CONTRACT
SPECIFICATIONS

For The Construction Of:
INSPIRATION DRIVE, SCENIC
CREST DRIVE, & SCENIC CREST
DOMESTIC WATER
IMPROVEMENT PROJECT
C 3552, C 3242, & U6 3562
Yakima County Public Services Project
CERTIFICATE

I HEREBY CERTIFY THAT THE ATTACHED DOCUMENTS, PLANS, AND SPECIFICATIONS CONFORM TO ORIGINALS WHICH ARE ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF YAKIMA COUNTY, WASHINGTON.

COUNTY ENGINEER

DATE: 1/4/15
# TABLE OF CONTENTS

**INFORMATIONAL BID DOCUMENTS**

<table>
<thead>
<tr>
<th>TITLE PAGE</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFICATE</td>
<td>2</td>
</tr>
<tr>
<td>INSTRUCTIONS TO BIDDERS</td>
<td>6</td>
</tr>
<tr>
<td>PROPOSAL (INFORMATIONAL)</td>
<td>7</td>
</tr>
<tr>
<td>LETTER OF RESPONSIBILITY (INFORMATIONAL)</td>
<td>8</td>
</tr>
<tr>
<td>DEFINITION OF TERMS</td>
<td>9</td>
</tr>
<tr>
<td>NON-COLLUSION DECLARATION</td>
<td>11</td>
</tr>
<tr>
<td>NOTICE TO ALL BIDDERS</td>
<td>10</td>
</tr>
<tr>
<td>CERTIFICATION REGARDING DEBARMENT, ETC. (INFORMATIONAL)</td>
<td>11</td>
</tr>
<tr>
<td>CONTRACT (INFORMATIONAL)</td>
<td>12</td>
</tr>
<tr>
<td>PERFORMANCE BOND (INFORMATIONAL)</td>
<td>12</td>
</tr>
</tbody>
</table>

**AMENDMENTS TO THE STANDARD SPECIFICATIONS**

## DIVISION 1

**GENERAL REQUIREMENTS**

| SECTION 1-01, DEFINITION AND TERMS | A1 |
| SECTION 1-02, BID PROCEDURES AND CONDITIONS | A2 |
| SECTION 1-03, AWARD AND EXECUTION OF CONTRACT | A2 |
| SECTION 1-04, SCOPE OF THE WORK | A3 |
| SECTION 1-05, CONTROL OF WORK | A7 |
| SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC | A9 |
| SECTION 1-08, PROSECUTION AND PROGRESS | A10 |
| SECTION 1-09, MEASUREMENT AND PAYMENT | A11 |
| SECTION 1-10, TEMPORARY TRAFFIC CONTROL | A11 |

## DIVISION 2

**EARTHWORK**

| SECTION 2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP | A16 |
| SECTION 2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS | A16 |
| SECTION 2-03, ROADWAY EXCAVATION AND EMBANKMENT | A18 |

## DIVISION 3

**AGGREGATE PRODUCTION AND ACCEPTANCE**

| SECTION 3-04, ACCEPTANCE OF AGGREGATE | A18 |

## DIVISION 5

**SURFACE TREATMENTS AND PAVEMENTS**

| SECTION 5-04, HOT MIX ASPHALT | A19 |

## DIVISION 6

**STRUCTURES**
DIVISION 2
EARTHWORK
SECTION 2-01, CLEARING, GRUBBING AND ROADSIDE CLEANUP--SP32
SECTION 2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS--SP32
SECTION 2-03, ROADWAY EXCAVATION AND EMBANKMENT--SP34
SECTION 2-07, WATERING--SP35

DIVISION 3
AGGREGATE PRODUCTION AND ACCEPTANCE
SECTION 3-04, ACCEPTANCE OF AGGREGATE--SP34

DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS
SECTION 5-04, HOT MIX ASPHALT--SP36

DIVISION 6
STRUCTURES
SECTION 6-02 CONCRETE STRUCTURES--SP38

DIVISION 7
DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS AND CONDUITS
SECTION 7-05, MANHOLES, INLETS, CATCH BASINS AND DRYWELLS--SP40
SECTION 7-08, GENERAL PIPE INSTALLATION REQUIREMENTS--SP41
SECTION 7-09, WATER MAINS--SP42
SECTION 7-12, VALVES FOR WATER MAINS--SP46
SECTION 7-15, SERVICE CONNECTIONS--SP46

DIVISION 8
MISCELLANEOUS CONSTRUCTION
SECTION 8-01, EROSION CONTROL AND WATER POLLUTION CONTROL--SP49
SECTION 8-02, ROADSIDE RESTORATION--SP50
SECTION 8-04, CURBS, GUTTERS, AND SPILLWAYS--SP51
SECTION 8-14, CEMENT CONCRETE SIDEWALKS--SP51
SECTION 8-18, MAILBOX SUPPORT--SP51
SECTION 8-20, ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL--SP52
SECTION 8-21, PERMANENT SIGNING--SP44
SECTION 8-22, PAVEMENT MARKINGS--SP44

DIVISION 9
MATERIALS
SECTION 9-29, ILLUMINATION, SIGNAL, ELECTRICAL--SP53
SECTION 9-30, WATER DISTRIBUTION MATERIALS--SP53
STANDARD PLANS

APPENDIX A - CONTRACT STANDARD PLANS

APPENDIX B - PREVAILING WAGE RATES
Washington State Prevailing Wage Rates - Yakima County
Benefit Code Key
Supplement to Wage Rates

IMPROVEMENT PLANS
INFORMATIONAL BID DOCUMENTS
INSTRUCTIONS TO BIDDERS

DELIVERY OF PROPOSALS

Sealed bids will be received at the following location before the specified time:

Yakima County Public Services, Fourth Floor County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901 until 2:00 p.m. of the bid opening date.

Each proposal, or bid shall be completely sealed in a separate package, addressed to the Engineer of Yakima County with the name of the improvements for which the bid is submitted plainly written on the outside of the package.

No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be accepted.

