0.75, no payment will be  
22 made for the rejected material; in addition, the cost of sampling and  
23 testing shall be borne by the Contractor. If the CPF is greater than or  
24 equal to 0.75, the cost of sampling and testing will be borne by the  
25 Contracting Agency. If the material is rejected before placement and the  
26 CPF is greater than or equal to 0.75, compensation for the rejected  
27 material will be at a CPF of 0.75. If rejection occurs after placement and  
28 the CPF is greater than or equal to 0.75, compensation for the rejected  
29 material will be at the calculated CPF with an addition of 25 percent of  
30 the unit Contract price added for the cost of removal and disposal.  
31

32 **5-04.3(11)D Rejection – A Partial Sublot (Mixture or**  
33 **Compaction)**

34 In addition to the random acceptance sampling and testing, the Engineer  
35 may also isolate from a mixture or compaction sublot any material that is  
36 suspected of being defective in relative density, gradation or asphalt  
37 binder content. Such isolated material will not include an original sample  
38 location. The Contracting Agency will obtain a minimum of three random  
39 samples of the suspect material and perform the testing. When  
40 uncompacted material is required for testing but is not available, the  
41 Engineer will select random sample locations on the roadway in  
42 accordance with WSDOT Test Method T 716, take cores samples in  
43 accordance with WSDOT SOP 734, and test the material in accordance  
44 with WSDOT SOP 737. The material will then be statistically evaluated as  
45 an independent lot in accordance with Section 1-06.2(2).  
46

1 **5-04.3(11)E Rejection – An Entire Sublot (Mixture or**  
2 **Compaction)**

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

12 **5-04.3(11)F Rejection - A Lot in Progress (Mixture or**  
13 **Compaction)**

14 The Contractor shall shut down operations and shall not resume HMA  
15 placement until such time as the Engineer is satisfied that material  
16 conforming to the Specifications can be produced when:  
17

- 18 1. the Composite Pay Factor (CPF) of a mixture or compaction lot  
19 in progress drops below 1.00 and the Contractor is taking no  
20 corrective action, or  
21
- 22 2. the Pay Factor (PF<sub>i</sub>) for any constituent of a mixture or  
23 compaction lot in progress drops below 0.95 and the Contractor  
24 is taking no corrective action, or  
25
- 26 3. either the PF<sub>i</sub> for any constituent (or the CPF) of a mixture or  
27 compaction lot in progress is less than 0.75.  
28

29 **5-04.3(11)G Rejection – An Entire Lot (Mixture or Compaction)**

30 An entire lot with a CPF of less than 0.75 will be rejected.  
31

32 **5-04.3(12) Joints**

33 **5-04.3(12)A HMA Joints**

34 **5-04.3(12)A1 Transverse Joints**

35 Conduct operations such that placement of the top or wearing  
36 course is a continuous operation or as close to continuous as  
37 possible. Unscheduled transverse joints will be allowed, but the roller  
38 may pass over the unprotected end of the freshly laid HMA only  
39 when the placement of the course is discontinued for such a length  
40 of time that the HMA will cool below compaction temperature. When  
41 the Work is resumed, cut back the previously compacted HMA to  
42 produce a slightly beveled edge for the full thickness of the course.  
43

44 Construct a temporary wedge of HMA on a 50H:1V where a  
45 transverse joint as a result of paving or planing is open to traffic.  
46 Separate the HMA in the temporary wedge from the permanent HMA  
47 upon which it is placed by strips of heavy wrapping paper or other  
48 methods approved by the Engineer. Remove the wrapping paper and

1 trim the joint to a slightly beveled edge for the full thickness of the  
2 course prior to resumption of paving.

3  
4 Waste the material that is cut away and place new HMA against the  
5 cut. Use rollers or tamping irons to seal the joint.  
6

7 **5-04.3(12)A2 Longitudinal Joints**

8 Offset the longitudinal joint in any one course from the course  
9 immediately below by not more than 6 inches nor less than 2 inches.  
10 Locate all longitudinal joints constructed in the wearing course at a  
11 lane line or an edge line of the Traveled Way. Construct a notched  
12 wedge joint along all longitudinal joints in the wearing surface of  
13 new HMA unless otherwise approved by the Engineer. The notched  
14 wedge joint shall have a vertical edge of not less than the maximum  
15 aggregate size nor more than  $\frac{1}{2}$  of the compacted lift thickness, and  
16 then taper down on a slope not steeper than 4H:1V. Uniformly  
17 compact the sloped portion of the HMA notched wedge joint.  
18

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

- 21
- 22 1. The ramp must remain open to traffic, or
  - 23 2. The ramp is closed to traffic and a hot-lap joint is  
24 constructed.
    - 25 a. Two paving machines shall be used to construct the  
26 hot-lap joint.
    - 27 b. The pavement within 6 inches of the hot-lap joint will  
28 not be excluded from random location selection for  
29 compaction testing.
    - 30 c. Construction equipment other than rollers shall not  
31 operate on any uncompacted HMA.  
32  
33  
34  
35  
36

37 When HMA is placed adjacent to cement concrete pavement,  
38 construct longitudinal joints between the HMA and the cement  
39 concrete pavement. Saw the joint to the dimensions shown on  
40 Standard Plan A-40.10 and fill with joint sealant meeting the  
41 requirements of Section 9-04.2.  
42

43 **5-04.3(13) Surface Smoothness**

44 The completed surface of all courses shall be of uniform texture, smooth,  
45 uniform as to crown and grade, and free from defects of all kinds. The  
46 completed surface of the wearing course shall not vary more than  $\frac{1}{8}$  inch  
47 from the lower edge of a 10-foot straightedge placed on the surface parallel  
48 to the centerline. The transverse slope of the completed surface of the

1 wearing course shall vary not more than ¼ inch in 10 feet from the rate of  
2 transverse slope shown in the Plans.  
3

4 When deviations in excess of the above tolerances are found that result from  
5 a high place in the HMA, correct the pavement surface by one of the  
6 following methods:  
7

- 8 1. Remove material from high places by grinding with an approved  
9 grinding machine, or
- 10 2. Remove and replace the wearing course of HMA, or
- 11 3. By other method approved by the Engineer.  
12  
13  
14

15 Correct defects until there are no deviations anywhere greater than the  
16 allowable tolerances.  
17

18 Deviations in excess of the above tolerances that result from a low place in  
19 the HMA and deviations resulting from a high place where corrective action, in  
20 the opinion of the Engineer, will not produce satisfactory results will be  
21 accepted with a price adjustment. The Engineer shall deduct from monies due  
22 or that may become due to the Contractor the sum of \$500.00 for each and  
23 every section of single traffic lane 100 feet in length in which any excessive  
24 deviations described above are found.  
25

26 When portland cement concrete pavement is to be placed on HMA, the  
27 surface tolerance of the HMA shall be such that no surface elevation lies  
28 above the Plan grade minus the specified Plan depth of portland cement  
29 concrete pavement. Prior to placing the portland cement concrete pavement,  
30 bring any such irregularities to the required tolerance by grinding or other  
31 means approved by the Engineer.  
32

33 When utility appurtenances such as manhole covers and valve boxes are  
34 located in the Traveled Way, pave the Roadway before the utility  
35 appurtenances are adjusted to the finished grade.  
36

### 37 **5-04.3(14) Planing Bituminous Pavement**

38 Plane in such a manner that the underlying pavement is not torn, broken, or  
39 otherwise damaged by the planing operation. Delamination or raveling of the  
40 underlying pavement will not be construed as damage due to the Contractor's  
41 operations. Pavement outside the limits shown in the Plans or designated by  
42 the Engineer that is damaged by the Contractor's operations shall be repaired  
43 to the satisfaction of the Engineer at no additional cost to the Contracting  
44 Agency.  
45

46 For mainline planing operations, use equipment with automatic controls and  
47 with sensors for either or both sides of the equipment. The controls shall be  
48 capable of sensing the grade from an outside reference line, or a mat-



1 referencing device. The automatic controls shall have a transverse slope  
2 controller capable of maintaining the mandrel at the desired transverse slope  
3 (expressed as a percentage) within plus or minus 0.1 percent.  
4

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

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

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

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

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

#### 19 **5-04.4 Measurement**

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

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

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

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

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

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

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

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

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

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

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

2  
3 **5-04.5 Payment**

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

6  
7 "HMA Cl. \_\_\_ PG \_\_\_", per ton.

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

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

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

11 "Commercial HMA", per ton.

12 The unit Contract price per ton for "HMA Cl. \_\_\_ PG \_\_\_", "HMA for Approach Cl.  
13 \_\_\_ PG \_\_\_", "HMA for Preleveling Cl. \_\_\_ PG \_\_\_", "HMA for Pavement Repair Cl.  
14 \_\_\_ PG \_\_\_", and "Commercial HMA" shall be full compensation for all costs,  
15 including anti-stripping additive, incurred to carry out the requirements of Section  
16 5-04 except for those costs included in other items which are included in this  
17 Subsection and which are included in the Proposal.

18  
19 "Crack Sealing-FA", by force account.

20 "Crack Sealing-FA" will be paid for by force account as specified in Section 1-09.6.  
21 For the purpose of providing a common Proposal for all Bidders, the Contracting  
22 Agency has entered an amount in the Proposal to become a part of the total Bid  
23 by the Contractor.

24  
25 "Crack Sealing-LF", per linear foot.

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

28  
29 "Soil Residual Herbicide \_\_\_ ft. Wide", per mile, or

30 "Soil Residual Herbicide", per square yard.

31 The unit Contract price per mile or per square yard for "Soil Residual Herbicide"  
32 shall be full payment for all costs incurred to obtain, provide and install herbicide  
33 in accordance with Section 5-04.3(4)B.

34  
35 "Pavement Repair Excavation Incl. Haul", per square yard.

36 The unit Contract price per square yard for "Pavement Repair Excavation Incl.  
37 Haul" shall be full payment for all costs incurred to perform the Work described in  
38 Section 5-04.3(4)C with the exception, however, that all costs involved in the  
39 placement of HMA shall be included in the unit Contract price per ton for "HMA for  
40 Pavement Repair Cl. \_\_\_ PG \_\_\_", per ton.

41  
42 "Asphalt for Fog Seal", per ton.

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

44  
45 "Longitudinal Joint Seal", per linear foot.

46 The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full  
47 payment for all costs incurred to construct the longitudinal joint between HMA and  
48 cement concrete pavement, as described in Section 5-04.3(12)B.

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

"HMA Sawcut And Seal", per linear foot.  
The unit Contract price per linear foot for "HMA Sawcut And Seal" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(12)B1.

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

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

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

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

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

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

"HMA Core – Bridge", per each.  
The unit Contract price per each for "HMA Core – Bridge" shall be full payment for all costs, including traffic control, associated with taking HMA density cores in pavement that is on a bridge deck.

"HMA Core – Roadway", per each.  
The unit Contract price per each for "HMA Core – Roadway" shall be full payment for all costs, including traffic control, associated with taking HMA density cores in pavement that is not on a bridge deck.

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

1 8-01.AP8  
2 **Section 8-01, Erosion Control and Water Pollution Control**  
3 **August 1, 2016**

4 **8-01.2 Materials**

5 This section is supplemented with the following new paragraph:  
6

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

9 **8-01.3(7) Stabilized Construction Entrance**

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

12 Material used for stabilized construction entrance shall be free of extraneous materials  
13 that may cause or contribute to track out.  
14

15 **8-01.3(8) Street Cleaning**

16 This section is revised to read:  
17

18 Self-propelled street sweepers shall be used to remove and collect sediment and other  
19 debris from the Roadway, whenever required by the Engineer. The street sweeper shall  
20 effectively collect these materials and prevent them from being washed or blown off  
21 the Roadway or into waters of the State. Street sweepers shall not generate fugitive  
22 dust and shall be designed and operated in compliance with applicable air quality  
23 standards.  
24

25 Material collected by the street sweeper shall be disposed of in accordance with  
26 Section 2-03.3(7)C.  
27

28 Street washing with water will require the concurrence of the Engineer.  
29

30 8-09.AP8  
31 **Section 8-09, Raised Pavement Markers**  
32 **January 3, 2017**

33 **8-09.5 Payment**

34 In the last paragraph, "flaggers and spotters" is revised to read "flaggers".  
35

36 **8-20.1 Description**

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

39 **8-20.1(3) Permitting and Inspections**

40 Electrical installations are subject to electrical inspection in accordance with RCW  
41 19.28.101. Electrical inspections may only be performed by an electrical inspector  
42 meeting the requirements of RCW 19.28.321. Electrical installations will not be  
43 accepted until they have been inspected and approved by an electrical inspector as  
44 required by this Section. This inspection is required even if there is no new electrical  
45 service or new electrical meter being installed in the Contract.  
46

1 Installations within WSDOT right of way are subject to a minimum of a final inspection  
2 by a WSDOT certified electrical inspector as allowed by RCW 19.28.141. A separate  
3 permit is not required for electrical installations within WSDOT right of way. Additional  
4 inspections may be required at the discretion of the Engineer.  
5

6 Installations outside of WSDOT right of way are subject to permitting and inspection by  
7 the Washington State Department of Labor and Industries (L&I) or a local jurisdiction  
8 approved for that location by L&I. Approved local jurisdictions and their contacts may  
9 be found on the L&I website at  
10 <http://www.lni.wa.gov/TradesLicensing/Electrical/FeePermInsp/CityInspectors/>.

### 11 12 **8-20.1(1) Regulations and Code**

13 The second paragraph is revised to read:

14  
15 Wherever reference is made in these Specifications or in the Special Provisions to the  
16 Code, the rules, or the standards mentioned above, the reference shall be construed to  
17 mean the code, rule, or standard that is in effect on the Bid advertisement date.  
18

19 8-22.AP8

### 20 **Section 8-22, Pavement Marking** 21 **August 7, 2017**

### 22 **8-22.3(6) Removal of Pavement Markings**

23 This section is revised to read:

24  
25 Pavement markings to be removed shall be obliterated until all blemishes caused by  
26 the pavement marking removal conform to the coloration of the adjacent pavement.  
27

28 Grinding to remove pavement markings in their entirety is allowed in areas designated  
29 for applications of either Hot Mix Asphalt (HMA) or Bituminous Surface Treatment  
30 (BST). Pavement marking removal shall be performed from April 1<sup>st</sup> through  
31 September 30<sup>th</sup> and only in those areas that shall be paved within the same time  
32 window as the grinding, unless otherwise allowed by the Engineer in writing.  
33

34 For all cement concrete pavement and areas that will not be overlaid with hot mix  
35 asphalt or BST, grinding is allowed to a depth just above the pavement surface and  
36 then Water blasting or shot blasting shall be required to remove the remaining  
37 pavement markings.  
38

39 If in the opinion of the Engineer, the pavement is materially damaged by pavement  
40 marking removal, such damage shall be repaired by the Contractor in accordance with  
41 Section 1-07.13(1). Sand or other material deposited on the pavement as a result of  
42 removing lines and markings shall be removed as the Work progresses to avoid  
43 hazardous conditions. Accumulation of sand or other material which might interfere  
44 with drainage will not be permitted.  
45

1  
2 **8-22.4 Measurement**

3 The first two sentences of the fourth paragraph are revised to read:  
4

5 The measurement for "Painted Wide Lane Line", "Plastic Wide Lane Line", "Profiled  
6 Plastic Wide Lane Line", "Painted Barrier Center Line", "Plastic Barrier Center Line",  
7 "Painted Stop Line", "Plastic Stop Line", "Painted Wide Dotted Entry Line", or "Plastic  
8 Wide Dotted Entry Line" will be based on the total length of each painted, plastic or  
9 profiled plastic line installed. No deduction will be made for the unmarked area when  
10 the marking includes a broken line such as, wide broken lane line, drop lane line, wide  
11 dotted lane line or wide dotted entry line.  
12

13 **8-22.5 Payment**

14 The following two new Bid items are inserted after the Bid item "Plastic Crosshatch  
15 Marking", per linear foot:  
16

17 "Painted Wide Dotted Entry Line", per linear foot.  
18

19 "Plastic Wide Dotted Entry Line", per linear foot.  
20

21 9-03.AP9

22 **Section 9-03, Aggregates**  
23 **August 7, 2017**

24 **9-03.1(1) General Requirements**

25 In this section, each reference to "Section 9-01.2(3)" is revised to read "Section 9-  
26 01.2(1)A".  
27

28 This first paragraph is supplemented with the following:  
29

30 Reclaimed aggregate may be used if it complies with the specifications for Portland  
31 Cement Concrete. Reclaimed aggregate is aggregate that has been recovered from  
32 plastic concrete by washing away the cementitious materials.  
33

34 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**

35 This section is revised to read:  
36

37 Fine aggregate shall consist of natural sand or manufactured sand, or combinations  
38 thereof, accepted by the Engineer, having hard, strong, durable particles free from  
39 adherent coating. Fine aggregate shall be washed thoroughly to meet the  
40 specifications.  
41

42 **9-03.1(2)A Deleterious Substances**

43 This section is revised to read:  
44

45 The amount of deleterious substances in the washed aggregate shall be tested in  
46 accordance with AASHTO M 6 and not exceed the following values:  
47

1	Material finer than No. 200 Sieve	2.5 percent by weight
2	Clay lumps and friable particles	3.0 percent by weight
3	Coal and lignite	0.25 percent by weight
4	Particles of specific gravity less than 2.00	1.0 percent by weight.

5  
6 Organic impurities shall be tested in accordance with AASHTO T 21 by the glass  
7 color standard procedure and results darker than organic plate no. 3 shall be  
8 rejected. A darker color results from AASHTO T 21 may be used provided that  
9 when tested for the effect of organic impurities on strength of mortar, the relative  
10 strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95  
11 percent.

12  
13 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**

14 This section is revised to read:

15  
16 Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or  
17 combinations thereof having hard, strong, durable pieces free from adherent coatings.  
18 Coarse aggregate shall be washed to meet the specifications.

19  
20 **9-03.1(4)A Deleterious**

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

22  
23 **9-03.1(4)A Deleterious Substances**

24 The amount of deleterious substances in the washed aggregate shall be tested in  
25 accordance with AASHTO M 80 and not exceed the following values:

26		
27	Material finer than No. 200	1.0 <sup>1</sup> percent by weight
28	Clay lumps and Friable Particles	2.0 percent by weight
29	Shale	2.0 percent by weight
30	Wood waste	0.05 percent by weight
31	Coal and Lignite	0.5 percent by weight
32	Sum of Clay Lumps, Friable Particles, and	
33	Chert (Less Than 2.40 specific gravity SSD)	3.0 percent by weight

34  
35 <sup>1</sup>If the material finer than the No. 200 sieve is free of clay and shale, this  
36 percentage may be increased to 1.5.

37  
38 **9-03.1(4)C Grading**

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

40  
41 Where coarse aggregate size 467 is used, the aggregate may be furnished in at least  
42 two separate sizes.

43  
44 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

45 This section is revised to read:

46  
47 As an alternative to using the fine aggregate sieve grading requirements in Section 9-  
48 03.1(2)B, and coarse aggregate sieve grading requirements in Section 9-03.1(4)C, a

1 combined aggregate gradation conforming to the requirements of Section 9-03.1(5)A  
2 may be used.

3  
4 **9-03.1(5)A Deleterious Substances**

5 This section is revised to read:

6  
7 The amount of deleterious substances in the washed aggregates  $\frac{3}{8}$  inch or larger shall  
8 not exceed the values specified in Section 9-03.1(4)A and for aggregates smaller than  
9  $\frac{3}{8}$  inch they shall not exceed the values specified in Section 9-03.1(2)A.

10  
11 **9-03.1(5)B Grading**

12 The first paragraph is deleted.

13  
14 **9-03.8(2) HMA Test Requirements**

15 In the table in item number 3, the heading "Statistical and Nonstatistical" is revised to read  
16 "Statistical".

17  
18 **9-03.8(7) HMA Tolerances and Adjustments**

19 In the table in item number 1, the column titled "Nonstatistical Evaluation" is deleted.

20  
21 In the table in item 1, the last column titled "Commercial Evaluation" is revised to read  
22 "Visual Evaluation".

23  
24 **9-03.21(1)B Concrete Rubble**

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

26  
27 **9-03.21(1)B Recycled Concrete Aggregate**

28 Recycled concrete aggregates are coarse aggregates manufactured from hardened  
29 concrete mixtures. Recycled concrete aggregate may be used as coarse aggregate or  
30 blended with coarse aggregate for Commercial Concrete. Recycled concrete aggregate  
31 shall meet all of the requirements for coarse aggregate contained in Section 9-03.1(4)  
32 or 9-03.1(5). In addition to the requirements of Section 9-03.1(4) or 9-03.1(5),  
33 recycled concrete shall:

- 34  
35 1. Contain an aggregated weight of less than 1 percent of adherent fines,  
36 vegetable matter, plastics, plaster, paper, gypsum board, metals, fabrics,  
37 wood, tile, glass, asphalt (bituminous) materials, brick, porcelain or other  
38 deleterious substance(s) not otherwise noted;
- 39  
40 2. Be free of components such as chlorides and reactive materials that are  
41 detrimental to the concrete, unless mitigation measures are taken to prevent  
42 recurrence in the new concrete;
- 43  
44 3. Have an absorption of less than 10 percent when tested in accordance with  
45 AASHTO T 85.
- 46  
47 4. Be considered mechanically fractured and therefore be considered part of the  
48 total fracture calculation as determined by the FOP for AASHTO T 335.



1  
2 Recycled concrete aggregate shall be in a saturated condition prior to mixing.

3  
4 Recycled concrete aggregate shall not be placed below the ordinary high water mark of  
5 any surface water of the State.

6  
7 **9-03.21(1)D Recycled Steel Furnace Slag**

8 This section title is revised to read:

9  
10 **Steel Slag**

11  
12 **9-03.21(1)E Table on Maximum Allowable Percent (By Weight) of Recycled**  
13 **Material**

14  
15 In the Hot Mix Asphalt column, each value of "20" is revised to read "25".

16  
17 The last column heading "Steel Furnace Slag" is revised to read "Steel Slag".

18  
19 The following new row is inserted after the second row:

20

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

21  
22 9-04.AP9

23 **Section 9-04, Joint and Crack Sealing Materials**  
24 **January 3, 2017**

25 This section is supplemented with the following two new subsections:

26  
27 **9-04.11 Butyl Rubber Sealant**

28 Butyl rubber sealant shall conform to ASTM C 990.

29  
30 **9-04.12 External Sealing Band**

31 External sealing band shall by Type III B conforming to ASTM C 877.

32  
33 **9-04.2(1)B Sand Slurry for Bituminous Pavement**

34 Sand slurry is mixture consisting of the following components measured by total  
35 weight:

- 36  
37 1. Twenty percent CSS-1 emulsified asphalt,  
38  
39 2. Two percent portland cement, and  
40  
41 3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B  
42 Class 2. Fine aggregate may be damp (no free water).  
43

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

9-14.AP9  
**Section 9-14, Erosion Control and Roadside Planting**  
**August 7, 2017**

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

The first paragraph is revised to read:

All HECPs shall be made of natural plant fibers unaltered by synthetic materials, and in a dry condition, free of noxious weeds, seeds, chemical printing ink, germination inhibitors, herbicide residue, chlorine bleach, rock, metal, plastic, and other materials detrimental to plant life.

The last sentence of the third paragraph is revised to read the following two sentences:

Under no circumstances will field mixing of additives or components be acceptable, with the exception of seed and water. The product shall be hydrated in accordance with the manufacturer's recommendations.

In Table 1 of the fourth paragraph, the following new row is inserted below the table heading:

<b>These test requirements apply to the fully mixed product, including tackifiers, dyes, or other additives that may be included in the HECP final product in its sprayable form.</b>
---

The last two paragraphs are revised to read:

If the HECP contains a dye to facilitate placement and inspection of the material, it shall be nontoxic to plants, animals, and aquatic life and shall not stain concrete or painted surfaces.

The HECP shall not be harmful to plants, animals, and aquatic life.

**9-14.4(4) Wood Strand Mulch**

The last paragraph is revised to read:

The Contractor shall provide a test report performed in accordance with WSDOT T 125 demonstrating compliance to this specification prior to acceptance. This product shall not be harmful to plants, animals, and aquatic life.

**9-14.4(7) Tackifier**

The first paragraph is supplemented with the following:

Tackifiers shall include a mulch tracer added to visible aid uniform application, and shall not be harmful to plants, animals, or aquatic life.

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

1  
2 The Contractor shall provide test results documenting the tackifier and mulch tracer  
3 meets the requirements for Acute Toxicity, Solvents, and Heavy Metals as required in  
4 Table 1 in Section 9-14.4(2).  
5

6 **9-14.4(7)A Organic Tackifier**

7 This section is revised to read:  
8

9 Organic tackifiers shall be derived from natural plant sources and shall not be harmful  
10 to plants, animals, and aquatic life.  
11

12 **9-14.4(7)B Synthetic Tackifier**

13 This section is revised to read:  
14

15 Synthetic tackifiers shall not be harmful to plants, animals, and aquatic life.  
16

17 **9-14.5(2) Biodegradable Erosion Control Blanket**

18 The first paragraph is revised to read:  
19

20 Biodegradable erosion control blankets, including netting if present, shall be made of  
21 natural plant fibers unaltered by synthetic materials. All blanket material shall  
22 effectively perform the intended erosion control function until permanent vegetation  
23 has been established, or for a minimum of 6 months, whichever comes first.  
24

25 **9-14.5(4)A Biodegradable Check Dams**

26 This section is revised to read:  
27

28 Biodegradable check dams shall meet the following requirements:  
29

30	Wattle	Section 9-14.5(5)
31	Compost Sock	Section 9-14.5(6)
32	Coir Log	Section 9-14.5(7)

33  
34 The Contractor may substitute a different biodegradable check dam as long as it  
35 complies with the following and is accepted by the Engineer:  
36

- 37 1. Made of natural plant fiber unaltered by synthetic material.
- 38
- 39 2. Netting if present shall be made of natural plant fibers unaltered by synthetic  
40 materials. Materials shall effectively perform the intended erosion control  
41 function until permanent vegetation has been established or for a minimum of  
42 6 months, whichever comes first.
- 43
- 44 3. Straw bales shall not be used as check dams.  
45

1  
2  
3 **9-14.5(5) Wattles**

4 This section is revised to read:

5  
6 Wattles shall consist of cylinders of plant material such as weed-free straw, coir, wood  
7 chips, excelsior, or wood fiber or shavings encased within netting made of natural plant  
8 fibers unaltered by synthetic materials. Wattles shall be a minimum of 8 inches in  
9 diameter. Netting material shall be clean, evenly woven, and free of encrusted  
10 concrete or other contaminating materials such as preservatives. Netting material shall  
11 be free from cuts, tears, or weak places and shall effectively perform the intended  
12 erosion control function until permanent vegetation has been established or for a  
13 minimum of 6 months, whichever comes first.

14  
15 If wood chip filler is used, it shall meet the material requirements as specified in  
16 Section 9-14.4(3). If straw filler is used, it shall meet the material requirements as  
17 specified in Section 9-14.4(1). If wood shavings are used, 80 percent of the fibers shall  
18 have a minimum length of 6 inches between 0.030 and 0.50 inches wide and between  
19 0.017 and 0.13 inches thick.

20  
21 Stakes for wattles shall be made of wood from untreated Douglas fir, hemlock, or pine  
22 species.

23  
24 **9-14.5(6) Compost Socks**

25 This section is revised to read:

26  
27 Compost socks shall consist of fabric made of natural plant fibers unaltered by  
28 synthetic materials. The compost sock shall be filled with Medium Compost as specified  
29 in Section 9-14.4(8). Compost socks shall be at least 8 inches in diameter. The sock  
30 shall be clean, evenly woven; free of encrusted concrete or other contaminating  
31 materials; free from cuts, tears, broken or missing yarns; free of thin, open, or weak  
32 areas; and free of any type of preservative. Sock fabric shall effectively perform the  
33 intended erosion control function until permanent vegetation has been established or  
34 for a minimum of 6 months, whichever comes first.

35  
36 Stakes for compost socks shall be made of wood from untreated Douglas fir, hemlock,  
37 or pine species.

38  
39 9-23.AP9

40 **Section 9-23, Concrete Curing Materials and Admixtures**  
41 **January 3, 2017**

42 **9-23.9 Fly Ash**

43 The first paragraph is revised to read:

44  
45 Fly ash shall conform to the requirements of AASHTO M295 Class C or F including  
46 supplementary optional chemical requirements as set forth in Table 2.  
47

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

2

3 The supplementary optional chemical limits in AASHTO M295 Table 2 do not apply to  
4 fly ash used in Controlled Density Fill.

5

6 **9-23.12 Metakaolin**

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

8

9 **9-23.12 Natural Pozzolan**

10 Natural Pozzolans shall be either Metakaolin or ground Pumice and shall conform to the  
11 requirements of AASHTO M295 Class N, including supplementary optional chemical  
12 requirements as set forth in Table 2.

13

## **INTRODUCTION TO THE SPECIAL PROVISIONS**

*(August 14, 2013 APWA GSP)*

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

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

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

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 Federal Way Public Works Development Standards
- National Electrical Code, current edition
- King County Road Standards – 2007

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

These publications are incorporated in this contract by reference as if set forth herein in full. The Contractor's attention is called to the fact that said publications contain general conditions to this contract as well as construction details. The responsibility of supplying himself with those publications shall rest with the Contractor.

## **DESCRIPTION OF WORK**

The work to be performed under this Contract consists of furnishing materials, equipment, tools, labor, and other work or items incidental thereto (excepting any materials, equipment, utilities or service, if any, specified herein to be furnished by the Owner or others), and performing all work as required by the Contract in accordance with the Contract Documents, all of which are made a part hereof. This contract provides for the improvement of certain streets and roads in the City of Federal Way, as listed on the following page.

The project shall consist of overlaying existing asphalt concrete pavement in up to four (4) different locations within the City of Federal Way. The work shall include, but is not limited to: Hot Mix Asphalt (HMA Class 1/2" PG 64-22) pavement overlay (approximately 6,580 tons), roadway excavation, pavement repair, planing bituminous pavement, removal and replacement of existing concrete curb & gutters, sidewalks, approaches, curb ramps, repairing or re-aligning manholes and catch basins, traffic signal detection loops, pedestrian push button, traffic markings, restoration, utility adjustments, and all items necessary to complete the work as described in the Contract Documents.

The following roads are included in this work:

**SCHEDULE A – S 312<sup>th</sup> St**

*S 312<sup>th</sup> ST* From PACIFIC HWY S To 28<sup>th</sup> AVE S

**SCHEDULE B – 23<sup>rd</sup> AVE S**

*23<sup>rd</sup> AVE S* From S 312<sup>th</sup> ST To S 319<sup>th</sup> PL  
*SW 330<sup>th</sup> ST* From 6<sup>th</sup> AVE SW To 3<sup>rd</sup> AVE SW

**SCHEDULE C – WEYERHAEUSER WAY S PAVEMENT REPAIR**

*WEYERHAEUSER WAY S* From S 344<sup>th</sup> WY To 33<sup>rd</sup> PL S/ROUND-A-BOUT

**SCHEDULE D – MILITARY ROAD S PAVEMENT REPAIR**

*MILITARY ROAD S* From 38<sup>th</sup> AVE S To 39<sup>th</sup> AVE S

## **DIVISION 1 GENERAL REQUIREMENTS**

The General Requirements shall be as outlined in the 2016 WSDOT/APWA Standard Specifications, together with the APWA Supplement (Division 1-99), except as modified by these Special Provisions.

### **1-01 DEFINITIONS AND TERMS**

#### **1-01.3 Definitions**

*(March 8, 2013 APWA GSP)*

Section 1-01.3 is supplemented with the following:

##### **Additive**

A supplemental unit of work or group of bid items, identified separately in the proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

##### **Alternate**

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

##### **Contract Documents**

See definition for "Contract."

##### **Contract Time**

The period of time established by the terms and conditions of the contract within which the work must be physically completed.

##### **Dates**

###### ***Bid Opening Date***

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

###### ***Award Date***

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

###### ***Contract Execution Date***

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

###### ***Notice to Proceed Date***

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

###### ***Substantial Completion Date***

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, 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.

**Notice of Award**

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

**Notice to Proceed**

The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the work and establishing the date on which the contract time begins.

**Traffic**

Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

**1-02 Bid Procedures and Conditions**

**1-02.1 Prequalification of Bidders**

Delete this section in its entirety.

**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 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")	5	Furnished automatically upon award.

Contract Provisions	5	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	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**

Section 1-02.4 is supplemented with the following:

Minor variations and miscellaneous items may not be shown in the Plans. In accordance with the Standard Specifications, it shall be the contractor's responsibility to examine the site, familiarize himself with all attendant conditions and determine the difficulties of the work involved. Contractor shall accept the site in its existing condition at the time of the award of contract.

**1-02.5 Proposal Forms**

*(July 31, 2017 APWA GSP)*

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

Section 1-02.5 is supplemented with the following:

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

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

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

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

### **1-02.6 Preparation of Proposal**

*(June 20, 2017 APWA GSP)*

Section 1-02.6 is supplemented the second paragraph with the following:

The City Of Federal Way invites bids on the form enclosed to be submitted at such time and place as is stated in the Call for Bids.

ALL BLANKS IN THE PROPOSAL FORMS MUST BE APPROPRIATELY FILLED IN AND ALL PRICES MUST BE STATED IN LEGIBLE FIGURES.

Bids or proposals shall be addressed as follows:

Purchasing Office  
City of Federal Way  
33325 8<sup>th</sup> Avenue South  
Federal Way, WA 98003-6325

The envelope shall be plainly marked "2018 Asphalt Overlay Project".

Proposal envelopes sent by mail shall be further sealed in another envelope, addressed as above.

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

### **1-02.6(2) Interpretation of Bid Documents**

**New Section**

*(November 28, 2017 \*\*\*\*\*)*

If any person contemplating submitting a bid for the proposed Contract is in doubt as to the true meaning of any part of the plans, specifications or other documents, he may submit to the City a written request for an interpretation thereof. Any interpretation of the proposed Contract documents will be made by an addendum duly issued and a copy of such addendum will be mailed or faxed to each person receiving a set of the plans and specifications and each bidder shall acknowledge receipt of such addendum received in order to have the bid considered. The Owner will not be responsible for any other explanations or interpretations of the proposed Contract documents during the advertisement period.

No verbal agreement or conversation with any officer, agent or employee of the Owner, 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. Any such verbal explanation shall be considered unofficial information and in no way binding upon the Owner.

### **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.

### **1-02.9 Delivery of Proposal**

*(July 31, 2017 APWA GSP, Option A)*

Delete this section and replace it with the following:

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

If the project has FHWA funding and requires UDBE Written Confirmation Document(s) or Good Faith Effort (GFE) Documentation, then to be considered responsive, the Bidder shall submit Written Confirmation Documentation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification, form 272-056U, as required by Section 1-02.6. The UDBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The document(s) shall be received **no later than 24 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes" document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1) (g), as required per Section 1-02.14. The "Certification of Compliance with Wage Payment Statutes" document shall be received either with the Bid Proposal or **no later than 24 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted in a sealed envelope labeled the same as for the Proposal, with "Supplemental Information" added. All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any "Supplemental Information" (UDBE confirmations, GFE documentation, or Certification of Compliance with Wage Payment Statutes) that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

### **1-02.11 Combination and Multiple Proposals**

Section 1-02.11 is supplemented with the following:

No person, firm or corporation shall be allowed to make, or file, or be interested in more than one bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a sub-proposal to bidder, or that has quoted prices of materials to a bidder is not thereby disqualified from submitting a sub-proposal or quoting price to other bidders or making a prime proposal.

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

Section 1-02.12 is supplemented with the following:

The Contracting Agency reserves the right to postpone the date and time for bid opening. Notification to bidder will be by addenda.

### **1-02.13 Irregular Proposals**

*(June 20, 2017 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 an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
  - i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE 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 UDBE 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**

*(July 31, 2017 APWA GSP, Option B)*

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; or does not meet Supplemental Criteria 1-7 listed in this Section.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence that the Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as stated later in this Section.

In addition, the Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes" document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1)(g). A form appropriate for "Certification of Compliance with

Wage Payment Statutes" will be provided by the Contracting Agency in the Bid Documents. The form provided in the Bid Documents shall be submitted with the Bid as stated in Section 1-02.9.

1. **Delinquent State Taxes**

- A Criterion: The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plan approved by the Department of Revenue.
- B. Documentation: The Bidder shall not be listed on the Washington State Department of Revenue's "Delinquent Taxpayer List" website: <http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx> , or if they are so listed, they must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency by the deadline listed below.

2. **Federal Debarment**

- A Criterion: The Bidder shall not currently be debarred or suspended by the Federal government.
- B. Documentation: The Bidder shall not be listed as having an "active exclusion" on the U.S. government's "System for Award Management" database ([www.sam.gov](http://www.sam.gov)).

3. **Subcontractor Responsibility**

- A Criterion: The Bidder's standard subcontract form shall include the subcontractor responsibility language required by RCW 39.06.020, and the Bidder shall have an established procedure which it utilizes to validate the responsibility of each of its subcontractors. The Bidder's subcontract form shall also include a requirement that each of its subcontractors shall have and document a similar procedure to determine whether the sub-tier subcontractors with whom it contracts are also "responsible" subcontractors as defined by RCW 39.06.020.
- B. Documentation: The Bidder, if and when required as detailed below, shall submit a copy of its standard subcontract form for review by the Contracting Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Claims Against Retainage and Bonds**

- A Criterion: The Bidder shall not have a record of excessive claims filed against the retainage or payment bonds for public works projects in the three years prior to the bid submittal date, that demonstrate a lack of effective management by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the public works projects completed in the three years prior to the bid submittal date that have had claims against retainage and bonds and include for each project the following information:

- Name of project
- The owner and contact information for the owner;
- A list of claims filed against the retainage and/or payment bond for any of the projects listed;
- A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

5. **Public Bidding Crime**

A Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

6. **Termination for Cause / Termination for Default**

A Criterion: The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances. .

7. **Lawsuits**

A Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five



years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets Supplemental Criteria 3-7 stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets supplemental criteria 3-7 together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with Supplemental Criteria 3-7. The Contracting Agency reserves the right to request further documentation as needed from the low Bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

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

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within 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.

Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5) business days prior to the bid submittal deadline and address

the request to the Project Engineer or such other person designated by the Contracting Agency in the Bid Documents.

### **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.

## **1-3 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.

Supplement with the following:

The Owner reserves the right to reject bids on any or all schedules or alternates of the proposal. After reviewing the bids, the Owner may elect to delete any one or combination of schedules from the proposal.

### **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 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 prevent return of the contract documents within 10 calendar days after the award date, the Contracting Agency may grant up to a maximum of 5 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

### **1-03.4 Contract Bond**

*(July 23, 2015 APWA GSP)*

Delete the first paragraph and replace it with the following:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. The bond may be a combined payment and performance bond; or be separate payment and performance bonds. In the case of separate payment and performance bonds, 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,
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).

## **1-04 SCOPE OF WORK**

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

*(March 13, 2012 APWA GSP)*

Section 1-04.2 is supplemented with the following:

The Contract Documents are ordered as follows:

1. The Contract Agreement
2. Change Order
3. Addenda
4. Bid Schedule
5. Special Provisions, including APWA General Special Provisions, if they are included
6. Contract Plans and Standard Details
7. Standard Specifications (including Standard Plans and Amendments made thereto), and Documents incorporated by reference
8. Information for Bidders  
(Call for Bids)  
(Non-addendum Information given to Bidders at their request)

In case of discrepancies, the document(s) assigned the smaller number(s) shall govern over items having larger numbers. Units of measurement in the Bid Schedule shall govern over units of measurement in the Specifications and Provisions. In the Plans or drawings, correctly calculated dimensions shall govern over scaled or approximately stated dimensions. In case of any ambiguity or dispute over interpretation of the provisions of the Contract Documents, the decision of the Engineer shall be final.

## **1-04.6 Variation in Estimated Quantities**

Supplement this Section with the following:

Section 1-04.6 of the Standard Specifications shall apply except that payment of any one item shall be at the appropriate unit contract price bid, regardless of whether the total quantity increases or decreases by more than twenty-five percent (25%).

## **1-04.9 Use of Buildings or Structures**

Section 1-04.9 is supplemented with the following:

### **Use of Adjacent Properties**

It shall be the Contractor's responsibility to confine its construction activities within the right of way limits, unless he makes separate arrangements for use of private property. Before using any private property adjoining the work, the Contractor shall file with the Engineer a written permission of the property owner and upon vacating the premises the Contractor shall furnish the Engineer with a release from all damages, properly executed by the property owner and satisfactory to the Owner.

The Contractor shall confine its equipment, storage of materials and operation of work to the limits indicated by law, ordinances, permits or direction of the Engineer and shall not unreasonably encumber the premises with his materials.

## **1-04.11 Final Cleanup**

Section 1-04.11 is supplemented with the following:

Finish and cleanup shall be accomplished as specified in Section 1-04.11 of the Standard Specifications and shall be considered as incidental to the construction of the project and all costs thereof shall be included by the Contractor in the unit cost price of other bid items.

### **1-04.11(A) Disposal**

**New Section**

*(Special Provision)*

Disposal of all excess excavated material and debris shall be the sole responsibility of the Contractor unless otherwise directed by the Engineer. It should be noted that a permit is required to fill within the City limits of Federal Way.

Disposal shall be considered as incidental to the construction of the project and all costs thereof shall be included by the Contractor in the unit prices of other bid items.

## **1-05 CONTROL OF WORK**

### **1-05.1(A) Determination of "Or Equivalent"**

**New Section**

*(Special Provision)*

The Engineer will be the sole judge in the question of "or equivalent" of any supplies or materials proposed by the Contractor. The Contractor shall pay to the Owner the cost of tests and evaluation by the Engineer to determine acceptability of alternates proposed by the

Contractor, in accordance with the established rates of the Engineer for time and expense work, the total cost of which may be offset by the Owner against the Contract price.

### **1-05.3 Plans and Working Drawings**

Section 1-05.3 is supplemented with the following:

Shop drawings and/or catalog cuts shall be furnished by the Contractor for all items indicated in various sections of these contract plans, Standard Specifications, and Special Provisions. A minimum of five (5) copies shall be submitted for the Owner and Engineer's use; additional copies required by the Contractor shall be submitted at the same time. The Contractor's copies will be returned to the Contractor with the appropriated action.

### **1-05.5 Construction Stakes**

### **New Section**

*(Special Provision)*

Intent - It is the intent of this section to define the staking services that the Owner will furnish, and to set forth the responsibilities of the Contractor respecting the use and maintenance of same.

Scope - The Owner will furnish the stakes and reference marks for the construction of the improvements covered by this contract. No stakes other than those enumerated at the end of this section will be furnished, except as requested in writing by the Contractor and paid for by him. This applies to all re-staking for whatever reason, as well as for additional staking which the Contractor may request.

Notification - The Contractor shall keep the Engineer informed in advance as to when and where the Contractor intends to work, thus enabling the Engineer to set the engineering control points, lines, and grades with a minimum of delay and interference. The Contractor shall notify the Engineer at least forty-eight (48) hours in advance of the date when specific staking services are desired and shall stipulate at that time the particular stakes or marks required, giving the specific location and/or limiting stations, kind of stakes, offsets, and other pertinent information. Delays by reason of lack of stakes are deemed a risk to the Contractor and shall not be the basis for claims for additional compensation.

Control Stakes - Stakes which constitute reference points for all construction work will be conspicuously marked with an appropriate color of flagging tape. It will be the responsibility of the Contractor to inform its employees and his subcontractors of their importance, and the necessity for their preservation. The cost of replacing such controls, should it become necessary for any reason whatsoever, shall be at the Contractor's expense. If the removal of a control stake is required by the construction operations of the Contractor or its subcontractors, advance notice of at least forty-eight (48) hours shall be given to the Engineer, who will reference and remove said stake or stakes at no cost to the Contractor.

Checking Service - Should occasion arise where the validity of a stake is questioned, either as to its location or the offset marked thereon, or as to the elevation of cut or fill marked thereon, the Contractor shall notify the Engineer, who will check the stake or stakes in question. It shall be the Contractor's responsibility to examine the stakes before commencing operations. Any stakes found to be in error will be reset. There will be no charge to the Contractor for this

service; and it is understood and agreed that the Owner will not be charged for any standby or "down" time as a result of such checking and/or resetting procedure.

Staking Services - The Owner will furnish the following stakes and reference marks as applicable:

1. Handicapped Ramps - Locations and limits of removal shall be established for removal and replacement of curb ramp.
2. Limits of overlay - Locations and limits of the asphalt overlay will be established.
3. Pavement Repair - Location and limits of pavement repair areas will be established.
4. Sidewalk, Curb and Gutter - Locations and limits of removal shall be established.

### **1-05.7 Removal of Defective and Unauthorized Work**

*(October 1, 2005 APWA GSP)*

Supplement this section with the following:

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

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

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

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

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

## **1-05.11 Final Inspection**

Delete this section and replace it with the following:

### **1-05.11 Final Inspections and Operational Testing**

*(October 1, 2005 APWA GSP)*

#### **1-05.11(1) Substantial Completion Date**

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

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

### **1-05.12(1) One-Year Guarantee Period (March 8, 2013 APWA GSP)**

The Contractor shall return to the project and repair or replace all defects in workmanship and material discovered within one year after Final Acceptance of the Work. The Contractor shall start work to remedy any such defects within 7 calendar days of receiving Contracting Agency's written notice of a defect, and shall complete such work within the time stated in the Contracting Agency's notice. In case of an emergency, where damage may result from delay or where loss of services may result, such corrections may be made by the Contracting Agency's own forces or another contractor, in which case the cost of corrections shall be paid by the Contractor. In the event the Contractor does not

accomplish corrections within the time specified, the work will be otherwise accomplished and the cost of same shall be paid by the Contractor.

When corrections of defects are made, the Contractor shall then be responsible for correcting all defects in workmanship and materials in the corrected work for one year after acceptance of the corrections by Contracting Agency.

This guarantee is supplemental to and does not limit or affect the requirements that the Contractor's work comply with the requirements of the Contract or any other legal rights or remedies of the Contracting Agency.

### **1-05.12 (2) Maintenance Periods**

*(January 19, 2016 \*\*\*\*\*)*

On non-FHWA projects, when the work involves such items as machinery or other mechanical equipment, either furnished or installed by the Contractor or, furnished by the Owner and installed by the Contractor; buildings; or work which may otherwise be of such a nature that it is desirable by the Owner to have the Contractor maintain and/or test the work for a period of time after final inspection by the Engineer, the following shall apply.

It is the intent of the Owner to have at final acceptance, a complete and operable system. Therefore, such items of work as may be listed in the Contract documents shall be fully tested under operating conditions to ensure their acceptability prior to final acceptance. The Contractor shall, upon completion of the work and following final inspection, operate the complete system under the observation of the Engineer for a test period of no less than fourteen (14) consecutive calendar days. During and following this 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. All equipment, electrical controls, meters and other devices to be tested during this period will be tested under the supervision of the Engineer so as to determine their suitability for the purpose for which they were installed. All costs for power, gas, labor material, supplies and incidentals, shall be borne by the Contractor unless specifically set for otherwise in the Contract Documents.

When such periods are desired by the Owner, such periods shall not affect any manufacturer's guarantees or warranties furnished to the Owner under the terms of the Contract.

The Contractor's attention is called to Section 1-05.18 of these Special Provisions.

### **1-05.13 Superintendents, Labor and Equipment of Contractor**

*(August 14, 2013 APWA GSP)*

Delete the sixth and seventh paragraphs of this section.

### **1-05.14 Cooperation with Other Contractors**

Section 1-05.14 is supplemented with the following:

The Contractor shall pay special attention to the fact that other projects may be under construction at some time during the operation of this project. Said projects may contain work which is supplemental to this project. The Contractor must ascertain to his own satisfaction the impact that said project(s) could have on his operations and be prepared to coordinate his work with the same if required.

The Owner shall not be responsible for any damages suffered or extra costs incurred by the Contractor resulting directly or indirectly from the performance or attempted performance of any other contract or contracts existing or known to be pending at the time of bid.

The Contractor shall coordinate its work with other contractors and utility companies which may have facilities in the project area and cooperate with them. The Contractor shall also coordinate its activities with the Owner. No water mains, individual water services, street, or private drives may be closed off without a minimum of forty-eight (48) hours notice to the Owner and the private property owner. Should the property owner or the Owner have adequate reason, as determined by the Engineer, to avoid access or water service shutoff at the scheduled time, the Contractor shall reschedule his work to meet the new condition.

Other utilities, districts, agencies, and/or contractors who may be working within the project area are as follows:

1. Puget Sound Energy Company
2. CenturyLink Communications
3. AT&T Telephone Company
4. Comcast Cable Communications
5. Lakehaven Utility District
6. City of Tacoma Public Utilities
7. Midway Sewer District
8. Highline Water District
9. City of Federal Way Surface Water Management Division
10. City of Federal Way Traffic Division
11. King County Public Works Department
12. Washington State Department of Transportation

The Contractor shall adjust catch basins and storm manholes to grade. The Contractor shall be responsible for coordinating his work with the Owner to accommodate this work.

### **1-05.14(A) Notifications Relative to Contractor's Activities**

*(January 19, 2016 \*\*\*\*\*)*

Notification shall be written, with a copy delivered to the Engineer within a minimum of two working days prior to the commencement of work, including any work impacting utilities, and must be in such detail as to give the time of the commencement and completion of work, names of streets to be closed, schedule of operations, routes of detours where possible. The Contractor shall also notify the below listed agencies of the name(s) of the construction

superintendent in responsible charge, or other individuals having full authority to execute the orders or direction of the Engineer, in the event of an emergency. Failure to comply with this requirement will result in a stop work order.

City of Federal Way  
Police Department  
33325 8<sup>th</sup> Avenue South  
Federal Way, WA 98003-6325  
Telephone: 253-835-6701

South King Fire & Rescue  
31617 1<sup>st</sup> Ave S  
Federal Way, WA 98003  
Telephone: 253-839-6234

King County Metro  
1270 6<sup>th</sup> Avenue South, Bldg. 2  
MS:QS  
Seattle, WA 98134  
Telephone: 206-684-2785  
Richard.Garcia@kingcounty.gov

Federal Way School District  
Transportation Department  
1211 South 332<sup>nd</sup> Street  
Federal Way, WA 98003  
Attn: Michelle Turner  
Telephone: 253-945-5965  
[mturner@fwps.org](mailto:mturner@fwps.org)

Puget Sound Energy (Gas)  
3130 South 38<sup>th</sup> Street Tac-LL  
Tacoma, WA 98409  
Attn: Sandy Leek  
Telephone: 253-381-7313

CenturyLink Communications  
23315 66<sup>th</sup> Ave S  
Kent, WA 98032  
Attn: Jason Tesdal  
Telephone: 206-345-3488

Puget Sound Energy (Power)  
14103 8<sup>th</sup> Street East  
Sumner, WA 98390  
Attn: Dennis Booth  
Telephone: 253-606-4787

Comcast Cable Communications  
4020 Auburn Way North  
Auburn, WA 98002  
Attn: Mike Violette  
Telephone: 253-261-1409

Lakehaven Utility District  
PO Box 4249  
Federal Way, WA 98003  
Attn: Gene Yoder  
Telephone: 253-261-1741

AT&T Cable Maintenance  
11241 Willow Road NE, Suite 130  
Redmond, WA 98052  
Attn: Dan McGeough  
Telephone: 425-896-9830

Tacoma Public Utilities  
City Light Division Systems  
PO Box 11007  
Tacoma, WA 98411  
Attn: Thad Glassy  
Telephone: 253-502-8704

Tacoma Public Utilities  
Tacoma Water Distribution Engineering  
3628 South 35<sup>th</sup> Street  
Tacoma, WA 98409  
Attn: Ryan Flynn  
Telephone: 253-396-3111

King County Traffic Operations  
155 Monroe Avenue NE  
Renton, WA 98056  
Attn: Mark Parrett  
Telephone: 206-296-8153

Pierce Transit  
3701 96<sup>th</sup> Street SW  
Lakewood, WA 98499  
Attn: Dixie Sciacqua  
Telephone: 253-581-8001

**1-05.14(B) Coordination of Work with City**

**New Section**

*(January 19, 2016 \*\*\*\*\*)*

At least a three (3) working day written notification shall be required on all requests for engineering services other than inspection. All requests shall be coordinated with the Engineer. All costs resulting from delays in which requests were not coordinated with the Engineer shall be the sole responsibility of the Contractor.

Add the following new section:

**1-05.16 Water and Power**

*(October 1, 2005 APWA GSP)*

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

Add the following new section:

**1-05.17 Oral Agreements**

**New Section**

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**

**1-06.2(2) Statistical Evaluation of Materials for Acceptance**

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 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**

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

The first paragraph, sentence 2 is revise to read:

The Contractor shall indemnify, defend, and save harmless to the Contracting Agency (including any agents, officers, and employees) against any claims that may arise because the Contractor (or any employee of the Contractor or subcontractor or materialman) violated a legal requirement.

*(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.

### **1-07.2 State Taxes**

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

#### **1-07.2 State Sales Tax**

*(June 27, 2011 APWA GSP)*

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).

**1-07.5 Environmental Regulations**

Section 1-07.5 is supplemented with the following:

In addition to the requirements of Section 1-07.5 of the Standard Specifications, the Contractor shall comply with all applicable Federal, State, County and City environmental provisions of law including, but not limited to, the following:

- |   |  |
|---|--|
| City of Federal Way:                      | Zoning Code and Noise Ordinance                                    |
| King County:                              | Ordinance No. 1488<br>Resolution No. 18801<br>Resolution No. 25789 |
| Puget Sound Air Pollution Control Agency: | Regulation No. 1<br>Resolution No. 194                             |

The above environmental provisions are incorporated into this contract by this reference as if set forth herein in full. Copies of the City of Federal Way Provisions are available for perusal at the Public Works Department.