DATE OF OPENING BIDS

The bid opening date for this project shall be January 28, 2015.

The bids shall be publicly opened and read after 2:00 p.m. on that date at the following location:

Yakima County Road Engineer’s Office, fourth floor, Yakima County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901.

RIGHT TO REJECT BIDS:

The right is reserved to reject any and all proposals, to accept the proposal or proposals deemed best for the County or to advertise for new proposals when in the opinion of the Board the best interest of the County shall be promoted thereby.

PROPOSAL GUARANTY:

A certified check, cashier’s check, cash or bid bond made payable to the Treasurer of the County of Yakima for an amount equal to at least five percent (5%) of the total amount bid must accompany each bid as evidence of good faith and as a guarantee that if awarded the Contract the bidder shall execute the Contract and give bond as required.

FORM FURNISHED:

Each bid must be made on the form attached to these Specifications.

Yakima County in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it shall affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises shall be afforded full opportunity to submit bids in response to this invitation and shall not be discriminated against on the grounds of race, color or national origin in consideration for an award.

YAKIMA COUNTY IS AN EQUAL OPPORTUNITY EMPLOYER

INFORMATIONAL BID DOCUMENTS
C 3552, C 3242, & U6 3562
PROPOSAL

This certifies that the undersigned has examined the location of the noted projects:

C 3552 – INSPIRATION DRIVE: END OF RD. TO S 31st STREET
C 3242 – SCENIC CREST DRIVE: UNIVERSITY PRKY. TO END OF RD.
U6 3562 – SECNIC CREST DOMESTIC WATER

And that the Plans, Specifications and Contract governing the work embraced in these improvements, and the method by which payment will be made for said work, is understood. The undersigned hereby proposes to undertake and complete the work embraced in these improvements, or as much as can be completed with the money available, in accordance with the said Plans, Specifications, and Contract, and the following schedule of rates and prices:

**NOTE:** Unit Prices for all items, all extensions, and total amount of bid shall be shown. No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be considered or accepted.

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<th>Item No.</th>
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## TRAFFIC

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## OTHER ITEMS

<table>
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## TOTAL BID AMOUNT (ROAD)

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## DOMESTIC WATER

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<td><strong>UTILITY SALES TAX @ 7.9%</strong></td>
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<td><strong>TOTAL UTILITY BID AMOUNT (SUBTOTAL + SALES TAX)</strong></td>
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<td><strong>TOTAL PROJECT AMOUNT (TOTAL ROAD + TOTAL UTILITY)</strong></td>
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</table>
PROPOSAL – Continued

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH [ ] IN THE AMOUNT OF ______________________

CASHIER’S CHECK [ ] _______________________________ DOLLARS

CERTIFIED CHECK [ ] ($_________) PAYABLE TO THE COUNTY TREASURER

PROPOSAL BOND [ ] IN THE AMOUNT OF 5 PERCENT (5%) OF THE BID

Bidder acknowledges receipt of the following Addendums:

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The undersigned has telephoned the Office of the Yakima County Engineer for verification of the number of Addendums issued.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Title: ____________________________

Firm Name: _______________________

Address: _________________________

Phone No.: _______________________

Washington Registration No.: _______

Federal ID Tax No.: ______________

UBI No.: _________________________

E-Mail: _________________________

Signed and sworn (or affirmed) before me on _________________________ Date

________________________________________
NOTARY PUBLIC

My appointment expires _________________________ (Seal and Stamp)

NOTE: (1) This proposal is not transferable and any alteration of the firm’s name entered hereon without prior permission from the County Engineer shall be cause for considering the proposal irregular and subsequent rejection of the bid.
(2) Please refer to Section 1-02.6 of the Standard Specifications, re: “Preparation of Proposal”.
(3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communications C 3552, C 3242, & U6 3562.
LETTER OF RESPONSIBILITY

Date: _______________________

County Road Project No.: C 3552, C 3242, & U6 3562

TO:
BOARD OF COUNTY COMMISSIONERS OF YAKIMA COUNTY, WASHINGTON
(Party awarding principal contract)

Dear Sirs:

I hereby maintain that I am a responsible bidder as contemplated by the policies of the State of Washington (Chapter 157, Laws of Washington of 1937).

a. My permanent place of business is __________________________, which I have maintained for __________ years.

b. I have adequate plant equipment to do expeditiously and properly the work contemplated for Yakima County, Washington.

DESCRIPTION OF WORK:

C 3552 – Inspiration Drive Improvement Project, University Pkwy, Vic. to S. 31st St.
C 3242 – Scenic Crest Drive: University Pkwy. To End of Road
U6 3562 – Scenic Crest Drive: Domestic Water

I have the following equipment available for this work:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

c. I have adequate funds to promptly meet obligations incident to this work.
Bank reference: ____________________________

________________________________________________________________________

________________________________________________________________________

d. I have had experience in this class of work, having constructed the following improvements.

I hereby certify that the above is a true and accurate statement.

Very truly yours,

_______________________________
Contractor

NOTE: This sheet need not be submitted, unless so requested by the Engineer subsequent to opening of bid. This “letter of responsibility” shall not be construed to be a request for Prequalification of bidder.
DEFINITION OF TERMS

In interpreting these specifications, the following definitions shall prevail:


SECRETARY OF TRANSPORTATION: Secretary of Transportation of the State of Washington.

BOARD: The Board of County Commissioners of Yakima County.

ENGINEER: County, or construction engineer, or his duly authorized assistants by whom all explanations and directions necessary for the satisfactory prosecution and completion of the work described in these specifications will be given.

CONTRACTOR AND/OR SUPPLIER: The person, firm, co-partnership, or corporation, or any lawful agent of such person, firm, partnership or corporation constituting one of the principals to the contract and undertaking to perform the work herein specified.

CONTRACT: The Agreement between the Contractor and the County of Yakima acting through the Board of County Commissioners. The contract shall include the accepted “Proposal”, “Plans”, “Specifications” and “Contract Bond”, also any and all supplemental agreements which reasonably could be required to complete the construction of the work in a substantial and acceptable manner.