The Contractor shall be liable for the payment of all fines and penalties resulting from failure to comply with the federal, state, and local pollution control regulations.

**1-07.5(5) Archaeological and Historic Preservation**

**New Section**

*(January 19, 2016 \*\*\*\*\*)*

The Contractor shall notify the Engineer if any artifacts, skeletal remains, or other archaeological resources (as defined under RCW 27.53.040) are unearthed during excavation or otherwise discovered on the construction site. If ordered by the Engineer, the Contractor shall immediately suspend any construction activity which, in the opinion of the Engineer, would be in violation of Chapter 27.53 RCW. Suspension of the work shall remain in effect until the Engineer has obtained permission to proceed from the State Historic Preservation Officer.



### **1-07.6 Permits and Licenses**

Section 1-07.6 is supplemented with the following:

The Contractor shall procure at its own expense all permits and licenses which are necessary and incidental to its operation in the performance of the work and give all notices required by such permits and licenses. A copy of each permit and license shall be furnished to the Engineer upon request.

The Contractor shall be required to have a valid Owner business license and shall provide proof of same prior to execution of the contract.

### **1-07.9 Wages**

Section 1-07.9 is supplemented with the following:

The Washington State prevailing wage rates published by the Department of Labor and Industries and the Davis-Bacon wage rates for the State of Washington will be incorporated into each contract as applicable.

When a public works project is subject to the provisions of the Washington State public works law and the Federal Davis-Bacon and related acts, the Contractor and every subcontractor on that project must pay at least the Washington State prevailing wage rates, if they are higher than the federal prevailing wage rates for the project.

The Owner has included a schedule of the applicable Department of Labor and Industries published Washington State prevailing wage rates in the contract documents (Appendix C). The Contractor must do the same with contracts with all subcontractors (WAC 296-127-011).

Bidders should be aware that the wage rates to apply during the entire contract period are those in effect on the day of bid opening unless the contract is not awarded within six months of this date.

For bidding purposes each bidder shall be responsible for supplying himself with the appropriate wage rates.

#### **1-07.9(5) Required Documents**

#### **New Section**

Section 1-07.9(5) Supplement with the following:

Employee labor descriptions used on Certified Payrolls shall coincide exactly with the labor descriptions on the minimum wage schedule in the Contract unless the Engineer approves an alternate method to identify labor used by the Contractor to compare with labor listed in the Contract Provisions.

### **1-07.15 Temporary Water Pollution/Erosion Control**

Section 1-07.15 is supplemented with the following:

Temporary water pollution/erosion control work shall be performed as directed by the Engineer, as necessary to protect the project site and surrounding area, per this section of the Standard Specifications.

All costs for temporary water pollution/erosion control work shall be incidental to other items of the contract, and no separate payment will be made.

### **1-07.16 Protection and Restoration of Property**

#### **1-07.16(1) Private/Public Property**

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

The Contractor shall protect private or public property on or in the vicinity of the work site. The Contractor shall ensure that it is not removed, damaged, destroyed, or prevented from being used unless the contract so specifies.

The Contractor shall not trespass upon private property and shall be responsible for all injury or damage to persons or property, directly or indirectly, resulting from his operations in completing this Work. The Contractor shall comply with the laws and regulations of the Owner, County, and State and Federal governments, relating to the safety of persons and property, and will be held responsible for and required to make good any injury or damage to persons or property caused by carelessness or neglect on the part of the Contractor or subcontractor(s), or any agent or employee of either during the progress of the Work and until its final acceptance.

Property includes land, utilities, trees, landscaping, improvements legally on the right-of-way, markers, monuments, buildings, structures, pipe, conduit, sewer or water lines, signs, and other property of all description whether shown in the Plans or not.

If the Engineer requests in writing, or if otherwise necessary, the Contractor shall at its expense install protection, acceptable to the Engineer, for property such as that listed in the previous paragraph. The Contractor is responsible for locating all property that is subject to damage by his operation.

If the Contractor (or its agents/employees) damage, destroy, or interfere with the use of such property, the Contractor shall restore it to original condition at the Contractor's expense. He shall also halt any interference with the property's use. The Engineer may have such property restored by other means and subtract the cost from money that will be or is due the Contractor if it refuses or does not respond immediately.

The Contractor shall restore to a condition equal to the original condition improvements such as pavements, driveways, gravel shoulders, ditches, culverts, curb, curb and gutter, sidewalks, fences, pavement markings, mailboxes, traffic signs, traffic signal loops, landscaping, public and private utilities etc., which are damaged or removed (and not indicated to be removed) during construction, whether shown in the plans or not.

All existing survey monuments and property corner markers shall be protected from movement by the Contractor. All existing markers and/or monuments that must be removed for construction purposes are to be referenced by survey ties and then replaced by a professional land surveyor registered in the State of Washington. All existing property corner markers disturbed or removed by the Contractor's operations which, in the opinion of the Engineer, were not required to be removed for construction purposes shall be replaced at the Contractor's own expense by a Professional Land Surveyor registered in the State of Washington. Any of these monuments damaged must be reset to second order, first class specifications.

Sprinkler irrigation systems found to encroach within the limits of improvements shall be modified as necessary to ensure satisfactory operation upon completion of the improvements. This work will include, but not be limited to, cutting and capping existing pipe, relocating existing risers and sprinkler heads new pipe heads and connections, and testing of the system. All work shall be done in conformance to acceptable standards. This shall be incidental to the contract.

The Contractor shall contact the owners of any ditches, irrigation lines and appurtenances which interfere with the Work. The Contractor shall be liable for any damage due to irrigation facilities damaged by his operations and shall repair such damaged facilities to an "equal or better than" original condition.

#### **1-07.16(2) Vegetation Protection and Restoration**

Delete the fourth paragraph and replace it with the following:

If due to, or for any other reason related to the Contractor's operation, any tree, shrub, ground cover or herbaceous vegetation is destroyed, seriously damaged, or disfigured, that was not ordered removed, the Contractor shall replace it with approved nursery stock of the same species. In addition to replacement, the Contractor will be assessed any appropriate liquidated damages for trees as described below. The assessment will be deducted from monies due the Contractor.

For non-merchantable timber, the Contractor will be assessed liquidated damages of \$10 for each inch of difference in circumference when a replacement tree is smaller than the original.

For merchantable timber, the Contractor will be assessed liquidated damages of either \$10 for each circumferential inch or the estimated market value delivered to a mill, whichever is the larger amount.

The Engineer will measure circumference twelve inches (12") above ground level. The replanting shall be according to Section 8-02 and during the first fall or spring planting period after damage, or as the Engineer directs.

It may be necessary to trim trees or bushes in order to have the necessary clearance for planing and paving equipment on streets that are to be overlaid. Any costs for trimming of

trees or bushes required for the construction of the overlay will be considered incidental to the contract.

### **1-07.16(3) Fences, Mailboxes, Incidentals**

Section 1-07.16(3) is supplemented with the following:

The Contractor shall maintain at his expense any temporary fencing to preserve livestock, crops, or property when working through or by private property. The Contractor is liable for all damages if it does not comply with this requirement.

When it is necessary to temporarily move existing mail or paper boxes, their usefulness shall not be impaired. The boxes shall be reinstalled at the original location or at locations ordered by the Engineer. New supports or boxes will not be required unless damaged by the Contractor. Any damage caused by the Contractor shall be at its expense for replacement or repairs.

### **1-07.17 Utilities and Similar Facilities**

Section 1-07.17 is supplemented with the following:

The Contractor shall protect from damage private and public utilities, including telephone and telegraph lines, power lines, sewer and water lines, railroad tracks and appurtenances, highway lighting and signal systems, and similar facilities.

Underground utilities of record will not be shown in the construction Plans. The Owner assumes no responsibility for improper locations or failure to show utility locations in the Plans.

Attention is directed to the possible existence of underground facilities which are not shown in the Plans. This requirement does not excuse the Contractor from its duty to examine in detail all plans of water, gas, telephone, electric power and combined sewerage utilities available with utility owners as required above.

The location of existing underground utilities, as shown in the Plans, is approximate only, and the Contractor shall be responsible for determining their exact location. The Contractor shall check with the utility companies concerning any possible conflict prior to commencing excavation in any area, as not all utilities may be shown in the Plans.

The Contractor shall call the Utility Location Request Center (One Call Center) for field location, not less than two or more than ten business days before the scheduled date for commencement of excavation which may affect underground utility facilities, unless otherwise agreed upon by the parties involved. A business day is defined as any day other than Saturday, Sunday or a legal local, State, or Federal holiday. The telephone number for the One Call Center for this project is 1-800-424-5555.

The Contractor is also warned that there may be utilities on the project that are not part of the One Call System. They must be contacted directly by the Contractor for locations.

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

The Contractor shall be entirely responsible for coordination with the utility companies and arranging for the movement or adjustment, either temporary or permanent, of their facilities within the project limits. See Section 1-05.14 of these Special Provisions.

When the facility owner is responsible for removing or relocating the facilities, it is anticipated that this will be accomplished in advance of construction. If the Contractor notes the presence of any such facility, the Contractor shall immediately notify the Engineer in writing.

The right is reserved to the Owner and the owners of facilities, or their authorized agents, to enter upon the right-of-way for the purpose of making changes as are necessary for the rearrangement of their facilities or for making necessary connections or repairs. The Contractor shall cooperate with forces engaged in this work and shall conduct its operations in such a manner to avoid any unnecessary delay or hindrance to the work being performed by other forces. Wherever necessary, the Contractor's work shall be coordinated with the rearrangement of utility or other facilities, and the Contractor shall make arrangements with the owner of the facilities for the coordination of the work.

When the relocation of these facilities are necessary to accommodate the Work, the Engineer will provide for the relocations of these facilities by other forces, or the relocations shall be performed by the Contractor pursuant to written authorization and will be paid for by applicable unit prices, agreed price, or as force account.

All other costs incurred as a result of performance of the Contractor's obligations in this section shall be incidental to the contract and included in the unit prices.

No additional compensation will be made to the Contractor for reason of delay caused by the actions of any utility company and the Contractor shall consider such costs to be incidental to the other items of the contract.

Contractor warrants and represents that it has personally, or through its employees and/or subcontractors, examined the right-of-way areas subject to this agreement and that it is knowledgeable of specific locations for water, gas, telephone, electric power and combined sewerage utilities within such rights-of-way. Contractor further warrants and represents that it has also examined in detail plans of such utilities provided to it by the Owner and affected utility companies or entities.

Contractor also warrants and represents that it is fully aware of the statutory provisions contained in Chapter 19.122.010 through .900 RCW, that it has read and fully understands the same, and that it will comply with the requirements of these provisions which are incorporated by reference herein. Contractor agrees that it shall be an "excavator" as defined under Chapter 19.122 RCW and that such utilities constitute underground facilities. The parties agree that remedies affected under Chapter 19.122 RCW are also incorporated

by reference herein. Any cost to the Contractor as a result of this law shall be at the Contractor's expense.

Contractor also agrees that it shall fully comply with Sections 1-07.16 and 1-07.17 relating to Protection and Restoration of Property, Utilities and similar facilities, and public liability and property damage insurance provisions of the Standard Specifications as supplemented by these Special Provisions.

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

Section 1-07.18 is supplemented with the following:

The Contractor shall obtain and keep in force during the term of construction and throughout the specified term of maintenance, public liability, and property damage insurance. This insurance shall provide coverage for the Contractor and all Subcontractors performing work on projects under Owner contract or authorized by Owner permit, as well as provide coverage for the Owner for the limits specified. The coverage so provided shall protect against claims for personal injuries, including accidental death, as well as claims for property damages which may arise from any act or omission of the Contractor, the Subcontractor, or by anyone directly or indirectly employed by any of the parties involved.

The minimum policy limits of such insurance shall be as listed on the Certificate of Insurance included in the Bid Documents section of these Contract Provisions.

The insurance must have reference to project name, project location, and contain a brief description of the project. THE CITY OF FEDERAL WAY, ITS ELECTED AND/OR APPOINTED OFFICIALS, ITS EMPLOYEES, AND AGENTS MUST BE THE NAMED INSURED, CO-INSURED, OR ADDITIONAL INSURED insofar as the work and obligations performed under City contract or by City permit is concerned.

### **1-07.23 Public Convenience and Safety**

Section 1-07.23 is supplemented with the following:

The Contractor shall maintain the roads during construction in a suitable condition to not adversely affect vehicular traffic. All costs to maintain the roads shall be borne by the Contractor.

If operations of the Contractor are shown to significantly impede traffic flow during peak hours of traffic, the Engineer shall have the authority to restrict the Contractor to time of operation on the street.

If the Contractor requires delays or limited term street closure beyond that provided for herein, it shall request in writing the approval of the Engineer a minimum of five (5) working days in advance of the anticipated delay or closure. Such request shall state the reason, the location, the time and date, and the duration of the required delay or closure.

The Contractor shall maintain convenient access for local traffic and pedestrians to driveways, houses, and buildings along the line of work. Such access shall be maintained as near as possible to that which existed prior to the commencement of construction. The

Contractor shall notify all property owners and tenants of street and alley closures, or other restrictions which may interfere with their access. Notification shall be at least forty-eight (48) hours in advance, and shall include placing notification signs within the affected areas, and delivering notices to all property owners and tenants. Work involved with the distribution of notices to all of the property owners will be considered incidental to the contract.

The Contractor shall notify the local refuse/recycling collection service, transit services, school district, postal service, fire and police departments in writing before the beginning of operations, and provide a schedule of activities along with the associated time line, so that these agencies may reroute their vehicles around the construction zone. If rerouting is not possible, as determined by these agencies/services, the Contractor shall provide reasonable access through the construction zone at all times.

Inconvenience caused by equipment or materials across driveways and sidewalks shall be kept to a minimum by restoring the serviceability of the drive or sidewalk as soon as possible. Before blocking driveways, the Contractor shall notify the property owner. The Contractor shall replace or repair any damage done to driveways to not less than the condition existing prior to the Contractor's work.

Unless otherwise indicated in the Plans, on-street parking areas will be allowed to be utilized by the Contractor for work and storage areas, pending notification of the users and approval by the Engineer, two (2) working days in advance.

When patching pavement or placing new pavement, the Contractor shall replace the ultimate full depth asphalt concrete pavement section excluding overlay, the same day as the pavement removal.

At the end of each working day, provisions shall be made for the safe passage of traffic during non-working hours. It shall be the Contractor's responsibility to provide all necessary warning signs, lights, barricades, etc., as specified.

All unattended excavation shall be properly barricaded and covered at all times. All open trenching or street cuts must be filled with material as detailed below before leaving the job at the completion of each work shift.

Immediately upon request by the Engineer, the Contractor shall place, in the amounts designated, any asphalt concrete pavement, cold plant mix, crushed surfacing and/or gravel base deemed necessary by the Engineer to maintain the above required accessibility of all streets, road approaches, street connections, driveways, etc. If the Contractor fails to comply as above specified, the Engineer will order the work done by others and deduct the cost thereof from any monies due or to become due to the Contractor. The Contractor shall be reimbursed for these materials at the applicable unit contract prices.

The Owner shall not be held liable for any claims resulting from accidents or damages caused by the Contractor's failure to comply with traffic and public safety regulations during the construction period.

The Contractor shall be solely responsible for the safety, efficiency and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from the failure or improper maintenance use or operation. The Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. The 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 construction site. The Contractor shall comply with the safety standards and provisions of applicable laws, building and construction codes, and the safety regulations set forth in "Safety Standards for Construction" and "General Safety Standards" published in effect at the time of call for bids. These publications may be obtained from the Department of Labor and Industries, Olympia, Washington. The Contractor shall also comply with the safety standard provisions set forth in the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America.

The Contractor agrees to defend, indemnify and hold harmless to the CITY OF FEDERAL WAY, its officers, employees, and agents from any and all claims, actions, judgments, losses, costs (including reasonable attorney fees) and damages whatsoever; including workman's compensation claims or any other claims arising by reason of accident, injury, or death caused to persons including Contractor's employees, agents and subcontractors, employees and agents involving property of any kind, or arising out of, in connection with, or incident to the work of, this contract to the extent of any City negligence, except upon a finding by a trier of fact that it was caused by the sole negligence of the CITY OF FEDERAL WAY. The Contractor agrees to waive its immunity which may otherwise exist under the Title 51 RCW relating to industrial insurance. The parties agree that the indemnification requirements provided herein extend to attorney's fees and costs of establishing the right to indemnification in favor of the CITY OF FEDERAL WAY.

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

In order to protect the lives and health of employees performing work under the Contract, the Contractor shall comply with the Federal Occupational Safety and Health Act of 1970 (OSHA), including all revisions and amendments thereto; the provisions of the Washington Industrial Safety Act of 1973 (WISHA); and the regulations of the State of Washington Department of Labor and Industries Division of Industrial Safety and Health. The WISHA regulations shall apply to all excavation, trenching and ditching operations. In case of conflict, the more stringent regulations shall apply.



## **1-07.23(1) Construction Under Traffic**

*(May 2, 2017 APWA GSP)*

Revise the third sentence of the second paragraph to read:

Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

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

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 routine 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.
6. Pedestrian and wheel chair access to sidewalks must be maintained to one side of each street at all times. The Contractor shall only remove and replace existing cement concrete sidewalk(s), curb and gutter(s), curb ramp(s) at one quadrant of an intersection at a time. If it is not possible to restrict access to one side quadrant of a street, the Contractor must provide proper wheelchair accessible pedestrian detours, per the MUTCD, around closed sidewalk areas.
7. Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

8. If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.
9. No lane closures will be allowed on a holiday or holiday weekend, or after 12:00 PM (noon) on a day prior to a holiday or holiday weekend. Holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend.
10. The Owner reserves the right to vary the previous stated times. Actual times may vary depending upon location and type of construction. Exact times and/or restrictions will be established during the preconstruction conference, after discussions with the Contractor regarding his proposed schedule.

*(January 5, 2015)*

**Lane closures are subject to the following restrictions:**

No lanes may be closed between the hours of 4:00 PM and 7:30 AM.

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.

Lane closures are not allowed on any of the following:

1. A holiday,
2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.
3. After 12:00 PM (noon) on the day prior to a holiday or holiday weekend, and
4. Before 7:30 AM on the day after the holiday or holiday weekend.

Work on S 312<sup>th</sup> St from Pacific Hwy S to 28<sup>th</sup> Ave S, 23<sup>rd</sup> Ave S from S 312<sup>th</sup> St to S 319<sup>th</sup> Pl, Weyerhaeuser Way S from S 344<sup>th</sup> Way to 33<sup>rd</sup> Pl S, and S 328<sup>th</sup> St from 38<sup>th</sup> Ave S to 39<sup>th</sup> Ave S will be restricted to the hours between 8:30 a.m. to 3:30 p.m., unless otherwise approved by the Engineer.

*(January 2, 2012)*

**Work Zone Clear Zone**

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans and other contract requirements.

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

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction

vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

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

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

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

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

\* or 2-feet beyond the outside edge of sidewalk

**Minimum Work Zone Clear Zone Distance**

*(February 14, 2005 NWR)*

**Signs and Traffic Control Devices**

All signs and traffic control devices for the permitted closures shall only be installed during the specified hours. Construction signs, if placed earlier than the specified hours of closure, shall be turned or covered so as not to be visible to motorists.

*(March 7, 2005 NWR)*

During signal turn-on, the Contracting Agency will provide City of Federal Way police officer(s) to manually, control intersections.

**1-07.23(2) Construction and Maintenance of Detours**

Revise the second 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.

Supplement with the following:

At least one (1) lane of traffic in each direction shall be maintained on all roadways within the project limits at all times. If the usable roadway is not

sufficient to safely accommodate two-way traffic, the Contractor shall adequately maintain one-way traffic. Wherever one-way traffic is in effect, the distance shall not be in excess of six hundred feet (600') or as otherwise set forth in writing by the Engineer. Two-way traffic must be maintained during all non-construction working hours, except as approved by the Engineer in advance.

For arterials - A maximum of one driveway may be closed at any one time, and then for as short a duration as possible. No driveway shall be closed over night or over a weekend. At least one driveway shall be maintained into and out of sites adjacent to the project. All drop-offs exposed to traffic shall be protected in accordance with Section 1-07.23(1) of the Standard Specifications. Any modification to these requirements must be approved by the Engineer prior to commencement of any work. Sequential arrow boards shall be used for work on arterials and shall be incidental to other contract bid items.

A written request, along with a detailed detour plan shall be submitted to the Engineer for approval, a minimum of ten (10) days prior to any road closures.

All costs for constructing and maintaining detours shall be borne by the Contractor.

**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 hours notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

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

Add the following new section:

**1-07.28      Communication with Businesses and Property Owners      New Section**  
*(January 11, 2014\*\*\*\*\*)*

The Contractor shall keep the businesses informed of their general locations and activities for the upcoming two (2) weeks by distributing a weekly status/schedule memo to the businesses. The memo shall be approved by the Engineer prior to distribution.

Payment for said meetings and communication shall be considered incidental to the unit contract price paid for Mobilization and no additional payment will be made.

**1-07.29      Road Maintenance      New Section**  
*(January 11, 2014)*

The Contractor shall be responsible for controlling dust and mud within the project limits, and all streets used by the Contractor during the execution of this contract shall be maintained in a clean condition. The Contractor shall be prepared to use watering trucks equipped with high velocity water jets and low-head sprinkling devices, power sweepers, and any other pieces of equipment necessary to render the streets free of all mud, debris, and foreign materials. Any damage caused by dust and/or mud accumulation on the streets or in the storm sewer system shall be the sole responsibility of the Contractor.

Watering trucks may be used on paved streets with an adequate storm drainage system. Watering trucks shall not be used on streets where, in the opinion of the Engineer, mud is created, causing a nuisance. Where water flushing is not allowed, street sweepers (not power brooms) shall be used.

The Contractor shall provide for sweeping, or flushing all surfaced roadways at a minimum upon completion of each day's activities. Equipment required for this operation shall be on the job site or available at all times. Failure to have this equipment on the job site or available will necessitate a shutdown of the project.

The Contractor shall cover all loads if in the determination of the Engineer haul of project materials is posing a road maintenance and/or potential safety problem.

Should daily removal be insufficient to keep the streets clean, the Contractor shall perform removal operations on a more frequent basis. If the Engineer determines that a more frequent cleaning is impractical or if the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor shall, upon order of the Engineer, provide facilities for and remove all clay or other deposits from the tires or between wheels before trucks or other equipment will be allowed to travel over paved streets.

Should the Contractor fail or refuse to clean the streets in question or the trucks or equipment in question, the Engineer may order the work suspended at the Contractor's risk until compliance with the Contractor's obligation is assured, or the Engineer may order the streets in question cleaned by others and such costs incurred by the Owner in achieving compliance with these Contract requirements, including cleaning of the streets, shall be deducted from monies due or to become due the Contractor on monthly estimate. The Contractor shall have no claim for delay or additional costs should the Engineer choose to suspend the Contractor's work until compliance is achieved.

All costs in connection with the above work, including labor, materials, tools and equipment, shall be considered as incidental to the construction and payment thereof shall be included in the unit contract prices of other bid items.

## **1-08 PROSECUTION AND PROGRESS**

Add the following new section:

### **1-08.0 Preliminary Matters**

(May 25, 2006 APWA GSP)

Add the following new section:

### **1-08.0(1) Preconstruction Conference**

(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited.

The purpose of the preconstruction conference will be:

1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;

4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following sections:

**1-08.0(2) Hours of Work**

*(December 8, 2014 APWA GSP)*

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

All working hours and days are also subject to local permit and ordinance conditions (such as noise ordinances).

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than noon two working days prior to the day(s) the Contractor is requesting to change the hours.

If the Contracting Agency approves such a deviation, such approval may be subject to certain other conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspector; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence).
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the on-working day for the week will be charged as a working day.

5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll.

### **1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employees**

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.

### **1-08.3 Progress Schedule**

Section 1-08.3 is supplemented with the following:

Promptly after award of the contract, the Contractor shall submit 3 copies of a Type A 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.

The construction schedule shall be based upon working days, with a physical completion date on or before October 31, 2018.

The Contractor is restricted to have two (2) schedules under construction at a time unless otherwise approved by the Engineer. "Under construction" for the purpose of this Section means any work up to and including the final pavement overlay.

Adequate equipment and forces based on the construction schedule shall be made available by the Contractor to start work immediately upon order of the Engineer and to carry out the schedule to completion of the contract by the date specified.

Should it become evident at any time during construction that operations will or may fall behind the schedule, the Contractor shall, upon request, promptly submit a revised schedule in the same form as specified herein, setting out operations, methods, and equipment, added labor forces or working shifts, night work, etc., by which time lost will be made up, and confer with the Engineer until an approved modification of the original schedule has been secured. Further, if at any time any portion of the accepted schedule is found to conflict with the Contract Provisions, it shall, upon request, be revised by the Contractor and the work shall be performed in compliance with the contract provisions. Payments of any further estimates to the Contractor after such request is made and until an approved modified schedule has been provided by the Contractor may be withheld.



Execution of the work according to the accepted schedule of construction, or approved modifications thereof, is hereby made an obligation of the contract.

#### **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**

*(September 12, 2016 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. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
  - d. Final Contract Voucher Certification
  - e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
  - f. Property owner releases per Section 1-07.24

Supplement with the following:

Subject to the time lost due to inclement weather and delay in delivery of materials, should such delay not be the result of the undersigned's actions, the Contractor agrees to commence work within 5 days after Notice to Proceed and to complete all work in this Contract within the specified time period. If requested, the Contractor agrees to furnish the City and the Engineer with full data as to the efforts made to obtain materials.

The Contractor agrees to complete the work within the contract time contained in his bid plus any extensions as provided for herein. It is the responsibility of the Contractor to complete the work within completion time. The Owner makes no promise or representation that this can or will be done.

Extensions in completion time will be granted for delays beyond the control of the Contractor only, such as strikes or natural disasters, and may be granted for increases in the contract value of the work to be done. Requests for extensions in completion time shall be made in writing to the Engineer and approved through a change order before commencement of such extensions.

For sake of common bidding purposes, the number of days allowed to complete the work outlined in these contract documents is **65 working days**. However, in no instance shall the work extend beyond October 31, 2018.

## **1-09 MEASUREMENT AND PAYMENT**

### **1-09.3 Scope of Payment**

Section 1-09.3 is supplement with the following:

The Special Provisions may describe work the Standard Specifications do not cover. Such work shall comply first with the special provisions and then with any specifications that apply. The Contractor shall include all costs of doing this work within the unit bid prices. If the Special Provisions require work that has no unit bid price, costs shall be incidental and included within the unit bid prices in the contract.

### **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.

### **1-09.7 Mobilization**

Section 1-09.7 is supplemented with the following:

The Contractor shall arrange and provide the construction equipment staging area. This area must be approved by the City of Federal Way, Community Development Department. Sites chosen near residential properties can expect severe restrictions on noise and allowable work hours.

Obtaining a site for the Contractor's mobilization, field office(s), storage of materials, and other general operations shall be the responsibility of the Contractor. All costs associated with securing sites shall be included in the bid item "Mobilization" and no other compensation will be made for this item. The Contractor will provide City with copy(s) agreement(s).

Payment is made under the following item:

"Mobilization" per lump sum.

The lump sum bid price for "Mobilization" shall include, but not be limited to, the following items: the movement of the Contractor's personnel, equipment, supplies, and incidentals to the project site; the establishment of his office, buildings, and other facilities necessary for work on the project; providing sanitary facilities for the Contractor's personnel; obtaining permits or licenses required to complete the project not furnished by the Owner; and other work and operations which must be performed or costs that must be incurred.

## **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.

**1-09.9(1) Contracting Agency's Right to Withhold and Disburse Certain Amounts  
New Section**

In addition to the amount which the Owner may otherwise retain under the Contract, the Owner may withhold a sufficient amount or amounts of any payment or payments otherwise due to the Contractor including nullifying the whole or part of any previous payment which because of subsequently discovered evidence or subsequent inspections, and in its judgment may be necessary to cover the following:

- (a) The cost of defective work not remedied.
- (b) Fees incurred for material inspection, and overtime engineering and inspection for which the Contractor is obligated under this contract.
- (c) Fees and charges of public authorities or municipalities.
- (d) Liquidated damages and engineering and inspection fees beyond completion date.

**1-09.11(2) Claims**

Supplement with the following:

In the event the Contractor files a notice of claim or has made the Owner aware of his intention to file a claim, the Contractor upon demand by the Owner shall provide immediate access to the Owner or its duly authorized representative for review and examination of all books, documents, papers and other records that are directly pertinent to this Contract and claim. Access shall be ongoing and shall remain in effect for the duration of the contract or until the claim is settled or withdrawn. The Owner's examination and review shall be at reasonable time and place as designated by the Owner. This provision extends to all subcontractors hired by the Contractor and to any entity that has performed work or supplied materials or services in connection with or related to this Contract. The Contractor shall provide for this clause to be included in its contracts with all subcontractors and suppliers. Provided, however, that the Owner shall not disclose information which may reasonably be construed to be confidential and if divulged may seriously jeopardize the Contractor's or subcontractor's competitive position.

The above shall not be limited to records in existence at the time of the claim but shall also include records generated following the claim or notice of claim. In the event that the Contractor or Subcontractor submits notice of a changed condition or claim of delay at the job site, the Contractor and Subcontractor are directed to cease all work on the project until directed otherwise in writing by the Owner. Consistent with the intent and provisions of this section, any claim of changed condition or delay shall be immediately verified by the Owner following its inspection of the job site and books and records. The Owner's

authority to verify changed conditions and claimed delay shall extend to the right of the Owner to contact and obtain responsive information from suppliers, vendors, and subcontractors, and the right to speak with workers at the site and examine records described above. The refusal, unwillingness or failure of any subcontractor to supply requested information shall be deemed to constitute actual and noncooperation of the Contractor.

The Contractor shall at all time, following a claim or notice of claim, cooperate with the Owner in regard to this provision. Failure to comply with the provisions of this section constitutes a breach of a material term and condition in the performance of this Agreement.

### **1-09.13 Claim Resolution**

#### **1-09.13(3) Claims \$250,000 or Less** *(October 1, 2005 APWA GSP)*

Delete this Section and replace it with the following:

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

#### **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**

Supplement with the following:

Traffic control and maintenance for the safety of the traveling public on this project shall be the sole responsibility of the Contractor and all methods and equipment used will be subject to the approval of the Owner.

## **1-10.1 General**

Supplement with the following:

The Contractor shall provide flaggers, 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 that 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.

### **Business Open During Construction Signs**

The Contractor shall provide a minimum of two (2) Business Open During Construction signs for the project. The Business Open During Construction signs shall be per the Details in the Plans. Business Open During Construction signs shall be considered Construction Signs Class A.

### **City of Federal Way Project Signs**

City Of Federal Way Project signs shall be considered Construction Signs Class A. The Contractor shall provide two (2) project signs (4' x 8') per the standard detail within the Appendix A.

## **1-10.2 Traffic Control Management**

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

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

A Traffic Control Supervisor (TCS) shall be present on the project whenever flagging or other traffic control labor is being utilized. The City will not pay for any work performed by the TCS as described under Section 1-10.2(1)B but considered incidental to other bid items.

### **1-10.2(2) Traffic Control Plans**

Section 1-10.2(2) is supplemented with the following:

The Contractor shall submit a Signing and Traffic Control Plan (TCP) for each schedule, showing all locations for construction signs, flaggers, and other traffic control devices, lane widths, tapers, and temporary channelization, required for the project. The TCPs shall be submitted to the Engineer for approval, a minimum of seven (7) days prior to beginning any work on the project.

The Contractor shall provide traffic control plans to the City of Federal Way for review and approval a minimum of ten (10) working days prior to implementation. These plans shall supplement Construction Staging Plans. The plans as provided by the Contractor shall include and not be limited to the following information:

- Minimum lane widths provided for vehicular travel.
- Flagger's stations.

- Turn pocket length, gap and tapers in conformance with the City of Federal Way and WSDOT Standard Plans.

The Contractor shall maintain at least one lane of traffic in each direction at all times unless otherwise approved by the Engineer.

The Contractor shall include in the TCP; special plans for traffic control and routing, hours of work, signing and a construction sequencing plan, for the overlay and pavement patching on all arterials.

NO WORK SHALL BE PERMITTED WITHOUT A TCP APPROVED BY THE ENGINEER. The approved TCP shall be on-site at all times and failure to obtain and adequately implement an approved TCP shall be the cause for immediate action by the Engineer. Said action may include but shall not be limited to the following:

1. Suspension of work until the TCP is approved or properly implemented.
2. Implementation by the Owner of approved TCP at the Contractor's expense.
3. The Owner may provide, or have others provide, interim labor, materials and equipment at the Contractor's expense to alleviate traffic hazards of concern.
4. Any combination of the above described remedies, or whatever is deemed necessary by the Engineer to protect the traveling public.

All Traffic Control Plans shall conform to the MUTCD and the Standard Plans.

Whenever the Contractor intends to do work not explicitly covered by the TCP, the Contractor shall submit a Supplemental Traffic Control Plan to the Engineer for approval at least ten (10) days in advance of the time signs and barricades will be required.

Whenever a traffic signal is to be taken out of service, set to flashing red, or construction is such that it interferes with the safe and effective operation of the traffic signal an Off Duty Uniformed Police Officer must be used to control traffic through the intersection. The use of an Off Duty Uniformed Police Officer must be shown on the traffic control plan.

### **1-10.2(3) Conformance to Established Standards**

Section 1-10.2(3) is supplemented with the following:

Traffic control for the project shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) Part VI, and Section 1-10 of the Standard Specifications. These publications will be incorporated in all projects by this reference as if set forth herein in full.

### **1-10.3 Traffic Control Labor, Procedures and Devices**

#### **1-10.3(1) Traffic Control Labor**

Section 1-10.3(1) is supplemented with the following:

The hours eligible for "Traffic Control Labor" will be those hours actually used for the previously described work. Handling of Class B signs is to include the placement of "No-Park" signs, for use in areas where operations require the street to be cleared of vehicles.



The City has set the unit contract price for "Off Duty Uniformed Police Officer" at Seventy-Five and No/100 Dollars (\$75.00) per hour of active traffic control. In the event this amount does not reflect the actual cost to the Contractor for a Uniformed Off-Duty Police Officer, then the Contractor should revise other bid items to include the correction factor. No adjustment to the \$75.00 per hour unit price shall be made for overtime hours, holiday hours, or minimum callout charge.

The Contractor shall request uniformed off-duty police officers from the City of Federal Way Public Safety Department, (253) 835-6701. The request shall be made forty-eight (48) hours before the use of the off-duty police officers on the project site. A minimum of three (3) hours call out time shall be paid each request for off-duty police officers. The City shall pay \$75.00 per hour for actual time worked by off-duty police officers, it shall be the Contractors responsibility to arrange work schedule to minimize any additional costs incurred by the minimum three (3) hour callout requirement.

The estimated uniformed off-duty police officers hours as stated in the proposal, are the City's estimate, without knowledge of the Contractors specific method of operation and is used only for the purpose of providing a common amount for all bidders. In the event actual hours of officer time differs from the quantity listed in the proposal, no readjustment in the unit contract price for uniformed off-duty police officer will be allowed.

### **1-10.3(3)C Portable Changeable Message Sign**

Section 1-10.3(3)C is supplemented with the following:

*(January 14, 2017)*

The PCMS shall meet the requirements of the MUTCD and the following:

1. Back-lighted split-flap
2. Fiber optic/shutter
3. Light emitting diode
4. Light emitting diode/shutter
5. Flip disk

Regardless of the technology, the PCMS shall meet the following general requirements:

1. Be light emitting and must rely solely on reflected light.
2. Be solar powered.
3. Have a display consisting of individually controlled pixels no larger than 2-1/2 inch by 2-1/2 inch. If the display is composed of individual character modules, the space between modules must be minimized so alphanumeric characters of any size specified below can be displayed at any location within the matrix.
4. When activated, the pixels shall display a yellow or orange image. When not activated, the pixels shall display a flat black image that matches the background of the sign face.

5. Be capable of displaying alphanumeric characters that are a minimum of 18-inches in height. The width of alphanumeric characters shall be appropriate for the font. The PCMS shall be capable of displaying three lines of eight characters per line with a minimum of one pixel separation between each line.
6. The PCMS message, using 18-inch characters, shall be legible by a person with 20/20 corrected vision from a distance of not less than 800 feet centered on an axis perpendicular to the sign face.
7. The sign display shall be covered by a stable, impact resistant polycarbonate face. The sign face shall be non-glare from all angles and shall not degrade due to exposure to ultraviolet light.
8. Be capable of simultaneously activating all pixels for the purpose of pixel diagnostics. Any sign that employs flip disk or shutter technology shall be programmable to activate the disk/shutters once a day to clean the electrical components. This feature shall not occur when the sign is displaying an active message.
9. The light source shall be energized only when the sign is displaying an active message.
10. Be equipped with a redundant light source such that the sign will continue to emit light if one of the light sources fails.

The PCMS panels and related equipment shall be permanently mounted on a trailer with all controls and power generating equipment.

The PCMS shall be operated by an easy to use controller that provides the following functions:

1. Select any preprogrammed message by entering a code.
2. Sequence the display of at least five messages.
3. Blank the sign.
4. Program new message, which may include moving arrows and chevrons.
5. Mirror the message currently being displayed or programmed.

Portable changeable message sign(s) shall be available, on site, for the life of the project.

The Contractor shall operate the PCMS in accordance with the approved traffic control plans or as directed by the Engineer. The PCMS shall not be used in lieu of sequential arrow signs.

#### **1-10.4 Measurement**

Section 1-10.4 is supplemented with the following:

Flaggers and Spotters will be measured by the hour.  
Other Traffic Control Labor will be measured by the hour.  
Traffic Control Supervisor will not be measured.  
Off Duty Uniformed Police Officer will be measured by the hour.  
Portable Changeable Message Signs will be measured per day.

#### **1-10.5 Payment**

Section 1-10.5 is supplemented with the following:

"Flaggers and Spotters", per hour.  
"Other Traffic Control Labor", per hour.  
"Traffic Control Supervisor", incidental to other bid items.  
"Off Duty Uniformed Police Officer", per hour.  
"Portable Changeable Message Sign", per day.

The Owner has estimated the cost at Fifty-Two and No/100 Dollars (\$52.00) per hour for accomplishing the work of "Traffic Control labor" and has entered that amount in the bid proposal under the specific item to become part of the total bid by the Contractor. Any cost to the Contractor of providing this work over Fifty-Two and No/100 Dollars (\$52.00) per hour, shall be incidental to other bid items, and no further compensation shall be made.

Payment shall be limited to the labor required for flagging and handling signs and traffic control devices which are placed and removed or adjusted daily.

It will be the Contractor's responsibility to provide, for the Engineer's concurrence, a detailed summary of time expended on this item at the end of each working day. Pay quantities will be prepared on the basis of these daily summaries. Time which does not appear on these daily summaries will not be honored for payment.

All other items of work included in this section and/or which are necessary for traffic control are incidental to the Contract, and no separate payment will be made. This includes but is not limited to: Traffic Control Supervisor, special signs required specifically for the project, costs for cones, barricades, sequential arrow-boards, temporary pavement markings and other construction signing used on the project.

Any special signs used will become property of the Owner upon completion of the project and will be delivered to the Owner by the Contractor (refer also to Section 8-30 of these Special Provision).

The unit contract price per day for "Portable Changeable Message Signs" shall include all costs for furnishing the PCMS, transporting the PCMS to and from each project site, and maintaining the PCMS.

END OF DIVISION 1

## **DIVISION 2 EARTHWORK**

Wherever specifications are made for "Pavement Repair and Roadway Widening" in the following division, they shall also apply to "Shoulder Reconstruction and Shoulder Widening."

### **2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP**

#### **2-01.1 Description**

Section 2-01.1 is supplemented with the following:

Clearing, grubbing, and roadside cleanup shall be accomplished in conformance with Section 2-01 of the Standard Specifications, except as hereinafter amended.

#### **2-01.5 Payment**

Section 2-01.5 is supplemented with the following:

Payment will be made for the following bid items per this section of the Standard Specifications:

"Roadside Cleanup" by force account.

For the purpose of providing a common proposal for all bidders and for that purpose only, the Owner has estimated the amount of force account for roadside cleanup and has entered that amount in the bid proposal, which shall then become part of the Contractor's total bid.

"Clearing and Grubbing" shall be considered incidental to the various bid items of the contract and as such, will not be measured for separate payment.

### **2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

#### **2-02.3 Construction Requirements**

Section 2-02.3 is supplemented with the following:

The removal and disposal of facilities indicated shall be conducted in such a manner as not to damage utilities, or any portion of improvements that are to remain in place. Any damage caused by the Contractor and his operations shall be repaired, replaced, or otherwise properly restored to the satisfaction of the Engineer at no cost to the Owner.

Disposal shall be in accordance with Section 2-01 of the Standard Specifications and these Special Provisions.

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

Section 2-02.3(3) is supplemented with the following:

1. All removed concrete pieces shall become the property of the Contractor and shall be removed from the project.

2. Prior to removal, the Contractor shall make a full-depth vertical sawcut between any sidewalk, curb ramp or curb and gutter that is to remain and the portion to be removed. The sawcut shall be at the nearest joint to form a neat line for removal from the project site.
3. The Contractor shall replace at no expense to the Owner and to the satisfaction of the Engineer any existing pavement, sidewalk, curb ramp, or curb and gutter designated to remain that is damaged during the removal operation.
4. The contractor shall make a neat full depth vertical sawcut in the existing pavement at a minimum distance of one (1) foot from the curb and gutter to be removed to provide a large enough area to build to curb and place and compact a pavement section. The approximate thickness of the existing asphalt concrete pavement in the roadway varies. Contractor's attention is also drawn to Section 8-04.3 of the Special Provisions. See Standard Plans for details.
5. The equipment and procedures used to make the full-depth sawcut shall be approved by the engineer. No waste water from the sawcutting operation shall be released directly to any stream or storm sewer system.
6. Extra care shall be taken to protect existing traffic loops that are to remain, when removing and replacing curb and gutter. Any traffic loops damaged by the Contractor shall be replaced at the Contractor's expense.
7. Pedestrian and wheel chair access to sidewalks must be maintained to one side of each street at all times. The Contractor shall only remove and replace existing cement concrete sidewalk(s), curb and gutter(s), curb ramp(s) at one quadrant of an intersection at a time. If it is not possible to restrict access to one side quadrant of a street, the Contractor must provide proper wheelchair accessible pedestrian detours, per the MUTCD, around closed sidewalk areas.

**2-02.3(4) Removal of Pavement Markings**

**New Section**

*(January 17, 2014)*

All pavement markings, including, but not limited to: paint, lane markers, traffic buttons, plastic markings, and adhesive residue shall be removed prior to overlay. This work shall be incidental to other bid items of the contract, and no separate payment will be made.

**2-02.3(5) Asphalt Concrete Sawcut**

**New Section**

*(January 17, 2014)*

Where shown in the Plans or where directed by the Engineer, the Contractor shall make a neat, full-depth vertical saw cut at the boundaries of the area to be removed. Care shall be taken when sawcutting as not to damage any of the existing pavement to remain in place. Any pavement damaged by the Contractor due to his operations shall be repaired or replaced by him at his own expense.

#### **2-02.4 Measurement**

Section 2-02.4 is supplemented with the following:

Asphalt/Cement Conc. sawcutting will be measured by the linear foot and full-depth sawcut.

#### **2-02.5 Payment**

Section 2-02.5 is supplemented with the following:

Payment will be made for each of the following bid items that are in the proposal:

"Asphalt/Cement Concrete Sawcut", per lineal foot.

The contract bid prices, including all incidental work, shall be full compensation for all labor, material, tools, disposal fees, and equipment necessary to satisfactorily complete the work as defined in these Special Provisions, including properly disposing of the removed materials off-site and leaving what is to remain in good condition.

Removal of asphalt concrete pavement and base associated with the removal of curb and gutters will not be measured, but will be considered as part of "Concrete Curb and Gutter" and "Cement Conc. Curb Ramps Type \_\_\_".

Sawcutting sidewalks, driveways, curb and gutters, and truncated dome retrofits will be incidental to the removal and replacement of those items. Sawcutting for wheelchair ramps shall be incidental to "Cement Conc. Curb Ramps Type \_\_\_", per each.

Removal of Cement Conc. Sidewalk, Removal of Cement Conc. Driveway, Removal of Cement Conc. Curb Ramp, Removal of Cement Conc. Extruded Curb, or Removal of Cement Conc. Curb and Gutter will not be measured and paid, but will be considered as part of "Cement Conc. Sidewalk", "Cement Conc. Driveway", "Cement Conc. Curb Ramp Type \_\_\_", "Cement Conc. Extruded Curb", "Cement Conc. Curb and Gutter".

Where the Contractor chooses to use grinding or pulverizing to remove asphalt concrete pavement, the vertical line left by grinding or pulverizing shall be considered equivalent to a sawcut, but in that case no separate payment shall be made for sawcut.

### **2-03 ROADWAY EXCAVATION AND EMBANKMENT**

#### **2-03.1 Description**

Section 2-03.1 is supplemented with the following:

Roadway excavation shall include excavation for patching, roadway reconstruction and roadway widening.

### **2-03.3(14)J Gravel Borrow Including Haul**

Section 2-03.3(14) is supplemented with the following:

Where patching, roadway reconstruction or roadway widening is called for, either as shown in the Plans or as directed by the Engineer, it is the intent to excavate to a depth shown in the Plans as the bottom of the crushed surfacing top course.

Where and if the Engineer determines that unstable subgrade material exists below this depth, the Engineer may direct the Contractor to excavate an additional depth to stabilize the area.

When an excavation depth exceeds the bottom of the proposed crushed surfacing top course, the area below the crushed surfacing top course shall be backfilled with "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul".

Excavation and backfill below grade as heretofore defined for Gravel Borrow Including Haul shall be included in the unit contract price for "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul" and "Roadway Excavation, Incl. Haul".

### **2-03.4 Measurement**

Section 2-03.4 is supplemented with the following:

"Roadway Excavation Incl. Haul" measurement for roadway excavation including haul shall be in accordance with Section 2-03.4 of the Standard Specifications.

### **2-03.5 Payment**

Section 2-03.5 is supplemented with the following:

"Roadway Excavation Incl. Haul" shall be paid by the cubic yard. No separate payment will be made for haul or wasting excavated material.

Payment per cubic yard for "Roadway Excavation Incl. Haul" shall be for pavement repair and pavement widening areas only. Sidewalk, conc. ramp, curb and gutter removal shall be incidental to other bid items.

## **2-06 SUBGRADE PREPARATION**

Subgrade preparation for Pavement Repair and Roadway Widening shall be accomplished in accordance with section 2-06.

### **2-06.3(2) Subgrade for Pavement**

Section 2-06.3(2) is supplemented with the following:

At locations designated in the field by the Engineer, the existing roadway will be widened or reconstructed. The existing and final pavement widths vary, and shall be as determined by the Engineer.

## **2-06.5 Measurement and Payment**

Section 2-06.5 is supplemented with the following:

All costs for providing materials and construction for subgrade preparation, shall be included in the contract prices for "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul", and "HMA Class 1/2" PG 64 -22 for Pavement Repair and Roadway Widening", respectively.

## **2-07 WATERING**

### **2-07.1 Description**

Section 2-07.1 is supplemented with the following:

Water required for compacting embankments, construction subgrade, placing crushed surfacing, grinding, pulverizing, dust control, and as the Engineer requires shall be provided in accordance with Section 2-07.3 of the Standard Specifications.

### **2-07.5 Payment**

Section 2-76.5 is supplemented with the following:

All costs for providing and applying water shall be considered incidental to and included in the unit contract prices for the various items involved.

## **2-12 CONSTRUCTION GEOSYNTHETIC**

### **2-12.3 Construction Requirements**

Section 2-12.3 is supplemented with the following:

The area to be covered by the geosynthetic shall be graded to a smooth, uniform condition free from ruts, potholes, and protruding objects such as rocks or sticks. The geosynthetic shall be spread immediately ahead of the covering operation. The geosynthetic shall not be left exposed to sunlight during installation for a total of more than 5 calendar days. The geosynthetic shall be laid smooth without excessive wrinkles. Under no circumstances shall the geosynthetic be dragged through mud or over sharp objects which could damage the geosynthetic. The cover material shall be placed on the geosynthetic in such a manner that a minimum of 12 to 18 inches of material, depending on the survivability of the geosynthetic, will be between the equipment tires or tracks and the geosynthetic at all times. Construction vehicles shall be limited in size and weight such that rutting in the initial lift above the geosynthetic is not greater than 3 inches deep, to prevent overstressing the geosynthetic. Turning of vehicles on the first lift above the geosynthetic will not be permitted. End-dumping the cover material directly on the geosynthetic will not be permitted. Compaction of the first lift above the geosynthetic shall be limited to routing of placement and spreading equipment only. No vibratory compaction will be allowed on the first lift.

Pegs, pins, or the manufacturer's recommended method shall be used as needed to hold the geosynthetic in place until the specified cover material is placed.



Should the geosynthetic be torn or punctured or the overlaps or sewn joints disturbed, as evidenced by visible geosynthetic damage, subgrade pumping, intrusion, or roadbed distortion, the backfill around the damaged or displaced area shall be removed and the damaged area repaired or replaced by the Contractor at no cost to the Contracting Agency. The repair shall consist of a patch of the same type of geosynthetic placed over the damaged area. The patch shall overlap the existing geosynthetic a minimum of 2 feet from the edge of any part of the damaged area.

If geosynthetic seams are to be sewn in the field or at the factory, the seams shall consist of two parallel rows of stitching. The two rows of stitching shall be 0.5 inch apart with a tolerance of 0.25 inch and shall not cross, except for restitching. The stitching shall be a lock-type stitch. The minimum seam allowance, i.e., the minimum distance from the geosynthetic edge to the stitch line nearest to that edge, shall be 1.5 inches if a flat or prayer seam, Type SSa-2, is used. The minimum seam allowance for all other seam types shall be 1.0 inch. The seam, stitch type, and the equipment used to perform the stitching shall be as recommended by the manufacturer of the geosynthetic and as approved by the Engineer.

The seams shall be sewn in such a manner that the seam can be inspected readily by the Engineer or his representative. The seam strength will be tested and shall meet the requirements stated in this Special Provision.

#### **2-12.4 Measurement**

Section 2-12.4 is supplemented with the following:

Construction geosynthetic for separation when used under pavement areas to separate the top course from the subgrade, will be measured by the square yard for the ground surface area actually covered.

#### **2-12.5 Payment**

Section 2-12.5 is supplemented with the following:

The unit contract price for "Construction Geosynthetic for Separation", per square yard as included in the proposal shall be full pay to furnish all materials, labor, and equipment, and to complete the work as specified.

END OF DIVISION 2

## **DIVISION 3**

### **PRODUCTION FROM QUARRY AND PIT SITES AND STOCKPILING**

#### **3-01 PRODUCTION FROM QUARRY AND PIT SITES**

##### **3-01.4 Contractor Furnished Material Sources**

Section 3-01.4 is supplemented with the following:

No source has been provided for any materials necessary for the construction of this improvement.

If the sources of material provided by the Contractor necessitates hauling over roads other than City streets, the Contractor shall, at its own cost and expense, make all arrangements for the use of the haul routes.

##### **3-01.6 Payment**

Section 3-01.6 is supplemented with the following:

Any work performed by the Contractor under Division 3 shall be considered incidental to the furnishing of materials. All cost of acquiring, producing, and placing this material shall be incidental to and included in the unit contract prices for the various items involved.

END OF DIVISION 3

## **DIVISION 4 BASES**

Wherever specifications are made for "Pavement Repair and Roadway Widening" in the following division, they shall also apply to "Shoulder Reconstruction and Shoulder Widening".

### **4-04 BALLAST AND CRUSHED SURFACING**

#### **4-04.1 Description**

Section 4-04.1 is supplemented with the following:

Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul shall be accomplished in accordance with Section 4-04 of the Standard Specifications.

#### **4-04.2 Materials**

Section 4-04.2 is supplemented with the following:

5/8" Minus crushed rock may be substituted for Maintenance Rock for Shoulder Reconstruction.

#### **4-04.4 Measurement**

Section 4-04.4 is supplemented with the following:

"Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul" will be measured by the ton.

#### **4-04.5 Payment**

Section 4-04.5 is supplemented with the following:

Payment will be made for the following bid items:

1. "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul", per ton.
2. "Maintenance Rock for Shoulder Reconstruction, Incl. Haul", per ton.

The Contract bid price above, including all incidental work, shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

END OF DIVISION 4

## **DIVISION 5 SURFACE TREATMENTS AND PAVEMENTS**

Wherever specifications are made for "Pavement Repair and Roadway Widening" in the following division, they shall also apply to "Shoulder Reconstruction and Shoulder Widening".

### **5-04 HOT MIX ASPHALT**

Hot Mix Asphalt (HMA) shall be constructed in accordance with Section 5-04 of the Standard Specifications except as modified hereinafter.

#### **5-04.2 Materials**

Section 5-04.2 is supplemented with the following:

All HMA shall be HMA Cl. 1/2" PG 64-22.  
Crack Sealing CSS-1 emulsified asphalt  
Tack Coat CSS-1 emulsified asphalt

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

Section 5-04.3 is supplemented with the following:

HMA Class 1/2" PG 64 -22 shall be placed to the compacted depths shown and as leveling and wearing course where shown or noted. HMA over three inches (3") in compacted depth shall be placed in two (2) equal lifts. Placement shall be in accordance with applicable Sections of 5-04 of the Standard Specifications, except that longitudinal joints between successive layers of HMA shall be displaced laterally a minimum of twelve inches (12").