PROPOSAL: The written offer, or copy thereof of the bidder to perform the work proposed.

PLANS: The officially approved drawings, or reproductions thereof attached to this contract.

SPECIFICATIONS: The directions, provisions and requirements contained herein, together with all written agreements made, or to be made pertaining to the method and manner of performing the work, or to the quantities and qualities of materials to be furnished under the contract.

CONTRACT BOND: The approved form of security furnished by the Contractor and his surety as a guarantee of good faith on the part of the Contractor to execute the work in accordance with the terms of the contract.

LABORATORY: The laboratories of the Department of Transportation, or other laboratories designated by the engineer.

AMOUNT OF THE CONTRACT: For the purpose of awarding the contract and determining the amount of the bond, the lump sum bid, or the summation of the products of the approximate quantities shown on the plans or otherwise stated by the unit prices will be considered the total amount of the bid and the full amount of the contract price.
Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

2. That by signing the signature page of this proposal, I am deemed to have signed and have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

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.
Certification Regarding
Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98, Section 98.510, Participant’s responsibilities. The regulations were published as Part VII of the May 26, 1998 Federal Register (pages 19160-19211).

(BEFORE COMPLETING CERTIFICATION, READ ATTACHED INSTRUCTIONS WHICH ARE AN INTEGRAL PART OF THE CERTIFICATION)

(1) The prospective recipient of federal assistance funds certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

(2) Where the prospective recipient of federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

This certification is also applicable to violations to prevailing wage law (chapter 39.12 RCW), registration law (chapter 18.27 RCW), or industrial insurance law (chapter 51.48 RCW).

________________________________________________________________________
Name and Title of Authorized Representative

_________________________    ______________________
Signature                      Date
CONTRACT

THIS AGREEMENT is made and entered into between Yakima County acting under and by virtue of Titles 36 and 39 RCW, hereinafter called the “COUNTY” and ______________, hereinafter called the “CONTRACTOR”.

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

I. The CONTRACTOR shall do all work and furnish all tools and equipment for C 3552 – Inspiration Drive, C 3242 - Scenic Crest Drive, & U6 3562 - Scenic Crest Drive Domestic Water, Improvement Project and shall perform any changes in the work in accordance with the Contract Documents, which include the Contract Form, Bidder’s completed Proposal Form, Scope of Work, Contract Plans, Contract Provisions, Standard Specifications, Standard Plans, Addenda, various certifications and affidavits, supplemental agreements, and any change orders.

II. The CONTRACTOR shall provide and bear the expense of all equipment, material and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in the Contract Documents except those items mentioned therein to be furnished by Yakima County.

III. The COUNTY hereby promises and agrees to pay the CONTRACTOR according to the conditions stated in the Contract Documents.

IV. The CONTRACTOR for itself, and for its heirs, executors, administrators, successors and assigns does hereby agree to the full performance of all the covenants herein contained upon the part of the CONTRACTOR.

V. It is further provided that no liability shall attach to the COUNTY by reason of entering into this Contract, except as expressly provided herein.

VI. The parties agree that, for the purpose of this agreement, the CONTRACTOR is an independent contractor and neither the CONTRACTOR nor any employee of the CONTRACTOR is an employee of the COUNTY. Neither the CONTRACTOR nor any employee of the CONTRACTOR is entitled to any benefits that the COUNTY provides its employees. The CONTRACTOR is solely responsible for payment of any statutory workers compensation or employer’s liability insurance as required by state law.

IN WITNESS WHEREOF, the CONTRACTOR has executed this instrument, on the date indicated below and Yakima County has caused this instrument to be executed in the name of said COUNTY by and through the Board of Yakima County Commissioners on the date indicated below.

CONTRACTOR:
Signed: ______________, 2015

__________________________
Signature for

__________________________
Print or Type Name of Person Signing

__________________________
Title

Foregoing Contract approved and ratified
__________________________, 20__

Surety

__________________________
Attorney in fact

BOARD OF YAKIMA COUNTY COMMISSIONERS

Signed: ______________, 2015

J. Rand Elliott, Chairman

__________________________
Michael D. Leita, Commissioner

__________________________
Kevin J. Bouchev, Commissioner

ATTEST: Clerk of the Board

__________________________
Tiera Girard

Approved as to form:

__________________________
Deputy Prosecuting Attorney

INFORMATIONAL BID DOCUMENTS
C 3552, C 3242, & U6 3562
PERFORMANCE BOND
(RCW 39.08)

KNOW ALL MEN BY THESE PRESENTS, That ________________, as “PRINCIPAL”, and ________________, a corporation authorized to do business in the State of Washington, as “SURETY”, are jointly and severally held and bound unto Yakima County, Washington in the penal sum ________________ Dollars ($______), for the payment of which by these presents we jointly and severally bind ourselves, our heirs, executors, administrators, assigns, and successors.

THE CONDITION of this bond is such that WHEREAS, on ________________, 20___, the PRINCIPAL executed a certain Contract with the County, by the terms of which PRINCIPAL agrees to furnish all material and labor and will undertake and complete the construction of for C 3552 – Inspiration Drive, C 3242 – Scenic Crest Drive, & U6 3562 – Scenic Crest Drive Domestic Water, Improvement Project, according to the maps, plans and specifications made a part of said Contract, which Contract is attached hereto and by this reference is incorporated herein and made a part hereof. FURTHER, the SURETY agrees to be bound by the laws of the State of Washington and subjected to the jurisdiction of the State of Washington.

NOW, THEREFORE, if the PRINCIPAL shall faithfully perform all the provisions of such contract and pay all laborers, mechanics, subcontractors and materialmen, and all persons who supply such persons or subcontractors with provisions or supplies for the carrying on of such work, then this obligation to be void, otherwise to remain in full force and effect.

Dated this ______ day of ______________________, 2015.