During placement, the composition of the mix shall be subject to adjustment of the percentage of sand, filler, and asphalt as directed by the Engineer.

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

Section 5-04.3(3)A is supplemented with the following:

Delete this section in its entirety.

##### **5-04.3(5) Conditioning of Existing Surface**

Section 5-04.3(5) is supplemented with the following:

Prior to paving, the Engineer shall mark all areas requiring a preleveling and review these areas with the Contractor.

Compaction of prelevel shall be by pneumatic roller only.

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

Section 5-04.3(5)A is supplemented with the following:

Any removal of material overgrowing the roadway, such as grass or moss, in areas that are not to be repaired, will be paid as force account, under the following bid item per section 2-01.5 of the Standard Specifications:

"Roadside Cleanup" by force account.

Removal of other material, such as leaves or debris that is not growing on the surface of the pavement, will be considered incidental to the project. All areas in which growing material was removed from the roadway shall be treated with Soil Residual Herbicide per section 5-04.3(5)D.

### **5-04.3(5)C Crack Sealing**

Section 5-04.3(5)C is amended as follows:

All streets must be crack sealed, and all costs in connection with crack sealing shall be paid under the following bid items per section 2-01.5 of the Standard Specifications:

"Roadside Cleanup" by force account.

### **5-04.3(5)D Soil Residual Herbicide**

Section 5-04.3(5)D is amended as follows:

Soil Residual Herbicide shall be placed in all areas as needed, as directed by the Engineer, and all costs for Soil Residual Herbicide shall be incidental and included in the unit contract price for "HMA Class 1/2" PG 64 -22".

### **5-04.3(5)E Pavement Repair**

Section 5-04.3(5)E is supplemented with the following:

Pavement repair consists of asphalt concrete sawcut, removing asphalt concrete pavement, crushed surfacing and subgrade, and installing Construction Geosynthetic for Separation, placing crushed surfacing top course, and HMA in accordance with the details shown in the Plans or as directed by the Engineer. Pavement repair excavation may also be performed by the use of a milling machine of a type that has operated successfully on work comparable with that to be done under the contract and shall be approved by the Engineer prior to use. If a milling machine is used for excavation, the excavation shall be in accordance with the "Alternative Pavement Patching Detail" shown in the Plans or as directed by the Engineer. In all types of excavation, after the removal of the asphalt, the base material will be evaluated by the inspector, to determine if it is suitable. If the base is determined not to be suitable, removal of the base material, per the typical details shown in the Plans, shall be performed, and restoration will be per the typical detail, regardless of the method used for excavation.

The dimensions shown in the Plans for pavement repair are approximate and are provided for bidding purposes only. The actual dimensions to be used will be marked by the

Engineer at the time of construction. No changes to the unit prices bid for the various items will be permitted due to any increase or decrease in the amount of pavement repair.

Contractor shall complete each pavement repair location within one working day if the pavement repair is located within the traveled way.

### **5-04.3(7)A Mix Design**

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

Section 5-04.3(7)A1 is supplemented with the following:

The Contractor shall provide the City a mix design for all specified classes of mix and binder type that has been approved by WSDOT within the last 12 months. The mix design(s) shall have met all the requirements of Sections 9-03.8(2) and 9-03.8(6). The Contractor shall also provide documentation that the aggregates and binder used are the same as those used to meet the requirements for the WSDOT approved mix design. In no case shall the Contractor begin paving before the City has approved the submitted mix design(s).

### **5-04.3(8) Mixing**

#### **5-04.3(8)A Acceptance Sampling and Testing – HMA Mixture**

Delete Section 5-04.3(8)A in its entirety and replace it with the following:

1. General: Dense graded mixes (HMA Classes ½" and 1") shall be evaluated for quality of gradation and asphalt binder content by the Contractor and the test report submitted to the City Project Engineer.
2. Aggregates: Aggregates for HMA shall be manufactured from ledge rock, talus, or gravel in accordance with Section 3-01. The material from which they are made shall meet the requirements of Section 9-03.8(2).

*(January 19, 2016 \*\*\*\*\*)*

#### **5-04.3(8)B Basis of Acceptance**

1. The Contractor submitted reference mix design shall conform to the following requirements. HMA will be accepted based on its conformance to the project job mix formula (JMF) provided by the Contractor and laboratory density tests. For the acceptance of a project JMF, the Contractor shall submit to the Engineer a laboratory report stating that the representative samples of the various aggregates and blend sand to be used, along with the gradation data, the various aggregate stockpile averages, the proposed combining ratios, and the average gradation of the completed mix have been verified.
  - A. Tolerances — Nonstatistical Acceptance. After the JMF is determined, the constituents of the mixture at the time of acceptance shall conform to the range of the proportion specified in the broad band specifications for gradation and the design mix asphalt binder content plus or minus 0.5 percent.

B. Adjustments:

1. Aggregates. Upon written request from the Contractor, the Project Engineer may approve field adjustments to the JMF including the Contractor's proposed combining ratios for mineral aggregate stockpiles and blend sand. The maximum allowed gradation change shall be 2 percent for the aggregate retained on the No. 10 sieve and above, 1 percent for the aggregate passing the No. 10 and No. 40 sieves, and 0.5 percent for the aggregate passing the No. 200 sieve. Blend sand may be changed a maximum of 5 percent. The above adjustments and/or any further adjustments as ordered by the Engineer will be considered as a new JMF. Adjustments beyond these limits will require development of a new JMF. The adjusted JMF plus or minus the allowed tolerances shall be within the range of the broad band specifications.
2. Asphalt Binder Content. The Project Engineer may order or approve the Contractor's request to change asphalt binder content a maximum of - 0.3 percent from the approved JMF. No field adjustments of the JMF relative to the asphalt binder content exceeding 0.3 percent from the initial JMF will be made without approval of the Engineer.

2. Hot Mix Asphalt Mixture:

A. Sampling:

1. A sample will not be obtained from either the first or last 25 tons of mix produced in each production shift. No samples shall be taken for daily quantities under 250 tons in a day.
2. Samples for compliance of gradation and asphalt binder content will be obtained on a random basis from the hauling vehicle. The Contractor shall provide adequate platforms to enable samples to be obtained in accordance with WAQTC FOP for AASHTO T 168. The platforms shall allow the sample to be taken without the Engineer entering the hauling vehicle.

B. Test Results. The Contractor will furnish the Engineer with a copy of the results.

C. Test Methods. Acceptance testing for compliance of asphalt binder content will be WSDOT FOP for AASHTO Test Method T 308.

Acceptance testing for compliance of gradation will be WAQTC FOP for AASHTO T 27&T11.

D. Rejection by Contractor: The Contractor may, prior to sampling, elect to remove any defective material and replace it with new material at no expense to the City. Any such new material will be sampled, tested, and evaluated for acceptance.

### **5-04.3(10) Compaction**

#### **5-04.3(10)B Control**

Delete Section 5-04.3(10)B in its entirety and replace it with the following:

For HMA, where paving is in the traffic lanes, including lanes for ramps, truck climbing, weaving, speed changes, and left turn channelization, and the specified compacted course thickness is greater than 0.10 foot, the acceptable level of compaction shall be a minimum of ninety-two percent (92%) of the maximum density as determined by WSDOT Test Method 705. The level of compaction attained will be determined as the average of not less than five (5) nuclear density gauge tests taken on the day the mix is placed (after completion of the finish rolling) at randomly selected locations within each lot. The quantity represented by each lot will be no greater than a single day's production or approximately 400 tons, whichever is less.

Control lots not meeting the minimum density standard shall be removed and replaced with satisfactory material. At the option of the Engineer, noncomplying material may be accepted at a reduced price.

Cores may be used as an alternate to the nuclear density gauge tests. When cores are taken by the Engineer at the request of the Contractor, the request shall be made by noon of the first working day following placement of the mix. The Engineer shall be reimbursed for the coring expenses at the rate of Two Hundred and 00/100 Dollars (\$200.00) per core when the core indicates the acceptable level of compaction within a lot has not been achieved.

At the start of paving, if requested by the Contractor, a compaction test section shall be constructed as directed by the Engineer to determine the compatibility of the mix design. Compatibility shall be based on the ability of the mix to attain the specified minimum density (ninety-two percent (92%) of the maximum density determined by WSDOT Test Method 705). Following determination of compatibility, the Contractor is responsible for the control of the compaction effort. If the Contractor does not request a test section, the mix will be considered compactable.

HMA constructed under conditions other than listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

Preleveling mix shall be compacted to the satisfaction of the Engineer.

In addition to the randomly selected locations for tests of the control lot, the Engineer reserves the right to test any area which appears defective and to require the further compaction of areas that fall below acceptable density readings. These additional tests shall not impact the compaction evaluation of the entire control lot.



### **5-04.3(14) Planing Bituminous Pavement**

Section 5-04.3(14) is supplemented with the following:

The roadway shall be planed only within the limits shown in the Plans and as directed by the Engineer.

The beginning and ending of each lane of planing shall be squared off to form a uniform joint. All "fins" and small sections of old pavement remaining around existing castings shall be removed by hand operations, if necessary, to provide a stable edge for overlay pavement.

The Contractor shall provide for safe vehicular travel over existing manholes, valve boxes, etc., during planing operations.

Prior to opening to traffic, any delaminating of existing HMA shall be removed from the site and resulting holes shall be patched with HMA Class ½" PG 64 -22, and shall be paid under "HMA Class ½" PG 64 -22, for Repair and Roadway Widening". Also, the surface shall be cleaned by sweeping to remove dust and foreign matter. A sweeper shall be present at all times during planing operations.

Planing and paving activities shall be coordinated so that all planed sections of roadway are overlaid within seven (7) working days.

#### **Butt Joints**

Butt joints shall be planed to the dimensions shown in the Plans. Measurement shall be by the square yard for Planing of Bituminous Pavement as specified in Section 5-04.4 of the Standard Specifications.

#### **Damage**

Damage from planing beyond the planing limits or from the Contractor's operations shall be repaired at the Contractor's expense.

### **5-04.3(17) Paving Under Traffic**

Section 5-04.3(17) is supplemented with the following:

The Contractor shall install, maintain, and remove approved four inch (4") wide reflective traffic tape, and/or temporary reflective lane markers, when paint lines or other pavement markings are obliterated due to construction activities or pavement restoration, whenever permanent pavement markings are included in the Contract and traffic is released onto public streets or roadways prior to installation of permanent pavement markings, or as directed by the Engineer.

The Contractor shall perform preliminary layout work to the satisfaction of the Engineer prior to installation of the temporary pavement markings. The temporary pavement markings shall be installed and maintained to the satisfaction of the Engineer until the permanent pavement markings are installed and approved in writing by the Engineer. After approval of permanent lane markings, the Contractor shall remove the temporary lane markings to the satisfaction of the Engineer. All permanent pavement markings must be

placed no later than seven (7) calendar days after the final lift of paving is completed, except 90-mil methyl methacrylate materials, which must be placed no later than twenty-one (21) calendar days after the final lift of paving is completed.

Appropriately colored 4-inch wide reflective traffic tape shall be installed with a skip pattern based on a 10-foot unit consisting of a 1-foot line of tape and a nine foot (9') gap, unless otherwise specified in the Plans or in the Special Provisions. Reflective traffic tape markings shall generally follow the alignment for the permanent pavement markings and double lines shall be used when specified for the permanent pavement markings. Reflective tape shall not be used when the temporary pavement markings are to be exposed to traffic for more than two weeks without the written approval of the Engineer.

All costs in connection with temporary tape shall be incidental to and included in the unit contract price for "HMA Class 1/2" PG 64 -22".

### **5-04.3(20) Anti-Stripping Additive**

Section 5-04.3(20) is supplemented with the following:

When an approved anti-stripping additive is added to a class of asphalt concrete pavement as a result of a proper mix design, it shall be approved by the City. Once designated for use on a specific project, the brand, grade, or percentage of anti-stripping additive shall not be changed without approval of the Engineer.

All anti-strip additives shall be considered as incidental to and included in the unit contract price for all classes of HMA.

### **5-04.4 Measurement**

"HMA Class 1/2" PG 64-22" will be measured by the ton.

"HMA Class 1/2" PG 64-22, for Pavement Repair and Roadway Widening" will be measured by the ton.

"HMA Class 1/2" PG 64-22 for Preleveling" will be measured by the ton.

"Planing Bituminous Pavement" will be measured by square yard.

### **5-04.5 Payment**

Payment will be made per the Standard Specifications for each of the following bid items that are included in the proposal:

"HMA Class 1/2" PG 64-22", per ton.

"HMA Class 1/2" PG 64-22, for Pavement Repair and Roadway Widening", per ton.

"HMA Class 1/2" PG 64-22 for Preleveling", per ton.

"Planing Bituminous Pavement", per square yard.

"Tack Coat" will be incidental

The contract bid prices above, including all incidental work shall be full compensation for all prime coat, tack coat, labor, materials, tools and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and the Special Provisions.

Payment for pavement repair shall be by the unit prices bid for "Asphalt/Cement Concrete Sawcut", "Roadway Excavation, Incl. Haul", "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul", and "HMA Class 1/2" PG 64 -22, for Pavement Repair and Roadway Widening", specified herein. If a milling machine is used for pavement excavation, payment shall be by the unit bid prices for "Roadway Excavation, Incl. Haul", based upon a neat line measurement of the excavated area.

**5-04.5(1) Quality Assurance Price Adjustments**

Delete Section 5-04.5(1) in its entirety.

**5-04.5(1)A Price Adjustment for Quality of HMA Mixture**

Delete Section 5-04.5(1)A in its entirety.

**5-04.5(1)B Price Adjustment for Quality of HMA Compaction**

Delete Section 5-04.5(1)B in its entirety.

END OF DIVISION 5

## **DIVISION 7 DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND CONDUITS**

### **7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS**

Adjustments and repair of manholes and catch basins shall be in accordance with Section 7-05 of the Standard Specifications except as modified hereinafter.

#### **7-05.2 Materials**

The City of Federal Way will provide ERGO heavy duty frames and covers, and Infra-Riser high impact rubber composite adjustment risers for specified manholes or catch basins.

#### **7-05.3 Construction Requirements**

Section 7-05.3 is supplemented with the following:

Backfill around catch basins shall be compacted by mechanical tampers in accordance with Section 2-03.3(14)C "Method B" of the Standard Specifications.

Catch basin cover frames shall be installed on precast rings or as directed by the Engineer. All bricks shall be installed with full mortar coverage and shall be plastered on the surface to a depth of  $\frac{3}{4}$  inch both inside and outside of the structure. Catch basin covers shall be adjusted to the rim elevations per Section 7-05.3(1).

#### **7-05.3(1) Adjusting Manholes and Catch Basins to Grade**

Section 7-05.3(1) is supplemented with the following:

Manholes and catch basins shall not be adjusted to final grade until the adjacent pavement is completed, at which time the center of each structure shall be carefully relocated from references previously established by the Contractor. The asphalt concrete pavement shall be removed to a neat circular shape for manholes and catch basins with conversion risers and a neat rectangular shape for catch basins that collect runoff. The edge of the cut shall be 1.5 feet from the outside edge of the cast iron frame of the structure. The base materials and crushed rock shall be removed to the full depth of adjustment plus 2 inches. The manhole and catch basin frames shall be lifted and reset to the final grade, plumb to the roadway, and shall remain operational and accessible. (Reference City of Federal Way Standard Drawing 3-55 for Utility Adjustment).

The Contractor shall adjust manholes and catch basins with pre-cast grade rings and mortar, and/or high impact adjustment risers with a maximum 2-inch thickness where required for heavy-duty frames and covers within the travelled roadway. Metal adjustment rings and frame ring extensions shall not be used. If more than three grade rings are required to adjust a manhole or Type 2 catch basin to final grade, including existing grade rings, the Contractor shall remove the existing cone section or top slab, install a pre-cast manhole section of sufficient height to limit the number of grade rings to a maximum of three, and reinstall the cone section or top slab prior to paving operations. Grade

adjustment rings and high impact riser installation shall be inspected by the Engineer prior to frame installation. Cover and grate frames shall be securely grouted to the structure.

Where existing Type 1 structures are located within the wheel path of a proposed travel lane and do not collect runoff, catch basins adjusted to grade shall also include conversion risers (Reference City of Federal Way Standard Drawing 4-18), heavy duty locking frames and covers, and high-impact risers. The City of Federal Way will provide ERGO heavy duty frames and covers, and Infra-Riser high impact rubber composite adjustment risers for specified manholes or catch basins.

Following frame installation, the edges of the removed asphalt pavement and the outer edge of the reset frame shall be painted with asphalt for tack coat. The entire void around the adjustment shall then be filled with Commercial HMA, placed and compacted using maximum 3-inch lifts, to match the adjacent pavement surface. The joint between the patch and existing pavement shall then be painted with asphalt for tack coat and immediately covered with dry paving sand before the asphalt for tack coat solidifies.

All catch basin frames and grates removed shall remain the property of the City and shall be delivered by the Contractor to the City as directed by the Engineer.

#### **7-05.3(5) Repair, Rebuild or Re-align Manholes and Catch Basins**

Where existing manholes and catch basins were poured monolithic with the curb and gutter and removal of the adjacent curb and gutter damages the existing structure; or where the horizontal alignment of the existing manhole or catch basin requires re-aligning and adjusting the structure elevation; or where manholes or catch basins are damaged during grinding, the contractor shall remove the existing frame and grate, adjustment bricks and adjustment risers down to the structure base and rebuild the structure per Section 7-05.3.

#### **7-05.3(6) Adjust Existing Utility to Grade**

#### **New Section**

As shown in the Plans, existing utilities such as monuments, manholes, water valves, and meter boxes shall be adjusted to finished grade. The Contractor shall familiarize itself with the existing utility locations prior to the beginning of any work. The Contractor shall adjust City-owned utilities. Final adjustment shall be smooth and flush with finished grade. The Contractor shall mark the location of all utilities prior to paving the new surface. Unless otherwise provide in the Special Provisions and Proposal, costs for adjusting utilities to grade, including coordinating the work with other utilities, shall be incidental to the various items of work and no additional compensation will be allowed.

Existing facilities shall be adjusted to the finished grade as shown in the Plans and as further specified herein. Existing box, ring, grate, and cover shall be reset in a careful and workmanlike manner to conform to the new grade. Special care shall be exercised in all operations. Any damage occurring to the manholes, concrete catch basins, monument cases, valve boxes, or water mains, due to the Contractor's operations, shall be repaired at the Contractor's own expense. Adjustments shall be made using bricks, concrete blocks, or cement, and the interior of the manhole adjustment shall be mortared smoothly. All covers and frames shall be thoroughly cleaned. The Contractor shall be responsible for

referencing and keeping a record of such references of all manholes, catch basins, monument cases, meter boxes, and valve boxes encountered, and shall submit a copy of these references to the Engineer.

#### **7-05.4 Measurement**

Section 7-05.4 is supplemented with the following:

- "Adjust Manhole", will be measured per each.
- "Adjust Catch Basin", will be measured per each.
- "Install Conversion Riser for Type I Catch Basin", will be measured per each.
- "Repair or Rebuild Manhole", will be measured per each.
- "Adjust Existing Utility to Grade", will be measured per each.

#### **7-05.5 Payment**

Payment will be made for each of the following bid items that are included in the proposal:

- "Adjust Manhole", per each.
- "Adjust Catch Basin", per each.
- "Install Conversion Riser for Type I Catch Basin", per each.
- "Repair or Rebuild Manhole", per each.
- "Adjust Existing Utility to Grade", will be measured per each.

The contract bid prices for the above, including all incidental work, shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

Sawcutting, pavement removal and repair, excavation, curb and gutter removal and replacement, and any other work required to complete the items of work shall be considered incidental to other bid items, and no separate payment will be made.

The City of Federal Way will provide ERGO heavy duty frames and covers, and Infra-Riser high impact rubber composite adjustment risers for specified manholes or catch basins.

END OF DIVISION 7

## **DIVISION 8 MISCELLANEOUS CONSTRUCTION**

### **8-2 ROADSIDE RESTORATION**

#### **8-02.2 Materials**

Section 8-02.2 is supplemented with the following:

Materials shall meet the requirements of the following sections:

Soil	9-14.1
Sod	9-14.6(8)

#### **8-02.3 Construction Requirements**

##### **8-02.3(13) Plant Establishment**

Section 8-02.3(13) is supplemented with the following:

(January 4, 2018)

Plant establishment shall consist of insuring resumption and continued growth of all planted material including trees, shrubs, ground cover, lawn sod and seeded areas for a period of one (1) year. This shall include, but is not limited to labor and materials necessary for removal and replacement of any rejected plant material planted under this contract.

#### **8-02.4 Measurement**

The first paragraph of Section 8-02.4 is revised as follows:

(January 14, 2017)

Sod Lawn, Incl. 4 in Topsoil will be measured per square yard.

#### **8-02.5 Payment**

Section 8-02.5 is supplemented with the following:

(January 14, 2017)

"Sod Lawn, Incl. 4 in Topsoil", per square yard.

### **8-04 CURB, GUTTERS, AND SPILLWAYS**

#### **8-04.3 Construction Requirements**

Section 8-04.3 is supplemented with the following:

The subgrade for curb and gutter sections shall be compacted to ninety-five (95%) percent density.

A minimum of four (4) inches of CSTC, compacted to ninety-five (95%) percent density shall be placed under curb and gutter prior to installation.

The top of the finished concrete shall not deviate more than one-eighth inch (1/8") in ten feet (10') or the alignment one-fourth inch (1/4") in ten feet (10').

The existing concrete curb and gutter shall be removed in accordance with section 2-02.3(3) which leaves a two (2) feet gap. This gap shall have its subgrade prepared and be paved with a minimum of four inches (4") CSTC and three inches (3") HMA Class 1/2" PG 64-22 (compacted depths), or match existing depths whichever is greater. Total HMA overlay depth shall be 5" thickness minimum. See standard plans for details.

Cement Conc. Curb and Gutter, Mountable Cement Concrete Curb and Cement Conc. Extruded Curb shall be removed and replaced as shown in the Plans or at designated locations as directed by the City.

Cement Conc. Curb and Gutter at existing curb ramps shall be removed and replaced as shown in the Plans or at designated locations as directed by the City.

Cement Conc. Curb forms shall not be removed any sooner than four (4) hours after concrete placement.

Extra care shall be taken to protect existing traffic loops to remain, when removing and replacing pavement, curb and gutter. Any traffic loops damaged by the Contractor shall be replaced at the Contractor's expense.

New Conc. Curb and Gutter shall conform to the details in the design Plans and Current WAC for Barrier Free Design.

Mountable Cement Conc. Curb and Extruded Conc. Curb shall be placed no later than seven (7) calendar days after the final lift of paving has been completed in each Schedule where required.

Mountable Cement Conc. Curb shall be painted with two full coats of paint formula No. H-2-83 or H-3-83 as shown in the Plans or as designated by the Engineer. The paint can be applied by brush or spray. The second coat shall have glass traffic paint beads sprinkled in the wet paint at the rate of 12 pounds per 100 linear foot of curbing. The beads shall conform to the requirements of Section 9-34.4.

#### **8-04.4 Measurement**

Section 8-04.4 is supplemented with the following:

Cement Conc. Curb and Gutter will be measured per linear foot.

Cement Conc. Extruded Curb will be measured per linear foot.

Cement Conc. Mountable Curb will be measured per linear foot.



### **8-04.5 Payment**

Section 8-04.5 is supplemented with the following:

"Cement Conc. Curb and Gutter", per linear foot.

"Cement Conc. Extruded Curb", per linear foot.

"Cement Conc. Mountable Curb", per linear foot.

"Cement Conc. Curb and Gutter in front of Curb Ramp", incidental to Curb Ramp Type

—.

The unit contract price per linear foot for "Cement Conc. Curb and Gutter", "Cement Conc. Extruded Curb" and "Cement Conc. Mountable Curb" shall be full payment for all incidental work including excavation, removal, disposal, forms, preparation of subgrade, placement, backfill and compaction, HMA Class 1/2" PG 64 -22 and CSTC for pavement repair, and all other materials, tools, equipment, and labor required for the construction of same.

## **8-07 PRECAST TRAFFIC CURB**

### **8-07.1 Description**

Section 8-07.1 is supplemented with the following:

This work shall consist of removing, furnishing and replacing precast traffic curb, block traffic curb, sloped mountable curb, or dual faced sloped mountable curb of the design and type specified in the Plans in accordance with these Specifications and the Standard Plans in the locations indicated in the Plans or as staked by the Engineer.

### **8-07.3 Construction Requirements**

Section 8-07.3 is supplemented with the following:

Where shown in the Plans or as directed by the Engineer, existing Type C Curb is to be removed and replaced with Precast Dual Faced Sloped Mountable Curb and Precast Sloped Mountable Curb. All Precast Dual Faced Sloped Mountable Curb and Precast Sloped Mountable Curb shall be placed no later than seven (7) calendar days after the final lift of paving has been completed in each Schedule where required.

### **8-07.4 Measurement**

Section 8-07.4 is supplemented with the following:

Precast Dual Faced Sloped Mountable Curb will be measured per linear foot.

Precast Sloped Mountable Curb will be measured per linear foot.

### **8-07.5 Payment**

Section 8-07.5 is supplemented with the following:

"Precast Dual Faced Sloped Mountable Curb," per linear foot.

"Precast Sloped Mountable Curb," per linear foot.

The unit contract price per linear foot for "Precast Sloped Mountable Curb" and "Precast Dual Faced Sloped Mountable Curb" shall be full payment for all incidental work, including

the removal and disposal of the existing curb, and pavement repair, and all other materials, tools, equipment, and labor required for the construction of same.

## **8-09 RAISED PAVEMENT MARKERS**

### **8-09.2(1) Physical Properties**

**New Section**

Section 8-09.2(1) is supplemented with the following:

*(March 13, 2012)*

Type 2 Raised Pavement Markers shall NOT be ceramic.

### **8-09.3 Construction Requirements**

Section 8-09.3 is supplemented with the following:

*(January 19, 2016 \*\*\*\*\*)*

RPMs shall be installed per City of Federal Way Standard Details.

All Raised Pavement Markers shall be placed no later than seven (7) days after the final lift of paving has been completed in each Schedule where required, except in areas where 90-mil methyl methacrylate materials have been used for pavement markings, in which case the Raised Pavement Markings shall be placed no later than twenty-one (21) days after the final lift of paving has been completed.

### **8-09.4 Measurement**

Measurement of markers will be by units of 100 for each type of marker furnished and set in place.

### **8-09.5 Payment**

Payment will be made for each of the following bid items that are included in the proposal:

"Raised Pavement Marker Type 2", per hundred.

"Hydrant Marker Type 2B", per each.

## **8-13 MONUMENT CASES**

*(January 11, 2015\*\*\*\*\*)*

### **8-13.3(1) Adjusting Monument Cases**

**New Section**

The existing cast iron ring and cover on monument cases shall be removed and replaced at the new finished elevation; frame ring extensions may not be used. Contractor shall submit catalog cuts of extensions for approval.

Following monument case adjustment, the monument shall be verified for position by the City. If the monument has been displaced by the Contractor's operations, the Contractor shall at his own expense, remove and replace the case and reestablish the monument with a licensed professional surveyor.

**8-13.4 Measurement**

Section 8-13.4 is deleted and replaced by the following:

Adjust Monument Case & Cover will be measured per each.

**8-13.5 Payment**

Payment will be made for each of the following bid items that are included in the proposal:

"Adjust Monument Case & Cover", per each.

The unit contract price per each for "Adjust Monument Case & Cover" shall be full payment for all incidental work, including all labor, materials, tools, and equipment necessary to satisfactorily complete the work as defined in these Special Provisions.

**8-14 CEMENT CONCRETE SIDEWALKS**

**8-14.1 Description**

Section 8-14.1 is supplemented with the following:

Existing cement concrete sidewalks, driveway approaches, truncated dome retrofit and existing curb ramps shall be removed and replaced at designated locations as directed by the City. New curb ramps and warning strips shall conform to the details on the design plans and Current WAC for Barrier Free Design.

If any section of sidewalk is damaged due to vandalism, such as writing, by vehicles or pedestrians, the entire section, between joints, shall be removed and replaced, at no cost to the City.

**8-14.2 Materials**

Section 8-14.2 is supplemented with the following:

Material requirements for sidewalks shall also be applied to driveway approaches and curb ramps.

**8-14.3 Construction Requirements**

Section 8-14.3 is supplemented with the following:

The subgrade for sidewalks, driveway approaches, and curb ramps shall be compacted to ninety-five percent (95%) density.

CSTC, compacted to ninety-five percent (95%) density shall be placed at the following depths, under sidewalks, driveway approaches, curb ramps and curb and gutters prior to installation.

Sidewalks	two inches (2")
Driveway Approaches	four inches (4")

Curb Ramps	two inches (2")
Curb and Gutters	four inches (4")

**8-14.3(5) Detectable Warning Surface**

Section 8-14.3(5) is supplemented with the following:

MMA-Style Truncated Dome Detectable Warning Surfaces shall be liquid-applied Vanguard ADA Systems, or approved equal.

**8-14.4 Measurement**

Section 8-14.4 is supplemented with the following:

- Cement Conc. Sidewalk will be measured per square yard.
- Cement Conc. Approach will be measured per square yard.
- Cement Conc. Curb Ramp Type 1 Parallel will be measured per each.
- Cement Conc. Curb Ramp Type 2 Parallel will be measured per each.
- Cement Conc. Curb Ramp Type 1 Perpendicular will be measured per each.
- Cement Conc. Curb Ramp Type Single Direction will be measured per each.
- MMA-Style Truncated Dome Detectable Warning Surface will be measured by the square foot.

**8-14.5 Payment**

Section 8-14.5 is supplemented with the following:

- "Cement Conc. Sidewalk", per square yard.
- "Cement Conc. Approach", per square yard.
- "Cement Conc. Curb Ramp Type 1 Parallel", per each.
- "Cement Conc. Curb Ramp Type 2 Parallel", per each.
- "Cement Conc. Curb Ramp Type 1 Perpendicular", per each.
- "Cement Conc. Curb Ramp Type Single Direction", per each.
- "MMA-Style Truncated Dome Detectable Warning Surface", per square foot.

The unit contract price for the above, including all incidental work, and shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work.

The unit contract price per each for "Cement Conc. Curb Ramp Type \_\_\_\_" shall include removal, haul, and disposal of existing concrete and installation of Truncated Dome Detectable Warning Surface.

The unit contract price per square yard for "Cement Conc. Sidewalk" and "Cement Conc. Approach" shall include removal, haul and disposal of existing concrete.

## **8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL**

### **8-20.1 Description**

Section 8-20.1 is replaced with the following:

All work shall be performed as shown in the Plans in accordance with applicable Standard Specifications and Standard Plans included herein and the following Special Provisions. Work shall include the supply, testing, and installation of loop detectors.

The work involves, but shall not be limited to, the following:

1. Loop detection
2. Conduit and wire
3. Pedestrian Push Buttons

The existing traffic signal system shall be kept in full operation during construction until the new system is in place and ready for turn-on.

### **8-20.1(1) Regulations and Code**

The first and second sentences of the first paragraph are deleted and replaced with the following:

(March 13, 2012\*\*\*\*\*)

Where applicable, materials shall conform to the latest requirements of the Washington State Department of Labor and Industries and Puget Sound Energy.

### **8-20.1(2) Industry Codes and Standards**

(March 13, 2012\*\*\*\*\*)

The following is added at the end of the first paragraph of this section:

National Electrical Safety Code (NESC), Secretary NESC, NESC Committee, IEEE Post Office Box 1331445 Hoes Lane, Piscataway, NJ 08855-1331.

### **8-20.2(1) Equipment List And Drawings**

The first paragraph is deleted and replaced with the following:

(January 26, 2012 \*\*\*\*\*)

Within one (1) week following the pre-construction conference, the Contractor shall submit to the Engineer a completed "Request for Approval of Materials" that describes the material proposed for use to fulfill the Plans and Specifications. Manufacturer's technical information shall be submitted for signal, electrical and luminaire equipment, all wire, conduit, junction boxes, and all other items to be used on the project. Approvals by the Engineer must be received before material will be allowed on the job site. Materials not approved will not be permitted on the job site.

### **8-20.3(2) Excavating and Backfilling**

Section 8-20.3(2) is supplemented with the following:

*(January 8, 2013 \*\*\*\*\*)*

The Contractor shall supply all trenching necessary for the complete and proper installation of the traffic signal system modifications.

Trenching shall conform to the following:

1. In paved areas, edges of the trench shall be sawcut the full depth of the pavement and sawcuts shall be parallel. All trenches for placement of conduit shall be straight and as narrow in width as practical to provide a minimum of pavement disturbance. The existing pavement shall be removed in an approved manner. The trench bottom shall be graded to provide a uniform grade.
2. Trenches located under existing traveled ways shall provide a minimum of 24 inches cover over conduits and shall be backfilled with 21 inches of controlled density fill, vibrated in place, followed by either 3 inches minimum of HMA CI 1/2" PG 64 -22, or a surface matching the existing pavement section, whichever is greatest. The asphalt concrete surface cuts shall be given a tack coat of asphalt emulsion (CSS-1) or approved equal immediately before resurfacing, applied to the entire edge and full depth of the pavement cut. Immediately after compacting the new asphalt surface to conform to the adjacent paved surface, all joints between new and original pavement shall be filled with joint sealant meeting the requirements of Section 9-04.2.
3. Trenches for Schedule 40 PVC conduits to be located under existing sidewalks and driveways shall be installed to conform with the City of Federal Way Luminaire Electrical Trench Detail. Such trenches shall be backfilled with bedding material two inches (2") above and below the conduit, with the remaining depth of trench backfilled with native material. If the Engineer determines that the native material is unsuitable, Gravel Borrow shall be used. Sidewalks and driveways shall be removed and replaced as specified.
4. Trenches for Schedule 40 PVC conduits to be located within the right-of-way and outside the traveled way shall have a minimum of twenty-four inches (24") cover over conduits. Such trenches shall be backfilled with bedding material two inches (2") above and below the conduit, with the remaining depth of trench backfilled with bank run gravel unless the Engineer determines that spoils from the trench excavation are suitable for backfill.
5. When trenches are not to be placed under sidewalks or driveways, the backfill shall match the elevation of the surrounding ground, including a matching depth of top soil, mulch, and/or sod if necessary to restore the trench area to its prior condition.
6. Contractor shall use joint trench where possible.

Backfill shall be carefully placed so that the backfilling operation will not disturb the conduit in any way. The backfill shall be thoroughly mechanically tamped in eight-inch (8") layers with each layer compacted to ninety-five percent (95%) of maximum density in traveled ways, and ninety percent (90%) of maximum density elsewhere at optimum soil moisture content.

Bank run gravel for backfill shall conform to Section 2.01 of the Standard Specifications. Bedding material shall conform to Section 2.01 of the Standard Specifications.

All trenches shall be properly signed and/or barricaded to prevent injury to the public. All traffic control devices to be installed or maintained in accordance with Part VI of the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, and as specified elsewhere in these Specifications.

All conduits installed by boring shall use a surface launched steerable drilling tool. Drilling shall be accomplished using a high-pressure fluid jet toolhead. The drilling fluid shall be used to maintain the stability of the tunnel, reduce drag on the conduit, and provide backfill between the conduit and tunnel. A guidance system which measures the depth, lateral position, and roll shall be used to guide the toolhead when creating the pilot hole. Once the pilot hold is established, a reamer and swivel shall be used to install the conduit. Reaming diameter shall not exceed 1.5 times the diameter of the conduit being installed. Conduit which is being pulled into the tunnel shall be protected and supported so that it moves freely and is not damaged during installation. Excess drilling fluid and spoils shall be disposed of off-site at a legal disposal site obtained and paid for by the Contractor. Drilling fluid returns (caused by fracturing of formation) at locations other than the entry and exit points shall be minimized. Any drilling fluid that surfaces through fracturing shall be cleaned up immediately. Mobile spoils removal equipment capable of quickly removing spoils from entry or exit pits and areas with returns caused by fracturing shall be used as necessary during drilling operations.

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

Section 8-20.3(4) is supplemented with the following:

Foundations for the Pedestrian Push Button (PPB) Poles shall conform to the detail on the Plans.

Pole foundations within the sidewalk area shall be constructed in a single pour to the bottom of the cement concrete sidewalk. The sidewalk shall be constructed in a separate pour.

Pole foundations not within the sidewalk area shall incorporate a 3-foot by 3-foot by 4-inch thickness cement concrete pad set flush with the adjacent ground. Where the pad abuts a sidewalk, the pad shall extend to the sidewalk and the top of the pad shall be flush with the sidewalk. A construction joint shall be provided between the two units.

### **8-20.3(5) Conduit**

Section 8-20.3(5) is supplemented with the following:

*(March 16, 2011 \*\*\*\*\*)*

All conduits for signal cable, illumination circuits, and interconnect systems under roadways and driveways shall be rigid galvanized steel or Schedule 80 polyvinyl chloride (PVC). Schedule 40 PVC may be used when not under the roadway or driveways.

All conduits shall have a minimum buried depth of twenty-four inches (24"). PVC conduit ends shall have bell end PVC bushings.

All conduits for signal cable raceways under roadways or driveways shall be rigid galvanized steel or Schedule 80 polyvinyl chloride (PVC). Rigid steel or Schedule 80 PVC conduit shall be used for all road crossings whether they are signal, detector or illumination cable. Schedule 40 PVC conduits may be used for detector lead-ins or illumination. Whenever PVC conduit is used a ground wire shall be provided.

All conduit trenches shall be straight and as narrow in width as is practical to provide a minimum of pavement disturbance.

When conduit risers are installed, they shall be attached to the pole every 4 feet and shall be equipped with weather heads.

Conduit for the service wires between the Puget Sound Energy pole and the service panel and all above ground conduit shall be hot-dip galvanized rigid steel.

All conduits shall be clearly labeled at each junction box, handhole, vault or other utility appurtenance. Labeling shall be permanent and shall consist of the owner/type name and a unique conduit number or color. The owner name shall be approved by the Engineer prior to starting work. The recommended owner/type abbreviations are:

PSE – Puget Sound Energy  
QWEST – Qwest  
COMCAST(AT&T)/C – Cable  
COMCAST(AT&T)/F – Fiber  
SIC – City Signal Interconnect  
City Spare – City spares  
Cobra – COBRA luminaire system

Section 8-20.3(5) is supplemented with the following:

*(August 10, 2009 WSDOT NWR)*

#### **Conduit Seal, Detectable Tape and Location Wire**

Upon installation of wiring, all conduits entering pad mounted cabinets, all conduit entering ITS hubs, and all ITS conduit 2 inches in diameter or larger shall be sealed with an approved mechanical plug at both ends of the conduit run. Installation of mechanical plugs shall conform to the manufacturer's recommendations. Upon installation of wiring at other



locations, conduit shall be sealed with duct seal. Upon installation of the pull string, spare conduit shall be plugged.

A pull string rated for 200 lbs. or greater shall be installed in all spare conduits.

Detectable underground warning tape shall be placed 12-inches above all innerduct installed in trenches.

Location 14 AWG stranded orange USE insulated wire shall be placed in conjunction with all innerduct installed in trenches. The location wire shall be placed directly above the conduit containing innerduct in single conduit installations or between the conduits containing innerduct in multiple conduit installations.

Location wire routed into pull boxes or cable vaults shall be attached to the "C" channel or the cover hinge bracket with stainless steel bolts and straps. A 1-foot loop of locate wire shall be provided above the channel as shown in the Plans.

*(October 16, 2006 WSDOT NWR)*

### **Boring**

In addition to the requirements for boring with casing, the Contractor shall submit to the Engineer for approval a pit plan and a proposed method of boring that includes, but is not limited to, the following:

- 1) A pit plan depicting:
  - a) Protection of traffic and pedestrians.
  - b) The dimension of the pit.
  - c) Shoring, bracing, struts, walers or sheet piles.
  - d) Type of casing.
  
- 2) The proposed method of boring, including:
  - a) The boring system.
  - b) The support system.
  - c) The support system under and at the bottom of the pit.

The shoring and boring pit plan shall be prepared by and bear the seal and signature of a Washington State licensed Professional Civil Engineer.

Installed casing pipe shall be free from grease, dirt, rust, moisture and any other deleterious contaminants.

Commercial concrete meeting the requirements of Section 6-02.3(2)B may be used to seal the casing.

### **8-20.3(6) Junction Boxes, Cable Vaults, and Pull Boxes**

Section 8-20.3(6) is supplemented with the following:

*(March 13, 2012 \*\*\*\*\*)*

Unless otherwise noted in the Plans or approved by the Engineer, junction boxes, cable vaults and pull boxes shall not be placed within the traveled way or shoulders.

All junction boxes, cable vaults, and pull boxes placed within the traveled way or paved shoulders shall be heavy-duty.

Junction boxes shall not be located within the traveled way, wheelchair ramps, or driveways, or interfere with any other previous or relocated installation. The lid of the junction box shall be flush with the surrounding area and be adequately supported by abutting pavements or soils.

Junction boxes, cable vaults and pull boxes which are placed within the sidewalk shall have slip resistant lids which meet the requirements of Americans with Disabilities Act (ADA) and Public Right-of-Way Accessibility Guideline (PROWAG). Approved products are:

- 1.) Mebac1 (their most aggressive surface) manufactured by IKG Industries
- 2.) SlipNOT Grade 3-coarse manufactured by W.S. Molnar Company.

Approved slip resistant surfaces shall have coefficient of friction of no less than 0.6 and have a proven track record of outdoor application which lasts for at least 10 years.

Wiring shall not be pulled into any conduit until all associated junction boxes have been adjusted to, or installed in, their final grade and location, unless installation is necessary to maintain system operation. If wire is installed for this reason, sufficient slack shall be left to allow for future adjustment.

Adjustments involving raising or lowering the junction boxes shall require conduit modification if the resultant clearance between top of conduit and the junction box lid becomes less than 6 inches or more than 10 inches. Wiring shall be replaced for full length if sufficient slack as specified in Section 8-20.3(8) is not maintained. No splicing will be permitted.

Junction boxes Type 1 and 2 shall meet the requirements of WSDOT Standard Plan J-40.10-01. Type 8 junction boxes shall meet the requirements of WSDOT Standard Plan J-40.30-01. Junction boxes shall be inscribed based upon system per WSDOT Standard Plan J-40.30.01. Junction box lids and frames shall be grounded per Section 8-20.3(9).

Junction boxes shall be located at the station and offset indicated in the Plans except that field adjustments may be made at the time of construction by the Engineer to better fit existing field conditions.

Junction boxes for copper and/or fiber signal interconnect shall be placed at a maximum interval of 300 feet and shall be inscribed with "TS" as described on WSDOT Standard Plan J-40.30-01.

Heavy-duty Type 4, 5 and 6 junction boxes, cable vaults and pull boxes shall be installed in accordance with the following:

1. Excavation and backfill shall be in accordance with Section 2-09. Excavation for junction boxes, cable vaults and pull boxes shall be sufficient to leave one foot in the clear between their outer surface and the earth bank.

2. Junction boxes, cable vaults and pull boxes shall be installed on a level 6-inch layer of crushed surfacing top course, in accordance with 9-03.9(3), placed on a compacted or undisturbed foundation. The crushed surfacing shall be compacted in accordance with Section 2-09.3(1)E.
3. After installation, the lid/cover shall be kept bolted down during periods when work is not actively in progress at the junction box, cable vault or pull box.
4. Before closing the lid/cover, the lid/cover and the frame/ring shall be thoroughly brushed and cleaned of all debris. There shall be absolutely no visible dirt, sand or other foreign matter between the bearing surfaces.
5. When the lid/cover is closed for the final time, a liberal coating of anti37 seize compound shall be applied to the bolts and nuts and the lid shall be securely tightened.
6. Hinges on the Type 4, 5, and 6 junction boxes shall be located on the side of the box, which is nearest to adjacent shoulder. Hinges shall allow the lid to open 180 degrees.

### **8-20.3(8) Wiring**

Section 8-20.3(8) is modified as follows:

(March 6, 2012 \*\*\*\*\*)

The following is inserted between the 3<sup>rd</sup> and 4<sup>th</sup> paragraph of this section:

Loop wires will be spliced to lead in wires at the junction box with an approved mastik tape, 3-M 06147 or equal, leaving 3 feet of loose wire.

Connectors will be copper and sized for the wire. Mastik splice material will be centered on the wire and folded up around both sides and joined at the top. Splice will then be worked from the center outward to the ends. The ends will be visible and fully sealed around the wire. The end of the lead-in cables shall have the sheathing removed 8 inches and shall be dressed external to the splice.

(March 6, 2012 \*\*\*\*\*)

The 8th paragraph of this section is deleted and replaced with the following:

Fused quick disconnect kits shall be of the SEC type or equivalent. Underground illumination splices shall be epoxy or underground service buss/lighting connector kits. Installation shall conform to details in the Standard Plans.

Section 8-20.3(8) is supplemented with the following:

(March 6, 2012 \*\*\*\*\*)

Cable entering cabinets shall be neatly bundled and wrapped. Each wire shall bear the circuit number and be thoroughly tested before being connected to the appropriate terminal.

Circuit conductors shall be standard copper wire in all conduit runs with size specified in the Plans. Conductors from luminaire bases to the luminaire fixture shall be minimum No. 14 AWG pole and bracket cable.

Section 8-20.3(8) is supplemented with the following:

(March 13, 1995 WSDOT NWR)

**Wire Splices**

All splices shall be made in the presence of the Engineer.

**8-20.3(9) Bonding and Grounding**

Section 8-20.3(9) is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

At points where shields of shielded conductors are grounded, the shields shall be neatly wired and terminated on suitable grounding lugs.

Junction box lids and frames shall be grounded in accordance with Department of Labor and Industries standards, and shall be grounded so that the ground will not break when the lid is removed and laid on the ground next to the junction box.

All conduits which are not galvanized steel shall have bonding wires between junction boxes.

Ground rods shall be copper clad steel, ¾-inch in diameter by 10-feet long, connections shall be made with termite welds.

At points where wiring shields of shielded conductors are grounded, the shields shall be neatly wired and terminated on suitable grounding lugs.

Section 8-20.3(9) is supplemented with the following:

(August 21, 2006 WSDOT NWR)

**Junction Box Grounding**

Where shown in the Plans or where designated by the Engineer, the metal frame and lid of existing junction boxes shall be grounded to the existing equipment grounding system. The existing equipment grounding system shall be derived from the service serving the raceway system of which the existing junction box is a part.

**8-20.3(14)C Induction Loop Vehicle Detectors**

Section 8-20.3(14)C is modified as follows:

(December 18, 2009 \*\*\*\*\*)

Items 2 and the last two sentences of Item 4 are deleted.

(December 18, 2009 \*\*\*\*\*)

Item no. 5 of this section is deleted and replaced with the following:

5. Each loop shall have 3 turns of loop wire.

(December 18, 2009 \*\*\*\*\*)

Item no. 11 of this section is deleted and replaced with the following:

11. The detector loop sealant shall be a flexible traffic loop wire encapsulment. Encapsulment shall be designated to enable vehicular traffic to pass over the properly filled sawcut within five minutes after installation without cracking of material. The encapsulment shall form a surface skin allowing exposure to vehicular traffic within 30 minutes at 75 degrees F. and completely cure to a tough rubber-like consistency within two to seven days after installation. Properly installed and cured encapsulment shall exhibit resistance to defects of weather, vehicle abrasion, motor oil, gasoline, antifreeze solutions, brake fluid, deicing chemicals and salt normally encountered in such a manner that the performance of the vehicle detector loop wire is not adversely affected.

Section 8-20.3(14)C is supplemented with the following:

(January 31, 2012 \*\*\*\*\*)

One-quarter-inch (1/4") saw cuts shall be cleared of debris with compressed air before installing three turns of loop wire. All detector loops shall be 6-foot-diameter circle with diagonal mini-cut corners (no 90 degree corners) of not more than 1-inch on the diagonal. From the loops to the junction box, the loop wires shall be twisted two turns per foot and labeled at the junction box in accordance with the loop schematics included in these Plans. A 3/8-inch saw cut will be required for the twisted pair. No saw cut will be within 3 feet of any manhole or utility risers located in the street. Loops and lead-ins will not be installed in broken or fractured pavement. Where such pavement exists it will be replaced in kind with minimum 12-foot sections. Loops will also not be sawed across transverse joints in the road. Loops to be placed in concrete will be located in full panels, a minimum 18 inches from any expansion joint.

### **Existing Traffic Loops**

The Contractor shall notify the City of Federal Way Traffic Engineer a minimum of five working days in advance of pavement removal in the loop areas.

If the Engineer suspects that damage to any loop, not identified in the Plans as being replaced, may have resulted from Contractor's operations, the Engineer may order the Contractor to perform the field tests specified in Section 8 20.3(14)D. The test results shall be recorded and submitted to the Engineer. Loops that fail any of these tests shall be replaced.

Loops that fail the tests, as described above, and are replaced shall be installed in accordance with current City of Federal Way design standards and Standard Plans, as determined by the Engineer.

If traffic signal loops that fail the tests, as described above, are not replaced and operational within 48 hours, the Contractor shall install and maintain interim video detection until the replacement loops are operational. The type of interim video detection furnished shall be approved by the Engineer prior to installation.

### **8-20.3(14)D Test for Induction Loops and Lead-in Cable**

Section 8-20.3(14)D is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

Test A - The resistance shall not exceed values calculated using the given formula.

Resistance per 1000 ft of 14 AWG,  $R = 3.26 \text{ ohms} / 1000 \text{ ft}$

$$R = \frac{3.26 \times \text{distance of lead-in cable (ft)}}{1000 \text{ ft}}$$

Test B and Test C in this section are deleted and replaced with the following:

Megger readings of the detection wire to ground shall read 200 megohms at the amplifier connection. The 200 megohms or more shall be maintained after the splices are tested by submerging them in detergent water for at least 24 hours. The tests will be conducted with County personnel at the request of the Contractor. All costs incurred to meet this minimum standard will be the responsibility of the Contractor.

Section 8-20.3(14)D is supplemented with the following:

(October 5, 2009 WSDOT NWR)

#### **Existing Lead-in Cable Test**

When new Induction loops are scheduled to be installed and spliced to an existing two-conductor shielded detector lead-in cable, the Contractor shall perform the following:

1. Disconnect the existing detector lead-in cable in the controller cabinet and at the loop splice.
2. Megger test both detector lead-in cable conductors. A resistance reading of less than 100-megohms is considered a failure.
3. Detector lead-in cables that fail the test shall be replaced and then retested.
4. After final testing of the detector lead-in cable, the loop installation shall be completed and the loop system tested according to Tests A, C and D.
5. Connect the detector lead-in cables in the controller cabinet.

(October 5, 2009 WSDOT NWR)

#### **Existing Loop Test**

When two-conductor shielded detector lead-in cable is scheduled to be installed and spliced to an existing loop, the Contractor shall perform the following:

1. Disconnect the existing loop from the detector lead-in splice.
2. Megger test the existing loop wire. A resistance reading of less than 100-megohms is considered a failure.
3. Loops that fail the test shall be replaced and then retested.
4. After the final testing of the loops, the detector lead-in cable installation shall be completed and the loop system tested according to Tests A, C and D.

## **8-20.3(18) PEDESTRIAN PUSH BUTTONS**

### **8-20.3(18) A Materials**

Section 8-20.3(18)A is supplemented with the following:

The Pedestrian Push Button (PPB) system shall consist of the following components:

1. Foundation, including excavation, haul, and forms
2. Pole assembly and hardware
3. Push button assembly
4. Wiring and enclosures

### **8-20.3(18) B Construction Requirements**

Section 8-20.3(18)A is supplemented with the following:

The Contractor shall provide and install accessible pedestrian push buttons as shown on the plans. The position of the pedestrian push buttons shall be aligned parallel to the direction of travel for the crosswalk which the push button is intended to serve; however, final positioning for the optimum effectiveness shall be approved by the Engineer.

Push buttons shall be mounted to the poles by means of stainless steel bolts. All mountings shall be securely fastened as approved by the Engineer. Installation shall be per WSDOT Standard Plan J-20.26-01, J-20.15-03, and J-21.10-04.

The sign legend to be used shall be sign designation R62e as shown in the Standard Details and shall be nine (9) inches by fifteen (15) inches. All mounting bolts shall be non-corrosive stainless steel.

The pedestrian pushbutton housing shall be aluminum and shall be painted black. Unit(s) shall operate at a temperature range of -35C to 85C. Power requirements shall be 120 VAC, 60 Hz (100 ma, typical +/- 20%).

### **8-20.4 Measurement**

Section 8-20.4 is supplemented with the following:

- Pedestrian Push Button will be measured per each.
- Detector Loops will be measured per each.

### **8-20.5 Payment**

Section 8-20.5 is supplemented with the following:

- "Pedestrian Push Button", per each.
- "Detector Loop", per each.

The contract bid price for the above, including all incidental work, and shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work.

The unit contract price per each for "Pedestrian Push Button" shall be full compensation for full and complete installation including foundation, construction and restoration, acquisition and installation of pole, base and hardware, push-button, controller, wiring, battery, and signs on both sides such that the installed unit is fully operational per this specifications.

The unit contract price for "Detector Loop" shall be full compensation for full and complete installation including wire, sealant and all other labor, materials, tools and equipment required to complete the installation in accordance with the Plans, specifications, and Standard Plans. The unit price shall also include providing and installing loop home runs, conduit stub-outs, and soldered splices. Sawcutting shall be considered incidental to the loop installation. Payment shall not be made for this item until the loop is fully functional as determined by the Engineer.

## **8-21 PERMANENT SIGNING**

### **8-21.1 Description**

Section 8-21.1 is deleted and replaced with the following:

*(December 1, 2017 \*\*\*\*\*)*

This work shall consist of furnishing and installing permanent R9-3A and R9-3B L "No Crossing Use Crosswalk" signing in accordance with the Plans, Specifications, MUTCD, and the City of Federal Way Standard Details at the locations shown in the Plans or where designated by the Engineer.