PRINCIPAL

By: ________________________________

Title: ________________________________

Chair of the Board of
Yakima County Commissioners

Date: ________________, 2015

SURETY

By: ________________________________

Attorney-in-Fact

Approved as to form:

Date: ________________________________

Deputy Prosecuting Attorney

Name of Local Office of Agent

Address of Local Office Agent

BOND NUMBER

YAKIMA COUNTY CONTRACT NUMBER
AMENDMENTS TO THE
STANDARD SPECIFICATIONS
AMENDMENTS
TO THE STANDARD SPECIFICATIONS

C 3552 – INSPIRATION DRIVE: End of Rd. to S. 31st St.
C 3242 – SCENIC CREST DRIVE: University Pkwy. To End of Road
U6 3562 – SCENIC CREST DRIVE DOMESTIC WATER

YAKIMA COUNTY WASHINGTON

INTRODUCTION

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

AMENDMENTS TO THE STANDARD SPECIFICATIONS

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

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

DIVISION 1
GENERAL REQUIREMENTS

SECTION 1-01, DEFINITIONS AND TERMS
August 4, 2014

1-01.3 Definitions
The definition for “Engineer” is revised to read:

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

The definition for “Inspector” is revised to read:

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

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

Same as Engineer.

The definition for “Working Drawings” is revised to read:
Drawings, plans, diagrams, or any other supplementary data or calculations, including a schedule of submittal dates for Working Drawings where specified, which the Contractor must submit to the Engineer.

SECTION 1-02, BID PROCEDURES AND CONDITIONS
April 7, 2014

1-02.8(1) Noncollusion Declaration
The third paragraph is revised to read:

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

SECTION 1-03, AWARD AND EXECUTION OF CONTRACT
January 5, 2015

1-03.3 Execution of Contract
The first paragraph is revised to read:

Within 20 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, and shall be registered as a contractor in the state of Washington.

1-03.4 Contract Bond
The last word of item 3 is deleted.

Item 4 is renumbered to 5.

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

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

1-03.5 Failure to Execute Contract
The first sentence is revised to read:

Failure to return the insurance certification and bond with the signed Contract as required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women’s Business Enterprise information if required in the Contract, or failure or refusal to sign the Contract, or failure to register as a contractor in the state of Washington shall result in forfeiture of the proposal bond or deposit of this Bidder.
SECTION 1-04, SCOPE OF THE WORK
August 4, 2014

1-04.4 Changes

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

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

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

The last two paragraphs are deleted.

This section is supplemented with the following new subsections:

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

1-04.4(2)A General

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

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

The VECP shall meet all of the following:

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

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

1. Time saving is a direct result of the VECP.
2. Liquidated damages penalties are not used to calculate savings.

3. Administrative/overhead cost savings experienced by either the Contractor or Contracting Agency as a result of time reduction accrue to each party and are not used to calculate savings.

1-04.4(2)B VECP Savings

1-04.4(2)B1 Proposal Savings
The incentive payment to the Contractor shall be one-half of the net savings of the proposal calculated as follows:

1. (gross cost of deleted work) – (gross cost of added work) = (gross savings)

2. (gross savings) – (Contractor’s engineering costs) – (Contracting Agency’s costs) = (net savings)

3. (net savings) / 2 = (incentive pay)

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

1-04.4(2)B2 Added Costs to Achieve Time Savings
The cost to achieve the time savings shall be calculated as follows:

1. (cost of added work) + (Contractor’s engineering costs - Contracting Agency’s engineering costs) = (cost to achieve time savings)

2. (cost to achieve time savings) / 2 = (Contracting Agency’s share of added cost)

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

1-04.4(2)C VECP Approval

1-04.4(2)C1 Concept Approval
The Contractor shall submit a written proposal to the Engineer for consideration. The proposal shall contain the following information:

1. An explanation outlining the benefit provided by the change(s).
2. A narrative description of the proposed change(s). If applicable, the discussion shall include a demonstration of functional equivalency or a description of how the proposal meets the original contract scope of work.

3. A cost discussion estimating any net savings. Savings estimates will generally follow the outline below under the section, “Proposal Savings”.

4. A statement providing the Contracting Agency with the right to use all or any part of the proposal on future projects without future obligation or compensation.

5. A statement acknowledging and agreeing that the Engineer’s decision to accept or reject all or part of the proposal is final and not subject to arbitration under the arbitration clause or otherwise be subject to claims or disputes.

6. A statement giving the dates the Engineer must make a decision to accept or reject the conceptual proposal, the date that approval to proceed must be received, and the date the work must begin in order to not delay the contract. If the Contracting Agency does not approve the VECP by the date specified by the Contractor in their proposal the VECP will be deemed rejected.

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

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

1-04.4(2)C2 Formal Approval
The Contractor’s submittal to the Engineer for formal approval shall include the following:

1. Deleted Work – Include the calculated quantities of unit price Work to be deleted. Include the proposed partial prices for portions of lump sum Work deleted. For deletion of force account items include the time and material estimates.

2. Added Work – Include the calculated quantities of unit price Work to be added, either by original unit Contract prices or by new, negotiated unit prices. For new items of Work include the quantities and proposed prices.
3. Contractor's Engineering Costs – Submit the labor costs for the engineering to develop the proposal; costs for Contractor employees utilized in contract operations on a regular basis shall not be included.

4. Schedule Analysis – If the VECP is related to time savings, the Contractor shall submit a partial progress schedule showing the changed Work. The submittal shall also include a discussion comparing the partial progress schedule with the approved progress schedule for the project.

5. Working Drawings – Type 3 Working Drawings shall be submitted; those drawings which require engineering shall be a Type 3E.

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

1. The Contractor accepts design risk of all features, both temporary and permanent, of the changed Work.

2. The Contractor accepts risk of constructability of the changed Work.

3. The Contractor provides the Contracting Agency with the right to use all or any part of the proposal on future projects without further obligation or compensation.