### **8-21.2 Materials**

Section 8-21.2 is revised as follows:

Sentence three is deleted and replaced with the following:

*(April 28, 2015 \*\*\*\*\*)*

Materials for sign mounting shall conform to Section 9-28-11.

### **8-21.3 Construction Requirements**

#### **8-21.3(1) Location of Signs**

Section 8-21.3(1) is replaced with the following:

Signs are located in the plans by reference to a general stationary monument and shown an estimated distance for installation and placement. No survey stations are provided, but dimensions are shown. These are tentative locations, subject to change by the Engineer, and shall be field verified by the inspector prior to installations. Timber posts and break away pole lengths shall be per the plan details. Sign heights shall be per the plan details.



#### **8-21.4 Measurement**

Section 8-21.4 is supplemented by the following:

Measurement for R9-3A and R9-3B L Sign and Post shall be as follows:

All signage to include R9-3A and R9-3B L Sign and Post shall be measured per each meeting all the requirements of these special provisions. Measurement will be for the sum total of all items including labor, materials, tools, and equipment necessary to furnish and install the complete assembly per the Plans and Details.

Sign Removal and or Relocations shall be measured per each. Measurement will be for the sum total of all items including labor, materials, tools and equipment necessary to remove existing signs, posts and any bases and re-use, return to the owner signage, and dispose of posts and any bases as noted in the Plans.

#### **8-21.5 Payment**

Section 8-21.5 is supplemented with the following:

Payment will also be made under the following:

"R9-3A & R9-3B L Sign and Post", per each.

The unit contract price per each for "R9-3A & R9-3B L Sign and Post" will be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to furnishing, installing and/or removing all types of signs as shown in the Plans and returning to the Owner.

### **SECTION 8-22, PAVEMENT MARKING**

#### **8-22.1 Description**

Section 8-22.1 is supplemented with the following:

(December 18, 2009 \*\*\*\*\*)

This work shall consist of furnishing and placing pavement markings upon the roadway surface for delineation at the locations shown in the Plans in accordance with WSDOT Standard Plan M-20.20-01, or as directed by the Engineer. All permanent pavement markings must be placed no later than seven (7) calendar days after the final lift of paving is completed, except 90-mil methyl methacrylate materials, which must be placed not later than twenty-one (21) calendar days after the final lift of paving is completed.

#### **8-22.2 Materials**

Section 8-22.2 Sentence #3 is deleted and replaced with the following:

(October 23, 2014 \*\*\*\*\*)

Glass beads for Type A plastic shall be as recommended by the manufacturer.

Section 8-22.2 is supplemented with the following:

(October 23, 2014 \*\*\*\*\*)

Glass beads for Type D plastic and Bonded Core Elements shall be as shown in Section 9-34.4.

## **8-22.3 Construction Requirements**

### **8-22.3(3)E Installation**

Section 8-22.3(3)G is supplemented with the following:

Profiled Methyl Methacrylate lines shall be installed per WSDOT Standard Plans M20.20-01.

### **8-22.3(3)G Glass Beads**

Section 8-22.3(3)G is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

#### **Methyl Methacrylate Pavement Markings**

Glass beads shall be applied at a rate of eight (8) to ten (10) pounds per one hundred square feet.

Bonded core elements shall be applied at a rate of ten (10) grams per four (4) inch wide by one (1) linear foot of marking.

### **8-22.3(6) Removal of Pavement Markings**

Section 8-22.3(6) is supplemented with the following:

(\*\*\*\*\*)

All pavement markings, including, but not limited to: paint, lane markers, traffic buttons, plastic markings, and adhesive residue shall be removed prior to overlay. This work shall be incidental to other bid items of the contract, and no separate payment will be made.

## **8-22.5 Payment**

Section 8-22.5 is deleted and replaced with the following:

(December 13, 2012 \*\*\*\*\*)

Payment will be made in accordance with Section 1-04.1 for each of the following Bid Items:

- "Paint Line", per linear foot.
- "Painted Bike Symbol", per each.
- "Painted Bike Lane Arrow", per each.
- "Profiled Plastic Line", per linear foot.
- "Plastic Edge Line", per linear foot.
- "Profiled Plastic Wide Line", per linear foot.
- "Profiled Plastic Dotted Wide Line", per linear foot.
- "Plastic Crosswalk Line", per linear foot.
- "Plastic Stop Line", per linear foot.
- "Plastic Traffic Arrow", per each.
- "Plastic Shared Lane Marking", per each.

The unit contract price for the above, including all incidental work, and shall be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to removing all types of markings and disposing of offsite.

The unit contract price for the above shall include removal and disposal of existing pavement marking materials.

## **8-23 TEMPORARY PAVEMENT MARKINGS**

Section 8-23 is supplemented with the following:

All costs in connection with the use of reflective traffic tape as temporary pavement markings shall be incidental to other bid items. All costs for paint lines and reflective pavement markers used for temporary traffic control shall be paid under other bid items.

### **Temporary Pavement Markings**

Temporary pavement markings shall be installed and maintained by the Contractor whenever permanent pavement markings are included in the Contract and traffic is released onto public streets or roadways prior to installation of permanent pavement markings. The Contractor shall perform preliminary layout work to the satisfaction of the Engineer prior to installation of the temporary pavement markings. The temporary pavement markings shall be installed and maintained to the satisfaction of the Engineer until the permanent pavement markings are installed and approved in writing by the Engineer. After approval of permanent lane markings, the Contractor shall remove the temporary lane markings to the satisfaction of the Engineer.

Appropriately colored 4-inch-wide reflective traffic tape shall be installed with a skip pattern based on a 10-foot unit consisting of a 1 foot line of tape and a 9-foot gap, unless otherwise specified in the Plans or in the Special Provisions for this Contract. Reflective traffic tape markings shall generally follow the alignment for the permanent pavement markings and double lines shall be used when specified for the permanent pavement markings. Reflective tape shall not be used when the temporary pavement markings are to be exposed to traffic for more than 2 weeks without the written approval of the Engineer.

The Contractor shall provide paint lines per Sections 8-22 and 9-34, and RPMs per Sections 8-09 and 9-21, at the direction of the Engineer for temporary pavement markings for construction staging. Paint lines shall be provided for temporary pavement markings for any conditions not applicable for reflective tape. Paint lines and RPMs for temporary pavement markings shall be paid under "Paint Line" and "Raised Pavement Marker Type 2".

Temporary pavement marking shall be per Section 5-04.3(17) of these Special Provisions.

## **8-30 CONSTRUCTION IDENTIFICATION SIGNS**

(\*\*\*\*\*)

Two (2) working days prior to the commencement of work, the Contractor shall furnish and erect two (2) Construction Identification Signs. The signs will be portable and placed at locations determined by the Engineer, to correspond to the areas in which the majority of work is being done, at that time. The signs shall be made from 3/4-inch exterior grade plywood and conform to the Standard Plans in Appendix A. The signs shall be erected on suitable wooden posts and be maintained by the Contractor in a neat and presentable condition throughout the progress of the work. At project completion these signs shall be given to the Owner.

### **8-30.2 Payment**

All costs in connection with the furnishing, erection, maintaining, and removal of the signs shall be considered incidental to and included in the cost for the project and no separate payment shall be made for this item.

END OF DIVISION 8

## **DIVISION 9 MATERIALS**

### **9-03 AGGREGATES**

#### **9-03.8(3)B Gradation-Recycled Asphalt Pavement and Mineral Aggregate**

Delete the reference to Section 9-03.8(6) in the paragraph of Section 9-03.8(3)B.

#### **9-03.8(6) HMA Proportion of Materials**

Add the following paragraph:

For the determination of a Project Mix Design, the Contractor shall submit to the Engineer's representative samples of the various aggregates to be used along with the gradation data showing stockpile averages and variation of the aggregate produced along with proposed combining ratios and average gradation of the completed mix. The initial asphalt content shall be determined by the Engineer from the aggregates and data provided.

### **SECTION 9-28, SIGNING MATERIALS AND FABRICATION**

#### **9-28.1 General**

Section 9-21.2(1) is modified as follows:

Paragraph three is deleted and replaced with the following:

(January 8, 2013 \*\*\*\*\*)

All regulatory (R series), school (S series), and warning (W and X series) signs, except for parking regulation, parking prohibition signing and signs of fluorescent yellow color shall be constructed with Type III Glass Bead Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard Specifications. This sheeting has a retro reflection rating of 250 candelas/foot candle/square foot for white-silver sheeting with a divergence angle of 0.2 degrees and an incidence angle of minus 4 degrees. This high intensity sheeting shall be Type III sheeting or greater. All street name (D-3) sign sheeting shall meet this specification. The reflectivity standard of supplemental plaques shall match that of the primary sign.

All overhead signing, all regulatory (R series) of fluorescent yellow color and all school (S series) of florescent yellow color shall meet the specifications of Type IX Micro Prismatic Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard Specifications. This standard applies to all signs mounted above the roadway, on span wire or signal mast arms and all regulatory (R series) and school (S series) signs of fluorescent yellow color. The reflectivity standard of supplemental plaques shall match that of the primary sign.

Motorist information and parking signing shall be constructed with Type I Glass Bead Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard

Specifications. The reflectivity standard of supplemental plaques shall match that of the primary sign.

**9-28.2 Manufacturer’s Identification and Date**

Section 9-28.2 is deleted and replaced with the following:

(October 23, 2014 \*\*\*\*\*)

All signs shall show the manufacturer’s name and date of manufacture on the back.

**9-28.8 Sheet Aluminum Signs**

Section 9-28.8 table is deleted and replaced with the following:

(January 8, 2013 \*\*\*\*\*)

<u>Maximum Dimension</u>	<u>Blank Thickness</u>
Less than 30 inches	0.080 inches
Greater than 30 inches, less than 48 inches	0.100 inches
Greater than 48 inches	0.125 inches

Section 9-28.8 is supplemented with the following:

(January 8, 2013 \*\*\*\*\*)

All permanent signs shall be constructed from aluminum sign blanks unless otherwise approved by the Engineer. Sign-blank minimum thicknesses, based on maximum dimensions, shall be as follows:

All D-3 street-name signs shall be constructed with 0.100-inch-thick blanks. The Contractor shall install permanent signs which meet or exceed the minimum reflectivity standards. All sign face sheeting shall be applied to sign blanks with pressure sensitive adhesives.

**9-28.9 Fiberglass Reinforced Plastic Signs**

Section 9-28.9 is deleted in its entirety.

(December 18, 2009 \*\*\*\*\*)

**9-28.14 Sign Support Structures**

Section 9-28.14 is supplemented with the following:

(December 18, 2009 \*\*\*\*\*)

Unless otherwise noted on the plans or approved by the engineer, all sign posts shall be timber sign posts.

**9-28.14(1) Timber Sign Posts**

Section 9-28.14(1) is supplemented with the following:

(December 18, 2009 \*\*\*\*\*)

All ground-mounted sign posts shall use pressure treated hem-fir wood posts unless approved otherwise by the Engineer. All wood posts shall be buried a minimum of 30 inches below the finished ground line. Post backfill shall be compacted at several levels to minimize settling. All posts shall be two-way plumb.

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

Section 9-28.14(2) is supplemented with the following:

(December 18, 2009 \*\*\*\*\*)

Unless otherwise noted on the plans or approved by the engineer, all sign posts shall be timber sign posts.

**Approved Manufacturers for Steel Sign Supports**

The Standard Plans lists several steel sign support types. These supports are patented devices and many are sole-source. All of the sign support types listed below are acceptable when shown in the plans.

<u>Steel Sign Support Type</u>	<u>Manufacturer</u>
Type TP-A & TP-B	Transpo Industries, Inc.
Type PL, PL-T & PL-U	Northwest Pipe Co.
Type AS	Transpo Industries, Inc.
Type AP	Transpo Industries, Inc.
Type ST 1, ST 2, ST 3, & ST 4	Ultimate Highway Products, Allied Tube & Conduit, Inc., Northwest Pipe, Inc.
Type SB-1, SB-2, & SB-3	Ultimate Highway Products, Xcessories Squared Development and Manufacturing Incorporated,, Northwest Pipe, Inc.

**SECTION 9-29, ILLUMINATION, SIGNAL, ELECTRICAL**

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

Section 9-29.1 is supplemented with the following:

(June 5, 2000 WSDOT NWR)

**Conduit Coatings**

Conduit fittings for steel conduit shall be coated with galvanizing repair paint in the same manner as conduit couplings. Electroplated fittings are not allowed.

Steel conduit entering concrete shall be wrapped in 2-inch-wide pipe wrap tape with a minimum 1-inch overlap for 12 inches on each side of the concrete face. Pipe wrap tape shall be installed per the manufacturer’s recommendations.

(October 23, 2014 \*\*\*\*\*)

Fiber optic cable conduit shall be supplied as a system from a single manufacturer providing all of the conduit, all required fittings, termination and other installation accessories; all in accordance with the Contract Documents.

### **9-29.1(1) Rigid Metal Conduit, Galvanized Steel Outerduct, and Fittings**

Section 9-29.1(1) is supplemented with the following:

(August 10, 2009 WSDOT NWR)

#### **Conduit Sealing**

Mechanical plugs for cabinet conduit sealing shall be one of the following:

1. Tyco Electronics - TDUX
2. Jackmoon – Triplex Duct Plugs
3. O-Z Gedney – Conduit Sealing Bushings

The mechanical plug shall withstand a minimum of 5 psi of pressure.

### **9-29.1(2) Rigid Metal Conduit Fittings and Appurtenances**

Section 9-29.1(2) is supplemented with the following:

(August 10, 2009 WSDOT NWR)

#### **Conduit Coatings**

Electroplated couplings are not allowed.

(March 4, 2009 WSDOT NWR))

#### **Surface Mounting Conduit Attachment Components**

Channel supports and all fastening hardware components shall be Type 304 stainless steel.

(March 15, 2012 \*\*\*\*\*)

### **9-29.2(5) Fiber Vaults**

#### **New Section**

Where fiber vaults are called for on the Drawings, the Contractor shall provide pre-cast utility vaults meeting ASTM C 478 with twenty-eight (28) day 5500 psi minimum compressive strength concrete and designed for H-20 loading unless otherwise indicated on the Drawings.

The fiber vaults are to be provided with a racking hardware package for cable storage and mounting of the splice case. The vault cover shall have a bolt-down, non-skid surface and a ground strap.

Fiber vaults shall contain a splice enclosure.

Fiber Optic Splice Closure shall be a Coyote Closure manufactured by Preformed Line Products or equivalent, shall be suitable for both vault and aerial applications, and shall meet the following requirements:

1. Be made of two injection-molded high-density thermoplastic shells, be 22 inches in length and 6 inches in diameter, and have capacity to store up to four splice trays.



2. Each splice case shall have two end plates; one end plate shall have no ports, the other endplate shall consist of a three section end plate with six ports - two 3/4-inch ports and four 7/8-inch ports. Each unused port shall have a grommet installed. The end plates shall be durable glass-filled high-density thermoplastic shells.
3. The splice enclosure shall be suitable for outdoor applications with a temperature range of -10°C to 60°C.
4. The splice enclosure shall provide sufficient space to allow entry of fiber optic cable without exceeding the cable minimum bending radius.
5. The enclosure shall protect the splices from moisture and mechanical damage and shall be resistant to corrosion.
6. The enclosure shall be waterproof, re-enterable and shall have a neoprene gasket sealing system to prevent water from entering.
7. The enclosure shall permit selective splicing to allow one or more fibers to be cut and spliced without disrupting other fibers.
8. The enclosure shall have strain relief for the cable to prevent accidental tension from disturbing the splices.
9. Each splice tray will be able to store 36 splices securely. Each splice shall be individually mounted and mechanically protected on the splice tray. Vinyl markers shall be supplied to identify each fiber spliced within the enclosure.

### **9-29.3 Fiber Optic Cable, Electrical Conductors and Cable**

Section 9-29.3 is supplemented with the following:

(December 13, 2012 \*\*\*\*\*)

Video cable from the camera (sensor) to the controller cabinet shall conform to the video detection manufactures recommendations.

### **9-29.3(2)F Detector Loop Wire**

Section 9-29.3(2)F is deleted and replaced with the following:

(October 5, 2009 WSDOT NWR)

#### **Detector Loop Wire**

Detector loop wire shall use 14 AWG stranded copper conductors, and shall conform to IMSA Specification 51-7, with cross-linked polyethylene (XLPE) insulation encased in a polyethylene outer jacket (PE tube).

### **9-29.3(2)H Three-Conductor Shielded Cable**

Section 9-29.3(2)H is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

Lead-in cable back to the controller for pre-emption units shall be 6TT detector 138 cable or equivalent.

(October 23, 2014 \*\*\*\*\*)

**9-29.3(2)I Twisted Pair Communications Cable**

Section 9-29.3(2)I is deleted in its entirety. See Section 8-20.3(8)A.

(May 31, 2012 \*\*\*\*\*)

**Pole Foundations:** Shall be as indicated on the plans.

**Sign Poles, Bases, and Caps:**

Sign poles shall be 4" – 8 NPT Schedule 40, galvanized steel meeting the following minimum requirements:

Standard 4" Sch 40 .....	ASTM A53 Grade B ERW
Tensile Strength, KSI .....	60
Yield Strength, KSI .....	35
Weight Per Foot .....	10.79 lb.
Standard Wall Thickness .....	0.237"
Outside Diameter .....	4.5"

Threading and deburring of the Pedestal Pole shall be in accordance with the basic dimensions of American National Standard Taper Pipe Threads, NPT (ANSI B1.2).

The pole shall be pre-galvanized or galvanized after fabrication meeting the requirements below:

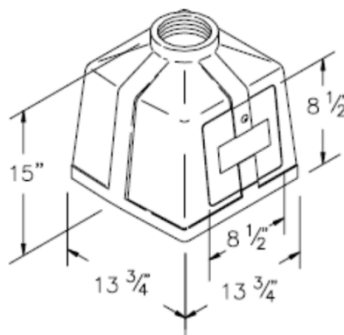
1. Pre-Galvanized: Pipe shall have clean square saw cuts and free of burrs. After threading threads shall be sprayed with a rust-protective zinc-rich coating. Galvanizing shall be a minimum of 1.6 oz./ft.<sup>2</sup>.
2. Galvanized After Fabrication: Pipe shall have clean square saw cuts and free of burrs. Pole shall be hot dipped galvanized to comply with ASTM A-123 with a minimum of 1.6 oz./ft.<sup>2</sup> after fabrication. Threads shall be heated and brushed to remove excess zinc.
3. MILL CERTIFICATION: Mill test reports to be maintained and supplied on request.

PACKAGING: Threaded end shall have protective cap to prevent thread damage. Cardboard sleeve shall cover the entire length of shaft to protect surface finish during storage and shipment.

Pole caps shall be Dome Type, aluminum, fitting a 4 1/2-inch OD pole, with a stainless steel set screw, sq hd, 1/4"-20 X 1/2".

The pole base shall be square aluminum pedestal base with aluminum door meeting the following minimum requirements:

1. Square cast aluminum with natural finish, minimum weight of 21 lbs. with dimensions as shown in the Figure below.



2. Upper end shall be threaded to receive a 4" NPT pipe shaft. Base threads shall be tapped to allow full pole engagement w/o exposed threads on the pole.
3. Shall be of such design that it may be fastened to a foundation with four (4) 3/4" anchor bolts located 90 degrees apart on the bottom of the base.
4. There shall be slots in the bottom of the base 1½" wide and 2½" long measured along the circumference of the bolt circle, allowing a proper fit even if the bolts are placed slightly off center.
5. Shall accommodate bolt circles of a minimum of 12" through a maximum of 14½" and anchor bolts with a minimum of 5/8" through 1" diameter.
6. Shall be equipped with a removable aluminum door. Door opening shall be free of burrs and sharp edges and be no less than 8½" square. The door shall be attached to the base using one stainless steel socket button head screw to prevent unauthorized entry.
7. Shall be fabricated free of voids, pits, dents, molding sand and excessive foundry grinding marks. All design radii shall be smooth and intact. Exterior surface finish shall be smooth and cosmetically acceptable by being free of molding fins, cracks and other exterior blemishes.
8. Shall be fabricated from new aluminum ingot. No scrap materials shall be used. Minimum requirements as follows:
  - a. Aluminum Alloy .....319 Elongation (% in 2") .....2
  - b. Tensile Strength, KSI.....27 Brinell Hardness.....70-100
  - c. Yield Strength,KSI .....18

FRANGIBILITY: The base shall meet or exceed 1985 AASHTO breakaway requirements. Test reports from an FHWA approved independent laboratory shall be provided certifying that the base has been tested and meets all applicable requirements. In addition, a statement of certification from the FHWA stating such tests have been accepted and approved shall be supplied.

STRUCTURAL INTEGRITY: In order to prove structural soundness a certification from a recognized independent structural laboratory shall be provided certifying that the base will withstand a bending moment of 10,750 ft. lbs. Such test shall be performed in the following manner:

1. A force shall be applied at a distance from the bottom of the base in order to produce a moment. All bases must reach a moment capacity of 10,750 ft. lbs. without breaking, cracking or rupturing in any manner.
2. After force has been removed, the lever arm shall return to within .250" of its original rest position.
3. All tests shall be made using 4" schedule 40 Steel Pipe.

A reinforcing collar shall be installed at the top of the pole base in accordance with manufacturers' instructions. The collar shall be a three segment assembly designed to retrofit onto an existing square cast aluminum or iron pedestal base. The collar shall meet the following minimum requirements:

MATERIAL: Reinforcing collar shall be three-piece cast aluminum with the minimum requirements:

Aluminum Alloy .....	713
Tensile Strength, KSI .....	32
Yield Strength, KSI.....	22
Elongation (% in 2") .....	3
Brinell Hardness.....	70
Minimum Wall Thickness .....	5/8"
Minimum Overall Height.....	4-3/8"

INSTALLATION: The collar shall be clamped around the top of a pedestal base by the use of two (2) 5/16" Socket Head Bolts per segment (Figure 1). Each segment shall have a 5/16" pilot hole for drilling through base. A 5/16" x 3/4" Roll Pin shall be driven through the collar into the base until flush to prevent the collar from walking up the base.

HARDWARE: (6) 5/16"-18 x 1½" Socket Head Capscrews (3) 5/16" Dia. x 3/4" Roll Pins

FINISH: Collar Segment: Alodine 1200

FASTENERS: Zinc w/ Yellow Di-Chromate

In addition to meeting the above requirements, all poles, bases, collars, caps and related hardware shall be fully interchangeable with the following items manufactured by Pelco Products, Inc., Edmond, Oklahoma, such that any individual component can be replaced without requiring replacement of the entire system:

- Pedestal pole, Model No PB-5200
- Square Base Assembly, Model No PB-5334
- Pole Cap, Model No PB-5402
- Pole & Base Collar Assembly, Model No PB-5325

## **SECTION 9-34, PAVEMENT MARKING MATERIAL**

### **9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate**

Section 9-34.3(4) is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

The methyl methacrylate (MMA) material shall be formulated as a long-life durable pavement marking system capable of providing a minimum of two years of continuous performance. The material shall be a catalyzed methyl methacrylate (MMA), wet-continuous reflective product and placed shall have a dry time (cure) to the touch of no more than 30 minutes. The material shall be capable of retaining reflective glass beads and ceramic micro-crystalline elements of the drop-on or spray-on type as specified by the manufacturer. The binder shall be lead free and suitable for bituminous and concrete pavements.

### 9-34.4 Glass Beads for Pavement Marking Materials

Section 9-34.4 is supplemented with the following:

(March 13, 2012 \*\*\*\*\*)

#### **Methyl Methacrylate Pavement Markings Optics**

##### **Glass Beads**

Surface-drop glass beads shall be the "Utah Blend" with a Methacrylate compatible coupling agent approved by the material manufacturer.

Glass beads shall be applied at a rate of eight (8) to ten (10) pounds per one hundred square feet.

##### **Bonded Core Elements**

Surface-drop ceramic elements shall be the Series 50M or 70M with a Methacrylate compatible coupling agent approved by the material manufacturer. Elements shall meet or exceed a minimum initial value of 150 mcd for white and 125 mcd for yellow per ASTM 2176.

The bonded core reflective elements shall contain either clear or yellow tinted microcrystalline ceramic beads bonded to the pacified core. These elements shall not be manufactured using lead, chromate or arsenic. All "dry-performing" microcrystalline ceramic beads bonded to the core shall have a minimum index of refraction of 1.8 when tested using the liquid oil immersion method. All "wet performing" microcrystalline ceramic beads bonded to the core shall have a minimum index of refraction of 2.30 when tested using the liquid oil immersion method.

There are two gradations for the bonded core elements, standard size and "S" series. "S" series is a slightly finer gradation of elements compared to standard.

Element Gradations			
Mass Percent Passing (ASTM D1214)			
US Mesh	Micron	Standard Elements	"S" Series
12	1700	80-100	85-100
14	1410	45-80	70-96
16	1180	5-40	50-90
18	1000	0-20	5-60
20	850	0-7	0-25
30	600		0-7

A sample of bonded core reflective elements supplied by the manufacturer shall show resistance to corrosion of their surface after exposure to a 1% solution (by weight) of sulfuric acid. The 1% acid solution shall be made by adding 5.7 cc of concentrated acid into 1000cc of distilled water. CAUTION: Always add the concentrated acid into the water, not the reverse.

The bonded core elements are surface treated to optimize embedment and adhesion to the MMA binder. Elements treated for use with MMA shall have identification on packaging or label to indicate use with the MMA binder.

Bonded core elements shall be applied at a rate of ten (10) grams per four (4) inch wide by one (1) linear foot of marking.

**Reflectance**

Typical initial retro reflectance values are shown in the Table below. Typical retro reflectivity is averaged over many readings. Minimum Retro reflectivity results represent average performance for smooth pavement surfaces. Values represent both standard and "S" Series elements. Results may vary due to differences in pavement type and surface roughness. Increased element drop rate may be necessary to compensate for increased surface area characteristic of rough pavement surfaces. The initial retro reflectance of a single installation shall be the average value determined by the measurement procedures outlined in ASTM E 1710, using a 30-meter (98.4 feet) retro-reflectometer. RL shall be expressed in units of millicandelas per square foot per foot-candle [mcd(ft-2)(fc-1)].

The optics incorporated into the pavement marking system shall be tested and certified by an independent laboratory to meet ASTM E2177 for wet-recovery and ASTM E2176 for wet-continuous performance levels.

The pavement marking system installed shall meet a minimum Dry reflectance value of 700 MCD/M2/LX for white pavement markings and 500 MCD/M2/LX for yellow pavement markings and wet-recovery (as described by ASTM 2177) reflectance value of 375 MCD/M2/LX for white pavement markings and 280 MCD/M2/LX for yellow pavement markings, and wet-continuous (as described by ASTM 2176 testing) reflectance values of 150 MCD/M2/LX for white pavement markings and 125 MCD/M2/LX for yellow pavement markings as measured with a 30 meter device approved by the Traffic Engineering Division (TED).

The Contractor will be required to take and record readings every 500 feet utilizing a 30 meter device approved by the Traffic Engineering Division. These readings shall be recorded on the daily report and submitted to the project engineer at the end of each work day or shift.

Minimum Initial Retro Reflectance Values		
	White	Yellow
Dry (ASTM E1710)	700	500
Wet recovery (ASTM E2177)	375	280
Wet continuous (ASTM E2176)	150	125

END OF DIVISION 9

---

**APPENDIX A**  
**STANDARD PLANS AND DETAILS**

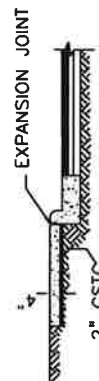
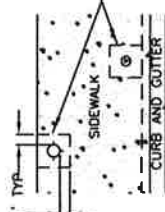
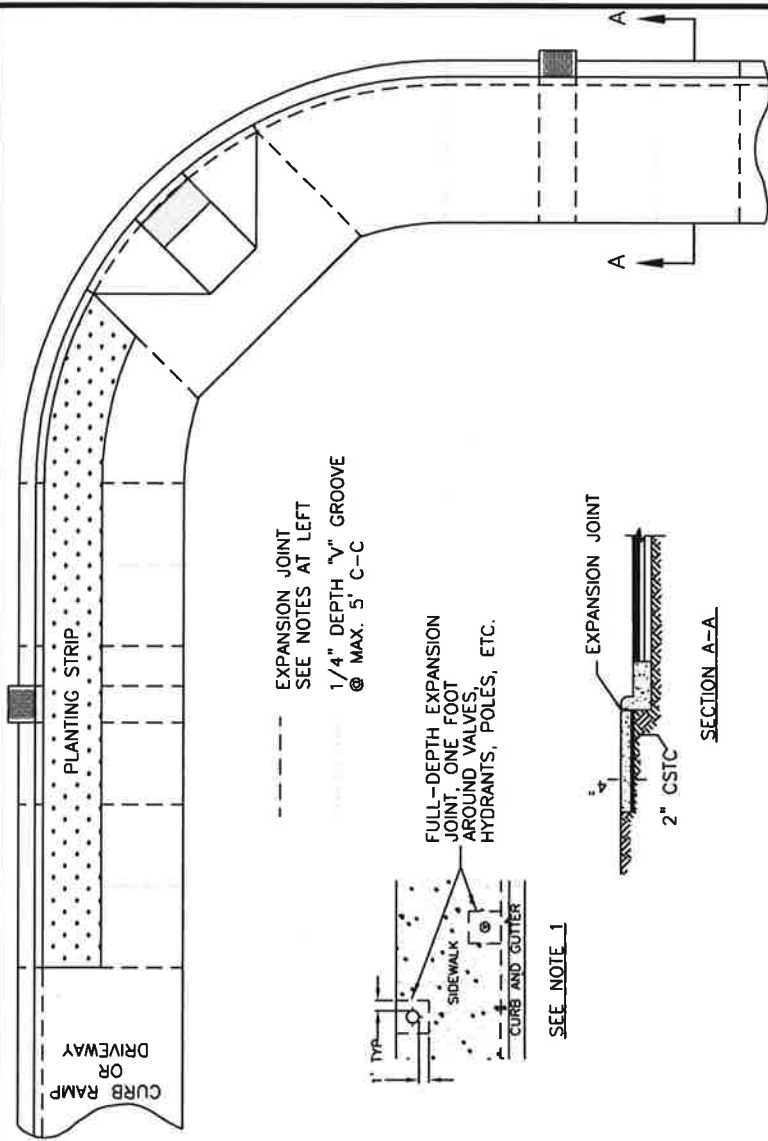
---



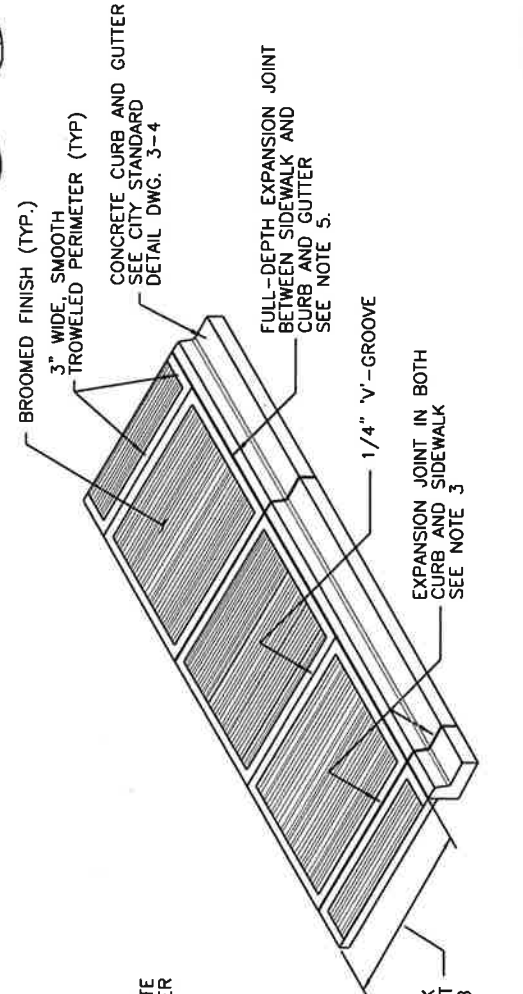
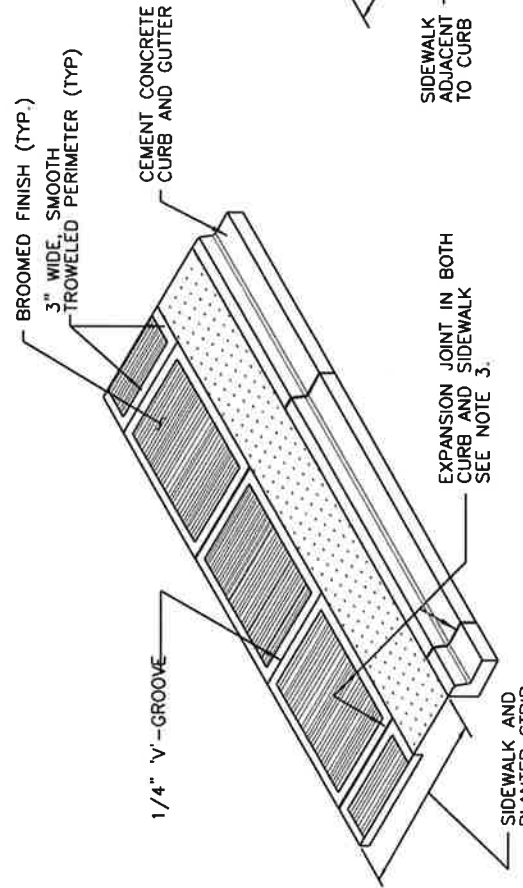


NOTES:

1. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL DEPTH AROUND HYDRANTS, POLES, POSTS, AND UTILITY CASTINGS. SEE DETAIL AT RIGHT.
2. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED IN THE UPPER 2 INCHES OF CURBS AND SIDEWALKS AT 10 FOOT INTERVALS AND AT SIDES OF DRAINAGE INLETS. (JOINT MATERIAL OF 2 1/2" DEPTH MAY BE USED IN LIEU OF 2" DEPTH).
3. EXPANSION JOINTS IN SIDEWALK SHALL BE LOCATED SO AS TO MATCH THE JOINTS IN THE CURB AND GUTTER, WHETHER THE SIDEWALK IS ADJACENT TO THE CURB OR SEPARATED BY A PLANTER STRIP.
4. TOOL MARKS, CONSISTING OF 1/4-INCH 'V'-GROOVES SHALL BE MADE IN THE SIDEWALK AT 5 FOOT INTERVALS, INTERMEDIATE TO THE EXPANSION JOINTS.
5. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL-DEPTH BETWEEN THE CURB AND ADJACENT SIDEWALK.
6. EXPANSION JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM D994 (AASHTO M33).
7. MONOLITHIC POURS OF CURB AND SIDEWALK ARE NOT ALLOWED.



SECTION A-A



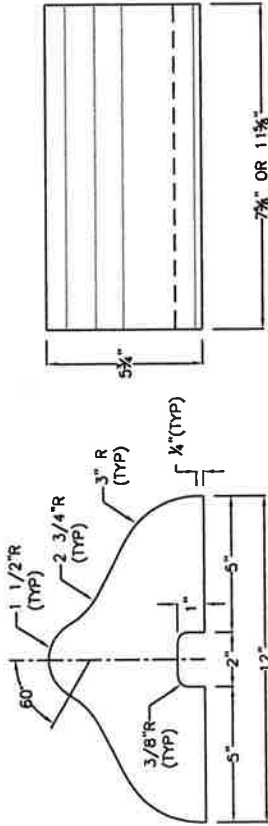
REV FEB 2017



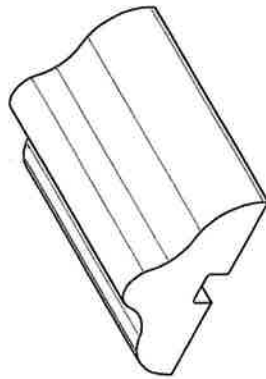
PUBLIC WORKS

**SIDEWALK AND CURB JOINTS AND SIDEWALK FINISH**

DWG. NO. 3-3



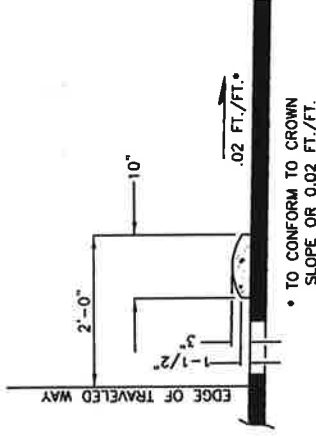
SECTION



ISOMETRIC

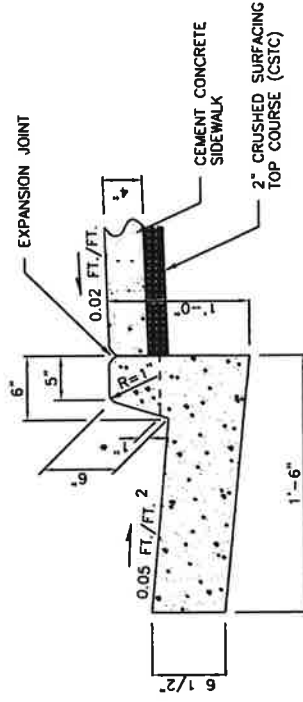
TYPE 'C' BLOCK TRAFFIC CURB

- NOTES:
1. SEE DWG. 3-3 FOR JOINT REQUIREMENTS.
  2. ROLL GUTTER TO MATCH POSITIVE SUPERELEVATION.
  3. TO BE USED ONLY AS APPROVED BY THE PUBLIC WORKS DEPT.



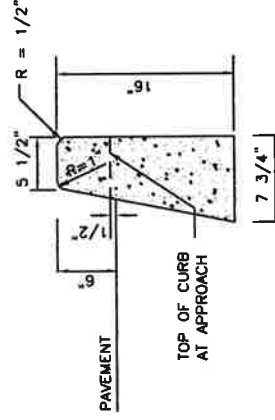
MOUNTABLE CEMENT CONCRETE CURB<sup>3</sup>

\* TO CONFORM TO CROWN SLOPE OR 0.02 FT./FT.



\* NOTE: TOP OF LIP AT DRIVEWAYS.

NEW CEMENT CONCRETE CURB & GUTTER



CEMENT CONCRETE BARRIER CURB

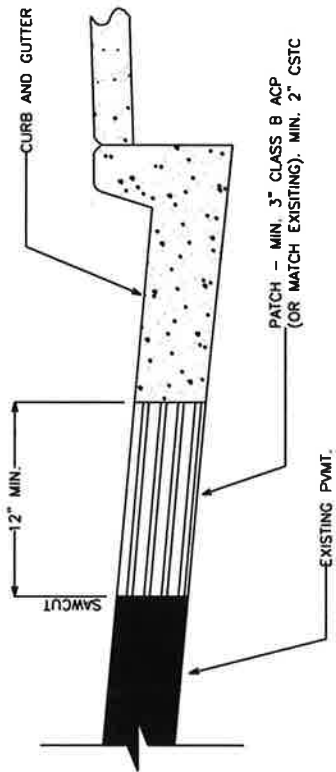


PUBLIC WORKS

CURB DETAILS

DWG. NO. 3-4

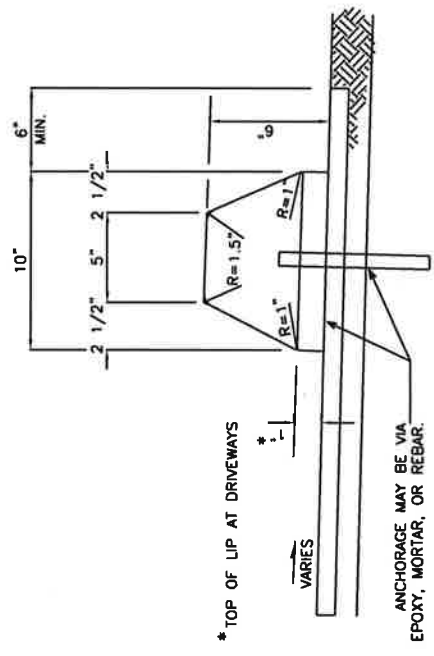
REV. FEB 2011



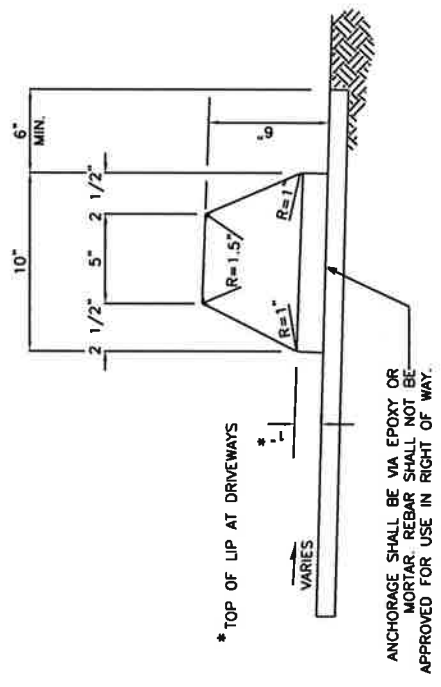
CEMENT CONCRETE CURB & GUTTER REPLACEMENT

NOTES:

1. EXISTING CURB REPLACEMENT WILL REQUIRE REMOVAL OF ASPHALT A MINIMUM OF 12" FROM FACE OF GUTTER.



EXTRUDED ASPHALT OR CEMENT CONCRETE CURB  
IN PRIVATE PARKING AREAS ONLY



EXTRUDED CEMENT CONCRETE CURB  
FOR USE IN PUBLIC RIGHT OF WAY

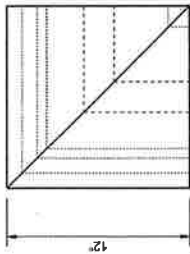
APRIL 2012



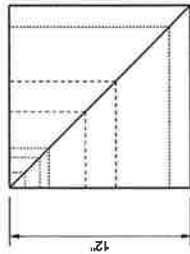
PUBLIC WORKS

**CURB AND GUTTER REPLACEMENT  
AND EXTRUDED CURB**

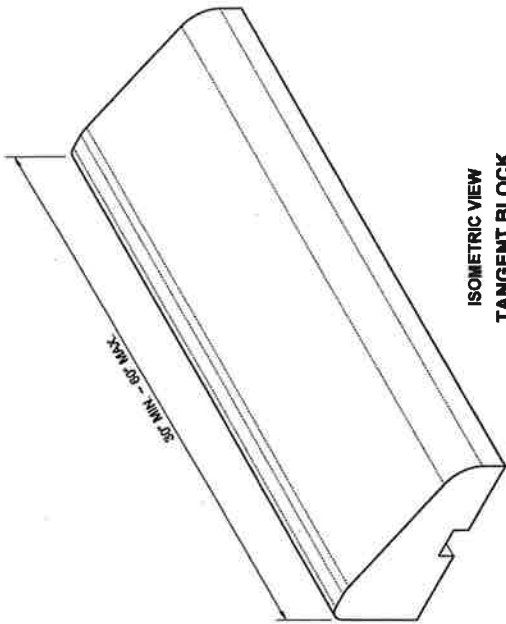
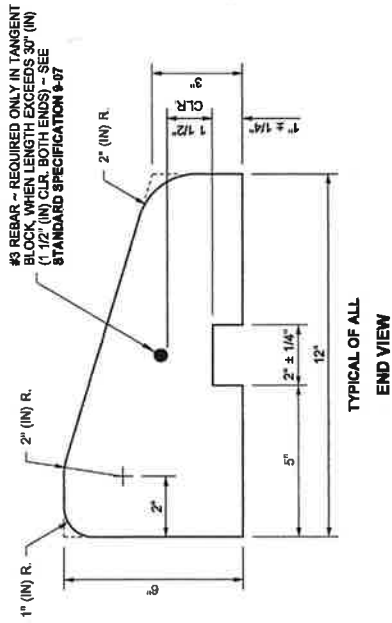
DWG. NO.  
**3-4A**



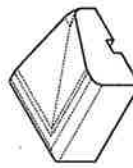
TOP VIEW  
INSIDE CORNER BLOCK



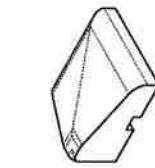
TOP VIEW  
OUTSIDE CORNER BLOCK



ISOMETRIC VIEW  
TANGENT BLOCK



INSIDE CORNER BLOCK



OUTSIDE CORNER BLOCK

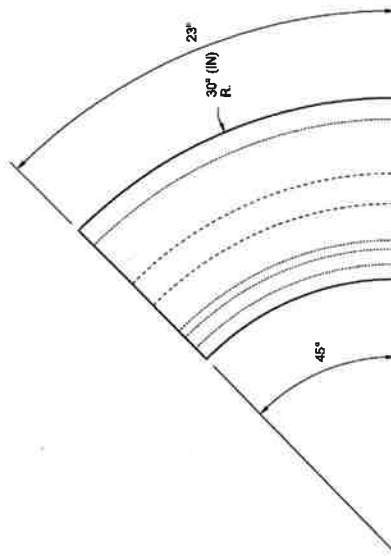


18" (N) RADIUS BLOCK

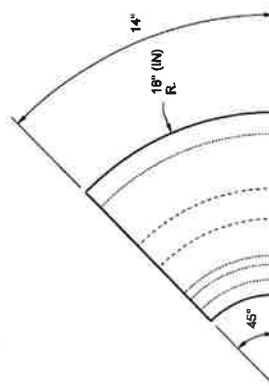


30" (N) RADIUS BLOCK

ISOMETRIC VIEWS



TOP VIEW  
30" RADIUS BLOCK



TOP VIEW  
18" RADIUS BLOCK



Rakotich, Pasco  
Apr 22 2014 9:18 AM

PRECAST SLOPED  
MOUNTABLE CURB

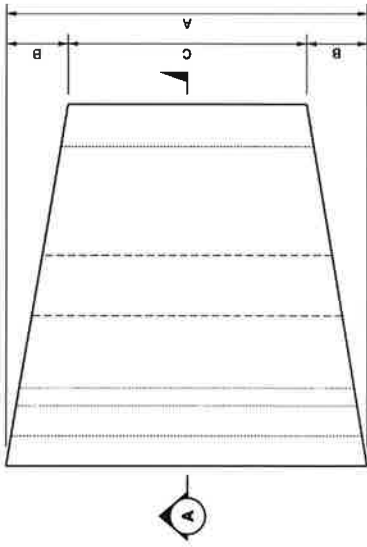
STANDARD PLAN F-10.62-02

SHEET 1 OF 2 SHEETS

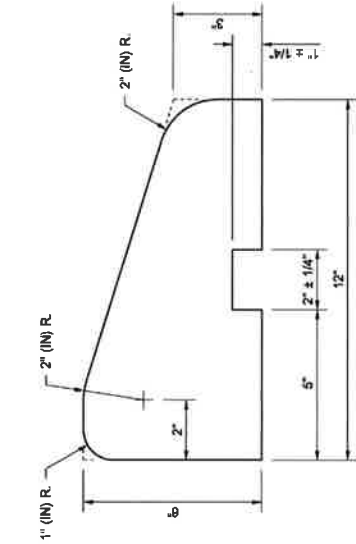
APPROVED FOR PUBLICATION  
Apr 22 2014 9:18 AM

Rakotich, Pasco  
Apr 22 2014 9:18 AM

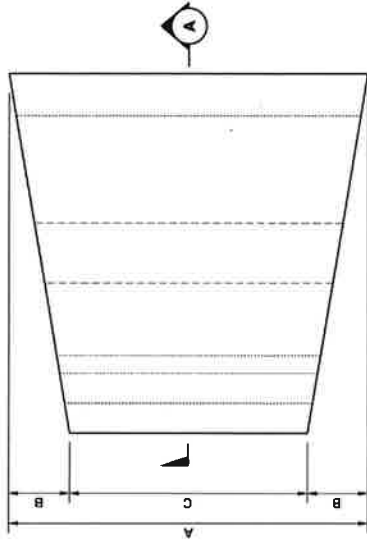
STATE DESIGN ENGINEER  
Washington State Department of Transportation



TOP VIEW  
INSIDE RADIUS BLOCK



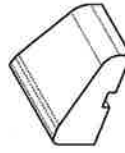
SECTION A



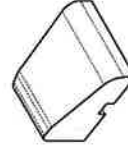
TOP VIEW  
OUTSIDE RADIUS BLOCK

CURB RADIUS	CURB RADIUS TABLE		
	DIMENSION A	DIMENSION B	DIMENSION C
3"	12"	2"	8"
4' TO 5'	12"	1 1/2"	8"
6'	12"	1"	10"
7'	12"	7/8"	10 1/4"
8'	18"	1 1/8"	15 3/4"
8'	18"	1"	16"
10'	18"	7/8"	18 1/4"
11' TO 13'	18"	3/4"	16 1/2"
14' TO 15'	18"	5/8"	16 3/4"
16' TO 17'	24"	3/4"	22 1/2"
18' TO 22'	24"	5/8"	22 3/4"
23' TO 28'	24"	1/2"	23"
30' TO 34'	30"	1/2"	28"
35' TO 48'	30"	3/8"	29 1/4"
49' TO 60'	30"	1/4"	29 1/2"
OVER 60'	USE TANGENT BLOCK, SEE SHEET 1		

THIS TABLE LISTS THE CALCULATED DIMENSIONS FOR CASTING BLOCKS SUITABLE FOR CONSTRUCTING VARIOUS CURB RADII. CURVED BLOCKS, OR BLOCKS WITH DIFFERENT DIMENSIONS, MAY BE ACCEPTABLE WITH PRIOR APPROVAL OF THE ENGINEER.



INSIDE RADIUS BLOCK



OUTSIDE RADIUS BLOCK

ISOMETRIC VIEWS



Ralph H. Pasco  
Rakotob, Pasco  
Apr 22 2014 9:20 AM

PRECAST SLOPED  
MOUNTABLE CURB

STANDARD PLAN F-10.62-02

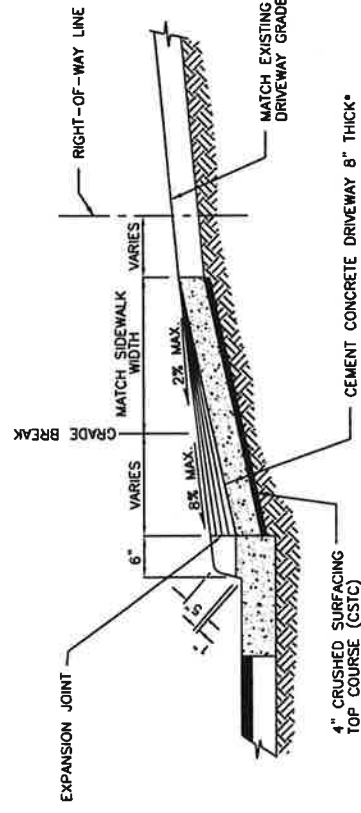
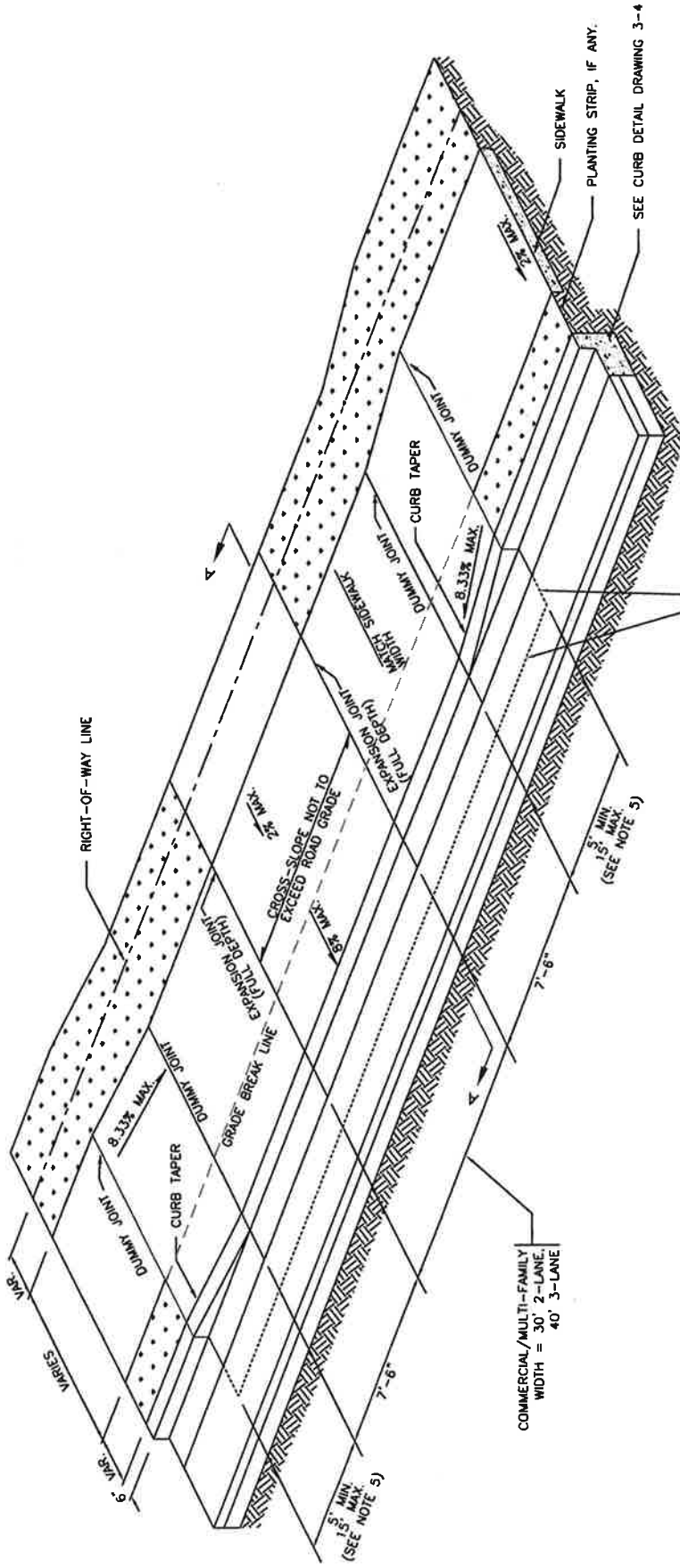
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION  
Rakotob, Pasco  
Apr 22 2014 9:20 AM

Ralph H. Pasco

STATE DESIGN ENGINEER

Washington State Department of Transportation



SAWCUT LINE FOR NEW OR REPLACEMENT DRIVEWAYS IN EXISTING CURB/GUTTER SECTIONS.