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

1. Deleted Work.

2. Added Work.

3. The Contractor's engineering costs, reimbursed at 100 percent of the Contractor's cost.

4. Incentive payment to the Contractor.

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

3. The Contracting Agency's share of added cost to achieve time savings.

4. The Contractor's share of savings from deleted Work.
1-04.4(2)C3 Authority to Proceed with Changed Work

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

1. Execution of the VECP change order, or

2. At the Contractor’s request the Contracting Agency may provide approval by letter from the Engineer for the Work to proceed prior to execution of a change order. All of the risk for proceeding with the VECP shall be the responsibility of the Contractor. Additionally, the following criteria are required to have been met:

   a) Concept approval has been granted by the Contracting Agency.

   b) All design reviews and approvals have been completed, including plans and specifications.

   c) The Contractor has guaranteed, in writing, the minimum savings to the Contracting Agency.

SECTION 1-05, CONTROL OF WORK

August 4, 2014

1-05.1 Authority of the Engineer

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

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

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

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

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

1-05.2 Authority of Assistants and Inspectors

The first paragraph is revised to read:

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

In the third paragraph, “Project Engineer” is revised to read “Engineer”.
1-05.3 Plans and Working Drawings
This section’s title is revised to read:

Working Drawings

This section is revised to read:

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

Working Drawings will be classified under the following categories:

1. **Type 1** – Submitted for Contracting Agency information. Submittal must be received by the Contracting Agency a minimum of 7 calendar days before work represented by the submittal begins.

2. **Type 2** – Submitted for Contracting Agency review and comment. Unless otherwise stated in the Contract, the Engineer will require up to 20 calendar days from the date the Working Drawing is received until it is returned to the Contractor. The Contractor shall not proceed with the Work represented by the Working Drawing until comments from the Engineer have been addressed.

3. **Type 2E** – Same as a Type 2 Working Drawing with Engineering as described below.

4. **Type 3** – Submitted for Contracting Agency review and approval. Unless otherwise stated in the Contract, the Engineer will require up to 30 calendar days from the date the Working Drawing is received until it is returned to the Contractor. The Contractor shall obtain the Engineer’s written approval before proceeding with the Work represented by the Working Drawing.

5. **Type 3E** – Same as a Type 3 Working Drawing with Engineering as described below.

All Working Drawings shall be considered Type 3 Working Drawings except as specifically noted otherwise in the Contract. Unless designated otherwise by the Contractor, submittals of Working Drawings will be reviewed in the order they are received by the Engineer. In the event that several Working Drawings are received simultaneously, the Contractor shall specify the sequence in which they are to be reviewed. If the Contractor does not submit a review sequence for simultaneous Working Drawing submittals, the review sequence will be at the Engineer’s discretion.
Working Drawings requiring Engineering, Type 2E and 3E, shall be prepared by (or under
the direction of) a Professional Engineer, licensed under Title 18 RCW, State of Washington,
and in accordance with WAC 196-23-020. Design calculations shall carry the Professional
Engineer’s signature and seal, date of signature, and registration number on the cover page.
The cover page shall also include the Contract number, Contract title and sequential index to
calculation page numbers.

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

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

Unit Bid prices shall cover all costs of Working Drawings.

SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC
January 5, 2015

1-07.2 State Taxes
This section is revised to read:

The Washington State Department of Revenue has issued special rules on the state sales tax.
Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contracting
Agency will not adjust its payment if the Contractor bases a Bid on a misunderstood tax
liability.

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

1-07.2(1) State Sales Tax: Work Performed on City, County, or Federally-Owned Land
This section including title is revised to read:

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

The Summary of Quantities in the Contract Plans identifies those parts of the project that are
subject to Use Tax under Section 1-07.2(1).
1-07.2(2) State Sales Tax: Work on State-Owned or Private Land
This section including title is revised to read:

1-07.2(2) State Sales Tax: WAC 458-20-170 – Retail Sales Tax
For Work designated as Rule 170, Retail Sales Tax, the Contractor shall collect from the Contracting Agency, Retail Sales Tax on the full Contract price. The Contracting Agency will automatically add this Retail Sales Tax to each payment to the Contractor and for this reason; the Contractor shall not include the Retail Sales Tax in the unit Bid prices or in any other Contract amount. However, the Contracting Agency will not provide additional compensation to the Prime Contractor or Subcontractor for Retail Sales Taxes paid by the Contractor in addition to the Retail Sales Tax on the total contract amount. Typically, these taxes are collected on items such as 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 prices or in any other Contract amounts.

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

1-07.2(3) Services
This section is revised to read:

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

1-07.23(1) Construction Under Traffic
In the second paragraph, the following new sentence is inserted after the second sentence:

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

SECTION 1-08, PROSECUTION AND PROGRESS
May 5, 2014

1-08.1 Subcontracting
The eighth paragraph is revised to read:

On all projects, the Contractor shall certify to the actual amounts paid to Disadvantaged, Minority, Women’s, or Small Business Enterprise firms that were used as Subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service providers on the Contract. This Certification shall be submitted to the Project Engineer on a monthly basis each month between Execution of the Contract and Physical Completion of the contract using the application available at: https://remoteapps.wsdot.wa.gov/mapsdata/tools/ddepparticipation. The monthly report is due 20 calendar days following the end of the month. A monthly report shall be submitted for every month between Execution of the
Contract and Physical Completion regardless of whether payments were made or work occurred.

The ninth paragraph is deleted.

SECTION 1-09, MEASUREMENT AND PAYMENT
January 5, 2015

1-09.6 Force Account
In the third paragraph of item number 3, the last sentence is revised to read:

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

SECTION 1-10, TEMPORARY TRAFFIC CONTROL
August 4, 2014

1-10.1(1) Materials
The following material reference is deleted from this section:

Barrier Drums  9-35.8

1-10.1(2) Description
The first paragraph is revised to read:

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

1-10.2(1) General
In the third paragraph, the first two sentences are revised to read:

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

1-10.2(1)B Traffic Control Supervisor
The first paragraph is revised to read:

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

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

1-10.2(2) Traffic Control Plans
The first paragraph is revised to read:

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

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

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

1-10.2(3) Conformance to Established Standards
In the second paragraph, the second sentence is revised to read:

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

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

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

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

1-10.3(1) Traffic Control Labor
The first paragraph is revised to read:

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

1-10.3(1)A Flaggers and Spotters
This section’s title is revised to read:

Flaggers
The first paragraph is revised to read:

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

The last paragraph is deleted.