NOTES:

1. COMMERCIAL/INDUSTRIAL DRIVEWAYS WIDER THAN 40' MAY BE APPROVED BY THE ENGINEER CONSIDERING TRAFFIC SAFETY AND NEEDS OF THE ACTIVITY SERVED. ALL COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL HAVE AN EXPANSION JOINT LOCATED MID-WIDTH. SEE KGRS SEC. 3.04.
2. SEE SEC. 3.2.13 AND CURB DETAIL DRAWING 3-4.
3. CEMENT CONCRETE DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH CEMENT CONCRETE CLASS 4000 WITH 4% TO 6% AIR ENTRAINMENT.
4. FULL DEPTH EXPANSION JOINT IF DRIVEWAY WIDTH IS 15' OR GREATER.
5. LENGTH OF RAMP SHALL VARY AS NEEDED TO MEET ADA SLOPE REQUIREMENTS.

SECTION A-A • BASED ON TYPE OF EXPECTED VEHICLE USE

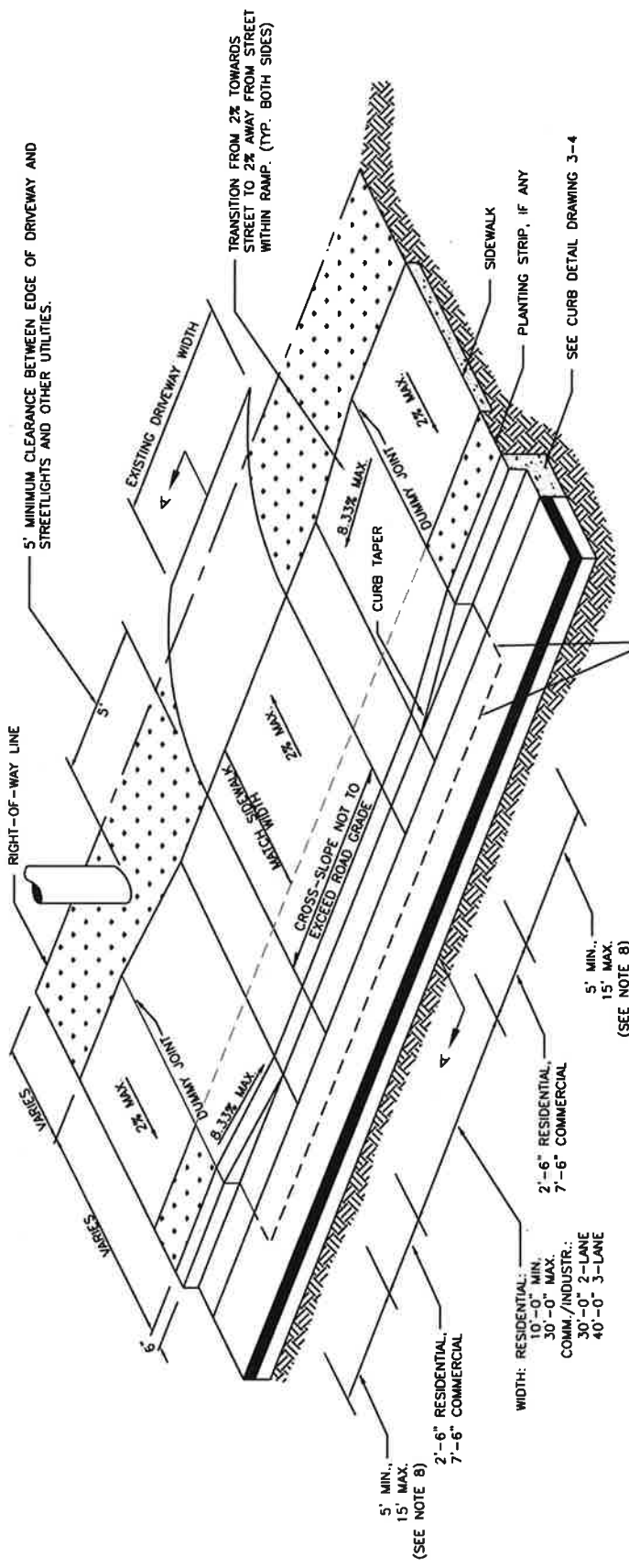
REV. FEBRUARY 2014



PUBLIC WORKS

# COMMERCIAL CURB AND GUTTER SECTION DRIVEWAY

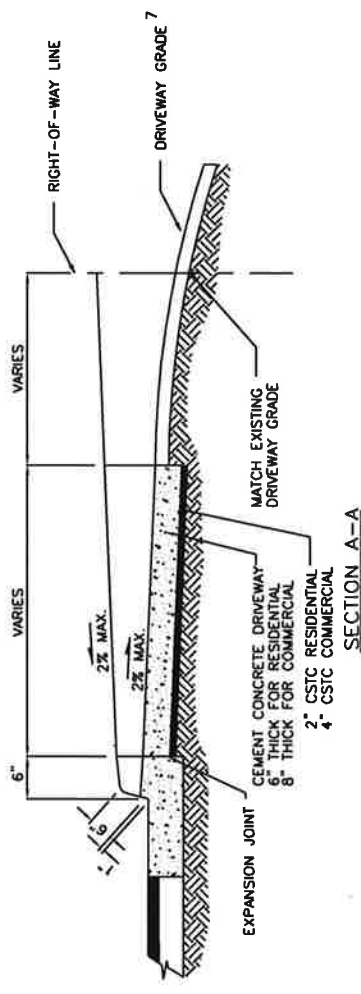
DWG. NO. 3-6A



SAWCUT LINE FOR NEW OR REPLACEMENT DRIVEWAYS IN EXISTING CURB/GUTTER SECTIONS.

NOTES:

1. A REVERSE SLOPE DRIVEWAY IS SUBJECT TO APPROVAL BY ENGINEER CONSIDERING NEED FOR AND COMPATIBILITY OF THIS FEATURE.
2. COMMERCIAL/INDUSTRIAL DRIVEWAYS WIDER THAN 40' MAY BE APPROVED CONSIDERING TRAFFIC SAFETY AND NEEDS OF THE ACTIVITY SERVED. ALL COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL HAVE AN EXPANSION JOINT LOCATED MID-WIDTH. SEE KCRS SEC. 3.04.
3. A STORM SEWER INLET SHALL BE LOCATED WITHIN 20' BUT NO CLOSER THAN 10' UPGRADE FROM NEAREST EDGE OF CURB TAPER.
4. SEE SEC. 3.2.13 AND CURB DETAIL DRAWING 3-4
5. CEMENT CONCRETE DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH CEMENT CONCRETE CLASS 4000 WITH 4% TO 6% AIR ENTRAINMENT.
6. FULL DEPTH EXPANSION JOINT IF DRIVEWAY WIDTH IS 15' OR GREATER.
7. SEE SECTION 3.2.13 FOR MAX CHANGE IN DRIVEWAY GRADE
8. LENGTH OF RAMP SHALL VARY AS NEEDED TO MEET ADA SLOPE REQUIREMENTS.



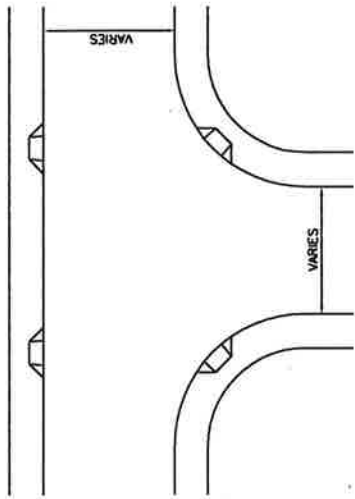
REV. FEBRUARY 2014



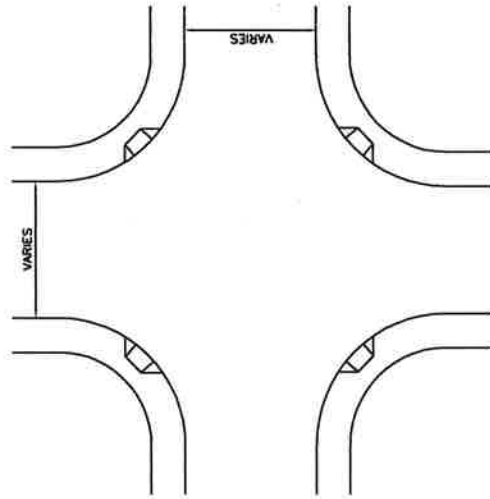
PUBLIC WORKS

REVERSE SLOPE DRIVEWAY

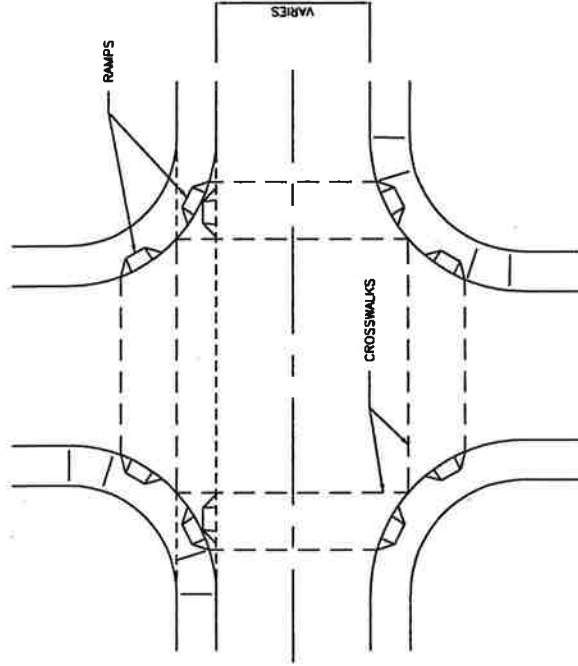
DWG. NO. 3-7



ACCEPTABLE  
RAMP LOCATIONS  
FOR RETROFIT OR ALTERATION



FOR NEW CONSTRUCTION  
OR STANDARD RECONSTRUCTION



RAMP LOCATIONS  
FOR NEW CONSTRUCTION  
OR STANDARD RECONSTRUCTION

NOTES:

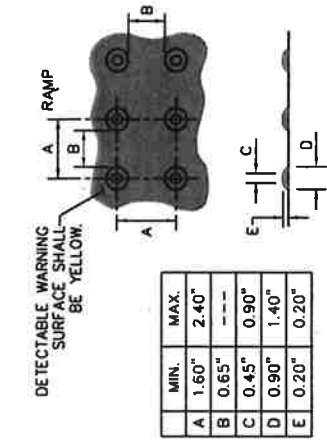
1. CATCH BASIN AND INLETS SHALL BE OUTSIDE THE CURB RAMP (24" MIN. CLEARANCE FROM RAMP).
2. CARE SHALL BE TAKEN TO KEEP THE RAMP FROM CONFLICTING WITH HYDRANTS, POLES, INLETS, AND OTHER UTILITIES.
3. CONSTRUCT RAMP IN ACCORDANCE WITH STANDARD DRAWING 3-10 OR 3-11.
4. CROSSWALKS ARE NOT ALWAYS MARKED.
5. WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING LOCATIONS ON OPPOSITE SIDE OF STREET.

REV. 4/11/08



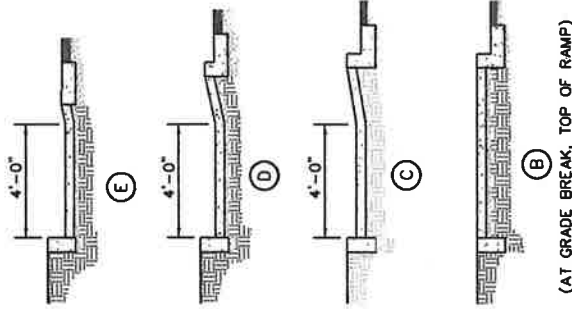
**SINGLE DIRECTION CURB RAMP WITHOUT PLANTER STRIP**

PUBLIC WORKS

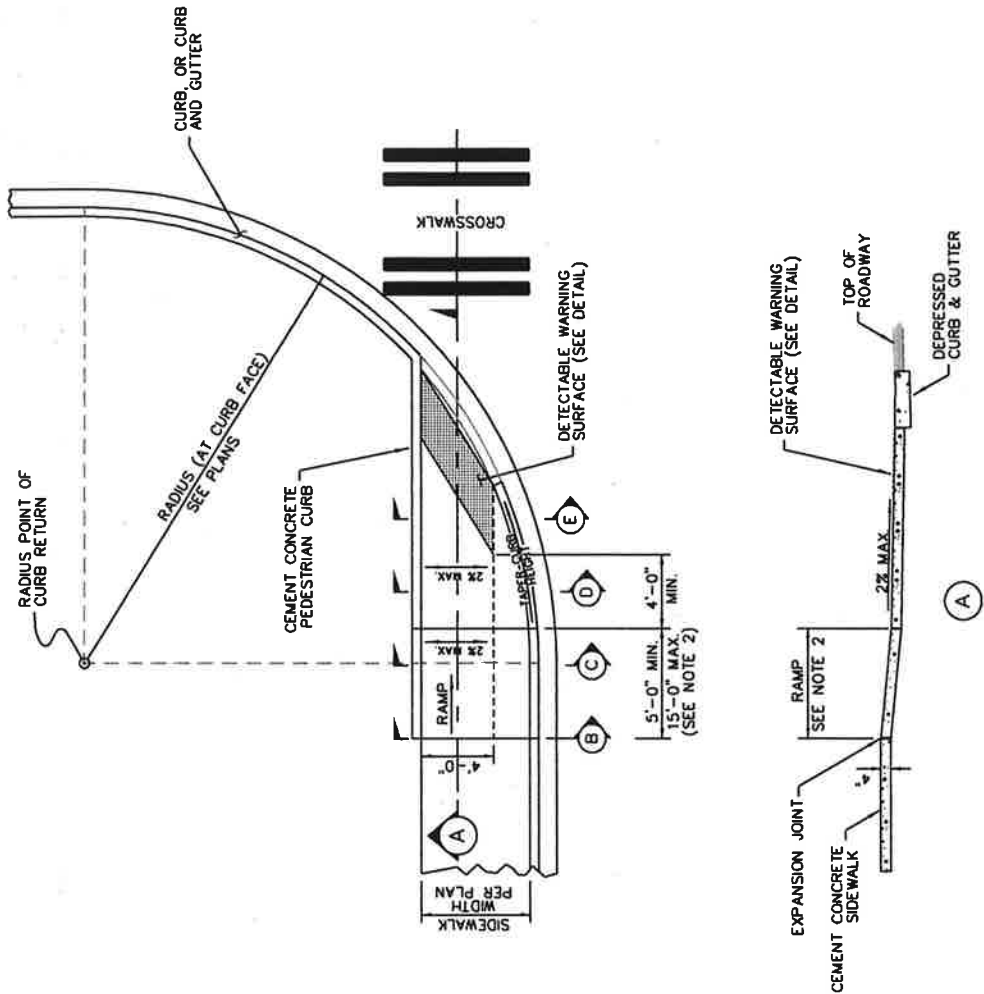


	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	---
C	0.45"	0.90"
D	0.90"	1.40"
E	0.20"	0.20"

TRUNCATED DOMES

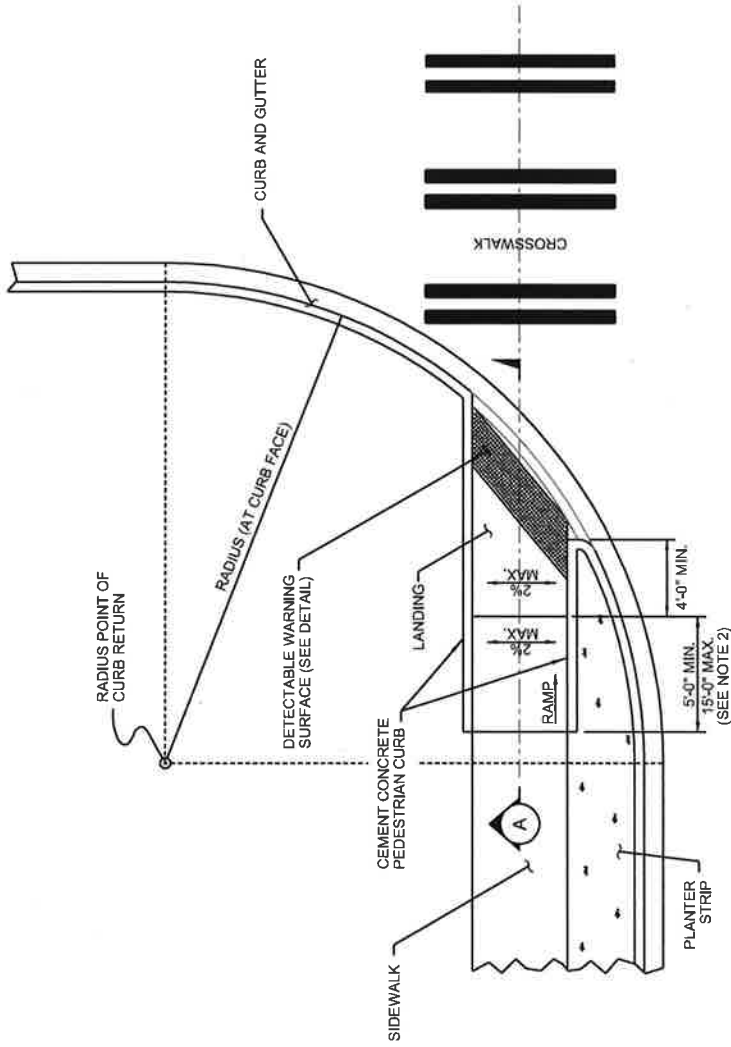


(AT GRADE BREAK, TOP OF RAMP)

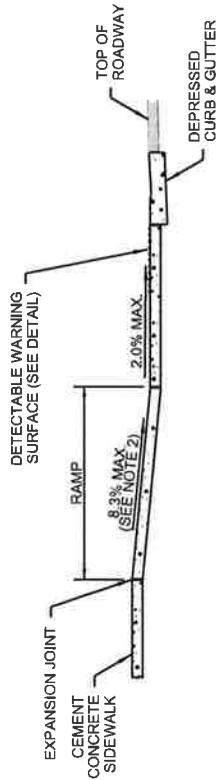


**NOTES:**

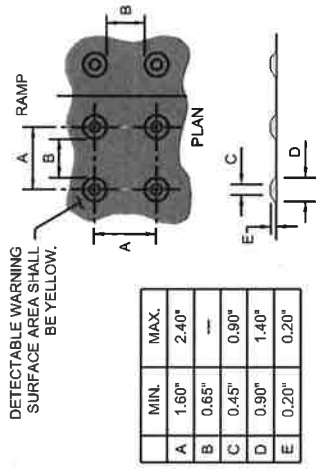
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTANANCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.



PLAN VIEW  
SIDEWALK RAMP  
PLAN

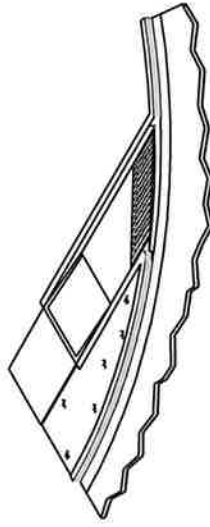


SECTION A



	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	---
C	0.45"	0.90"
D	0.90"	1.40"
E	0.20"	0.20"

TRUNCATED DOMES  
DETECTABLE WARNING  
SURFACE DETAIL



NOTES:

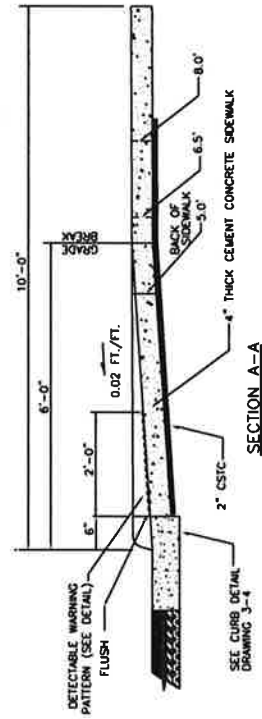
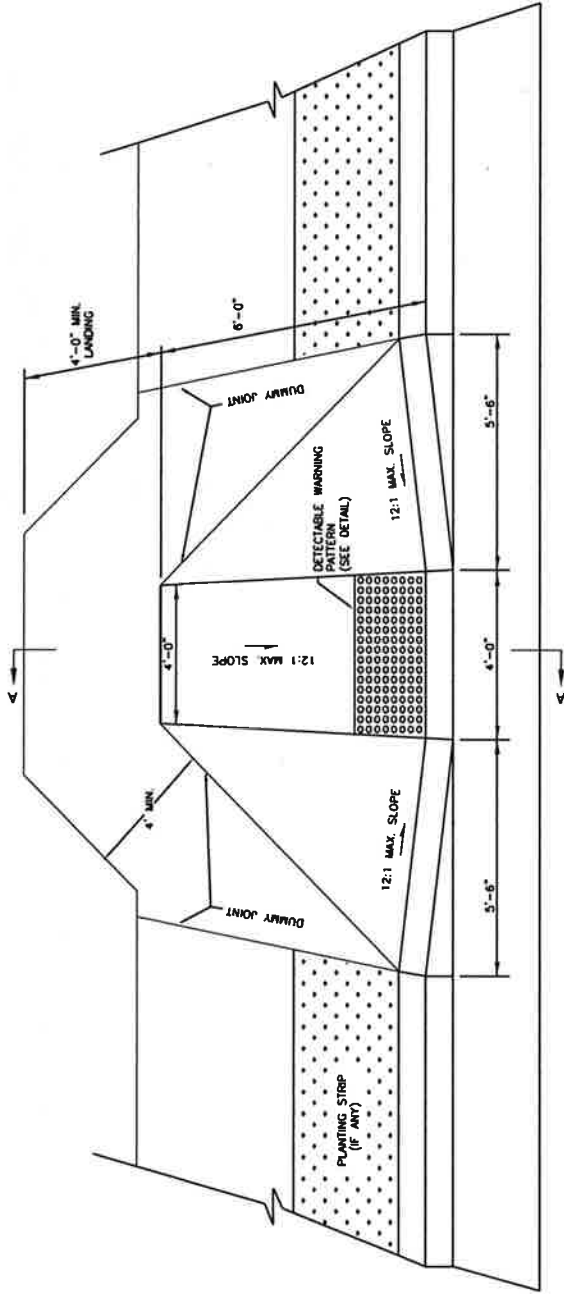
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTANANCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.

# CURB RAMP IN VERTICAL CURB

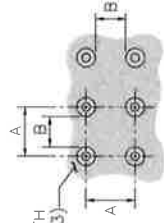
PUBLIC WORKS



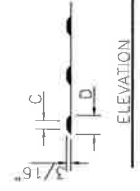
REV. MAR. 2011



DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD. SPEC. 8-14.3(3)

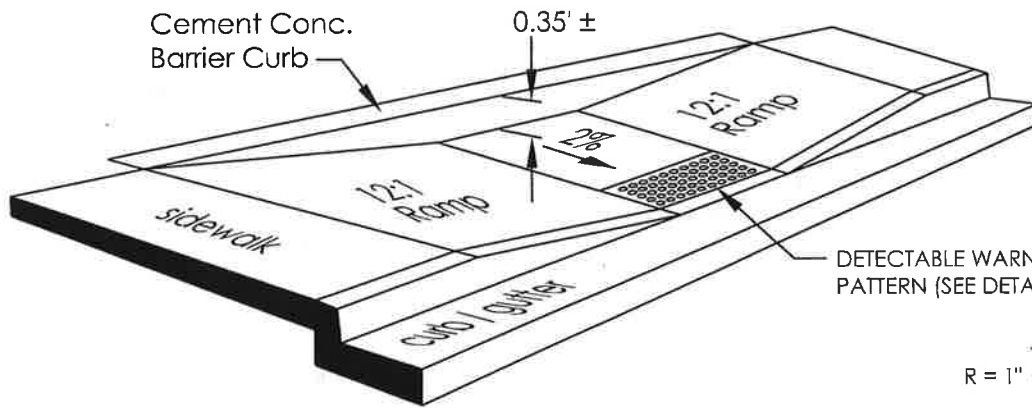
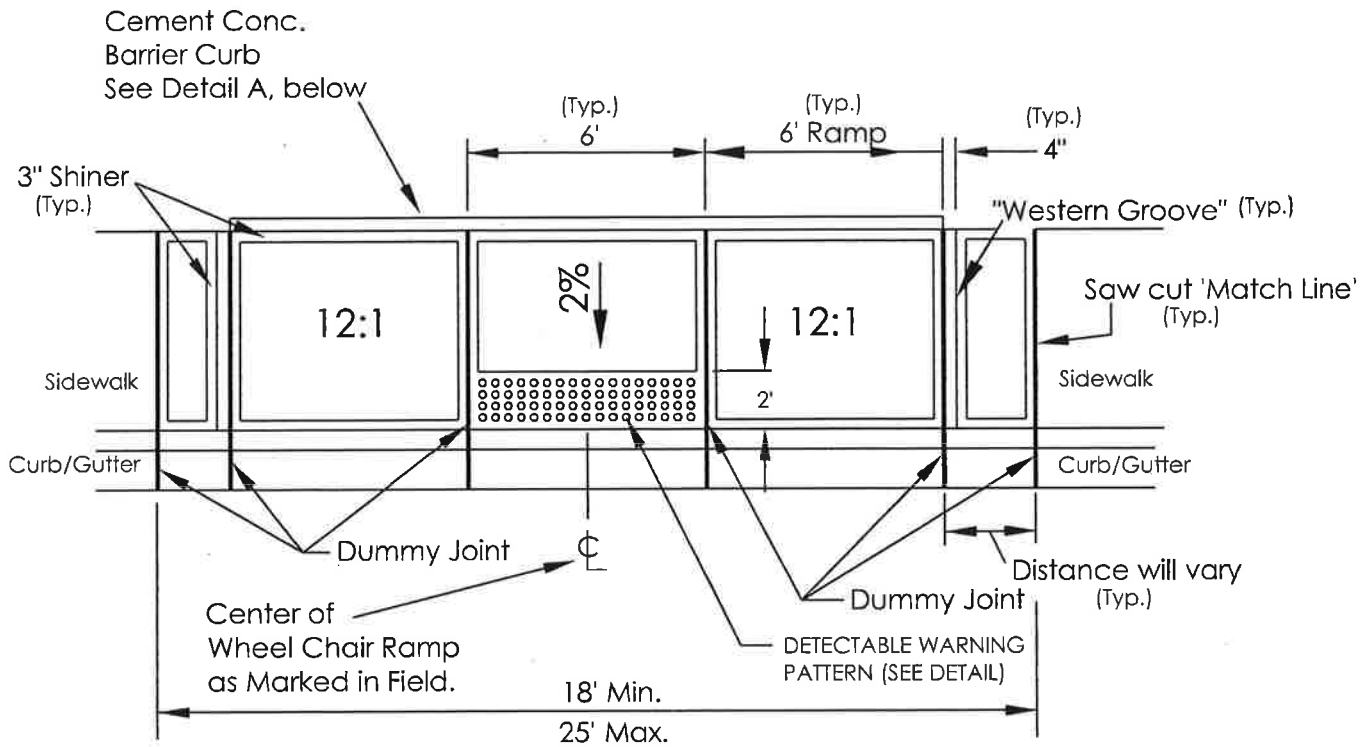


	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

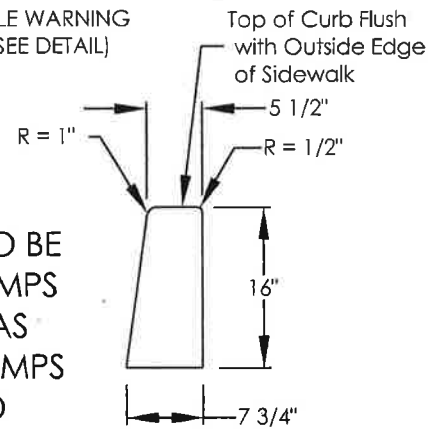


DETECTABLE WARNING PATTERN DETAIL

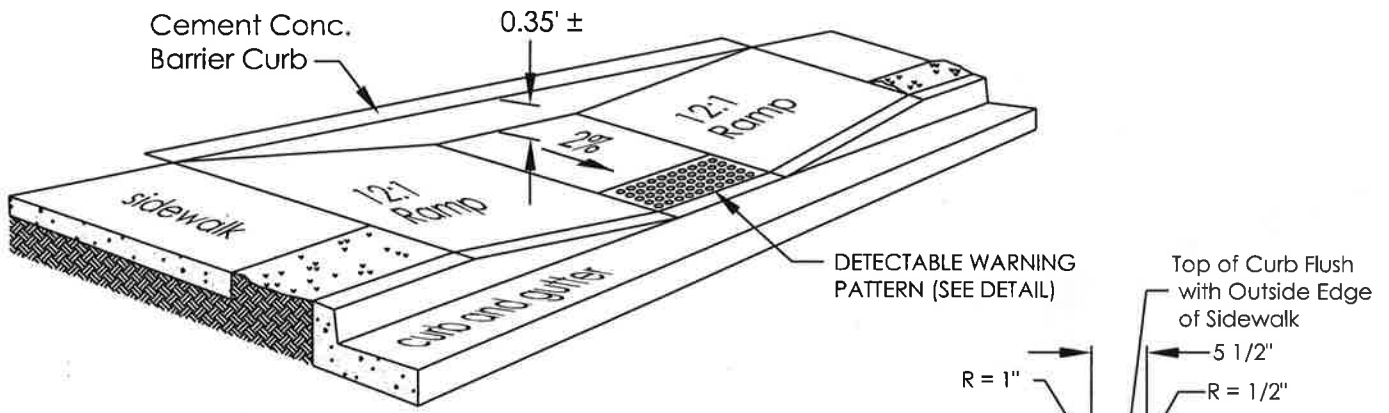
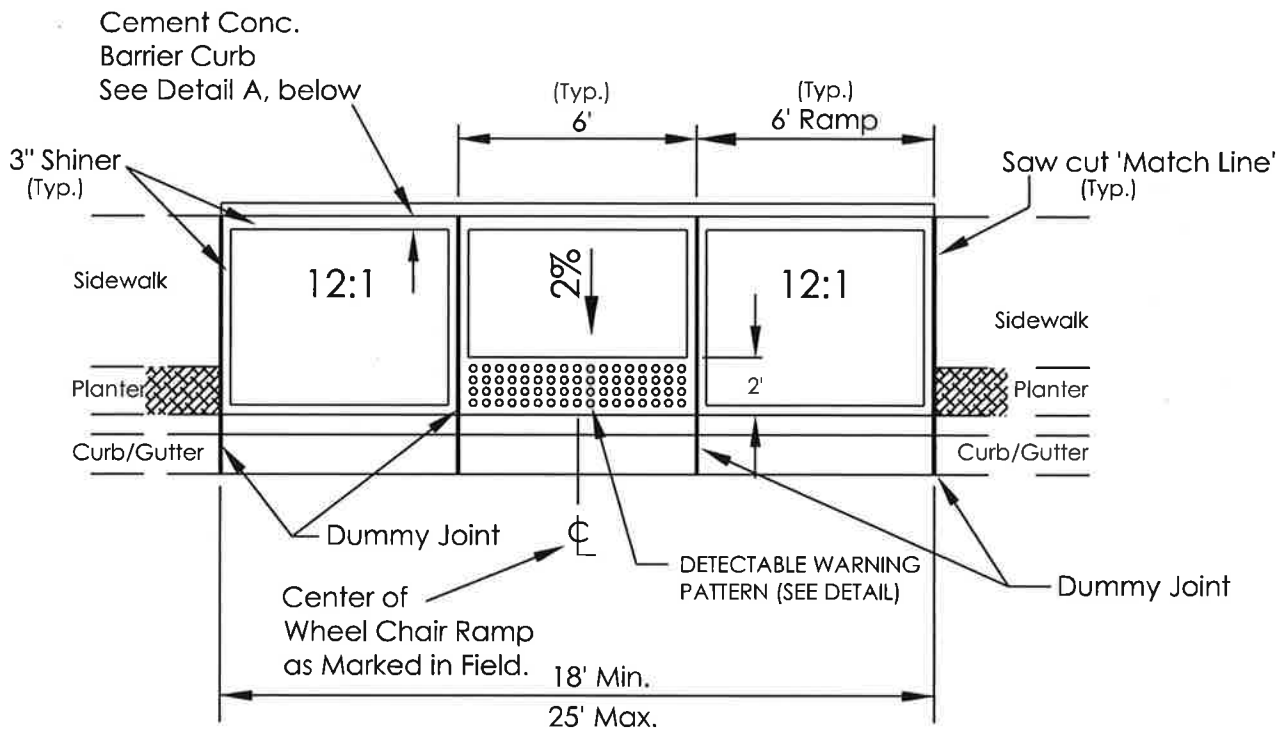
- NOTES:
- RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCL. HYDRANTS, POLES, AND INLETS.
  - RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
  - WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET.
  - ON ARTERIAL STREETS, IN GENERAL CASE, CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLY ADJACENT TO THE MAIN PEDESTRIAN PATHS.
  - ON RESIDENTIAL STREETS OR WHERE UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.



NOTE: CONCRETE BARRIER CURB TO BE ONLY USED IN RAMPS NOTED IN PLANS AS TYPE 2. TYPE 1 RAMPS ARE IDENTICAL TO TYPE 2, EXCEPT THEY DO NOT INCLUDE THE BARRIER CURB.



Detail A - Concrete Barrier Curb



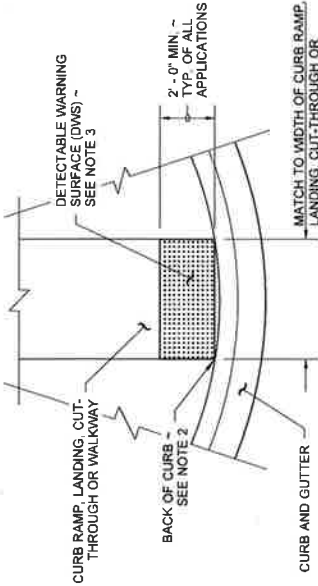
**NOTE:** CONCRETE BARRRIER CURB TO BE ONLY USED IN RAMPS NOTED IN PLANS AS TYPE 2. TYPE 1 RAMPS ARE IDENTICAL TO TYPE 2, EXCEPT THEY DO NOT INCLUDE THE BARRIER CURB.

Detail A - Concrete Barrier Curb

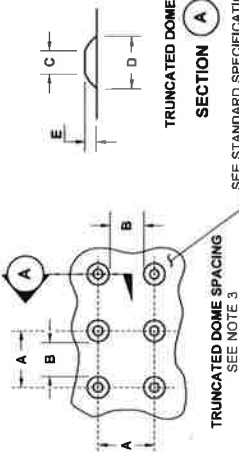


**NOTES**

- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the Manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2 inches on each side of the DWS is permitted.
- The Detectable Warning Surface (DWS) shall be placed at the back of curb, with the two leading corners of the DWS panel placed adjacent to the back of the curb, and with no more than a 2 inch gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2 inches from the back of the curb is permitted (measured at the leading corners of the DWS panel).
- The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
- The rows of truncated domes shall be aligned to be parallel to the direction of travel, if curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
- See **Standard Plans** for sidewalk and curb ramp details.
- If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
- When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.

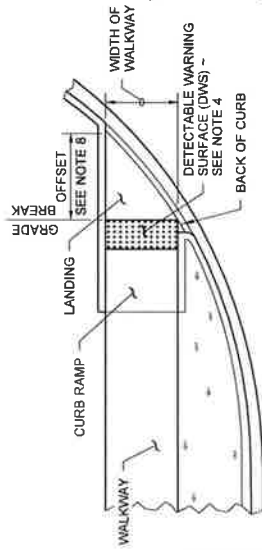


	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

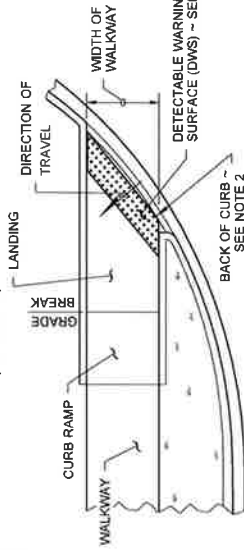


SEE STANDARD SPECIFICATIONS FOR COLOR OF SURFACE

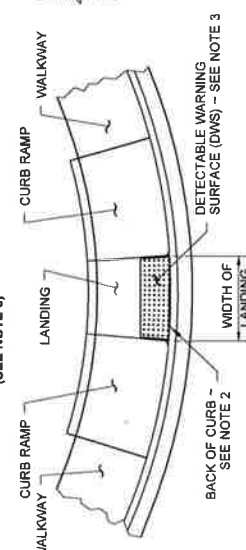
**TRUNCATED DOME DETAILS**



**SINGLE DIRECTION CURB RAMP**  
(GRADE BREAK BETWEEN CURB AND LANDING >= 5 FT. FROM BACK OF CURB)  
(SEE NOTE 6)

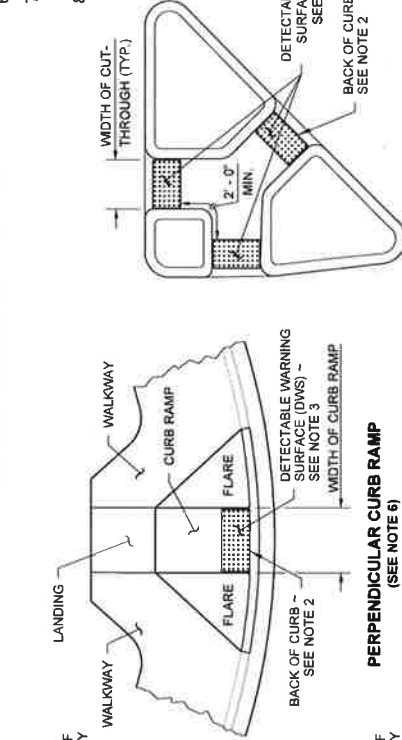


**SINGLE DIRECTION CURB RAMP**  
(GRADE BREAK BETWEEN CURB AND LANDING > 5 FT. FROM BACK OF CURB)  
(SEE NOTE 6)

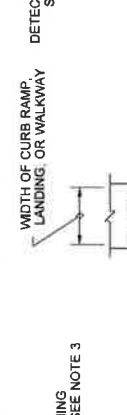


**PARALLEL CURB RAMP**  
(SEE NOTE 6)

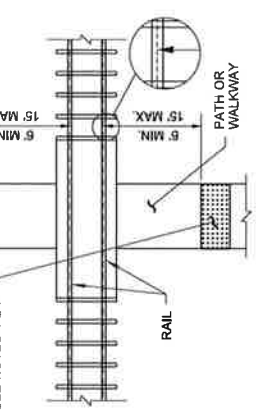
**DETECTABLE WARNING SURFACE DETAIL**



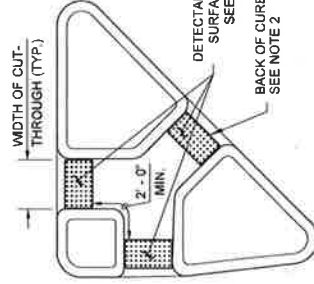
**PERPENDICULAR CURB RAMP**  
(SEE NOTE 6)



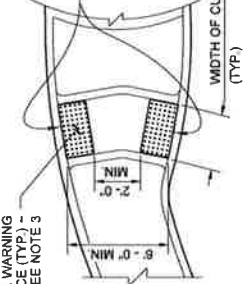
**PERPENDICULAR CURB RAMP**  
(SEE NOTE 6)



**PEDESTRIAN RAILROAD CROSSING**



**ISLAND CUT-THROUGH**

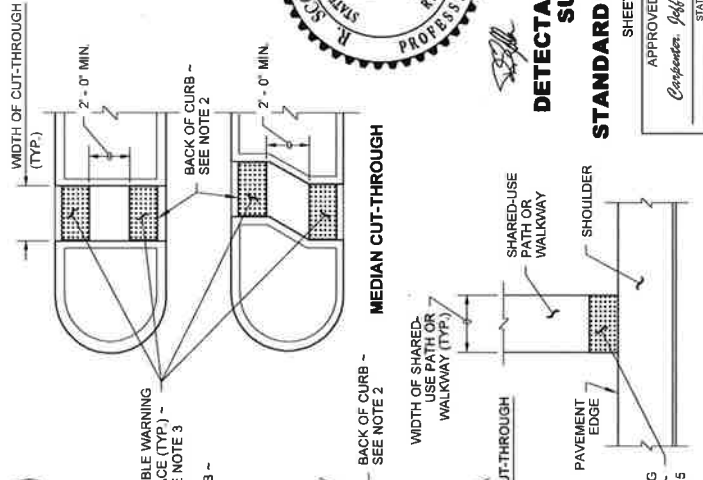


**ROUNDABOUT SPLITTER ISLAND**



**PLACEMENT GUIDELINES**

**SHARED-USE PATH CONNECTION**



Scott Zeller  
Jul 12 2016 4:25 PM

**DETECTABLE WARNING SURFACE**

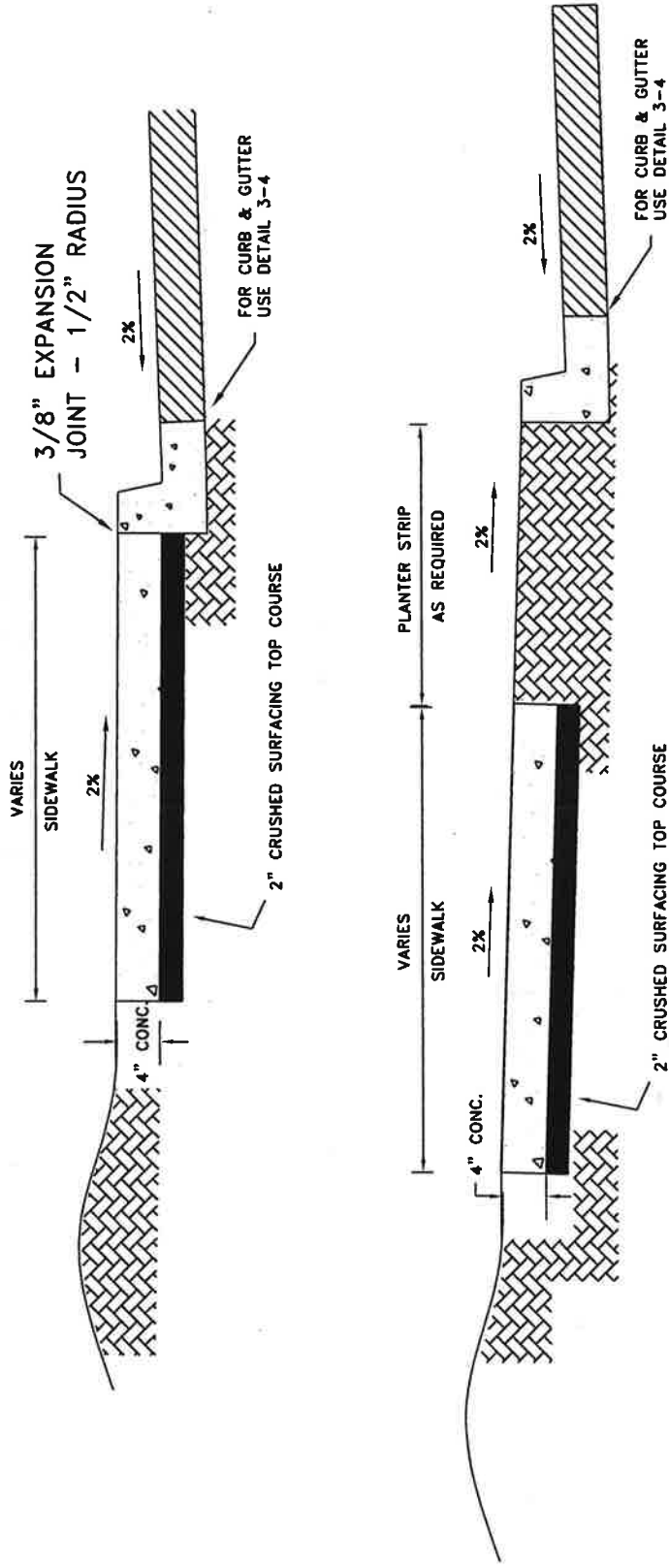
**STANDARD PLAN F-45.10-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Carpenter, Jeff  
Jul 13 2016 2:26 PM

STATE DESIGN ENGINEER

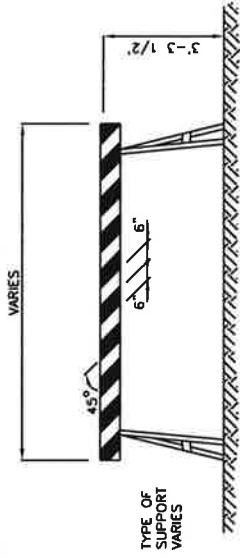
Washington State Department of Transportation



- NOTES:
1. FOR JOINTS AND SCORING, SEE FEDERAL WAY STANDARD FOR SIDEWALK SPACING, EXPANSION JOINTS, AND SCORE MARKS.
  2. SEE DETAILS 3-6, 3-6A, & 3-7 FOR MINIMUM DEPTH OF CONCRETE THROUGH DRIVEWAY SECTIONS.
  3. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.
  4. CONCRETE SHALL BE CLASS 3000, WSDOT SPEC. 8-14.

REV. MAR 2011



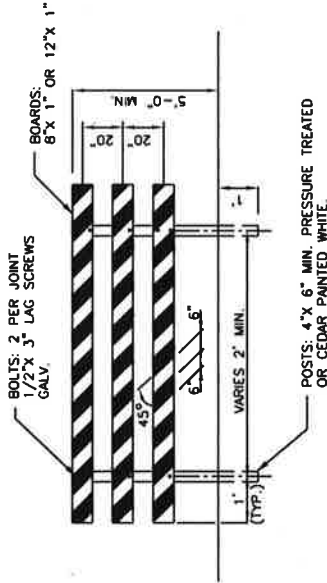


TYPE I BARRICADE

**STRIPE NOTES:**  
 ORANGE & WHITE IF TEMPORARY.  
 RED & WHITE IF PERMANENT.  
 REFLECTORIZED  
 SLANT DOWNWARD, RIGHT OR LEFT,  
 IN DIRECTION TRAFFIC WILL PASS.  
 SLANT BOTH DIRECTIONS FROM MIDDLE  
 IF TRAFFIC PASSES BOTH ENDS  
 WIDTH 6" EXCEPT 4" IF RAILS ARE  
 LESS THAN 3' LONG.  
 SLANT DOWNWARD TO MIDDLE AT END  
 OF CLOSED ROAD.  
 SEE MUTCD SEC. 6F.60.



TYPE II BARRICADE



FIXED (PERMANENT)  
 TYPE III BARRICADE



MOVABLE (TEMPORARY)  
 TYPE III BARRICADE

BARRICADE NOTES:

TYPE	I	II	III
WIDTH OF RAIL	8" MIN. 12" MAX.	8" MIN. 12" MAX.	8" MIN. 12" MAX.
LENGTH OF RAIL	2' MIN.	2' MIN.	4' MIN.
HEIGHT	3' MIN.	3' MIN.	5' MIN.
TYPE OF FRAME	DEMOUNTABLE OR HEAVY "A"	LIGHT "A" FRAME	POST OR SKIDS
FLEXIBILITY	ESSENTIALLY MOVABLE	PORTABLE	ESSENTIALLY PERMANENT

INFORMATIONAL SIGN  
 STREET PLANNED FOR EXTENSION  
 WITH FUTURE DEVELOPMENT.  
 FOR MORE INFORMATION CALL  
 CITY OF FEDERAL WAY  
 PUBLIC WORKS DEPARTMENT  
 253-835-2700.

TO BE INSTALLED ON BARRICADES  
 WHERE STREET IS PLANNED FOR  
 FUTURE EXTENSION - AS DIRECTED BY  
 PUBLIC WORKS DEPARTMENT

REV. MAR. 2011

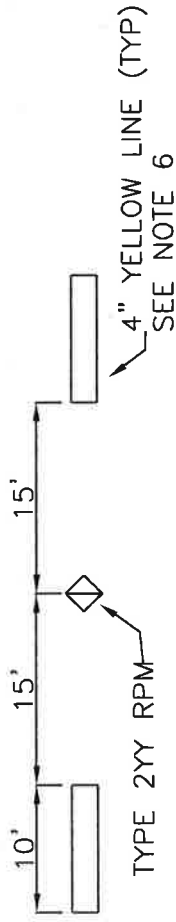


PUBLIC  
 WORKS

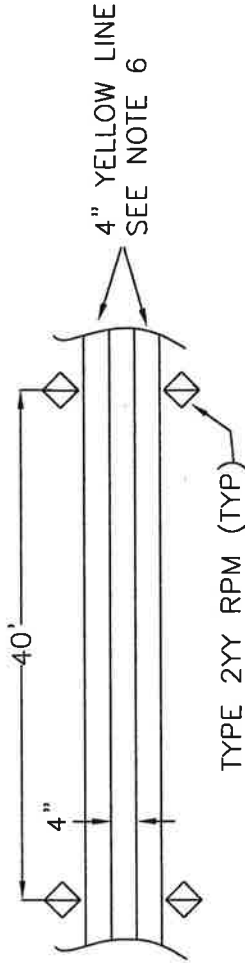
# BARRICADES

DWG. NO.  
 3-15

SKIP CENTER LINE (SCL)



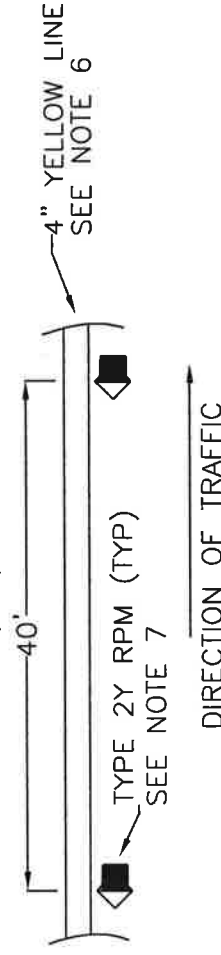
DOUBLE YELLOW CENTER LINE (DYCL)



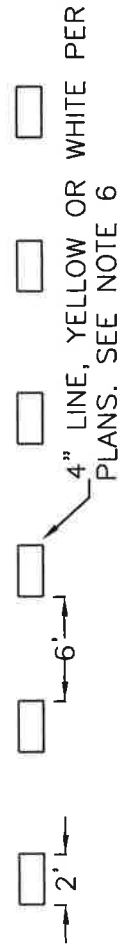
WHITE EDGE LINE (WEL)



YELLOW EDGE LINE (YEL)



DOTTED EXTENSION LINE (WDEL, YDEL)



GENERAL NOTES:

1. LONGITUDINAL STRIPING ON ARTERIALS SHALL BE PLASTIC TYPE D METHYLMETHACRYLATE (MMA). TRANSVERSE MARKINGS SHALL BE PLASTIC TYPE A. ALL OTHER STRIPING SHALL BE PAINT.
2. ALL STRIPING WITHIN INTERSECTIONS SHALL BE PLASTIC TYPE A OR D.
3. ALL RPM'S SHALL BE LOCATED TO PROVIDE 4 INCHES BETWEEN STRIPING AND RPM'S.
4. TYPE 2 RPM'S SHALL BE USED ON ALL ARTERIALS AND COLLECTORS, IF STRIPED
5. WHERE TYPE C CURB IS USED IN PLACE OF STRIPING, USE RPM PATTERN APPLICABLE TO THE STRIPING BEING REPLACED.

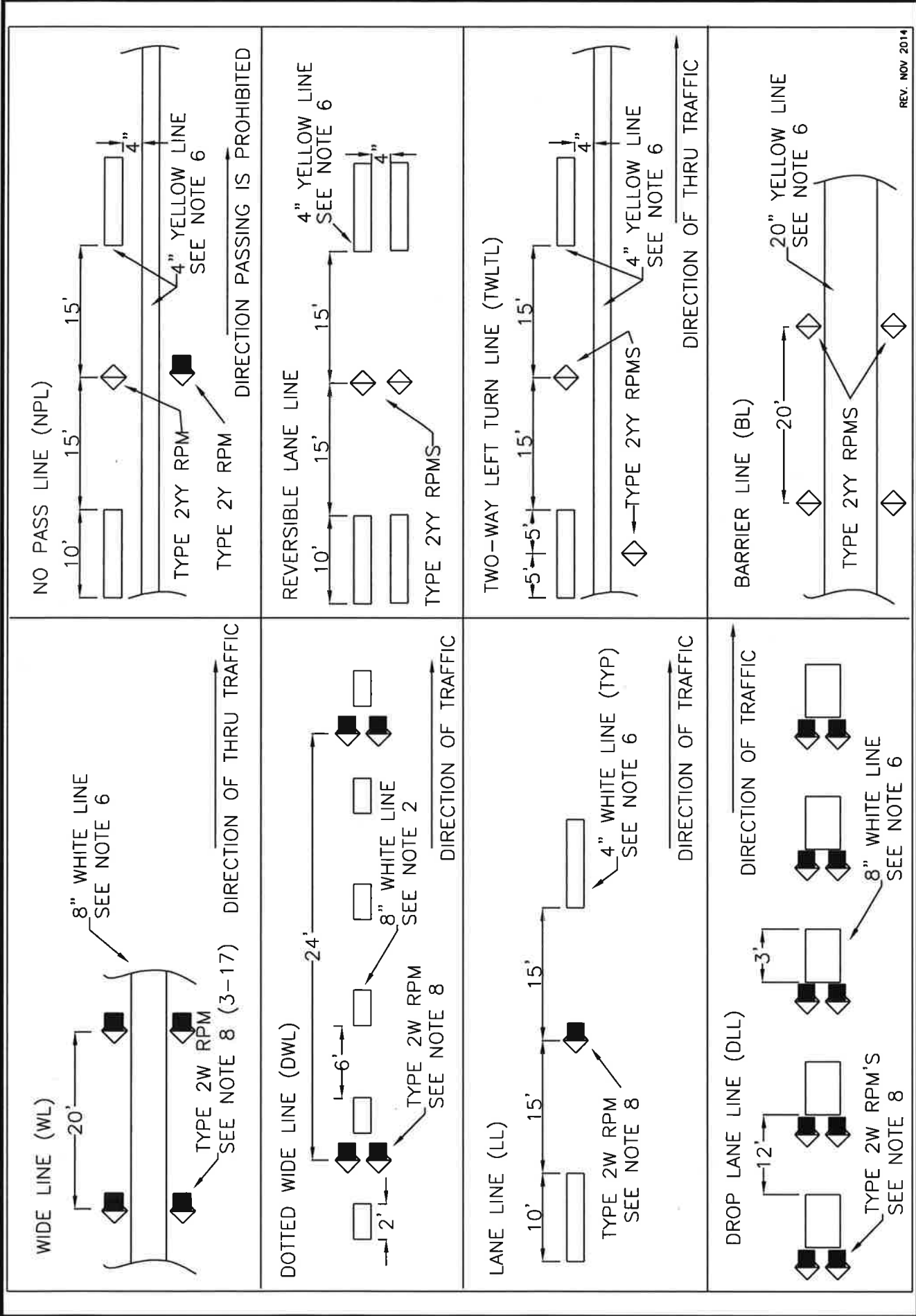
SPECIFIC NOTES:

6. IF MMA IS USED, MMA SHALL BE PROFILED.
7. WHERE RAISED MEDIAN OR TYPE C CURBING IS USED, USE TYPE 2YR RPM'S, WITH RED FACING OPPOSITE THE DIRECTION OF TRAFFIC.
8. WHERE RAISED MEDIAN OR TYPE C CURBING IS USED, USE TYPE 2WR RPM'S, WITH RED FACING OPPOSITE THE DIRECTION OF TRAFFIC.

LEGEND:

- ◀ MONO-DIRECTIONAL RPM TYPE 2
- ◊ BI-DIRECTIONAL RPM TYPE 2

REV. NOV 2014



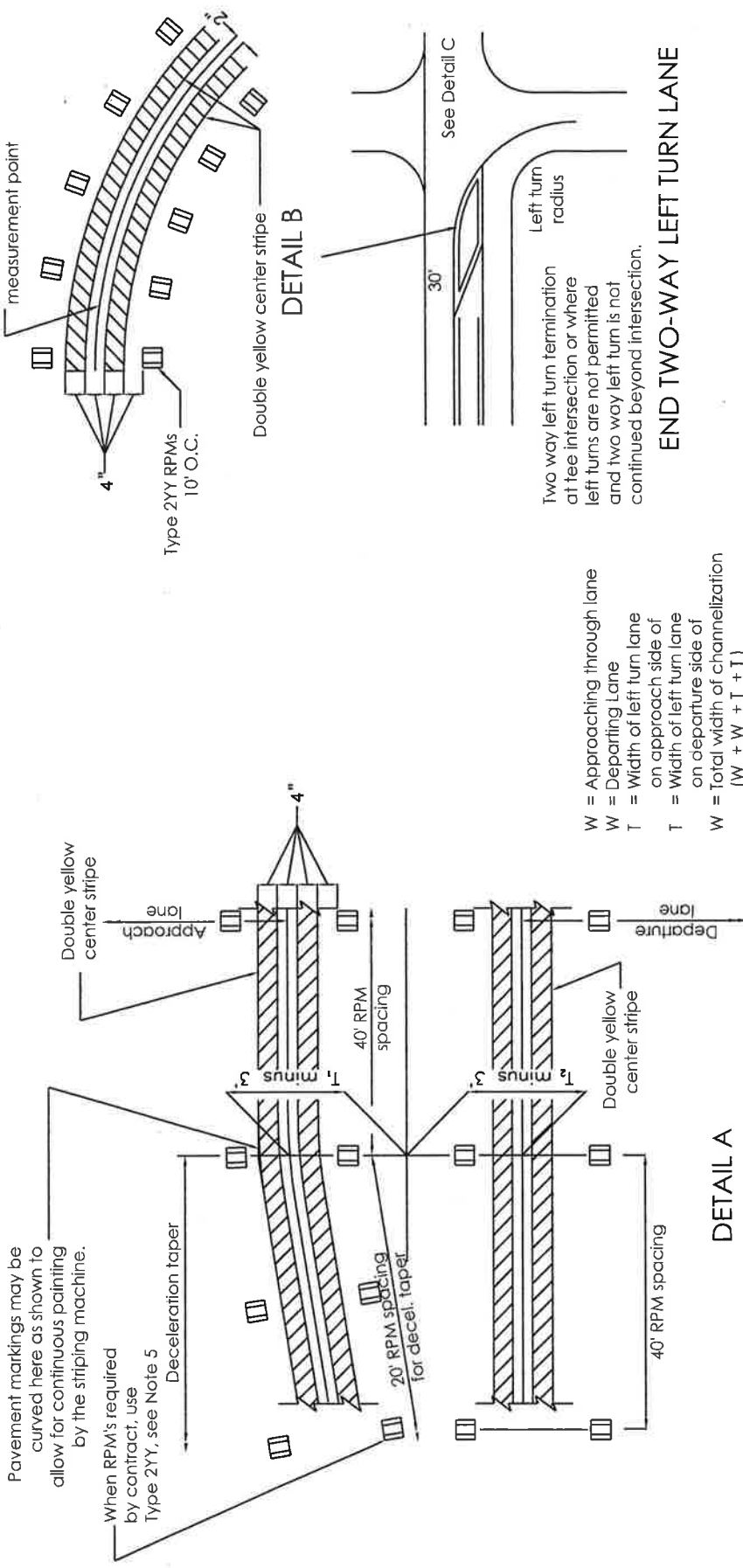
REV. NOV 2014



PUBLIC WORKS

**RAISED PAVEMENT MARKERS**

DWG. NO. **3-18**



Rev. NOV 2014

DWG. NO.  
3-19

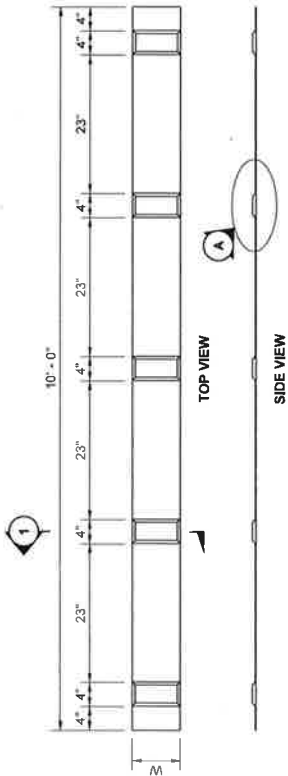
RAISED PAVEMENT MARKERS

PUBLIC WORKS



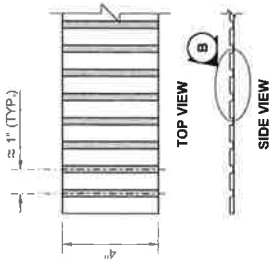
**GENERAL NOTE**

See Standard Plan M-20-10 for pattern and color requirements.



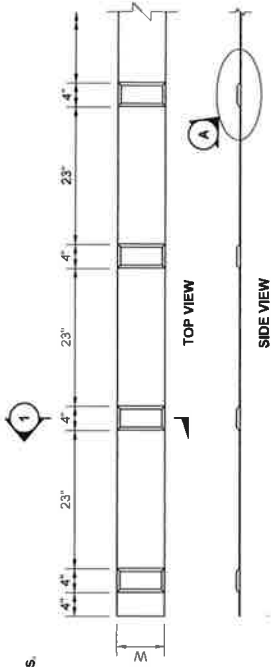
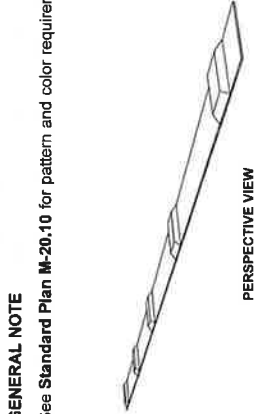
**PROFILED PLASTIC**  
(BROKEN LINE)

FOR: CENTERLINE & LANE LINE - W = 4"  
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE - W = 4"  
REVERSIBLE LANE LINE - W = 4"  
WIDE BROKEN LANE LINE - W = 8"



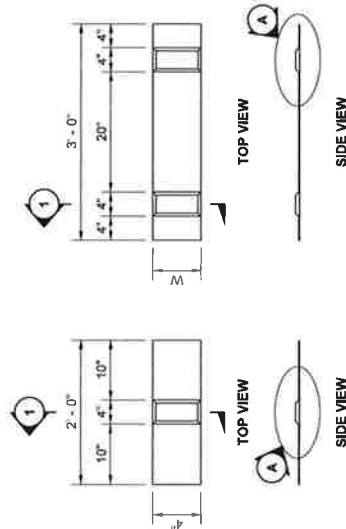
**EMBOSSED PLASTIC**  
(SOLID OR BROKEN LINE)

FOR: CENTERLINE & LANE LINE  
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE  
REVERSIBLE LANE LINE  
DOUBLE CENTERLINE & DOUBLE LANE LINE  
EDGE LINE & SOLID LANE LINE



**PROFILED PLASTIC**  
(SOLID LINE)

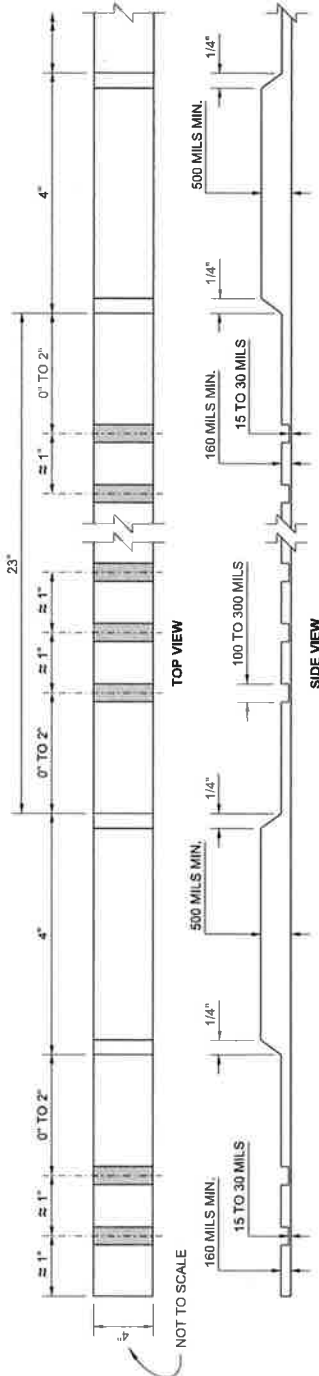
FOR: NO-PASS LINE - W = 4"  
TWO-WAY LEFT-TURN CENTERLINE & DOUBLE LANE LINE - W = 4"  
EDGE LINE & SOLID LANE LINE - W = 4"  
WIDE LANE LINE & WIDE LINE - W = 8"  
DOUBLE WIDE LANE LINE - W = 8"  
BARRIER CENTERLINE - W = 20"



**DOTTED EXTENSION LINE**

FOR: DOTTED LANE LINE - W = 4"  
WIDE DOTTED LANE LINE - W = 8"

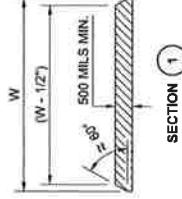
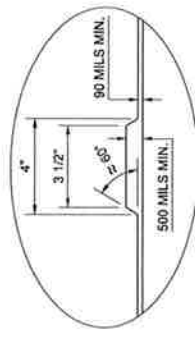
**PROFILED PLASTIC**  
(BROKEN LINE)



**PROFILED EMBOSSED PLASTIC**  
(SOLID OR BROKEN LINE)

FOR: CENTERLINE & LANE LINE  
NO-PASS LINE  
TWO-WAY LEFT-TURN CENTERLINE

FOR: REVERSIBLE LANE LINE  
DOUBLE CENTERLINE & DOUBLE LANE LINE  
EDGE LINE & SOLID LANE LINE



Walsh, Brian  
Apr 16 2015 2:27 PM  
USA

**PROFILED AND EMBOSSED PLASTIC LINES**  
**STANDARD PLAN M-20-20-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Apr 20 2015 10:07 AM



**NOTES**

1. Raised Pavement Markers Types 2YY and 2W shall be spaced at 80' (ft) intervals on tangents and on horizontal curves with a radius of 1500' (ft) or more, and at 40' (ft) intervals on horizontal curves having radii of less than 1500' (ft). Center the RPMs in the gaps between the pavement marking lines.
2. Type 2Y RPMs, when specified, shall be placed outside the left Edge Line at 80' (ft) intervals. See "LEFT EDGE OF LANE PLACEMENT DETAIL."
3. Recessed pavement markers, when specified, shall be installed at the locations shown for Type 2W RPMs on multilane one-way roadways, and Type 2Y RPMs on two-lane two-way roadways.
4. The Type 2W RPMs placed on multilane one-way roadways and all RPMs set in recesses shall have an abrasion-resistant coating.
5. Do not recess side-to-side RPMs on Wide Dotted Lane Lines.

TYPE 2 RPM RAISED FACE COLORS	
TYPE 2YY	YELLOW AND YELLOW
TYPE 2W	WHITE - ONE SIDE ONLY
TYPE 2Y	YELLOW - ONE SIDE ONLY



*Walsh, Brian*  
 Feb 29 2016 10:18 AM  
**LONGITUDINAL MARKING<sup>®</sup>**  
**SUPPLEMENT WITH RAISED**  
**PAVEMENT MARKERS**  
**STANDARD PLAN M-20.30-04**

SHEET 1 OF 2 SHEETS

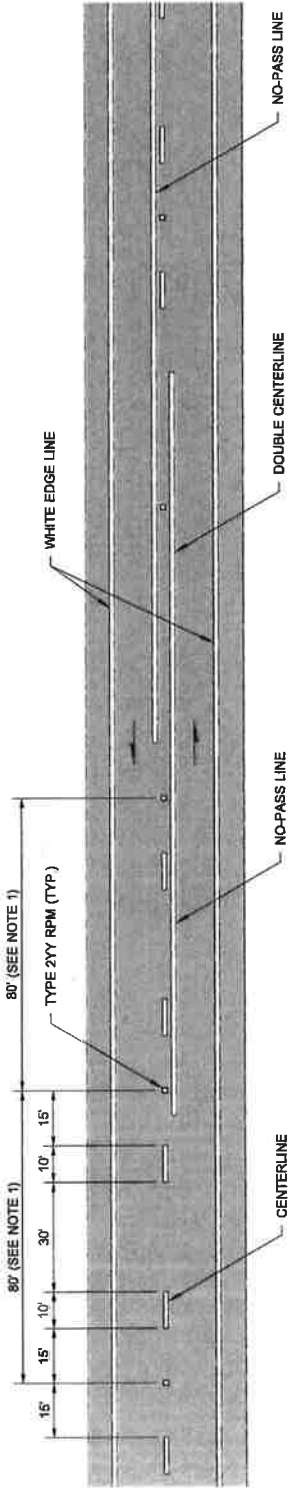
APPROVED FOR PUBLICATION

Carpeniter, Jeff

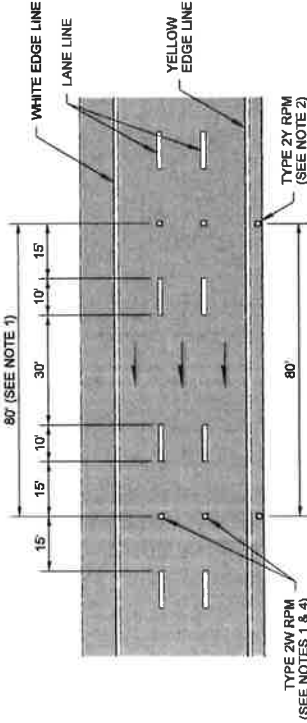
Feb 29 2016 12:39 PM

STATE DESIGN ENGINEER

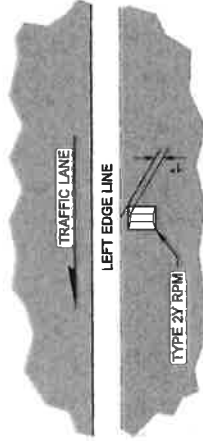
Washington State Department of Transportation



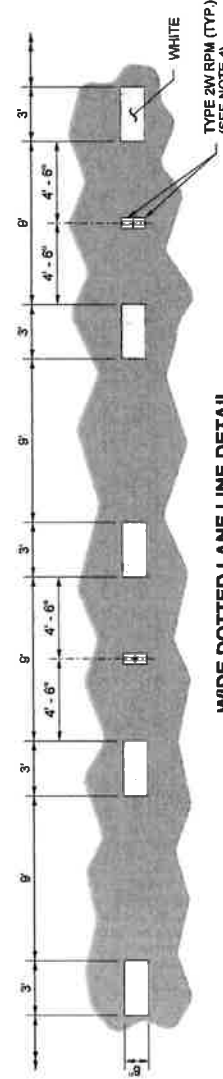
**TWO-LANE TWO-WAY TRAFFIC**



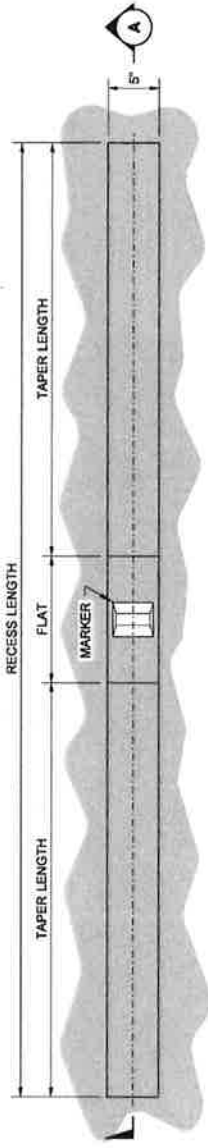
**MULTILANE ONE-WAY TRAFFIC**



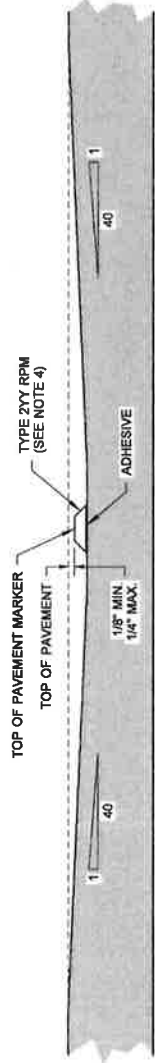
**LEFT EDGE OF LANE PLACEMENT DETAIL**  
 (SEE NOTE 2)



**WIDE DOTTED LANE LINE DETAIL**  
 (SEE NOTE 5)

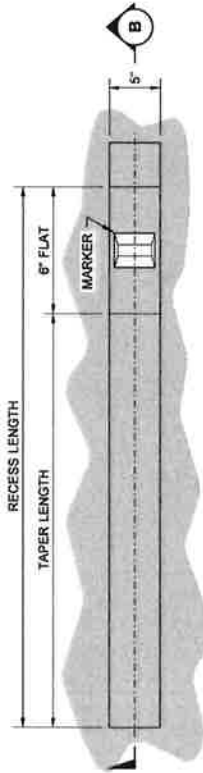


PLAN VIEW

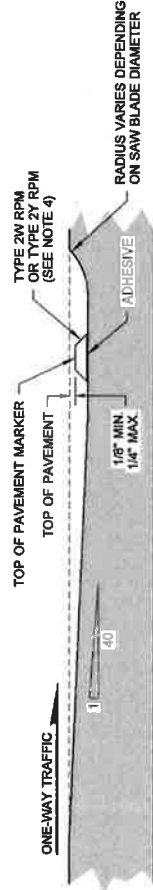


SECTION A

**TWO-WAY ROADWAY RECESSED PAVEMENT MARKER DETAILS**  
FOR USE WHERE SPECIFIED IN CONTRACT



PLAN VIEW



SECTION B

**ONE-WAY ROADWAY RECESSED PAVEMENT MARKER DETAILS**  
FOR USE WHERE SPECIFIED IN CONTRACT

DRAWN BY: COLBY FLETCHER



*Brian Walsh, Engineer*  
Feb 29 2016 10:20 AM  
**LONGITUDINAL MARKING  
SUPPLEMENT WITH RAISED  
PAVEMENT MARKERS**  
**STANDARD PLAN M-20.30-04**

SHEET 2 OF 2 SHEETS

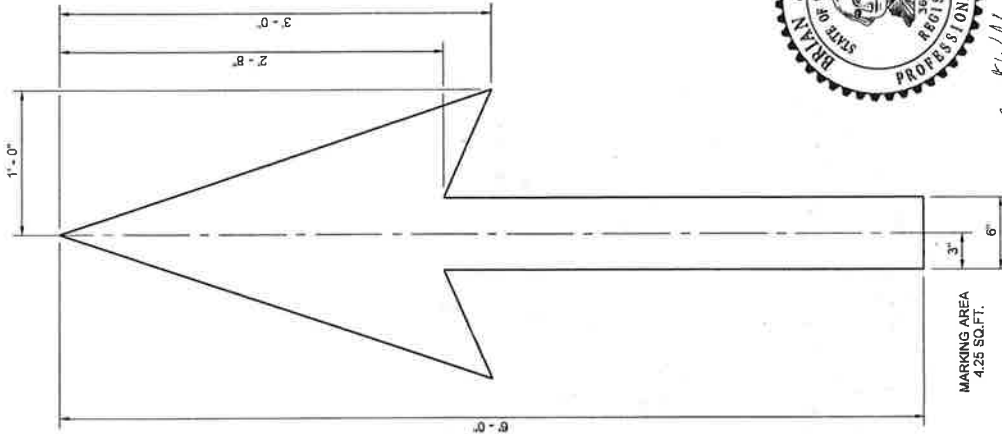
APPROVED FOR PUBLICATION

*Jeff Carpenter, J.E.T.*

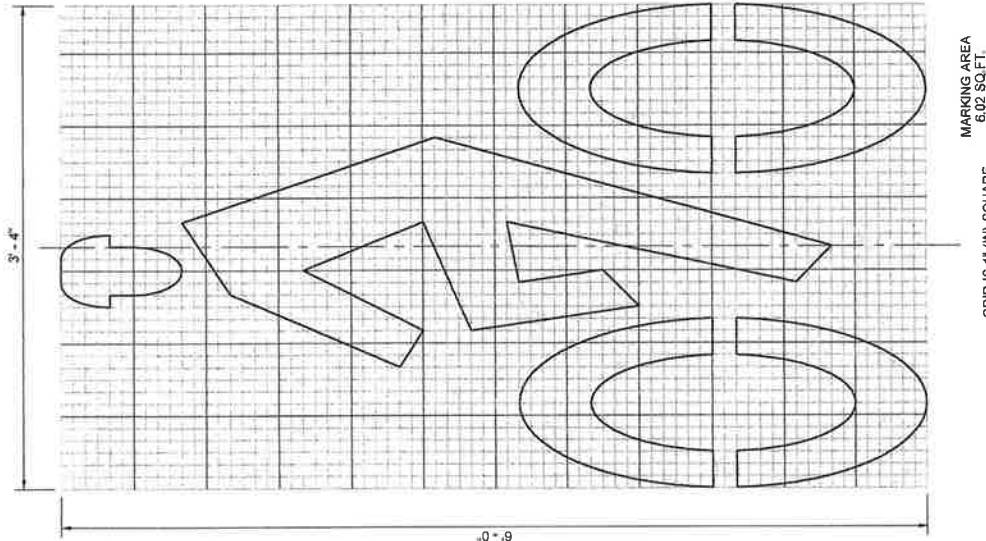
Feb 29 2016 12:39 PM

STATE DESIGN ENGINEER

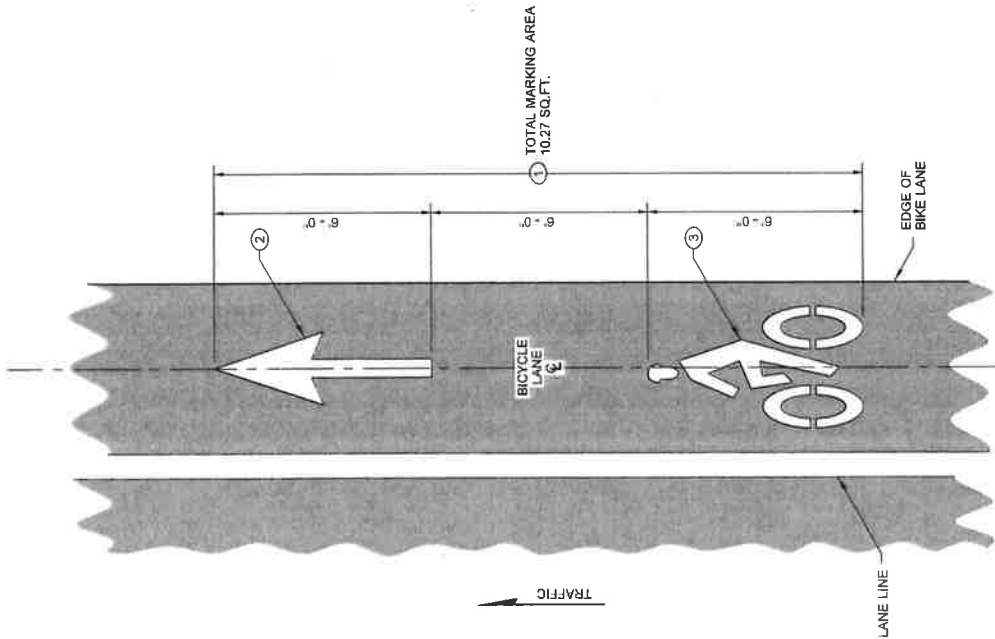
Washington State Department of Transportation



**BIKE LANE ARROW  
DETAIL**



**BIKE RIDER SYMBOL  
DETAIL**



**BIKE LANE SYMBOL  
LAYOUT**

**KEY NOTES**

- ① Bid Item "Bicycle Lane Symbol" includes Bike Lane Arrow and Bike Rider Symbol.
- ② 2' (ft) x 6' (ft) White Bike Lane Arrow.
- ③ Bike Rider Symbol.

**GENERAL NOTE**

See Contract for location and material requirements.



*Bryan Walsh*  
Walsh, Brian  
Jun 24 2014 1:53 PM

**BIKE LANE SYMBOL  
LAYOUT**

**STANDARD PLAN M-9.50-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

R. B. B. B.

Jun 24 2014 4:42 PM

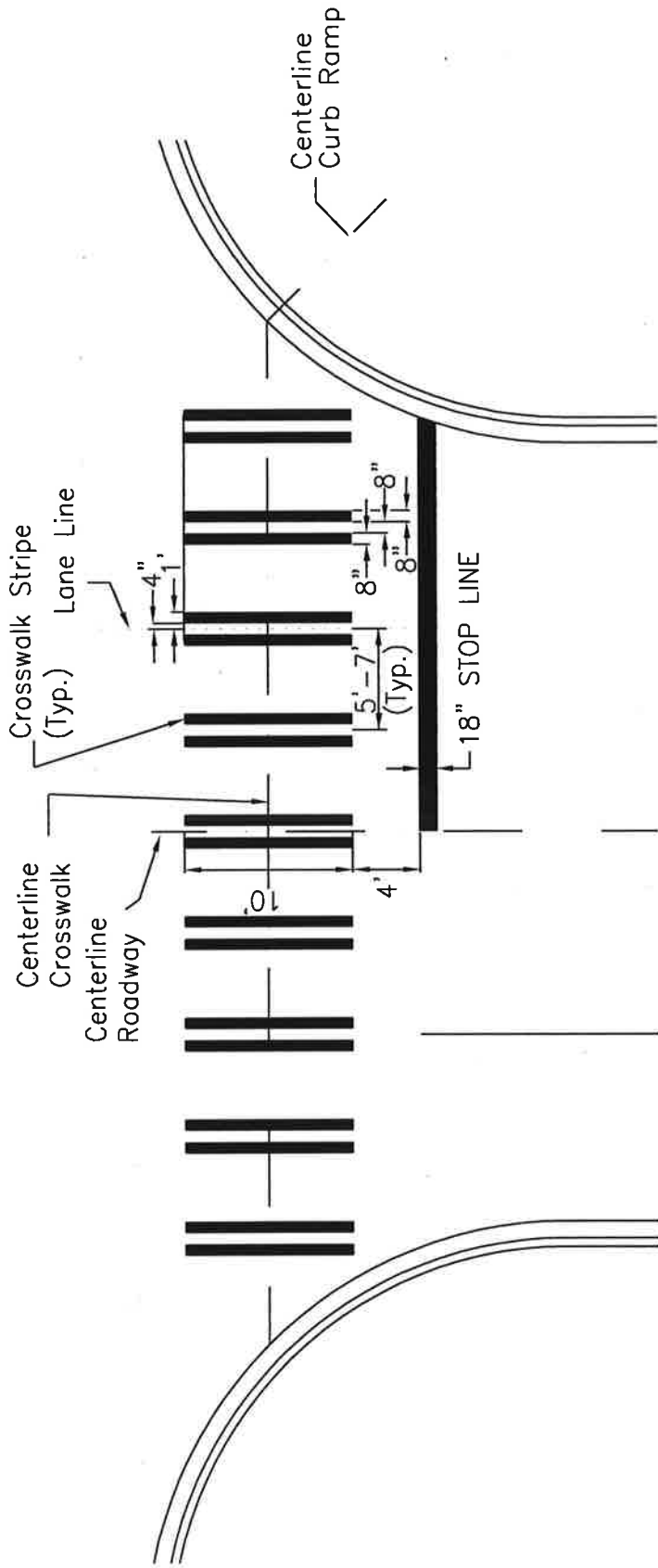
STATE DESIGN ENGINEER

Washington State Department of Transportation



**Figure 9C-7. Bicycle Detector Pavement Marking**





CROSSWALK STRIPE DETAIL

TRAFFIC ARROWS TYPE 1S, 2SL, 2SR, 3SL, 3SR, 4S, AND 5S - SEE WSDOT STANDARD PLAN M-24.40  
 "SHARKS TOOTH" YIELD LINE SYMBOL - SEE WSDOT STANDARD PLAN M-24.60  
 HANDICAPPED PARKING STALL SYMBOL - SEE WSDOT STANDARD PLAN M-24.60  
 BIKE LANE SYMBOL - SEE WSDOT STANDARD PLAN M-9.50  
 PREFERENTIAL LANE SYMBOL - SEE WSDOT STANDARD PLAN M-7.50

Rev. NOV 2014



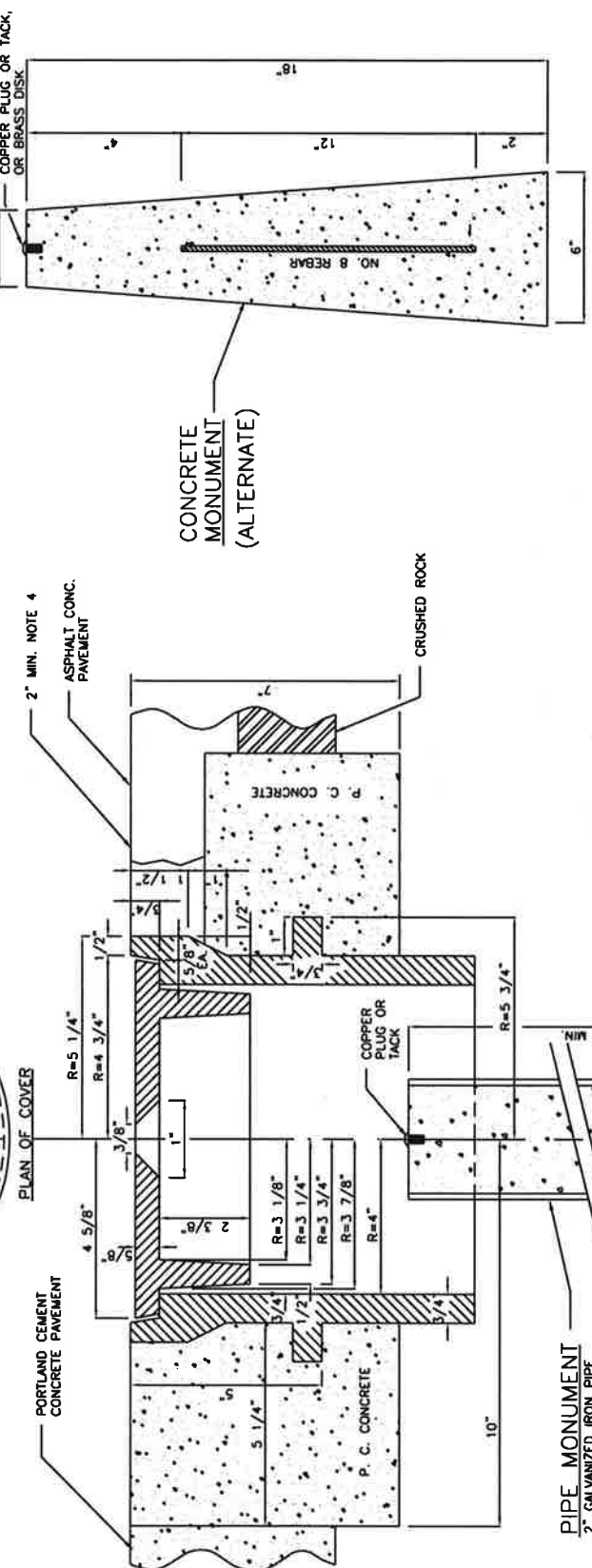
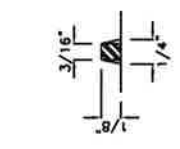
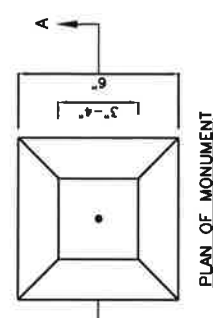
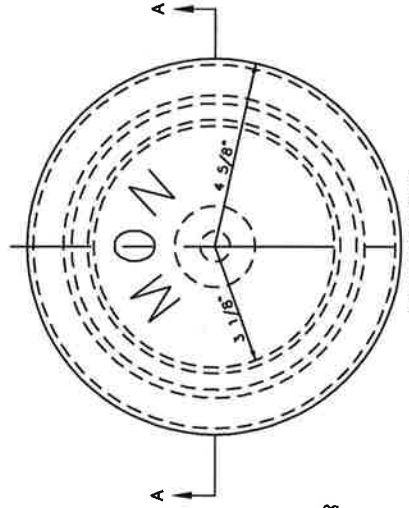
PUBLIC WORKS

MISCELLANEOUS PAVEMENT MARKINGS

DWG. NO. 3-21

NOTES:

1. CASTINGS SHALL BE GRAY IRON ASTM A48, AASHTO M 105, CLASS 30.
2. COVER AND SEAT SHALL BE MACHINED FOR PERFECT CONTACT AROUND CIRCUMFERENCE AND FULL WIDTH OF BEARING SURFACE.
3. APPROXIMATE WEIGHTS, STANDARD.  
 CASE 60 LBS  
 COVER 19 LBS  
 TOTAL 79 LBS
4. PAVEMENT SHALL BE ASPHALT CONCRETE OR APPROVED SUBSTITUTE.
5. CONCRETE SHALL BE CLASS 4000.
6. SEE SECTION 3.B.5.
7. COVER LETTERING MAY READ MONUMENT OR MON



SECTION B-B

ESTABLISHMENT AND/OR RE-ALIGNMENT OF A ROADWAY/RIGHT-OF-WAY CENTERLINE REQUIRE THAT MONUMENTS BE SET PER SECTION 3.8.5 OF THE PUBLIC WORKS DEVELOPMENT STANDARDS. ALL NEW MONUMENTS SHALL BE DOCUMENTED WITH A RECORD OF SURVEY AND CITY OF FEDERAL WAY MONUMENT RECORD FORM (DETAIL 3-37).  
 EXCEPTION: ROADWAY MONUMENTS THAT ARE SET/ESTABLISHED AS PART OF A RECORDED SUBDIVISION.

REV. APR 2012



PUBLIC WORKS

# ROADWAY SURVEY MONUMENT WITH CASE

DWG. NO. 3-36

SERIES CONNECTED  
LOOP 1-2  
COUNT DETECTOR LOOP 3  
(DRAWING NOT TO SCALE)

POSTED SPEED (MPH)	* S1(FT)	* S2(FT)
25	--	105
30	-	140
35	--	185
40	115	230
45	155	285
50	195	340

NOTES:

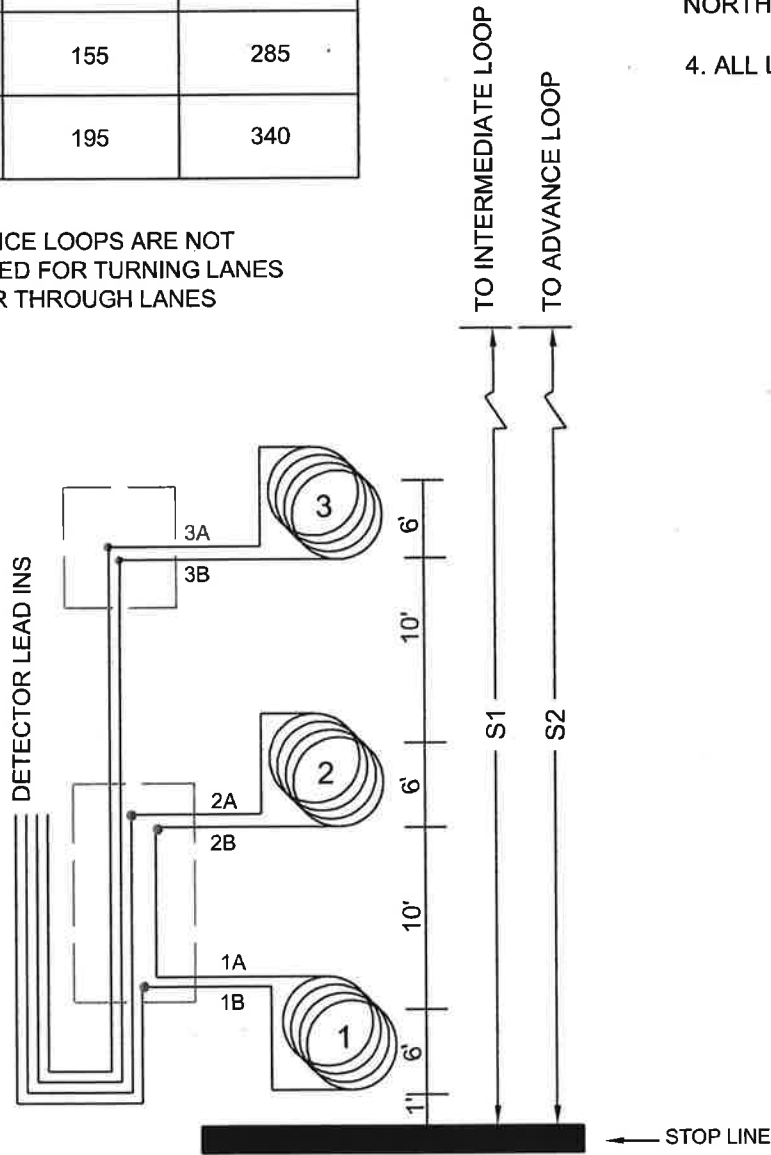
1. USE XYZ LOOP NUMBERING SCHEMATIC, WHERE:  
X IS THE PHASE #  
Y IS LANE # FROM INSIDE  
Z IS LOOP # FROM STOPBAR

2. USE 3' X 25' LOOP FOR BIKE LANES

3. PHASE 2 IS ALWAYS NORTHBOUND THRU DIRECTION

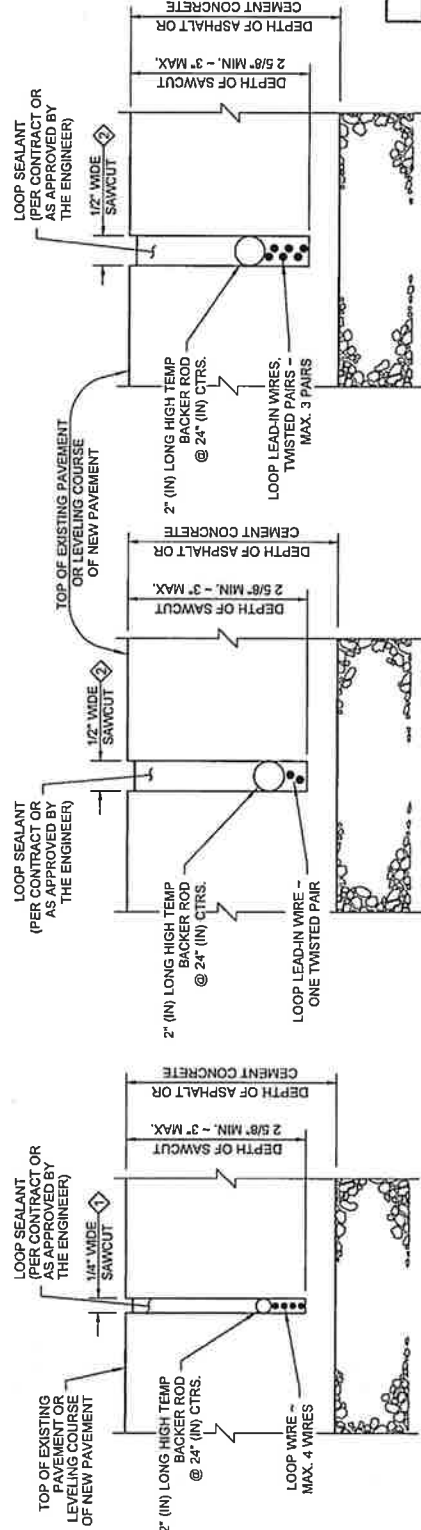
4. ALL LOOPS SHALL BE CIRCULAR

\* ADVANCE LOOPS ARE NOT REQUIRED FOR TURNING LANES & MINOR THROUGH LANES



REV MAR 2011

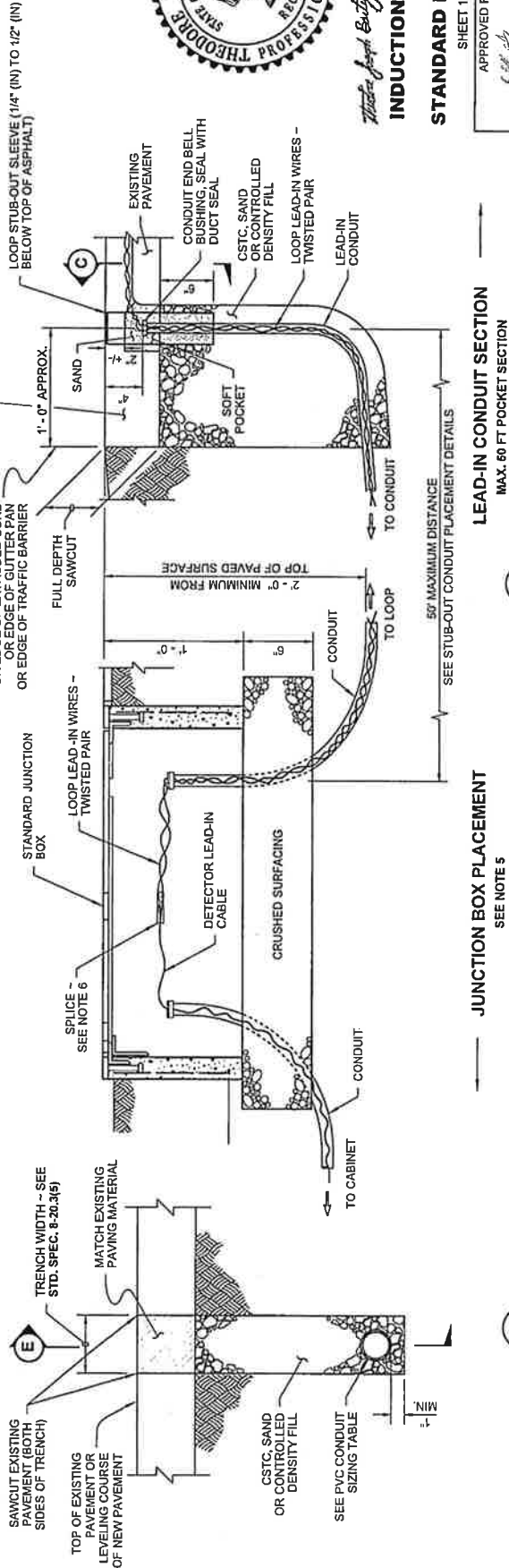
- NOTES**
1. Fill the conduit trench to the bottom of the existing or new surfacing with CSTC, sand or controlled density fill. See Standard Specifications Section 2-09.3(f)E.
  2. Minor Regional variations are allowed in the soft pocket closure. Consult with the Engineer or see the Contract for additional requirements.
  3. Conductors shall be snug to the bottom of the sawcut. High temperature backer rod shall be snug to the conductors and sides of cut.
  4. Fill the sealant to within 1/8" (in) to 3/16" (in) from top of saw cut.
  5. See Standard Plan J-40.10 for additional Junction Box details.
  6. See Standard Plan J-50.05 for splice details.



**PVC CONDUIT SIZING TABLE**

LOOP LEAD PAIRS	1-4	5-10	11-16	17-22	23-28
NUMBER AND SIZE OF CONDUITS	1-2"	2-2"	3-2"	4-2"	3-3"

- ① ADD 1/16" (IN) TO THE SAWCUT FOR IMSA 51 - 7 CONDUCTORS
- ② ADD 1/8" (IN) TO THE SAWCUT FOR IMSA 51 - 7 CONDUCTORS



SECTIONS A AND B FROM STANDARD PLAN J-50.10, J-5-11, OR J-50.12



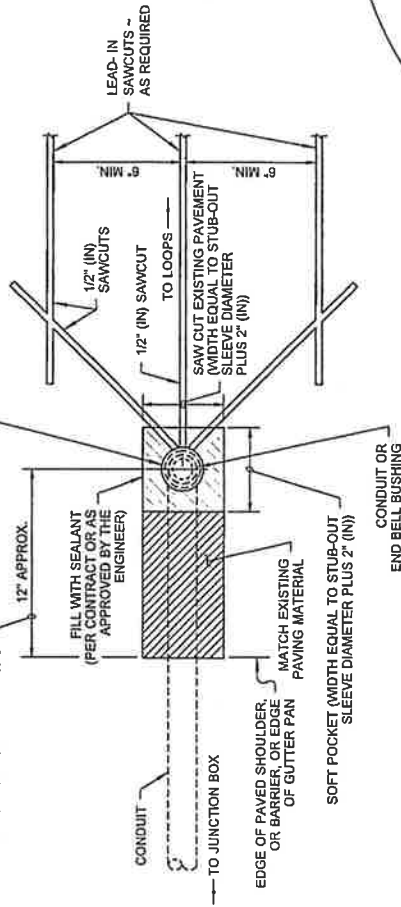
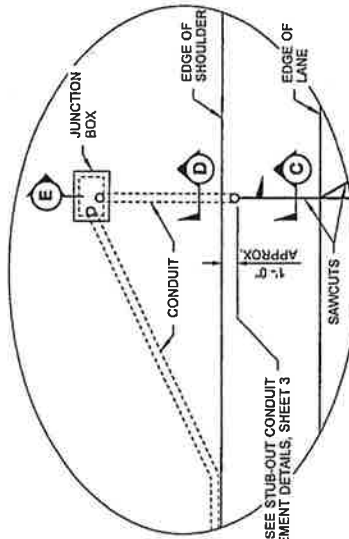
Joseph Bailey  
Bailey, Ted  
July 18 2017 9:57 AM  
INDUCTION LOOP DETAILS

STANDARD PLAN J-50.15-01  
SHEET 1 OF 3 SHEETS

APPROVED FOR PUBLICATION  
 State Engineer  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

**LOOP INSTALLATION NOTES**

1. Install the Junction Box and the stub-out conduit with Sch. 80 PVC stub-out sleeve. Conduit for the loop stub-out shall be as required in the conduit size table shown on sheet 1 of this set.
2. Lay out loops and loop lead-ins to miss cracks/joints in road, when possible. Maintain 18" (in) minimum clearance from manholes and valve boxes.
3. The opening around the loop stub shall be patched with matching paving material if opened larger than PVC sleeve + 2" (in).
4. Sawcut the loop slots and the lead-in slots. Wash/dry cuts. File edges to remove burr of all saw-cuts into stub out sleeve.
5. Lay out the loop wire starting at the Junction Box, allowing 5' (ft) minimum slack.
6. Install the wire in the loop slot as shown.
7. Finish laying out the wire at the Junction Box and identify the leads with the loop number, the "S" for start and the "F" for the finish, the loop series number, and the loop lead-in conductor number.
8. Twist each pair of the lead-in wires a minimum of two times per foot each foot from the loop to the Junction Box. Reverse the direction of the twist for each successive pair installed. Seal loops/sawcuts.
9. Construct a supplemental splice containing any series loop connections in the adjacent junction box as required in the plans. Supplemental splices are subject to the same requirements shown for the loop lead-in and the shielded cable splice.
10. Splice the loop lead-ins to the shielded cable as noted in the Contract. See Standard Plan J-50.05 for Loop Splice details.
11. All loop circuits shall be tested per Standard Specification Section 8-20.3(14)D once installation is complete.
12. Existing stub-out shall be upgraded as necessary to conform to the conduit size table shown on sheet 1.
13. All loop lead-in sawcuts parallel to lane edge shall be at least 12" (in) from edge of pavement and within six inches outside of lane or fog line when possible. Maintain 12" (in) separation between parallel cuts or joints.
14. The loop stub-out sleeve shall have an inside diameter 4" (in) larger than the outside diameter of the End Bell Bushing. Sleeve shall be notched 5/8" (in) to 3/4" (in) to accommodate loop wires. Plug conduit and fill sleeve with sand until loops are installed to keep out Hot Asphalt during paving operations.