1-10.3(1)B Other Traffic Control Labor

This section is revised to read:

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

1-10.3(3)B Sequential Arrow Signs

This section is supplemented with the following:

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

1-10.3(3)C Portable Changeable Message Signs

This section is revised to read:

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

1-10.3(3)F Barrier Drums

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

1-10.3(3)F Vacant

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

The fifth paragraph is revised to read:

The Project Engineer or designee will inspect the signal system at initial installation/operation and approve the signal timing. Final approval will be based on the results of the operational inspection.
I-10.4(2) Item Bids With Lump Sum for Incidentals
In the second paragraph, the first and second sentences are revised to read:

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

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

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

I-10.5(2) Item Bids With Lump Sum for Incidentals
This section is deleted and replaced with the following:

"Traffic Control Supervisor", lump sum.

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

"Pedestrian Traffic Control", lump sum.

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

"Flaggers", per hour.

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

"Other Traffic Control Labor", per hour.

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

"Construction Signs Class A", per square foot.

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

"Sequential Arrow Sign", per hour.

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

"Portable Changeable Message Sign", per hour.

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

"Transportable Attenuator", per each.

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

"Operation of Transportable Attenuator", per hour.

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

"Repair Transportable Attenuator", by force account.

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

"Other Temporary Traffic Control", lump sum.

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

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

DIVISION 2
EARTHWORK

SECTION 2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP
August 4, 2014

2-01.3(1) Clearing
In the second paragraph, item number 3 (up until the colon) is revised to read:

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

SECTION 2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS
January 5, 2015

2-02.3(2) Removal of Bridges, Box Culverts, and Other Drainage Structures
This section is supplemented with the following new subsections:

2-02.3(2)A Bridge Removal
2-02.3(2)A1 Bridge Demolition Plan Submittal
The Contractor shall submit a Type 2E Working Drawing consisting of a bridge demolition plan, showing the method of removing the existing bridge(s), or portions of bridges, as specified.

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

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

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

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

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

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

The Contractor shall roughen, clean, and saturate existing concrete surfaces, against which fresh concrete will be placed, in accordance with Section 6-02.3(12)B. When a portion of existing concrete is to be removed without replacement, concrete shall be removed to a clean line with a smooth surface of less than 1/16 inch profile.

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

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

2-02.5 Payment

This section is supplemented with the following new Bid items:

“Removing Existing Bridge___”, lump sum.

“Removing Existing Structure___”, lump sum.

“Removing Portion of Existing Bridge___”, lump sum.

“Removing Portion of Existing Structure___”, lump sum.
SECTION 2-03, ROADWAY EXCAVATION AND EMBANKMENT
August 4, 2014

2-03.3(14) Embankment Construction
The third paragraph is revised to read:

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

2-03.3(14)L Embankment Widening for Guardrail
The first sentence is revised to read:

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

The second sentence is deleted.

SECTION 2-09, STRUCTURE EXCAVATION

Section 2-09, Structure Excavation
January 5, 2015

2-09.4 Measurement
The seventh paragraph is revised to read:

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

DIVISION 3
AGGREGATE PRODUCTION AND ACCEPTANCE

SECTION 3-04, ACCEPTANCE OF AGGREGATE
August 4, 2014

3-04.5 Payment
In Table 2, the row containing the item “HMA Aggregate” is revised to read:

| 9-03.8(2) | HMA Aggregate |   |   | 15 | 15 | Uncompacted |
DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

SECTION 5-04 HOT MIX ASPHALT
January 5, 2015

5-04.3(3)A Material Transfer Device/Vehicle
The first paragraph is supplemented with the following new sentence:

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

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

5-04.3(5)A Preparation of Existing Surfaces
The first sentence of the last paragraph is revised to read:

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

5-04.3(7)A3 Commercial Evaluation
The second sentence in the first paragraph is revised to read:

Mix designs for HMA accepted by commercial evaluation shall be submitted to the Project Engineer on WSDOT Form 350-042.

5-04.3(8)A4 Definition of Sampling and Sublot
In the second sentence of the second paragraph, "800 tons" is revised to read "1,000 tons".

5-04.3(10)A General
In the first paragraph, "checking" and "cracking" are deleted.

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

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

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

Regardless of mix temperature, a roller shall not be operated in a mode that results in checking or cracking of the mat.
5-04.3(10)B1 General

In this section, "Project Engineer" is revised to read "Engineer".

The first paragraph is revised to read:

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

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

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

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

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

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

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

Sublots will be uniform in size with a maximum of approximately 100 tons per sublot; the final sublot of the day may be increased to 150 tons.

5-04.3(10)B4 Test Results

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

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

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

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

In the second paragraph, the fourth sentence is deleted.

5-04.3(20) Anti-Stripping Additive
This section is revised to read:

Anti-stripping additive shall be added to the liquid asphalt by the asphalt supplier prior to shipment to the hot mix asphalt mixing plant in the amount designated in the WSDOT mix design evaluation report provided by the Contracting Agency. Paving shall not begin before the anti-strip requirements have been provided to the Contractor. Anti-strip is not required for temporary work that will be removed prior to Completion.

5-04.4 Measurement
The following new paragraph is inserted after the first paragraph:

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

The second to last paragraph is deleted.

5-04.5 Payment
The bid item "Removing Temporary Pavement Marking", per linear foot and paragraph following bid item are deleted.

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

"Roadway Core", per each.

The Contractor's costs for all other Work associated with the coring (e.g., traffic control) shall be incidental and included within the unit Bid price per each and no additional payments will be made.
DIVISION 6
STRUCTURES

SECTION 6-02, CONCRETE STRUCTURES
January 5, 2015

6-02.3(1) Classification of Structural Concrete
In paragraph two, item number 1 is revised to read:

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

Item number 3 is renumbered to 4.