**PLAN SAWCUT AND CONDUIT CONNECTION**



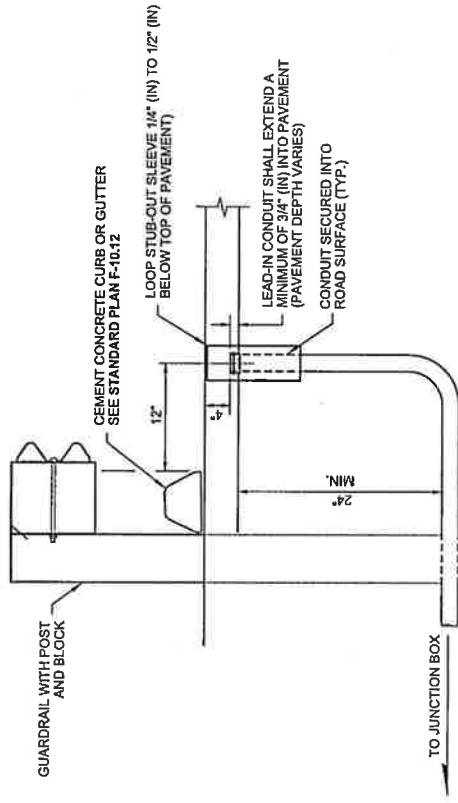
*Theodor Joseph Bailey*  
Bailey, Ted  
Jul 18 2017 9:57 AM

**INDUCTION LOOP DETAILS**

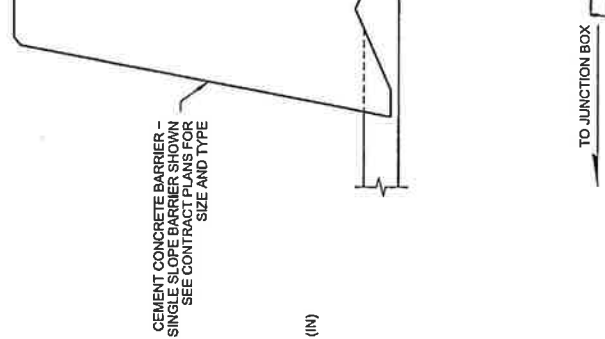
**STANDARD PLAN J-50.15-01**

SHEET 2 OF 3 SHEETS

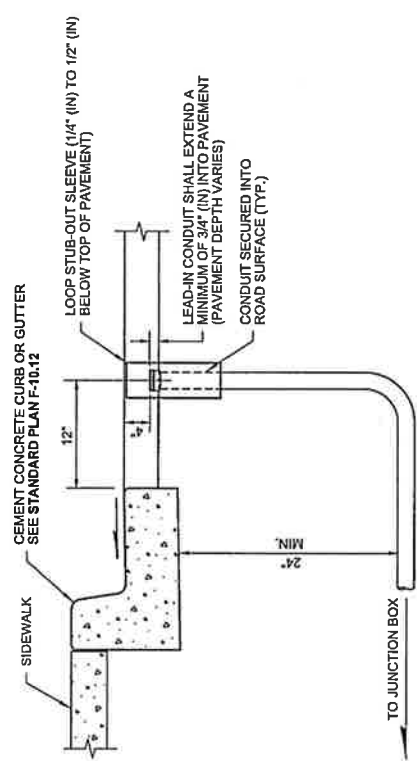
APPROVED FOR PUBLICATION  
*Jeffery J. ...*  
 Engineer, JEF  
 Jul 21 2018 12:48 AM  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation



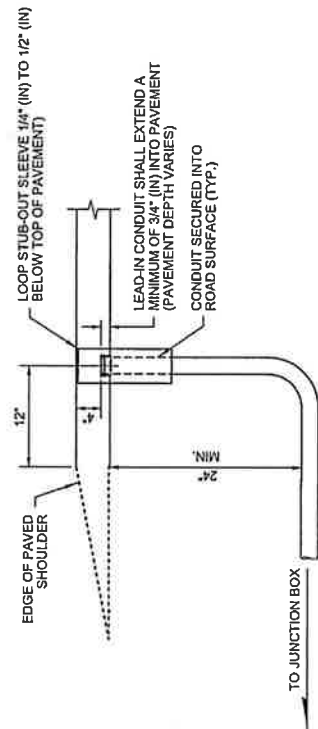
STUB-OUT DETAIL WITH GUARDRAIL AND CURB



STUB-OUT DETAIL WITH CEMENT CONCRETE BARRIER



STUB-OUT DETAIL WITH CEMENT CONCRETE CURB OR GUTTER



STUBOUT CONDUIT PLACEMENT DETAILS

STUB-OUT DETAIL WITH ROADWAY

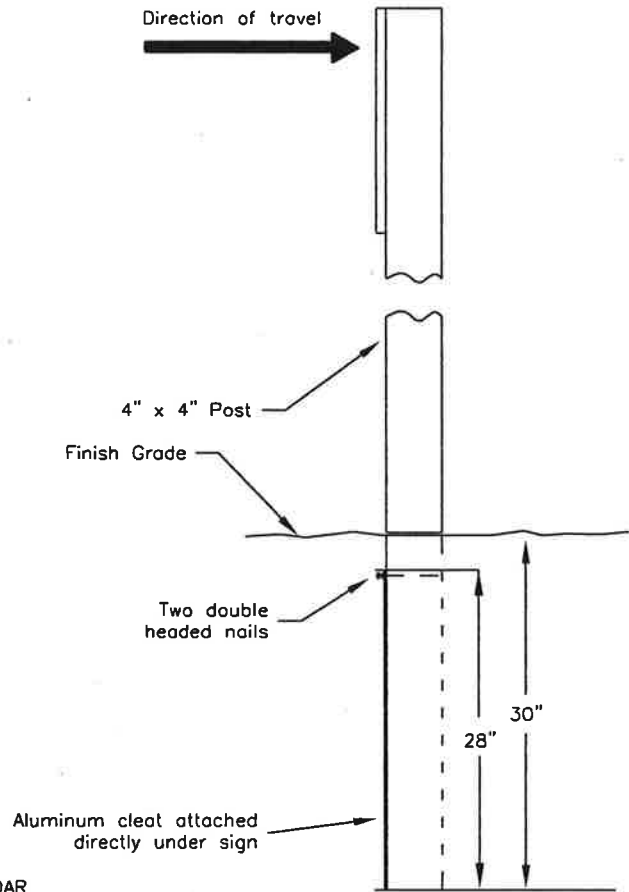
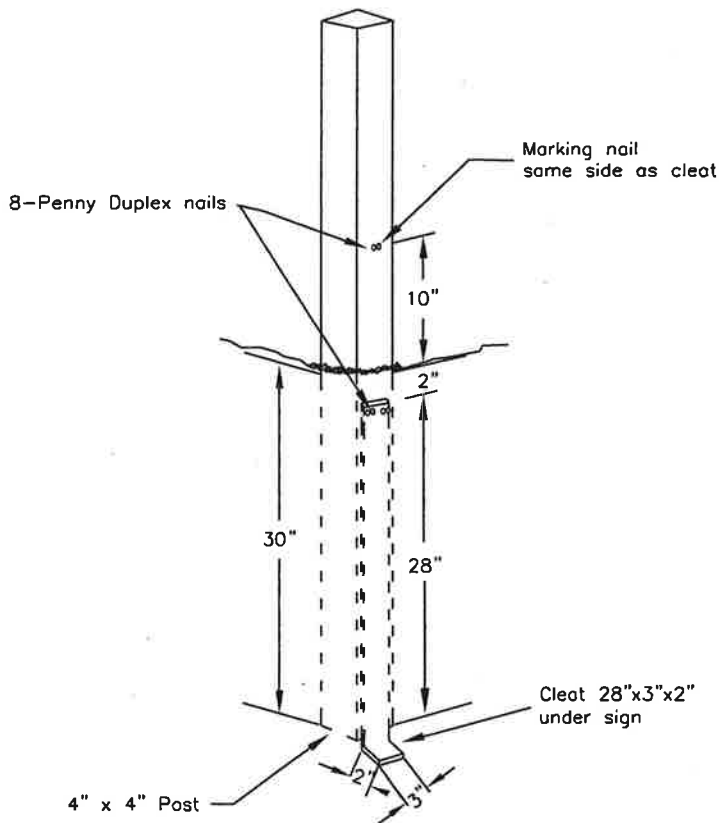


Joseph Bailey  
Bailey, Ted  
Jul 18 2017 9:57 AM

**INDUCTION LOOP DETAILS**

**STANDARD PLAN J-50.15-01**  
SHEET 3 OF 3 SHEETS

APPROVED FOR PUBLICATION  
DATE: 08/14/18  
BY: [Signature]  
STATE DESIGN ENGINEER  
Washington State Department of Transportation



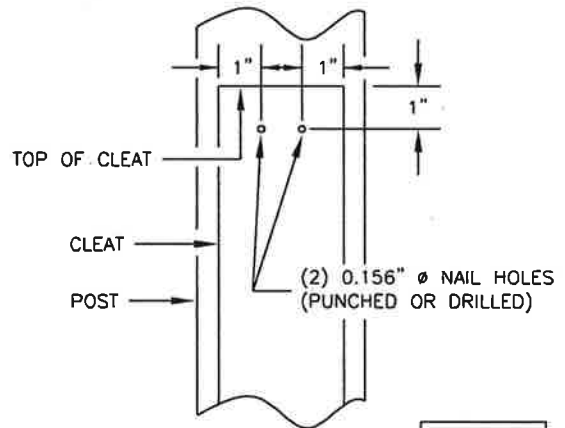
**NOTES:**

**SIGN POSTS -**

- 1) ALL GROUND MOUNTED SIGN POSTS SHALL USE WESTERN RED CEDAR OR PRESSURE TREATED FIR UNLESS APPROVED OTHERWISE BY PUBLIC WORKS.
- 2) POST GRADE (FIR) SHALL BE S4S DOUGLAS FIR LUMBER, WEST COAST INSPECTION BUREAU GRADE #2, STRUCTURAL LIGHT FRAMING, RULE #16, PARAGRAPH 124-C, SELECTED FOR STRAIGHTNESS, AND FREE OF HEART CENTER (FOHC) WOOD TO RESIST TWISTING.
- 3) PRESSURE TREATED POSTS SHALL BE TREATED WITH A 4-1/2% TO 5-1/2% HEAVY PETROLEUM SOLVENT PENTACHLOROPHENOL SOLUTION IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO DESIGNATION M133, WITH A MINIMUM NET RETENTION OF THE DRY SALT OF 1/2 POUND PER CUBIC FOOT OF WOOD.
- 4) POSTS SHALL BE 4"x 4", WITH A MINIMUM LENGTH OF 12 FEET. LONGER POSTS MAY BE NEEDED TO MAINTAIN 8- FEET OF VERTICAL CLEARANCE ABOVE WALKING AREAS. POSTS SHALL BE 14 FEET IF TRAFFIC CONTROL SIGNS WILL BE INSTALLED ON THE SAME POST.
- 5) BACKFILL SHALL BE COMPACTED AT SEVERAL LAYERS TO MINIMIZE SETTLING.
- 6) ALL POSTS SHALL BE 2-WAY PLUMB.

**CLEATS -**

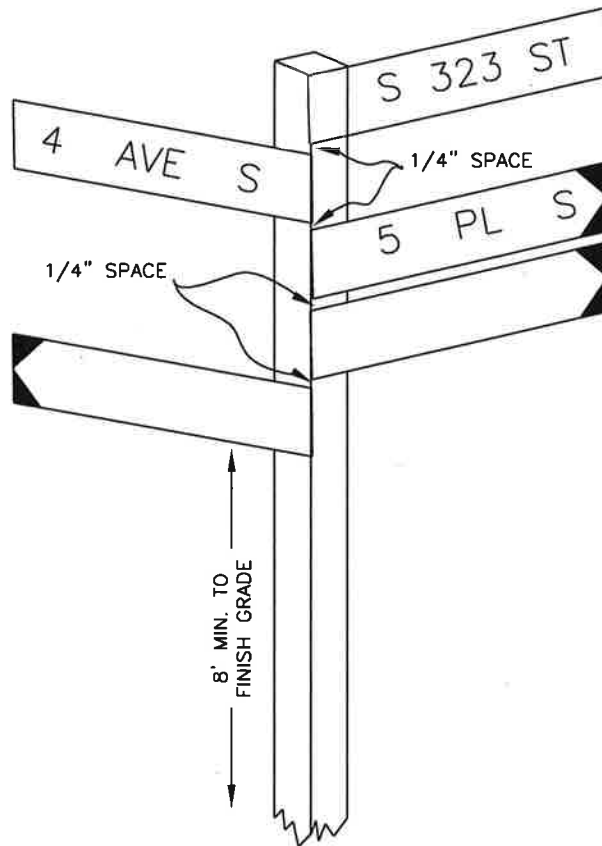
- 1) ALL POSTS SHALL BE FITTED WITH AN ALUMINUM CLEAT AS SHOWN TO PREVENT SIGNPOST ROTATION AND/OR UNAUTHORIZED POST REMOVAL.
- 2) CLEATS SHALL BE ALUMINUM ALLOY, 6061-T6, CHEMICALLY COATED IN ACCORDANCE WITH ASTM B449-67 CLASS 2.
- 3) CLEATS SHALL BE 30 INCHES LONG, 3 INCHES WIDE, THICKNESS OF 0.08, WITH A 2-INCH TURNOUT OF 90°. NAIL HOLES OF 0.156 INCHES DIAMETER SHALL BE PUNCHED OR DRILLED IN THE LOCATIONS AS SHOWN.
- 4) POSITION CLEAT TURN-OUT AWAY-FROM AND EVEN-WITH THE BOTTOM OF THE POST.



NTS

JULY 2014



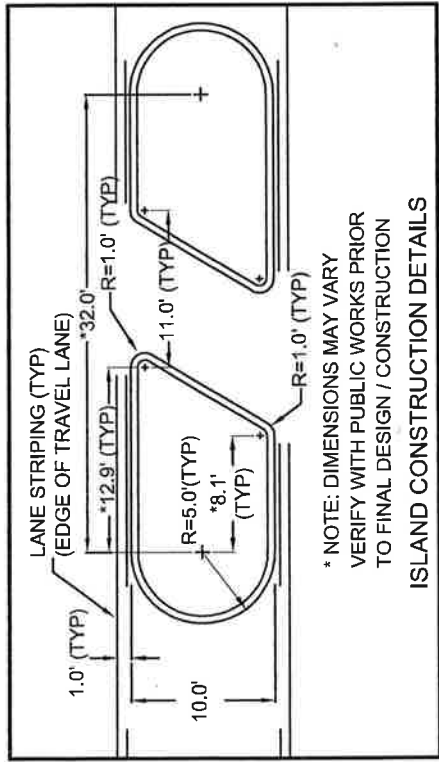


## INSTALLATION

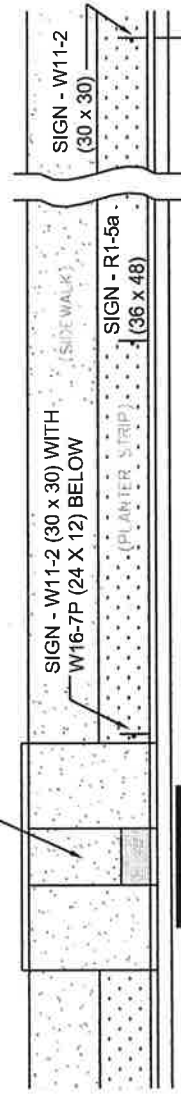
### Sign

1. A maximum of 5 street name signs or pointers shall be located on one post. Longer posts will normally be needed for more than three signs to maintain 8 feet clearance from the ground line. A 1/4 inch space should be maintained between signs on the same post.
2. Street name signs shall be located above pointers and shall be installed parallel to the street which they name. Avenue street name signs designating north-south streets should normally be on top. Wedges shall be utilized if necessary to install signs other than 90 degrees to each other.
3. Signs shall be attached perpendicular to the posts with four duplex eight-penny galvanized nails or approved sign mounting brackets.
4. Street name shall be on both sides of one sign.
5. See Drawing No. 3-51 for sign post details.

Rev. 3/2010



INSTALL RAMP AS NECESSARY  
REFER TO CITY STD. RAMP DETAILS



CURBING PAINTED YELLOW  
PER WSDOT STD. SPECS.

W11-2 WITH  
W16-7P BELOW

TYPE 2Y  
RPM (TYP)

SET 12" Ø SONOTUBE AT SIGN LOCATION  
TO 30" DEPTH FROM TOP OF FINISHED ISLAND

YIELD SYMBOLS (TYP)  
PER WSDOT STD. PLAN M-24.60  
ON MULTI-LANE APPROACH ONLY

50' IF YIELD SYMBOLS USED

CROSSWALK  
MARKINGS (TYP)

DISTANCE PER MUTCD

BACKFILL WITHIN CURBING:  
2" ASPHALT PAVEMENT  
OVER 4" CSTC  
(TYP. BOTH ISLANDS)

(SIDE WALK)

NOTE: ALL SIGNS SHALL BE FLOURESCENT  
YELLOW-GREEN BACKGROUND EXCEPT R1-5a

W11-2 (30 x 30) WITH  
W16-7P (24 x 12) BELOW

R1-5a (36 x 48)

INSTALL RAMP AS NECESSARY  
REFER TO CITY STD. RAMP DETAILS

REV. JUL 2016

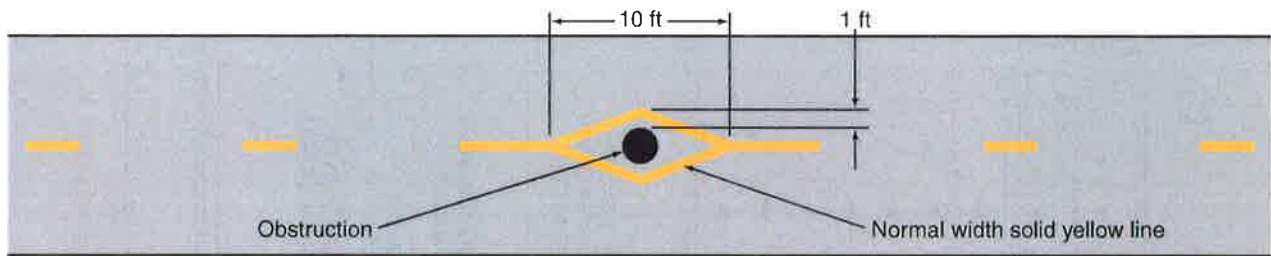
**CITY OF Federal Way**

PUBLIC WORKS

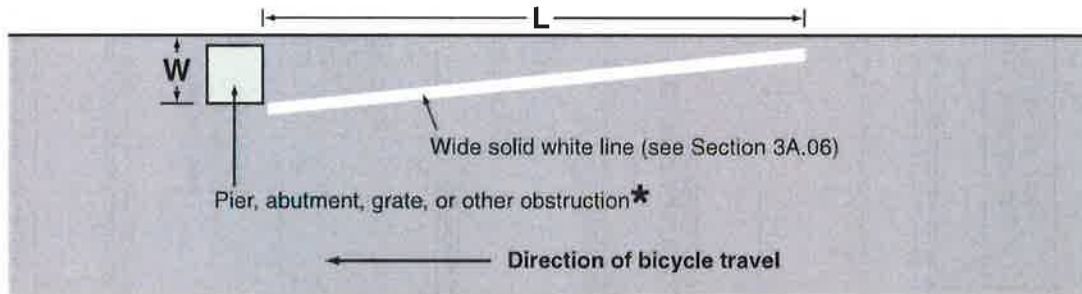
**PEDESTRIAN REFUGE ISLAND  
AND CROSSWALK - MID-BLOCK**

DWG. NO.  
**3-58**

**Figure 9C-8. Examples of Obstruction Pavement Markings**



**A - Obstruction within the path**

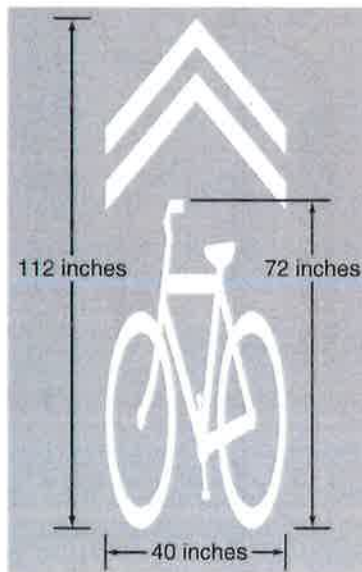


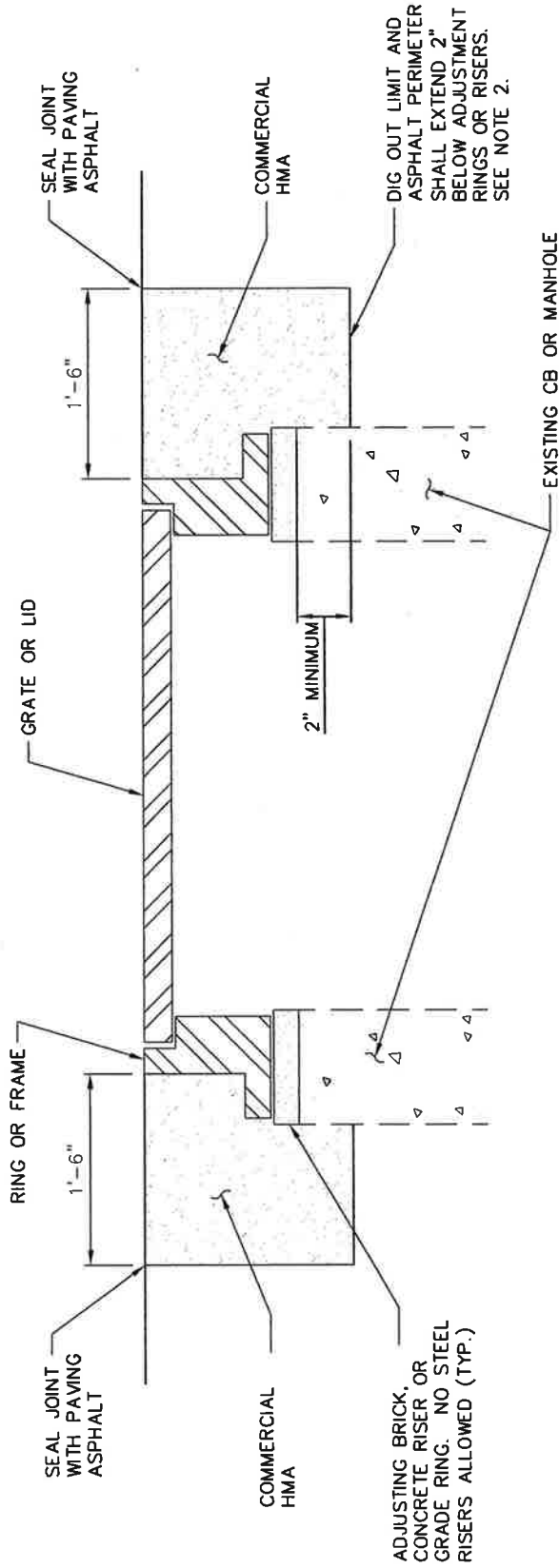
**B - Obstruction at edge of path or roadway**

$L = WS$ , where  $W$  is the offset in feet and  $S$  is bicycle approach speed in mph

★ Provide an additional foot of offset for a raised obstruction and use the formula  $L = (W+1) S$  for the taper length

**Figure 9C-9. Shared Lane Marking**





SECTION THROUGH STRUCTURE  
NTS

NOTES:

- 1) THE EXISTING STRUCTURE SHALL BE RAISED OR LOWERED TO THE REQUIRED ELEVATION USING CONCRETE BLOCKS, BRICK, AND/OR CONCRETE RINGS. EACH JOINT SHALL BE GROUTED USING A 3/4 INCH LAYER OF NON-SHRINK MORTAR, PLASTERED SMOOTH INSIDE AND OUT. COVERS SHALL BE SEATED ON A UNIFORM LAYER OF GROUT TO PREVENT ROCKING.
- 2) IF RISERS OR GRADE RINGS ARE LESS THAN 2" THICK, THEN THE DIG-OUT LIMITS (AND HMA DEPTH) SHALL BE EXTENDED TO 2" BELOW THE NEXT RING OR RISER THAT IS GREATER THAN 2" THICK.
- 3) HMA SHALL BE MECHANICALLY COMPACTED IN 3" MAXIMUM LIFTS.
- 4) SEE DETAIL 3-36 FOR ADJUSTMENT OF SURVEY MONUMENT CASTINGS.

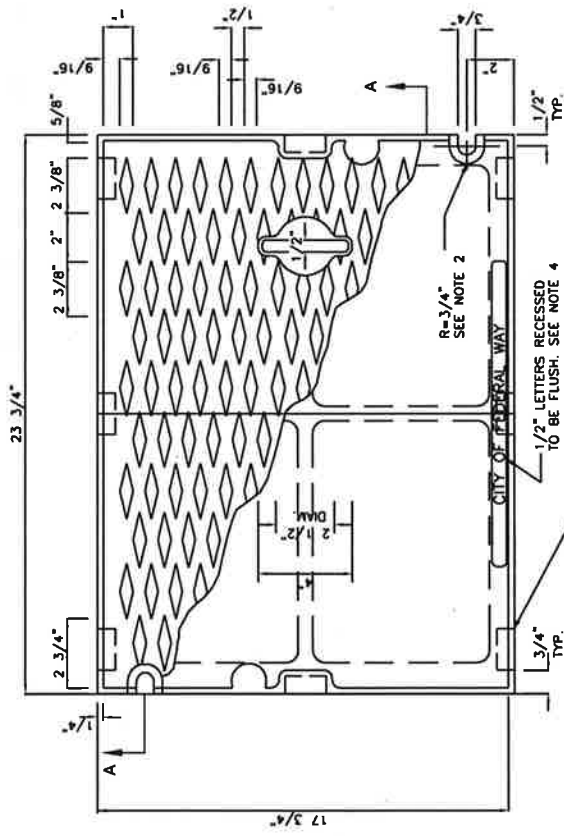
REV: NOV 2011



PUBLIC WORKS

UTILITY ADJUSTMENT

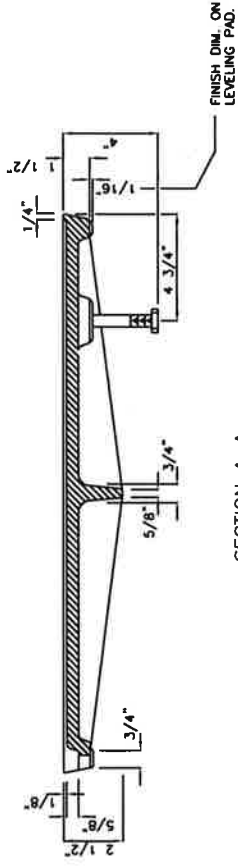
DWG. NO.  
3-55



NOTES:

1. USE WITH FRAME DRILLED AND TAPPED FOR LOCKING BOLTS.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, 2" LONG.
3. MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
4. THE WORDS "CITY OF FEDERAL WAY" TO BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

PLAN COVER



SECTION A-A

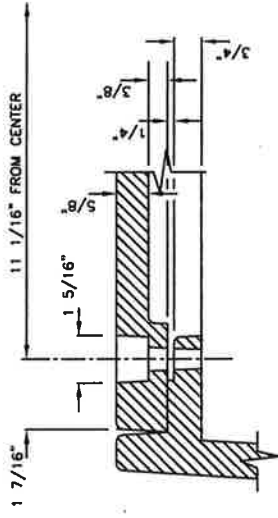
REV MAR 2011

DWG. NO.  
4-7

SOLID RECTANGULAR COVER

PUBLIC WORKS

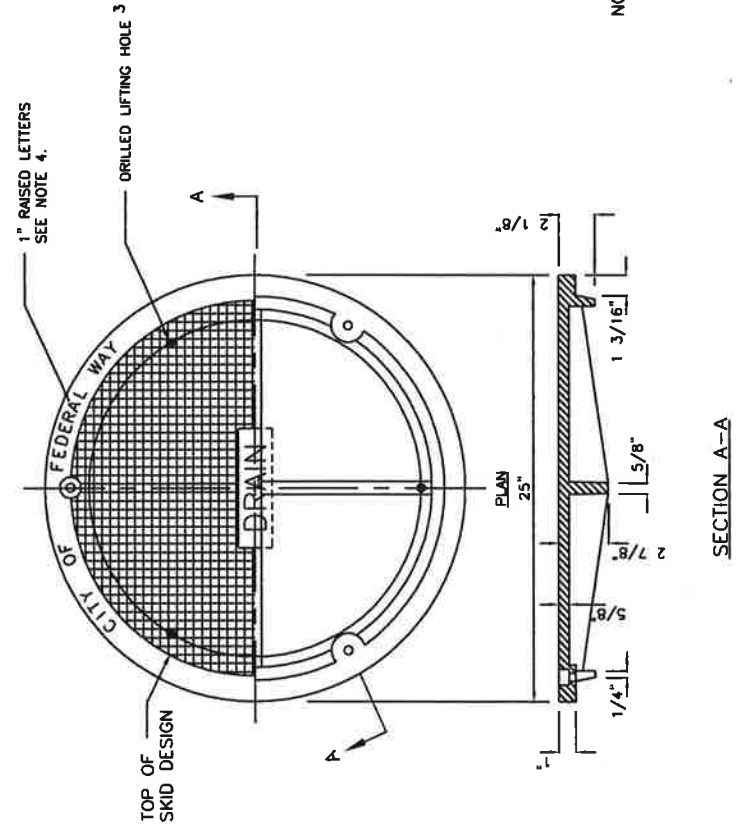




BOLT-DOWN DETAIL



COVER SKID DESIGN DETAIL



SECTION A-A

REV MAR 2011

NOTES:

1. USE WITH THREE LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2" LONG. DRILL HOLES SPACED 120° AT 1 1/16" RADIUS.
2. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06
3. DRILL THREE 1 INCH HOLES SPACED AT 120° AND 9 1/2" RADIUS.
4. THE WORDS "CITY OF FEDERAL WAY" SHALL BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

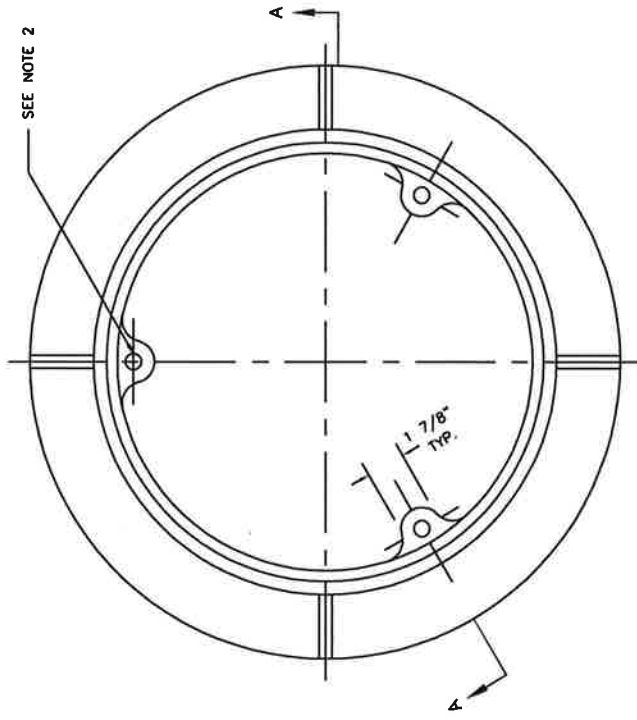
REV MAR 2011



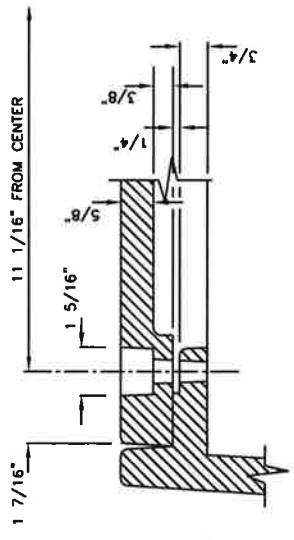
PUBLIC WORKS

ROUND LOCKING COVER

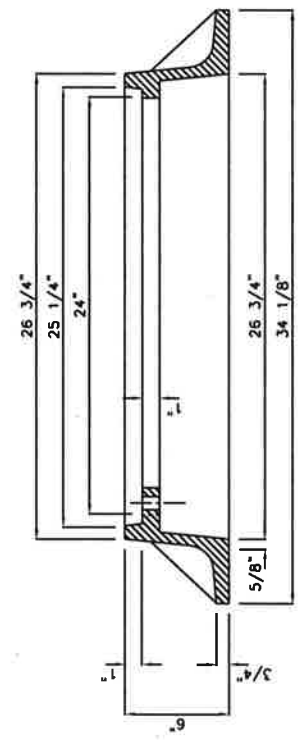
DWG. NO. 4-12



PLAN



BOLT-DOWN DETAIL



SECTION A-A

- NOTES:
1. MATERIAL IS CAST IRON ASTM A48 CLASS 30.
  2. DRILL AND TAP THREE 5/8"-11 NC HOLES THROUGH FRAME AT 120° AND 11 1/16" RADIUS.

JULY 2014

DWG. NO.  
4-13

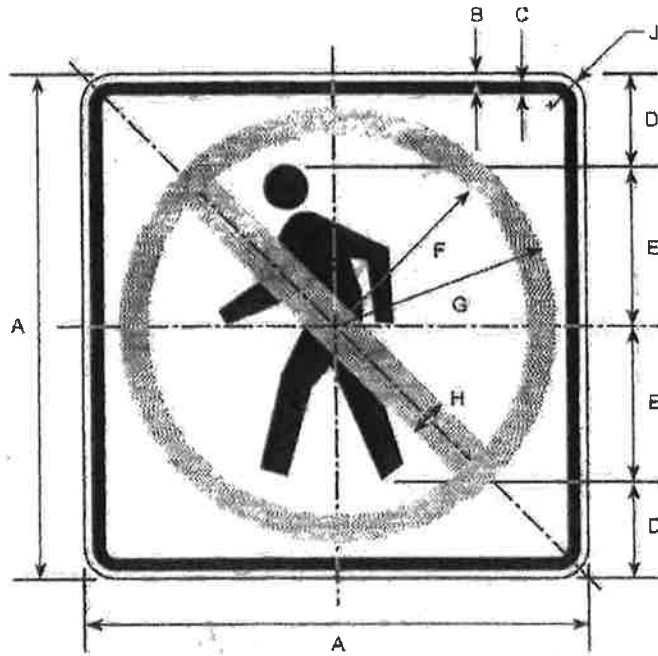
FRAME FOR ROUND LOCKING COVER

PUBLIC  
WORKS



# R9-3A

11/94



★ See appendix for standard symbol details

DIMENSIONS (MILLIMETERS)								
A	B	C	D	E	F	G	H	J
450	9	16	88	138	159	191	38	38
600	9	16	113	188	213	263	50	50
750	13	19	144	231	266	328	63	63

DIMENSIONS (INCHES)								
A	B	C	D	E	F	G	H	J
18	3/8	5/8	3 1/2	5 1/2	6 3/8	7 5/8	1 1/2	1 1/2
24	3/8	5/8	4 1/2	7 1/2	8 1/2	10 1/2	2	2
30	1/2	3/4	5 3/4	9 1/4	10 5/8	13 1/8	2 1/2	2 1/2

## COLORS

CIRCLE & DIAGONAL — RED (REFL)  
 SYMBOL & BORDER — BLACK (NON-REFL)  
 BACKGROUND — WHITE (REFL)

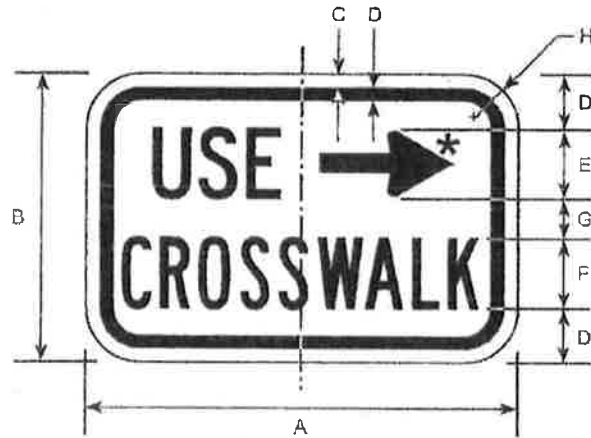


# R9-3B L/R

11/97



**R9-3B L**



**R9-3B R**

\* See appendix for standard arrow details

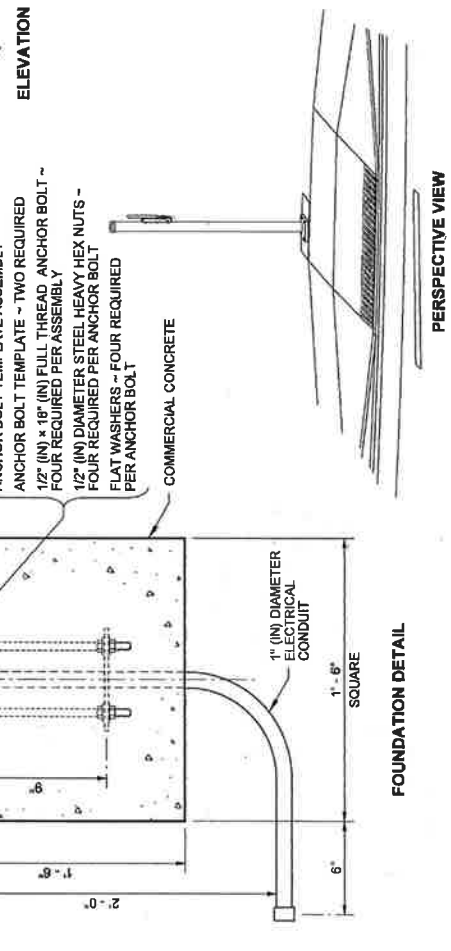
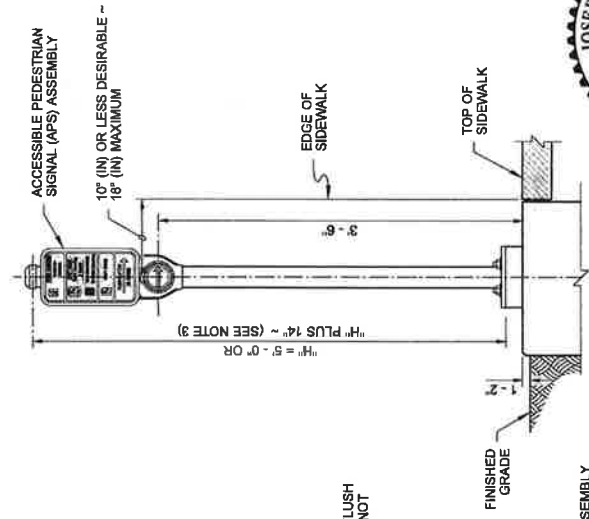
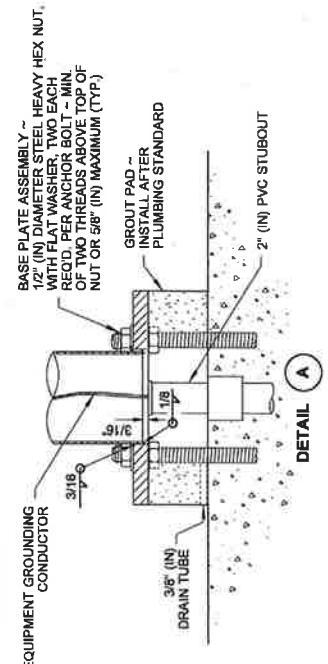
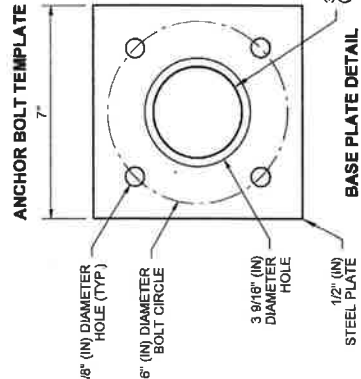
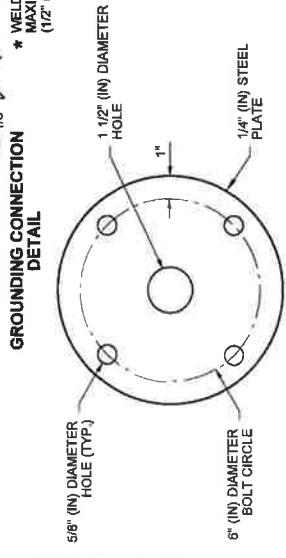
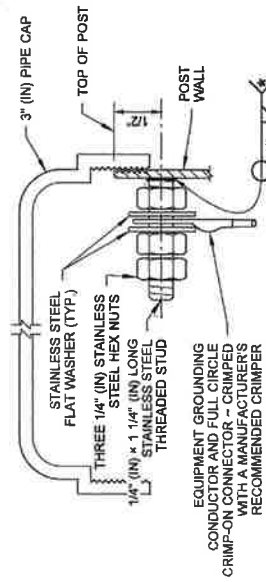
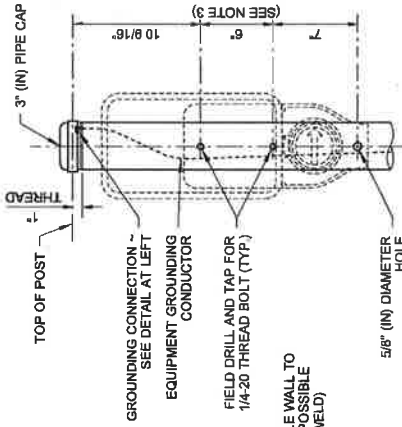
DIMENSIONS (MILLIMETERS)							
A	B	C	D	E	F	G	H
450	300	9	56	75C	75B	38	38

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
18	12	3/8	2.25	3C	3B	1 1/2	1 1/2

## COLORS

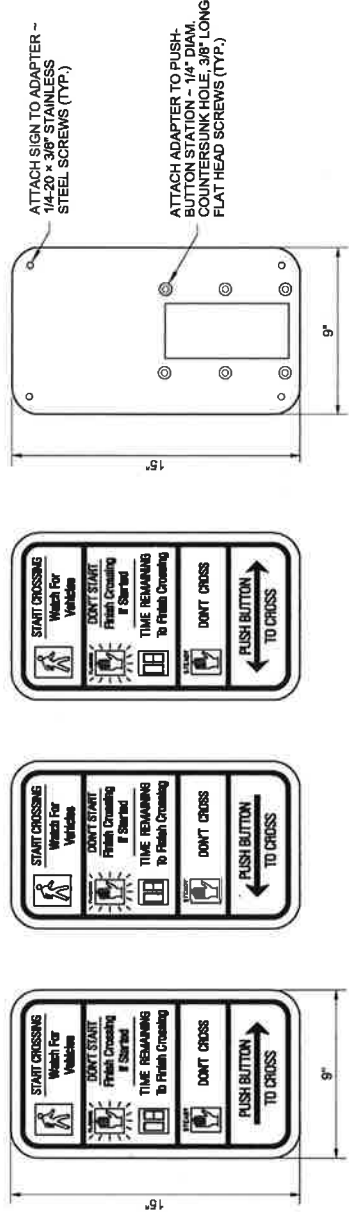
LEGEND — BLACK (NON-REFL)  
 BACKGROUND — WHITE (REFL)

- NOTES**
1. See **Standard Plan J-20-26** for Accessible Pedestrian Pushbutton details.
  2. Where shown in the plans, install plaque (R10-32P) "PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME" above the Accessible Pedestrian Signal (AFS) assembly. Add 14" (in) to post height to accommodate plaque and leave a 2" (in) space between signs.
  3. Mounting distances vary between manufacturers. See manufacturers recommendations for mounting information.
  4. Junction Box serving the Standard shall preferably be located 5' - 0" (10' - 0" Max.) from the Standard.



Joseph Bailey  
Bailey, Ted  
Jun 26 2014 4:20 PM  
**ACCESSIBLE PEDESTRIAN  
PUSHBUTTON POST (PPB)  
AND FOUNDATION**  
**STANDARD PLAN J-20-10-03**  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
March 28, 2014  
R. Bailey  
DESIGN ENGINEER  
Washington State Department of Transportation



PEDESTRIAN PUSHBUTTON FRAME ADAPTER

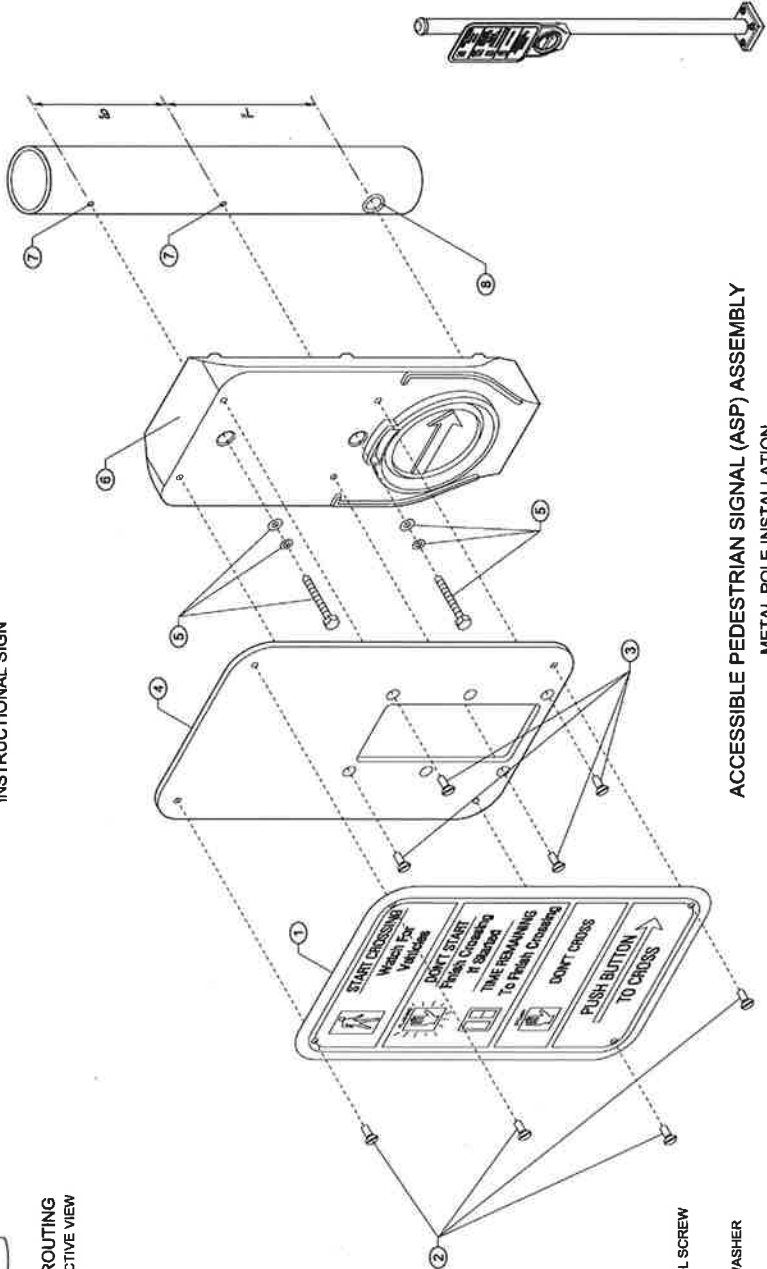
R10-3a (MOD.)

PEDESTRIAN PUSHBUTTON INSTRUCTIONAL SIGN

R10-3a (LEFT)

R10-3a (RIGHT)

WIRE ROUTING PERSPECTIVE VIEW



ISOMETRIC VIEW (METAL POLE SHOWN)

ACCESSIBLE PEDESTRIAN SIGNAL (ASP) ASSEMBLY METAL POLE INSTALLATION PPB-M

KEY

- 1 FACE PLATE
- 2 1/4-20 x 3/8\"/>
- 3 1/4-20 STAINLESS STEEL SCREWS
- 4 PUSHBUTTON FRAME ADAPTER
- 5 1/4-20 STAINLESS STEEL BOLT W/ WASHER AND LOCK WASHER
- 6 PUSHBUTTON STATION
- 7 DRILL AND TAP SHAFT FOR 1/4\"/>
- 8 DRILL AND TAP SHAFT FOR 5/8\"/>



THIS PLAN IS FOR A LOCK ENGINEERING DOCUMENT. THE ENGINEER HAS REVIEWED THE ORIGINAL DRAWING FOR CONFORMANCE WITH THE REQUIREMENTS OF THE WASHINGTON ENGINEERING ACT. THE ENGINEER HAS REVIEWED THE ORIGINAL DRAWING FOR CONFORMANCE WITH THE REQUIREMENTS OF THE WASHINGTON ENGINEERING ACT. THE ENGINEER HAS REVIEWED THE ORIGINAL DRAWING FOR CONFORMANCE WITH THE REQUIREMENTS OF THE WASHINGTON ENGINEERING ACT.

ACCESSIBLE PEDESTRIAN PUSHBUTTON (PPB) DETAILS

STANDARD PLAN J-20.26-01

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakofich III  
 STATE ENGINEER  
 Washington State Department of Transportation  
 DATE: 7/12/12

**BUCKET DATA**

LONGITUDINAL BUFFER SPACE = B	
SPEED (MPH)	25 30 35 40 45 50 55 60 65 70
LENGTH (feet)	155 200 250 305 360 425 485 570 645

**BUCKET VEHICLE ROLL AHEAD DISTANCE = R**

30 FEET MIN.	600 ±
100 FEET MAX.	600 ±

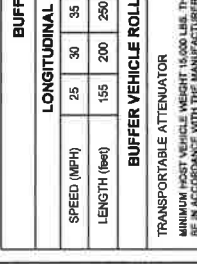
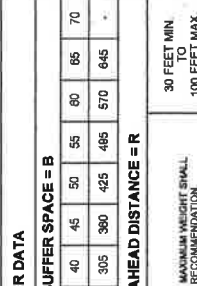
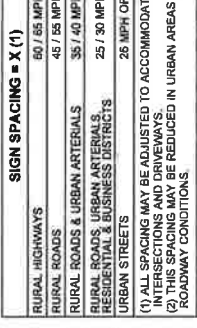
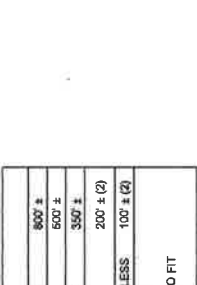
TRANSPORTABLE ATTENUATOR  
MINIMUM NET VEHICLE HEIGHT 14.00 FEET. THE MAXIMUM HEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

PROTECTIVE VEHICLE  
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.

**SIGN SPACING = X (1)**

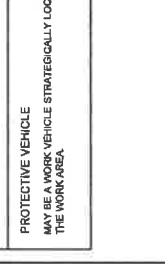
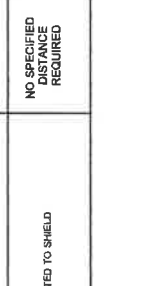
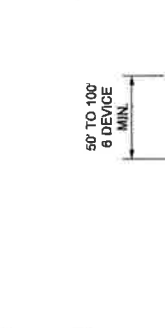
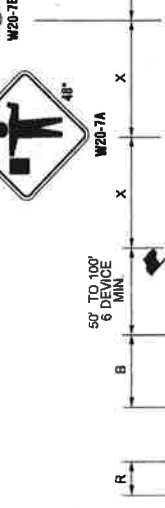
RURAL HIGHWAYS	60 / 65 MPH	800 ±
RURAL ROADS	45 / 55 MPH	500 ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350 ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200 ± (2)
URBAN STREETS	25 MPH OR LESS	100 ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/65	10 to 20	60
35/45	10 to 20	60
25/30	10 to 20	40



**NOTES:**

- ALL SIGNS ARE BLACK ON ORANGE
- EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED
- NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS

**LEGEND**

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

**W20-7B (OPTIONAL IF 40 MPH OR LESS)**

**W20-7B (OPTIONAL IF 40 MPH OR LESS)**

**W20-7B (OPTIONAL IF 40 MPH OR LESS)**

**NOT TO SCALE**

**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

**NOT TO SCALE**

**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

**NOT TO SCALE**

**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

**NOT TO SCALE**

**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

**NOT TO SCALE**

**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

FILE NAME: S:\Design B PA 54-Standards\2-Plan Sheet Library\10-Work Zone Traffic Control (TC)TC-11TC-1.dgn  
 TIME: 10:28:41 AM  
 DATE: 5/17/2013  
 PLOTTED BY: C:\psd  
 DESIGNED BY:  
 ENTERED BY:  
 CHECKED BY:  
 PROJ. LEAD:  
 REGIONAL ADM.

FED AID PROJ. NO.  
 10 WASH  
 COUNTY NO.  
 JOB NUMBER  
 CONTRACT NO.  
 LOCAL ID NUMBER

DATE BY  
 REVISION

WASHINGTON STATE  
 Department of Transportation

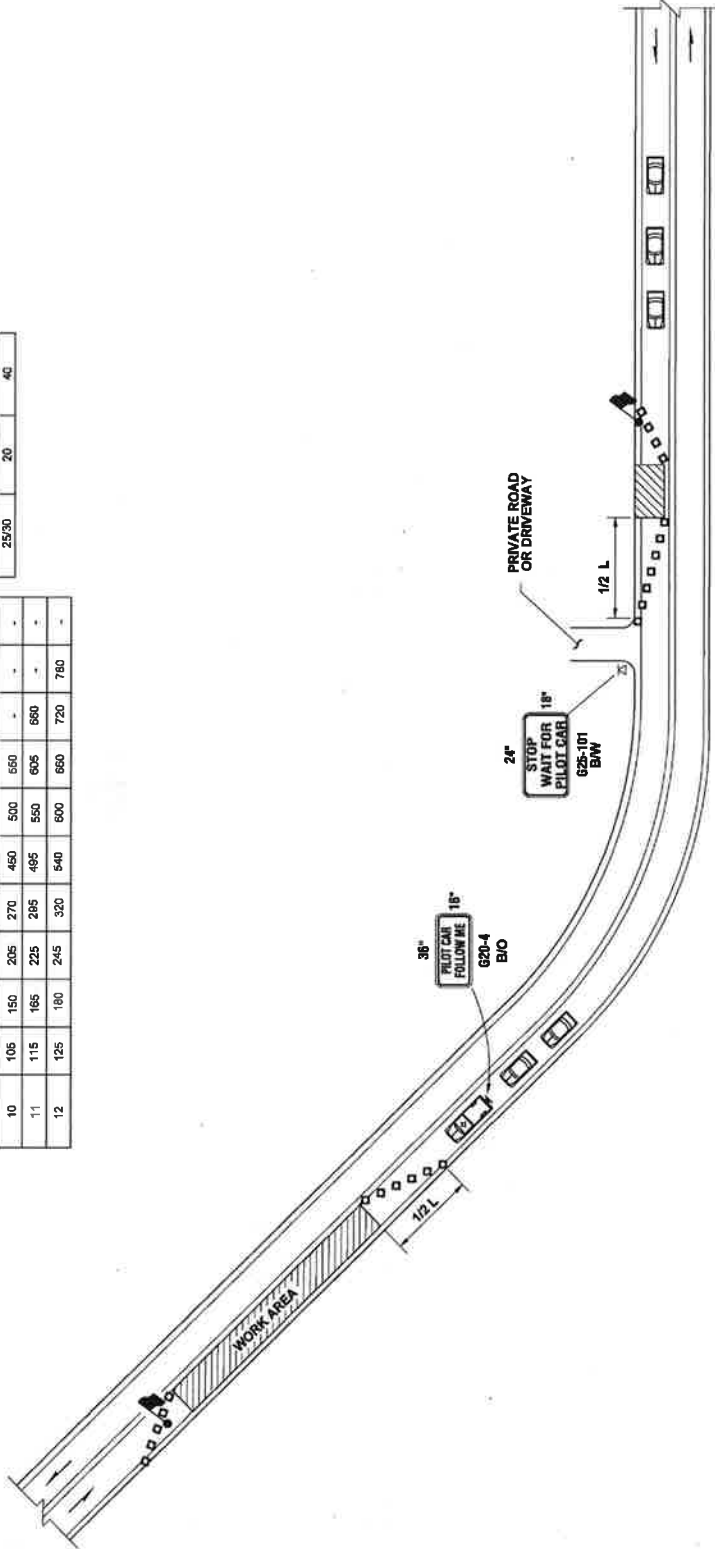
TRAFFIC CONTROL PLAN

TC1

sheet of

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/65	40	80
35/45	30	60
25/30	20	40

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	460	500	550	-	-	-
11	115	165	225	285	485	550	605	650	-	-
12	125	180	245	320	540	600	650	720	780	-



- LEGEND**
- FLAGGING STATION
  - TEMPORARY SIGN LOCATION
  - CHANNELIZING DEVICES
  - PILOT VEHICLE
  - MOTORIST VEHICLE

**NOTES:**

1. REFER TO SHEET TC1 FOR ADDITIONAL SIGNING AND FLAGGING DETAILS NOT SHOWN.
2. CHANNELIZING DEVICES ARE RECOMMENDED ALONG CENTERLINE TO SEPARATE TRAFFIC FROM WORK OPERATION. DEVICES ARE REQUIRED AT TAPERS TO SHIFT TRAFFIC MOVEMENT BETWEEN LANES AND TO PROTECT ALL FLAGGING STATIONS.
3. SIGN G25-101 IS RECOMMENDED FOR NON-STOP SIGN CONTROLLED APPROACHES SUCH AS PRIVATE ROADS AND DRIVEWAYS. THIS SIGN IS NOT REQUIRED TO BE ALUMINUM SUBSTRATE AND CAN BE MADE OF ALTERNATIVE MATERIALS.

**PILOT CAR OPERATION**

NOT TO SCALE

FILE NAME S:\Design & PA 514-Standard02-Plan Sheet Library\15-Work Zone Traffic Control (TC)\TC-20TC-2.dgn		FED-AID PROJ. NO.		DATE	
DATE 10/26/06 AM	DESIGNED BY Cyboul	CONTRACT NO.	LOCATION NO.	P.E. STAMP NOS.	DATE
PLOTTED BY Cyboul	ENTRERED BY	CONTRACT NO.	LOCATION NO.	P.E. STAMP NOS.	DATE
CHECKED BY	PROJ. ENGR.	CONTRACT NO.	LOCATION NO.	P.E. STAMP NOS.	DATE
REGIONAL ADM.	REVISION	DATE	BY		
Washington State Department of Transportation			TRAFFIC CONTROL PLAN		
SHEET TC2			OF SAFETY		

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)		Posted Speed (mph)									
LANE WIDTH (feet)		25	30	35	40	45	50	55	60	65	70
10		105	150	205	270	450	500	550	-	-	-
11		115	165	225	285	485	550	605	660	-	-
12		125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)		Posted Speed (mph)									
SHOULDER WIDTH (feet)		25	30	35	40	45	50	55	60	65	70
6'		40	40	60	80	120	150	160	170	180	190
10'		40	60	90	90	150	170	180	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER, LESS THEN 6'.

SIGN SPACING = X (1)		1500' ±	
FREWAYS & EXPRESSWAYS	55 / 70 MPH	800' ±	
RURAL HIGHWAYS	60 / 65 MPH	500' ±	
RURAL ROADS	45 / 55 MPH	350' ±	
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	200' ± (2)	
RURAL ROADS & BUSINESS DISTRICTS	25 / 30 MPH	100' ± (2)	
URBAN STREETS	25 MPH OR LESS	100' ± (2)	

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

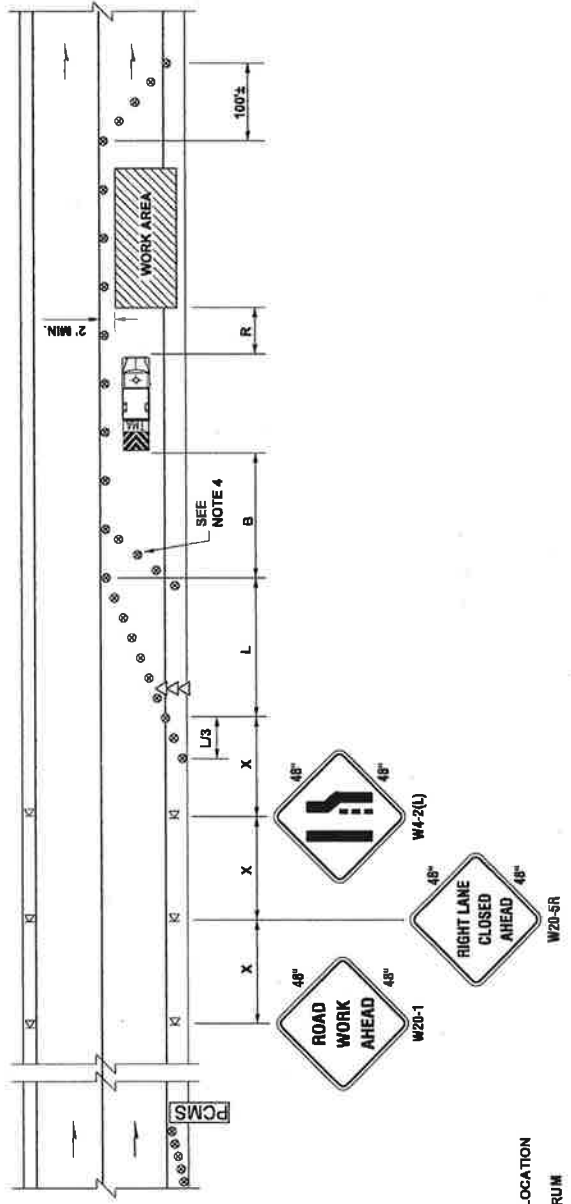
CANALIZATION DEVICE SPACING (feet)		TANGENT	
MPH	TAPER	40	60
50/70	40	30	60
35/45	30	20	40
25/30	20		

BUFFER DATA		LONGITUDINAL BUFFER SPACE = B									
LENGTH (feet)		25	30	35	40	45	50	55	60	65	70
155		200	250	305	360	425	485	570	645	730	

**BUFFER VEHICLE ROLL-AHEAD DISTANCE = R**

TRANSPORTABLE ATTENUATOR  
MINIMUM HOST VEHICLE WEIGHT: 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.

30 FEET MIN TO 100 FEET MAX.



PCMS	
1	RIGHT LANE CLOSED AHEAD
2	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

- NOTES:
- NO FLAGGERS OR SPOTTERS.
  - EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
  - DEVICES SHALL NOT ENCRDACH INTO THE ADJACENT LANE (RECOMMENDED).
  - USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' BE 20'
  - DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'
  - ALL SIGNS ARE BLACK ON ORANGE.
  - SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

## SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME	S:\Design R PA 514-Standard\2-Plan Sheet Library\10-Work Zone Traffic Control (TC)ITC-31TC-3.dgn
TIME	10:50:26 AM
DATE	8/17/2013
DESIGNED BY	Cyford.
ENTERED BY	
CHECKED BY	
PROJ. ENGR.	
REGIONAL ADM.	

FED/DAID PROJ.NO.	
STATE	10 WASH
JOB NUMBER	
CONTRACT NO.	
LOCATION	
DATE	
BY	
REVISION	

Washington State  
Department of Transportation

Plot 1  
TC3

TRAFFIC CONTROL PLAN



SIGN SPACING = X (1)										
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±								
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)								
URBAN STREETS	25 MPH OR LESS	100' ± (2)								

(1) ALL SPACINGS MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	-	-	-	-	-	-
10'	-	-	-	-	-	-	-	-	-	-

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

CHANNELIZATION DEVICE SPACING (feet)										
MPH	TAPER	TANGENT								
35-40	30	50								
25-30	20	40								

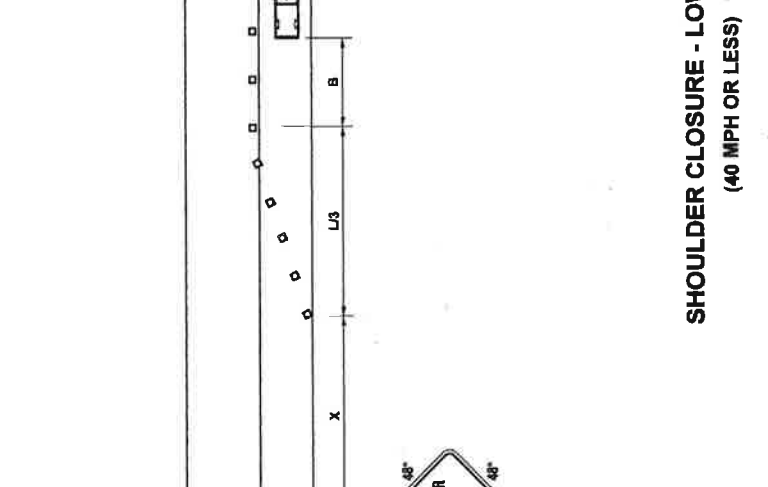
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305						

BUFFER VEHICLE ROLL AHEAD DISTANCE = R

TRANSPORTABLE ATTENUATOR  
 30 FEET MIN TO 100 FEET MAX.  
 MINIMUM HIGHEST VEHICLE WEIGHT 16,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.

PROTECTIVE VEHICLE  
 MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.

NO SPECIFIED NUMBER OF VEHICLES REQUIRED



**LEGEND**

- K TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

**NOTES:**

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'.
2. ALL SIGNS ARE BLACK ON ORANGE.
3. NO FLAGGERS OR SPOTTERS.

## SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

FILE NAME	S:\Design R P\5M-Standard\B2-Plan Sheet\Library\15-Work Zone Traffic Control (CD)TC-SITC-6.dgn		
TIME	10:28:46 AM	PROJECT NO.	10 WASH
DATE	5/17/2013	DATE	
PLOTTED BY	CYRIL	DATE	
DESIGNED BY		DATE	
CHECKED BY		DATE	
PROJ. ENGR.		DATE	
REGIONAL A.S.M.		DATE	

FED.AID PROJ.NO.	
LOCATION	
DATE	
BY	
REVISION	

Washington State  
Department of Transportation

TCS

PROJECT NO.

DATE

BY

**TRAFFIC CONTROL PLAN**



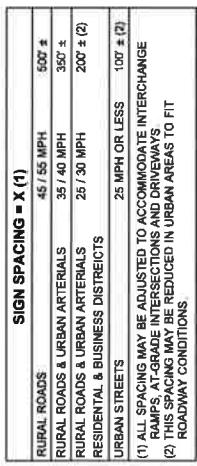
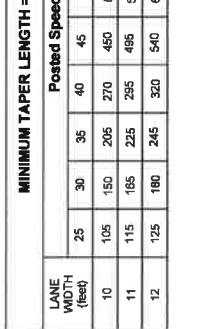
SIGN SPACING = X (1)		500' ±	
RURAL ROADS	45 / 55 MPH	350' ±	
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	200' ± (2)	
RURAL ROADS & BUSINESS DISTRICTS	25 / 30 MPH	100' ± (2)	
URBAN STREETS	25 MPH OR LESS		

MINIMUM TAPER LENGTH = L (feet)		Posted Speed (mph)	
LANE WIDTH (feet)	25	30	35
	30	40	45
10	105	150	205
	115	165	225
11	125	180	245
	135	195	265
12	145	210	285
	155	225	305

CHANNELIZATION DEVICE SPACING (feet)		TAPER		TANGENT	
MPH	50	40	30	50	60
	35/45	30	20	40	50
25/30	20	10	10	20	30

BUFFER DATA		LONGITUDINAL BUFFER SPACE = B	
SPEED (MPH)	25	30	35
	35	40	45
LENGTH (feet)	155	200	250
	165	210	260

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR	30 FEET MIN. TO 100 FEET MAX.
MINIMUM HOIST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	
PROTECTIVE VEHICLE	NO SPECIFIED DISTANCE REQUIRED
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	



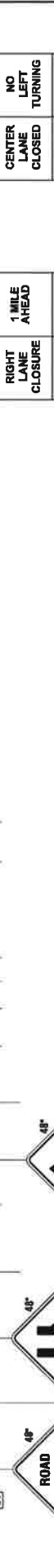
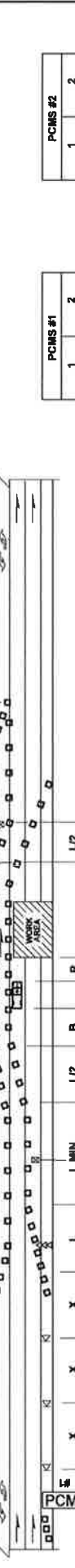
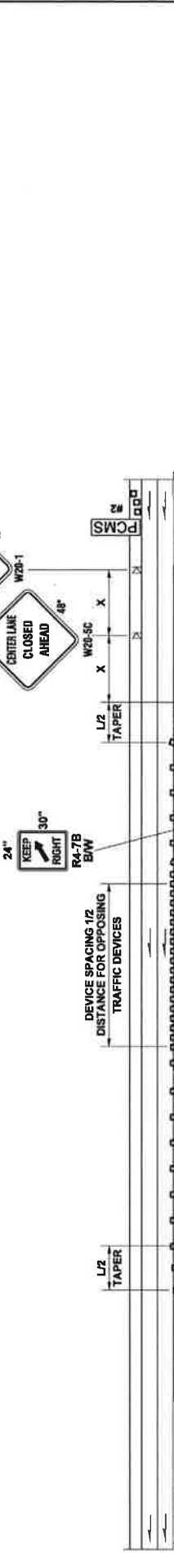
LEGEND	
K	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
▷▷▷	SEQUENTIAL ARROW SIGN
▬▬▬	PROTECTIVE VEHICLE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
⊗	TEMPORARY SIGN LOCATION (6" MOUNTING HEIGHT)

PCMS #1		PCMS #2	
1	RIGHT LANE CLOSURE	1	CENTER LANE CLOSED
2	1 MILE AHEAD	2	NO LEFT TURNING
	2.0 SEC		2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- NOTES:
- NO FLAGGERS OR SPOTTERS
  - RECOMMEND EXTENDING DEVICE TAPER (L2) ACROSS SHOULDER.
  - FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
  - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
  - SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.



**RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY**

NOT TO SCALE

FILE NAME: E:\Dok\18 RB 514-Standard\032-Plan Sheet Library\18-Work Zone Traffic Control (TC)1(C)-R1(C)-10.dgn  
 DATE: 11/17/08 AM  
 DESIGNED BY: Cyfwel  
 CHECKED BY: [ ]  
 PROJ. ENGR. [ ]  
 REGIONAL ADM. [ ]

FED. AID PROJ. NO.: 10 WASH  
 CONTRACT NO.: [ ]  
 LOCATION: [ ]  
 DATE: [ ] BY: [ ]  
 REVISION: [ ]

Washington State  
Department of Transportation

FIG. 1  
**TC10**

SHEET OF [ ]  
BLOCKS [ ]

**TRAFFIC CONTROL PLAN**

MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	285	485	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

ROAD TYPE	45 / 55 MPH	550' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS	25 MPH OR LESS	100' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

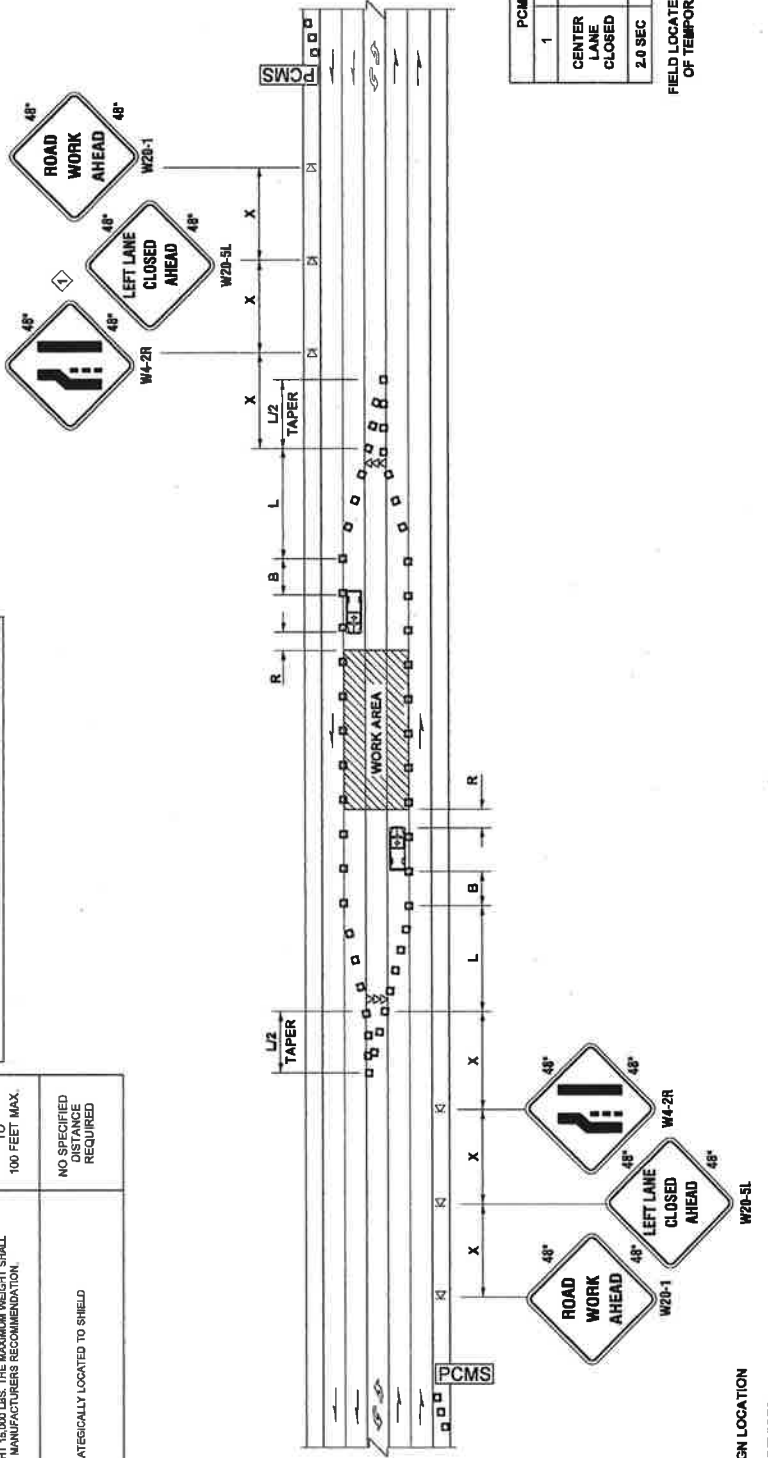
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE ROADWAY CONDITIONS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LONGITUDINAL BUFFER SPACE = B	
SPEED (MPH)	25 30 35 40 45 50 55 60 65 70
LENGTH (feet)	155 200 250 305 360 425 - - - - -

TRANSPORTABLE ATTENUATOR	30 FEET MIN. TO 100 FEET MAX.
MINIMUM POST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	

PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.

NO SPECIFIED DISTANCE REQUIRED



1	2
CENTER LANE CLOSED	NO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- NOTES:
- NO FLAGGERS OR SPOTTERS
  - ALL SIGNS ARE BLACK ON ORANGE
  - SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

## LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE

- LEGEND
- K TEMPORARY SIGN LOCATION
  - CHANNELIZING DEVICES
  - ⇨ SEQUENTIAL ARROW SIGN
  - ▢ PROTECTIVE VEHICLE
  - PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME: S:\Design\RP\SP4-Standard\Plan Sheet Library\15-Work Zone Traffic Control (TC)10-1110-11.dgn	PROJECT NO.:	FED. AID PROJ. NO.:	TC11
TIME: 11:18:49 AM	DATE: 8/17/2013	REVISION:	SHEET OF
CLOSED BY: OYRIL	APP. NO.:	DATE:	NO. OF
ENTERED BY:	DATE:	DATE:	NO. OF
CHECKED BY:	DATE:	DATE:	NO. OF
PROJ. ENGR.:	DATE:	DATE:	NO. OF
REGIONAL A.O.M.:	DATE:	DATE:	NO. OF

Washington State Department of Transportation

TRAFFIC CONTROL PLAN

**BUFFER DATA**

**LONGITUDINAL BUFFER SPACE = B**

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	485	570	645	-

**BUFFER VEHICLE ROLL AHEAD DISTANCE = R**

TRANSPORTABLE ATTENUATOR  
MINIMUM MOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.

30 FEET MIN TO 100 FEET MAX.

PROTECTIVE VEHICLE  
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.

NO SPECIFIED DISTANCE REQUIRED

**MINIMUM TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	185	225	285	485	550	605	680	-	-
12	125	190	245	320	540	600	660	730	-	-

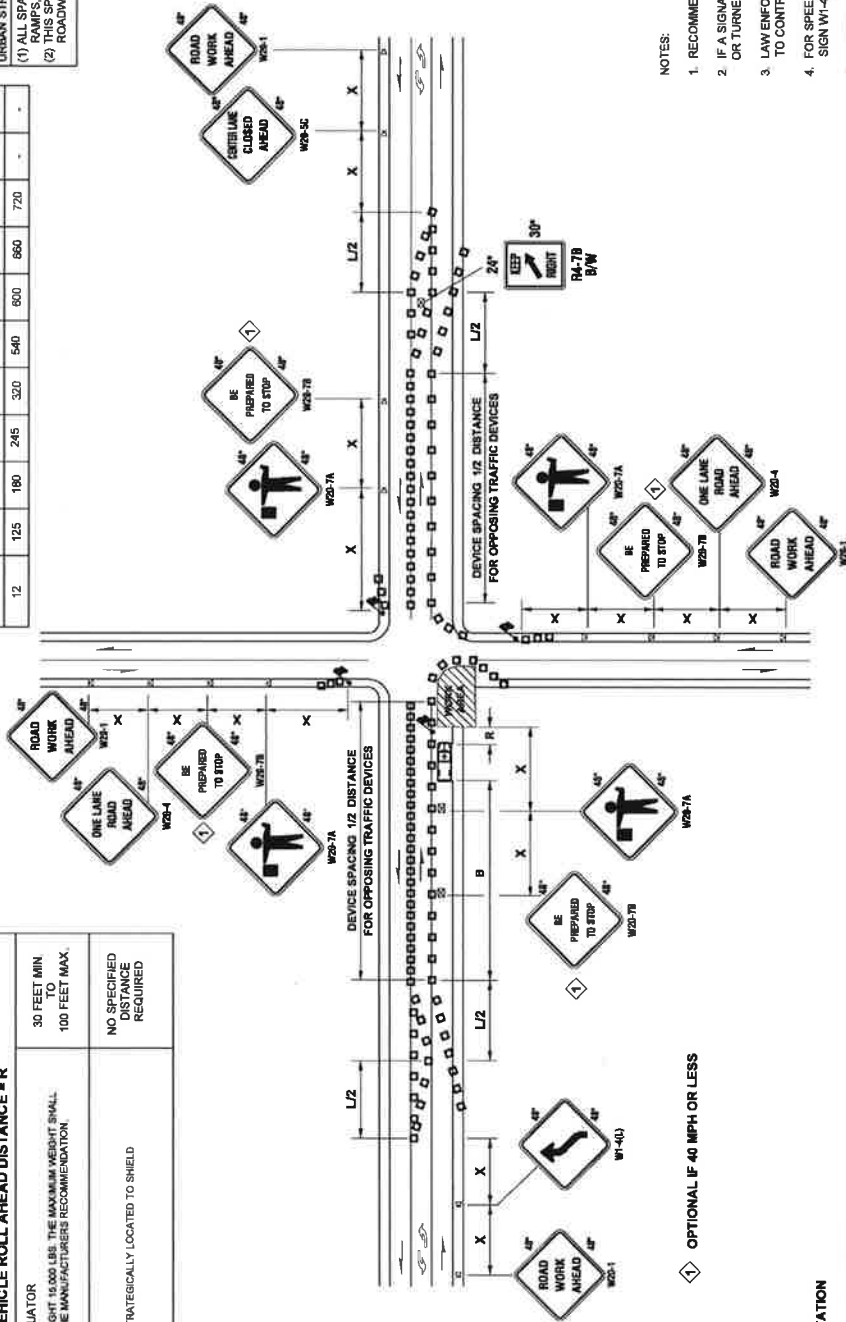
**SIGN SPACING = X (1)**

ROAD TYPE	80 / 65 MPH	60 ±
RURAL HIGHWAYS	80 / 65 MPH	800 ±
RURAL ROADS	45 / 35 MPH	500 ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	300 ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200 ± (2)
RESIDENTIAL & BUSINESS DISTRICTS	25 MPH OR LESS	100 ± (2)
URBAN STREETS	25 MPH OR LESS	100 ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**CHANNELIZATION DEVICE**

MPH	TAPER	TANGENT
50/70	40	60
35/45	30	60
25/30	20	40



- NOTES:
1. RECOMMEND EXTENDING DEVICE TAPER (L/2) ACROSS SHOULDER.
  2. IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
  3. LAW ENFORCEMENT OFFICER MAY BE USED IN LIEU OF FLAGGERS TO CONTROL INTERSECTION TRAFFIC.
  4. FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
  5. MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
  6. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

OPTIONAL IF 40 MPH OR LESS

**LEGEND**

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**INTERSECTION LANE CLOSURE ~ THREE LANE ROADWAY**

NOT TO SCALE

FILE NAME	S:\Design\18\18-04-Standard\2-Plan Sheet Library\18-Work Zone Traffic Control (TD)ITC-14.dgn		
TIME	11:39:59 AM	PROJECT NO.	FED-AID PROJ. NO.
DATE	8/17/2013	DATE	DATE
PLOTTED BY	Cypriel	SCALE	10 WASH
DESIGNED BY		DATE	DATE
CHECKED BY		CONTRACT NO.	CONTRACT NO.
PROJ. ENGR.		DATE	DATE
REGIONAL ADM.		REVISION	REVISION



**TRAFFIC CONTROL PLAN**

TC14  
SHEET  
OF  
SHEETS

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

**LONGITUDINAL BUFFER SPACE = B**

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	485	570	645	-

**BUFFER VEHICLE ROLL AHEAD DISTANCE = R**

TRANSPORTABLE ATTENUATOR  
MINIMUM HOST VEHICLE WEIGHT: 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.

PROTECTIVE VEHICLE  
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.

**MINIMUM TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	330	540	600	660	720	-	-

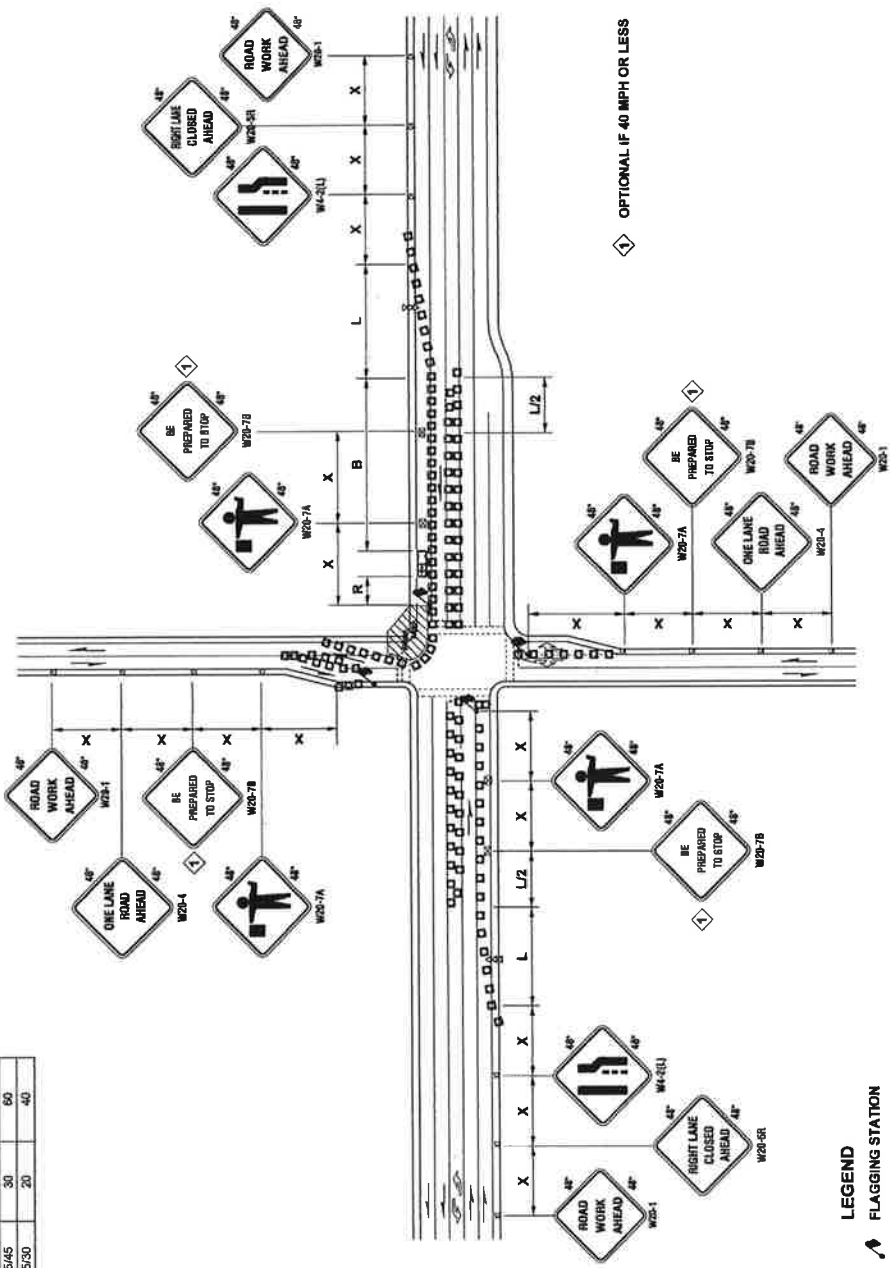
**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS	25 MPH OR LESS	100' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**NOTES:**

- RECOMMEND EXTENDING DEVICE TAPER (U-3) ACROSS SHOULDER.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
- LAW ENFORCEMENT OFFICER MAY BE USED IN LIEU OF FLAGGERS TO CONTROL INTERSECTION TRAFFIC.
- MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- ALL SIGNS ARE BLACK ON ORANGE.



**INTERSECTION LANE CLOSURE ~ FIVE LANE ROADWAY**

**LEGEND**

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (6' MOUNTING HEIGHT)

**REGIONAL ADMINISTRATION**

FILE NAME	S:\Highway\18\18-Standard\18-Plan Sheet Library\18-Work Zone Traffic Control (TC)TC-18TC-15.dwg
DATE	11/17/2018
DESIGNED BY	Cyrcal
CHECKED BY	
PROJ. ENGR.	
REVISION	

NO.	DATE	BY	REVISION
1			

FED. AID PROJ. NO.	
STATE	10 WASH
CONTRACT NO.	
LOCATION NO.	
P.L. STAMP BOX	
DATE	

Washington State  
Department of Transportation

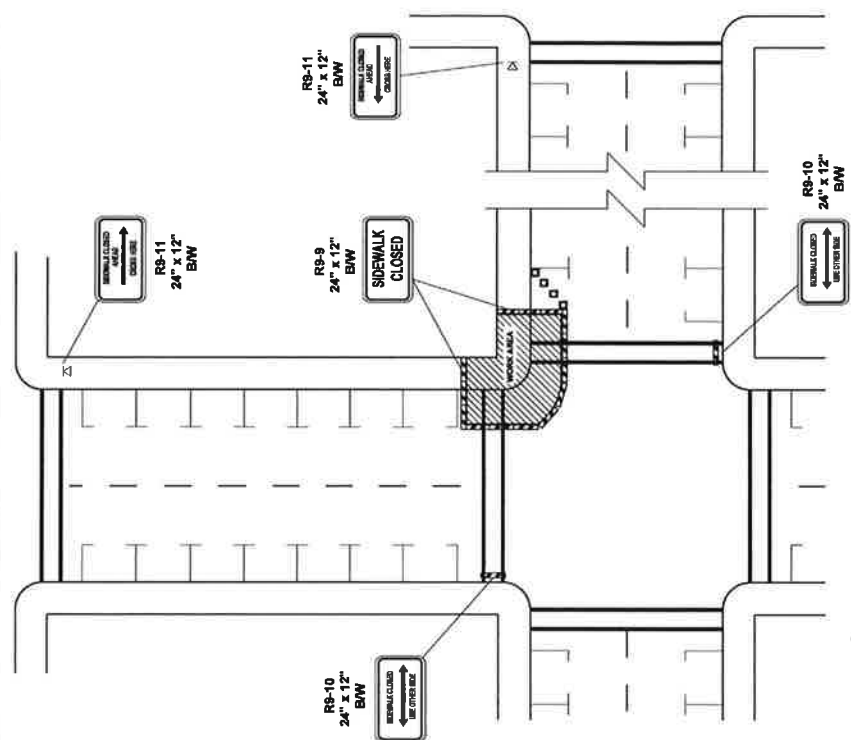
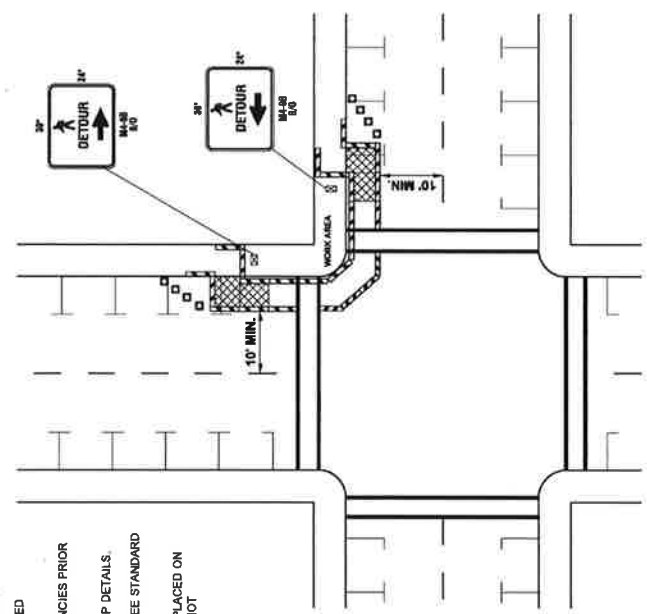
Plot 1  
TC16  
SHEET  
OF  
SHEETS

TRAFFIC CONTROL PLAN

**NO**  
PARKING  
24" x 30" R/W

**RB-3**  
24" x 30" R/W  
INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL. PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

- NOTES:
1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
  2. A 60" PEDESTRIAN PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
  3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
  4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
  5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED, SEE STANDARD SPECIFICATION 1-10.2(1)B.
  6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION

SIDEWALK DETOUR

- LEGEND**
- TEMPORARY SIGN LOCATION
  - CHANNELIZING DEVICES
  - ▬ PEDESTRIAN CHANNELIZING DEVICES
  - TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

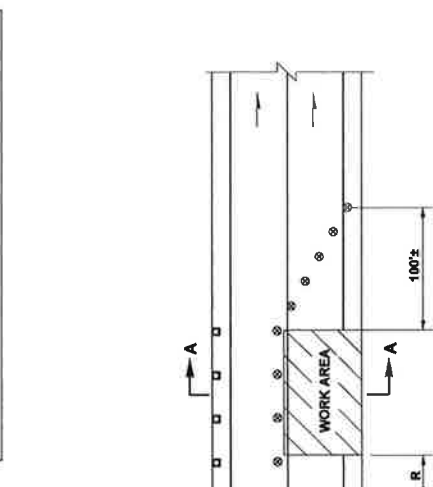
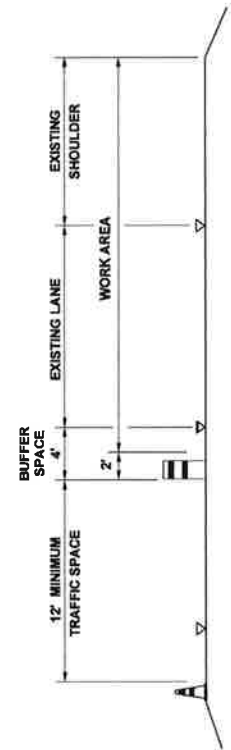
**INTERSECTION PEDESTRIAN TRAFFIC CONTROL**

NOT TO SCALE

FILE NAME: S:\Design R P\4-SM-Standards\12-Plan Sheet Library\110-Work Zone Traffic Control (TC)TC-18.dgn		FED. AID PROJ. NO.		DATE	
TIME: 11:43:01 AM	DATE: 5/17/2013	SHEET: 10	WASH. JOB NUMBER:	DATE: _____	DATE: _____
DESIGNED BY: Cyford	CHECKED BY:	CONTRACT NO.:	LOCATION NO.:	DATE: _____	
PROJ. ENGR.:	REGIONAL ADM.:	REVISION:	DATE:	BY:	DATE:
Washington State Department of Transportation			P.E. STAMP NO. _____ DATE _____		
TC16			PEDESTRIAN CONTROL AND PROTECTION		

SIGN SPACING = X (1)		
FREeways & EXPRESSWAYS	55 / 70 MPH	1500 ±
RURAL HIGHWAYS	60 / 65 MPH	800 ±
RURAL ROADS	45 / 55 MPH	500 ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350 ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200 ± (2)
RESIDENTIAL & BUSINESS DISTRICTS	25 MPH OR LESS	100 ± (2)
URBAN STREETS	25 MPH OR LESS	100 ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



- NOTES**
- NO FLAGGERS OR SPOTTERS.
  - RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
  - USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' ±. (RECOMMENDED)
  - ALL SIGNS ARE BLACK ON ORANGE.
  - RECOMMEND ADVANCE NOTICE FOR ANY OVER WIDTH LOADS PRIOR TO LANE CLOSURE FOR ALTERNATE ROUTES IF APPLICABLE
  - SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS

**FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.**

### SINGLE-LANE CLOSURE WITH SHIFT

NOT TO SCALE

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

**BUFFER VEHICLE ROLL AHEAD DISTANCE = R**

TRANSPORTABLE ATTENUATOR: 30 FEET MIN. TO 100 FEET MAX. (MINIMUM POST VEHICLE WEIGHT: 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.)

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	10	25	30	35	40	45	50	55	60	65
11	105	150	205	270	340	420	510	610	720	840
12	115	165	225	295	375	465	565	675	795	930

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	8'	25	30	35	40	45	50	55	60	65
10'	40	60	90	120	150	180	210	240	270	300

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 5'.

CHANNELIZATION DEVICE SPACING (feet)	
MPH	TANGENT
5070	40
3545	30
2530	20

PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

**LEGEND**

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

FEDJAD PROJ. NO.		DATE		BY	
NO.	DATE	NO.	DATE	NO.	DATE
10	WASH				
JOB NUMBER		CONTRACT NO.		LOCATION NO.	

Washington State Department of Transportation

TRAFFIC CONTROL PLAN

Fig. 1 TC17

REVISION

DATE

BY

FILE NAME: S:\Design R PE SH-Standards\03-Jan-Sheet Library\04-Work Zone Traffic Control (TC)TC-17TC-17.dgn

TIME: 11:46:41 AM

DATE: 8/7/2013

DESIGNED BY: Cytowil

CHECKED BY:

PROJ. ENGR:

REGIONAL ADM:

---

**APPENDIX B**

**BENEFIT CODE KEY AND PREVAILING WAGE RATES**

---

\*\*\*\*\*

**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.

- I. 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.



Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**Overtime Codes Continued**

- I. 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.

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**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.

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**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.

- H. 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 overtime hours worked, except Labor Day, and all hours on Sunday 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.

**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).

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**Holiday Codes Continued**

- 5. 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).
- 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).

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**Holiday Codes Continued**

6. 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).
- 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.

**Holiday Codes Continued**

7. 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.
- 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.

Benefit Code Key – Effective 8/31/2017 thru 3/2/2018

**Holiday Codes Continued**

- 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. 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.



**Note Codes Continued**

8. 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.

V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

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 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.

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: 1/8/2018

County	Trade	Job Classification	Wage	Holiday	Overtime	Note
King	Asbestos Abatement Workers	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
King	Boilermakers	Journey Level	\$64.54	<u>5N</u>	<u>1C</u>	
King	Brick Mason	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	Brick Mason	Pointer-Caulker-Cleaner	\$55.82	<u>5A</u>	<u>1M</u>	
King	Building Service Employees	Janitor	\$23.73	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Traveling Waxer/Shampooer	\$24.18	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Window Cleaner (Non-Scaffold)	\$27.23	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Window Cleaner (Scaffold)	\$28.13	<u>5S</u>	<u>2F</u>	
King	Cabinet Makers (In Shop)	Journey Level	\$22.74		<u>1</u>	
King	Carpenters	Acoustical Worker	\$57.18	<u>5D</u>	<u>4C</u>	
King	Carpenters	Bridge, Dock And Wharf Carpenters	\$57.18	<u>5D</u>	<u>4C</u>	
King	Carpenters	Carpenter	\$57.18	<u>5D</u>	<u>4C</u>	
King	Carpenters	Carpenters on Stationary Tools	\$57.31	<u>5D</u>	<u>4C</u>	
King	Carpenters	Creosoted Material	\$57.28	<u>5D</u>	<u>4C</u>	
King	Carpenters	Floor Finisher	\$57.18	<u>5D</u>	<u>4C</u>	
King	Carpenters	Floor Layer	\$57.18	<u>5D</u>	<u>4C</u>	
King	Carpenters	Scaffold Erector	\$57.18	<u>5D</u>	<u>4C</u>	
King	Cement Masons	Journey Level	\$57.21	<u>7A</u>	<u>1M</u>	
King	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$110.54	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Dive Supervisor/Master	\$72.97	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Diver	\$110.54	<u>5D</u>	<u>4C</u>	<u>8V</u>
King	Divers & Tenders	Diver On Standby	\$67.97	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Diver Tender	\$61.65	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Manifold Operator	\$61.65	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Manifold Operator Mixed Gas	\$66.65	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$61.65	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders		\$57.43	<u>5A</u>	<u>4C</u>	

		Remote Operated Vehicle Tender			
King	<u>Dredge Workers</u>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Mates	\$56.44	<u>5D</u>	<u>3F</u>
King	<u>Dredge Workers</u>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>
King	<u>Drywall Applicator</u>	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>
King	<u>Drywall Tapers</u>	Journey Level	\$57.43	<u>5P</u>	<u>1E</u>
King	<u>Electrical Fixture Maintenance Workers</u>	Journey Level	\$27.99	<u>5L</u>	<u>1E</u>
King	<u>Electricians - Inside</u>	Cable Splicer	\$73.20	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Cable Splicer (tunnel)	\$78.59	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Certified Welder	\$70.75	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Certified Welder (tunnel)	\$75.89	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Construction Stock Person	\$38.69	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Journey Level	\$68.30	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Inside</u>	Journey Level (tunnel)	\$73.20	<u>7C</u>	<u>4E</u>
King	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>
King	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>
King	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$73.93	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$67.60	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Groundperson	\$45.49	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$67.60	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$67.60	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$57.02	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$67.60	<u>5A</u>	<u>4D</u>
King	<u>Electricians - Powerline Construction</u>	Powderperson	\$50.76	<u>5A</u>	<u>4D</u>
King	<u>Electronic Technicians</u>	Journey Level	\$31.00		<u>1</u>
King	<u>Elevator Constructors</u>	Mechanic	\$88.36	<u>7D</u>	<u>4A</u>
King	<u>Elevator Constructors</u>	Mechanic In Charge	\$95.41	<u>7D</u>	<u>4A</u>
King	<u>Fabricated Precast Concrete Products</u>	All Classifications - In-Factory Work Only	\$17.20	<u>5B</u>	<u>1R</u>
King	<u>Fence Erectors</u>	Fence Erector	\$15.18		<u>1</u>
King	<u>Flaggers</u>	Journey Level	\$39.48	<u>7A</u>	<u>3I</u>
King	<u>Glaziers</u>	Journey Level	\$60.56	<u>7L</u>	<u>1Y</u>
King	<u>Heat &amp; Frost Insulators And Asbestos Workers</u>	Journeyman	\$67.93	<u>5J</u>	<u>4H</u>

King	<u>Heating Equipment Mechanics</u>	Journey Level	\$78.17	<u>7F</u>	<u>1E</u>	
King	<u>Hod Carriers &amp; Mason Tenders</u>	Journey Level	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$11.50		<u>1</u>	
King	<u>Inland Boatmen</u>	Boat Operator	\$59.86	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Cook	\$56.18	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand	\$56.18	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand Engineer	\$57.26	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Launch Operator	\$58.59	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Mate	\$58.59	<u>5B</u>	<u>1K</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$31.49		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Grout Truck Operator	\$11.50		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Head Operator	\$24.91		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Technician	\$19.33		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Tv Truck Operator	\$20.45		<u>1</u>	
King	<u>Insulation Applicators</u>	Journey Level	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Ironworkers</u>	Journeyman	\$66.68	<u>7N</u>	<u>10</u>	
King	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Airtrac Drill Operator	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ballast Regular Machine	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Batch Weighman	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brick Pavers	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Cutter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Hog Feeder	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Burner	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caisson Worker	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Carpenter Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caulker	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Dumper-paving	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Finisher Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Change House Or Dry Shack	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Choker Setter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chuck Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Clary Power Spreader	\$47.44	<u>7A</u>	<u>3I</u>	

King	<u>Laborers</u>	Clean-up Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Dumper/chute Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Form Stripper	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Placement Crew	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Crusher Feeder	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Curing Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ditch Digger	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Diver	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Drill Operator (hydraulic, diamond)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dry Stack Walls	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dump Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Epoxy Technician	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Erosion Control Worker	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Faller & Bucker Chain Saw	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Fine Graders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Firewatch	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Form Setter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Gabian Basket Builders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	General Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grade Checker & Transit Person	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grinders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grout Machine Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Groutmen (pressure)including Post Tension Beams	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Guardrail Erector	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level A)	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level B)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level C)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	High Scaler	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Jackhammer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Laserbeam Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Maintenance Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Manhole Builder-mudman	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Material Yard Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Motorman-dinky Locomotive	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Nozzleman (concrete Pump, Green Cutter When Using	\$47.44	<u>7A</u>	<u>3I</u>	

		Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla				
King	Laborers	Pavement Breaker	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Pilot Car	\$39.48	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Layer Lead	\$48.02	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Layer/tailor	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Pot Tender	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Reliner	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Wrapper	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Pot Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Powderman	\$48.02	<u>7A</u>	<u>3I</u>	
King	Laborers	Powderman's Helper	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Power Jacks	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Railroad Spike Puller - Power	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Raker - Asphalt	\$48.02	<u>7A</u>	<u>3I</u>	
King	Laborers	Re-timberman	\$48.02	<u>7A</u>	<u>3I</u>	
King	Laborers	Remote Equipment Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Rigger/signal Person	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Rip Rap Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Rivet Buster	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Rodder	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Scaffold Erector	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Scale Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Sloper (over 20")	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Sloper Sprayer	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Spreader (concrete)	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Stake Hopper	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Stock Piler	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Tamper (multiple & Self-propelled)	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Toolroom Person (at Jobsite)	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Topper	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Track Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Track Liner (power)	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Traffic Control Laborer	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	Laborers	Traffic Control Supervisor	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	Laborers	Truck Spotter	\$46.57	<u>7A</u>	<u>3I</u>	
King	Laborers	Tugger Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$92.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers		\$97.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>

		Tunnel Work-Compressed Air Worker 30.01-44.00 psi				
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$101.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$107.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$109.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$114.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$116.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$118.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$120.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Miner	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Vibrator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Vinyl Seamer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Watchman	\$35.88	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Welder	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Well Point Laborer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Window Washer/cleaner	\$35.88	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer &amp; Water</u>	General Laborer & Topman	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer &amp; Water</u>	Pipe Layer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$13.56		<u>1</u>	
King	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$28.17		<u>1</u>	
King	<u>Landscape Construction</u>	Landscaping or Planting Laborers	\$17.87		<u>1</u>	
King	<u>Lathers</u>	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
King	<u>Marble Setters</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Metal Fabrication (In Shop)</u>	Fitter	\$15.86		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Laborer	\$11.50		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$13.04		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Painter	\$11.50		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Welder	\$15.48		<u>1</u>	
King	<u>Millwright</u>	Journey Level	\$58.68	<u>5D</u>	<u>4C</u>	
King	<u>Modular Buildings</u>	Cabinet Assembly	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Electrician	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Equipment Maintenance	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Plumber	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Production Worker	\$11.50		<u>1</u>	

King	<u>Modular Buildings</u>	Tool Maintenance	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Utility Person	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Welder	\$11.56		<u>1</u>	
King	<u>Painters</u>	Journey Level	\$41.60	<u>6Z</u>	<u>2B</u>	
King	<u>Pile Driver</u>	Crew Tender	\$52.37	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 0- 30.00 PSI	\$71.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$76.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$80.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$85.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$87.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$92.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$94.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$96.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$98.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Journey Level	\$57.43	<u>5D</u>	<u>4C</u>	
King	<u>Plasterers</u>	Journey Level	\$54.89	<u>7Q</u>	<u>1R</u>	
King	<u>Playground &amp; Park Equipment Installers</u>	Journey Level	\$11.50		<u>1</u>	
King	<u>Plumbers &amp; Pipefitters</u>	Journey Level	\$79.69	<u>6Z</u>	<u>1G</u>	
King	<u>Power Equipment Operators</u>	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>



King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>		\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Tower Crane: over 175' through 250' in height, base to boom				
King	<u>Power Equipment Operators</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King		Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>					
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King			\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	<u>Pile Driver (other Than Crane Mount)</u>				
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>		\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons				
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$48.54	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$46.03	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$48.54	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$43.32	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$32.68	<u>5A</u>	<u>4A</u>	
King	<u>Refrigeration &amp; Air Conditioning Mechanics</u>	Journey Level	\$75.36	<u>6Z</u>	<u>1G</u>	
King	<u>Residential Brick Mason</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Residential Carpenters</u>	Journey Level	\$28.20		<u>1</u>	
King	<u>Residential Cement Masons</u>	Journey Level	\$22.64		<u>1</u>	



King	<u>Residential Drywall Applicators</u>	Journey Level	\$42.86	<u>5D</u>	<u>4C</u>
King	<u>Residential Drywall Tapers</u>	Journey Level	\$57.43	<u>5P</u>	<u>1E</u>
King	<u>Residential Electricians</u>	Journey Level	\$30.44		<u>1</u>
King	<u>Residential Glaziers</u>	Journey Level	\$40.25	<u>7L</u>	<u>1H</u>
King	<u>Residential Insulation Applicators</u>	Journey Level	\$26.28		<u>1</u>
King	<u>Residential Laborers</u>	Journey Level	\$23.03		<u>1</u>
King	<u>Residential Marble Setters</u>	Journey Level	\$24.09		<u>1</u>
King	<u>Residential Painters</u>	Journey Level	\$24.46		<u>1</u>
King	<u>Residential Plumbers &amp; Pipefitters</u>	Journey Level	\$34.69		<u>1</u>
King	<u>Residential Refrigeration &amp; Air Conditioning Mechanics</u>	Journey Level	\$75.36	<u>6Z</u>	<u>1G</u>
King	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$44.56	<u>7F</u>	<u>1R</u>
King	<u>Residential Soft Floor Layers</u>	Journey Level	\$47.61	<u>5A</u>	<u>3D</u>
King	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$44.98	<u>5C</u>	<u>2R</u>
King	<u>Residential Stone Masons</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>
King	<u>Residential Terrazzo Workers</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>
King	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$21.46		<u>1</u>
King	<u>Residential Tile Setters</u>	Journey Level	\$20.00		<u>1</u>
King	<u>Roofers</u>	Journey Level	\$49.27	<u>5A</u>	<u>3H</u>
King	<u>Roofers</u>	Using Irritable Bituminous Materials	\$52.27	<u>5A</u>	<u>3H</u>
King	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$78.17	<u>7F</u>	<u>1E</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Boilermaker	\$43.31	<u>7M</u>	<u>1H</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Carpenter	\$41.06	<u>7T</u>	<u>2B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Electrician	\$42.07	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Heat & Frost Insulator	\$67.93	<u>5J</u>	<u>4H</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Laborer	\$41.99	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Machinist	\$42.00	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Operator	\$41.95	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Painter	\$42.00	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Pipefitter	\$41.96	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Rigger	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Sheet Metal	\$41.98	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Shipfitter	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Trucker	\$41.91	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Warehouse	\$41.94	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Welder/Burner	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Sign Makers &amp; Installers (Electrical)</u>	Sign Installer	\$22.92		<u>1</u>
King	<u>Sign Makers &amp; Installers (Electrical)</u>	Sign Maker	\$21.36		<u>1</u>

King	<u>Sign Makers &amp; Installers (Non-Electrical)</u>	Sign Installer	\$27.28		<u>1</u>	
King	<u>Sign Makers &amp; Installers (Non-Electrical)</u>	Sign Maker	\$33.25		<u>1</u>	
King	<u>Soft Floor Layers</u>	Journey Level	\$47.61	<u>5A</u>	<u>3D</u>	
King	<u>Solar Controls For Windows</u>	Journey Level	\$12.44		<u>1</u>	
King	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$74.49	<u>5C</u>	<u>1X</u>	
King	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>	
King	<u>Stone Masons</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$19.09		<u>1</u>	
King	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Construction Site Surveyor	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Telecommunication Technicians</u>	Journey Level	\$22.76		<u>1</u>	
King	<u>Telephone Line Construction - Outside</u>	Cable Splicer	\$38.84	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Hole Digger/Ground Person	\$21.45	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$37.21	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$38.84	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$38.03	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$38.84	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$36.09	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$36.09	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$20.33	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$27.21	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$32.55	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Technician	\$29.18	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$36.09	<u>5A</u>	<u>2B</u>	
King	<u>Terrazzo Workers</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	
King	<u>Tile Setters</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	
King	<u>Tile, Marble &amp; Terrazzo Finishers</u>	Finisher	\$42.19	<u>5A</u>	<u>1B</u>	
King	<u>Traffic Control Stripers</u>	Journey Level	\$44.93	<u>7A</u>	<u>1K</u>	

King	<u>Truck Drivers</u>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck & Trailer	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Other Trucks (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Transit Mixer	\$43.23		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Irrigation Pump Installer	\$17.71		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Oiler	\$12.97		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Well Driller	\$18.00		<u>1</u>	