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

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

6-02.3(2) Proportioning Materials
In the third paragraph, the first sentence is revised to read:

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

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

The fourth paragraph is revised to read:

When both ground granulated blast furnace slag and fly ash are included in the concrete mix, the total weight of both these materials is limited to 40 percent by weight of the total cementitious material for concrete class 4000A, and 50 percent by weight of the total cementitious material for all other classes of concrete.

6-02.3(2)A Contractor Mix Design
The first paragraph is revised to read:

The Contractor shall provide a mix design in writing to the Engineer for all classes of concrete specified in the Plans except for lean concrete and commercial concrete. No concrete shall be placed until the Engineer has reviewed the mix design. The required average 28-day compressive strength shall be selected in accordance with ACI 318, Chapter 5, Section 5.3.2. ACI 211.1 and ACI 318 shall be used to determine proportions. All proposed concrete mixes except Class 4000D shall meet the requirements in Cementitious Requirement for Concrete in Section 6-02.3(2).

In the fourth paragraph, the fourth sentence is deleted.
In the sixth paragraph, the first sentence is deleted.

In the seventh paragraph, the last sentence is deleted.

The eighth paragraph is revised to read:

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

The following new sub-section is added:

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

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

1. Aggregate shall use combined gradation in accordance with Section 9-03.1(5) with a nominal maximum aggregate size of 1-1/2 inches.

2. Permeability shall be less than 2,000 coulombs at 56 days in accordance with AASHTO T 277.

3. Freeze-thaw durability shall be provided by one of the following methods:
   a. The concrete shall maintain an air content between 4.5 and 7.5 percent.
   b. The concrete shall maintain a minimum air content that achieves a durability factor of 90 percent, minimum, after 300 cycles in accordance with AASHTO T 161, Procedure A. This air content shall not be less than 3.0 percent. Test samples shall be obtained from concrete batches of a minimum of 3.0 cubic yards.

4. Scaling shall have a visual rating less than or equal to 2 after 50 cycles in accordance with ASTM C 672.

5. Shrinkage at 28 days shall be less than 320 micro strain in accordance with AASHTO T 160.

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

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

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

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

The first two sentences are revised to read:

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

6-02.3(5) A General

The first paragraph is revised to read:

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

1. Lean concrete.

2. Commercial concrete.

3. Class 4000P concrete for Roadside Steel Sign Support Foundations.

4. Class 4000P concrete for Type II, III, and CCTV Signal Standard Foundations that
   are 12'-0" or less in depth.

5. Class 4000P concrete for Type IV and V Strain Pole Foundations that are 12'-0" or
   less in depth.

6. Class 4000P concrete for Steel Light Standard Foundations Types A & B.

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

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

6-02.3(5) G Sampling and Testing Frequency for Temperature, Consistency, and Air
Content

In the fifth sentence of the second paragraph, “five truck loads” is revised to read “ten truck
loads”.

The second paragraph is supplemented with the following:

If the remaining quantity to be placed is less than ten truck loads; then a sample shall be
randomly taken from one of the remaining truck loads.
In the last sentence of the third paragraph, “five truck loads” is revised to read “ten truck loads”.

6-02.3(5)H Sampling and Testing for Compressive Strength and Initial Curing
The second paragraph is revised to read:

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

The following new paragraph is inserted after the last paragraph:

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

6-02.3(6)A2 Cold Weather Protection
The first sentence in the first paragraph is revised to read:

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

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

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

6-02.3(10)A Preconstruction Meeting
This section including title is revised to read:

6-02.3(10)A Pre-Deck Pour Meeting
A pre-deck pour meeting shall be held 5 to 10 working days before placing deck concrete to discuss construction procedures, personnel, equipment to be used, concrete sampling and testing and deck finishing and curing operations. Those attending shall include, at a minimum, the superintendent, foremen in charge of placing and finishing concrete, and representatives from the concrete supplier and the concrete pump truck supplier.
If the project includes more than one bridge deck, and if the Contractor’s key personnel
change between concreting operations, or at request of the Engineer, additional conferences
shall be held before each deck placement.

6-02.3(10)D Concrete Placement, Finishing, and Texturing
This section is supplemented with the following new sub-sections:

6-02.3(10)D1 Test Slab Using Bridge Deck Concrete
After the Contractor receives the Engineer’s approval for the Class 4000D concrete mix
design, and a minimum of seven calendar days prior to the first placement of bridge deck
concrete, the Contractor shall construct a test slab using concrete of the approved mix
design.

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

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

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

6-02.3(10)D2 Preparation for Concrete Placement
Before placing bridge approach slab concrete, the subgrade shall be constructed in
accordance with Sections 2-06 and 5-05.3(6).

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

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

6-02.3(10)D3 Concrete Placement
The placement operation shall cover the full width of the bridge deck or the full width
between construction joints. The Contractor shall locate any construction joint over a beam
or web that can support the deck/slab on either side of the joint. The joint shall not occur
over a pier unless the Plans permit. Each joint shall be formed vertically and in true
alignment. The Contractor shall not release falsework or wedges supporting bridge deck placement sections on either side of a joint until each side has aged as these Specifications require.

Placement of concrete for bridge decks and bridge approach slabs shall comply with Section 6-02.3(6). In placing the concrete, the Contractor shall:

1. Place it (without segregation) against concrete placed earlier, as near as possible to its final position, approximately to grade, and in shallow, closely spaced piles;

2. Consolidate it around reinforcing steel by using vibrators before strike-off by the finishing machine;

3. Not use vibrators to move concrete;

4. Not re-vibrate any concrete surface areas where workers have stopped prior to screeding;

5. Remove any concrete splashed onto reinforcing steel in adjacent segments before concreting them;

6. Maintain a slight excess of concrete in front of the screed across the entire width of the placement operation;

7. Operate the finishing machine to create a surface that is true and ready for final finish without overfinishing or bringing excessive amounts of mortar to the surface; and

8. Leave a thin, even film of mortar on the concrete surface after the last pass of the finishing machine pan.

Workers shall complete all post screeding operations without walking on the concrete. This may require work bridges spanning the full width of the deck/slab.

After removing the screed supports, the Contractor shall fill the voids with concrete (not mortar).

If the surface left by the finishing machine is porous, rough, or has minor irregularities, the Contractor shall float the surface of the concrete. Floating shall leave a smooth and even surface. Float finishing shall be kept to the minimum number of passes necessary to seal the surface. The floats shall be at least 4-feet long. Each transverse pass of the float shall overlap the previous pass by at least half the length of the float. The first floating shall be at right angles to the strike-off. The second floating shall be at right angles to the centerline of the span. A smooth riding surface shall be maintained across construction joints.
The edge of completed roadway slabs at expansion joints and compression seals shall have a 3/8-inch radius.

After floating, but while the concrete remains plastic, the Contractor shall test the entire deck/slab for flatness (allowing for crown, camber, and vertical curvature). The testing shall be done with a 10-foot straightedge held on the surface. The straightedge shall be advanced in successive positions parallel to the centerline, moving not more than one half the length of the straightedge each time it advances. This procedure shall be repeated with the straightedge held perpendicular to the centerline. An acceptable surface shall be one free from deviations of more than 1/8-inch under the 10-foot straightedge.

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

6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement
The Contractor shall monitor and record the concrete temperature and ambient temperature hourly for seven calendar days after placement. The Contractor shall monitor and record concrete temperature by placing two maturity meter temperature monitoring devices in the bridge deck at locations specified by the Engineer. The Contractor shall monitor ambient temperature using maturity meters near the locations where concrete temperature is being monitored. When the bridge deck is being enclosed and heated to meet cold weather requirements, ambient temperature readings shall be taken within the enclosure. The Contractor shall submit the concrete temperature and ambient temperature data to the Engineer in spreadsheet format within 14 calendar days from placing the bridge deck concrete.

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

6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing
Except as otherwise specified for portions of bridge decks receiving an overlay or sidewalk under the same Contract, the Contractor shall texture the surface of the bridge deck as follows:

The Contractor shall texture the bridge deck using diamond tipped saw blades mounted on a power driven, self-propelled machine that is designed to texture concrete surfaces. The grooving equipment shall provide grooves that are 1/8" ± 1/64" wide, 3/16" ± 1/16" deep, and spaced at 3/4" ± 1/8". The bridge deck shall not be textured with a metal tined comb.
The Contractor shall submit the type of grooving equipment to be used to the Engineer for approval 30 calendar days prior to performing the work. The Contractor shall demonstrate that the method and equipment for texturing the bridge deck will not chip, spall or otherwise damage the deck. The Contractor shall not begin texturing the bridge deck until receiving the Engineer’s approval of the Contractor’s method and equipment.

Unless otherwise approved by the Engineer, the Contractor shall texture the concrete bridge deck surface either in a longitudinal direction, parallel with centerline or in a transverse direction, perpendicular with centerline. The Contractor shall texture the bridge deck surface to within 3-inches minimum and 15-inches maximum of the edge of concrete at expansion joints, within 1-foot minimum and 2-feet maximum of the curb line, and within 3-inches minimum and 9-inches maximum of the perimeter of bridge drain assemblies.

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

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

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

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

6-02.3(10)D6 Bridge Approach Slab Finishing and Texturing
Bridge approach slabs shall be textured either in accordance with Section 6-02.3(10)D5, or using metal tined combs in the transverse direction, except bridge approach slabs receiving an overlay in the same Contract shall be finished as specified in Section 6-02.3(10)D5 only.

The comb shall be made of a single row of metal tines. It shall leave striations in the fresh concrete approximately 3/16-inch deep by 1/8-inch wide and spaced approximately 1/2-inch apart. The Engineer will decide actual depths at the site. If the comb has not been approved, the Contractor shall obtain the Engineer’s approval by demonstrating it on a test section. The Contractor may operate the combs manually or mechanically, either singly or with several placed end to end. The timing and method used shall produce the required texture without displacing larger particles of aggregate.
Texturing shall end 2-feet from curb lines. This 2-foot untextured strip shall be hand finished with a steel trowel.

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

6-02.3(10)F Bridge Approach Slab Orientation and Anchors
In the first paragraph, the following sentence is inserted after the first sentence:

Unless otherwise shown in the Plans, the pavement end of the bridge approach slab shall be constructed normal to the Roadway centerline.

The following new paragraph is inserted before the last paragraph:

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

6-02.3(11) Curing Concrete
Items number 1 through 4 are deleted and replaced with the following 5 new numbered items:

1. Bridge sidewalks, roofs of cut and cover tunnels — curing compound covered by white, reflective type sheeting or continuous wet curing. Curing by either method shall be for at least 10 days.

2. Bridge decks — See Section 6-02.3(11)B.

3. Bridge approach slabs (Class 4000A concrete) - 2 coats of curing compound and continuous wet cure for at least 10-days.

4. Concrete barriers and rail bases – See Section 6-02.3(11)A.

5. All other concrete surfaces — continuous wet cure for at least three days.

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

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

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

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

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

The eighth paragraph is deleted.

6-02.3(11)A2 Slip-Form Barrier
In the fourth paragraph, item number 1, “Type 1D” is revised to read “Type 1”.

6-02.3(11)B Curing Bridge Decks
This new section is supplemented with the following new sub-sections:

6-02.3(11)B1 Equipment
The Contractor shall maintain a wet sheen, without developing pooling or sheeting water, using a fogging apparatus consisting of pressure washers with a minimum nozzle output of 1,500 psi, or other means approved by the Engineer.

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

6-02.3(11)B2 Curing
The fogging apparatus shall be in place and charged for fogging prior to beginning concrete placement for the bridge deck.

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

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

1. The Contractor shall fog the bridge deck while maintaining a wet sheen without developing pooling or sheeting water.

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

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

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

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

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

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

1. Grooves shall be \( \frac{1}{2} \) to 1 inch wide, \( \frac{1}{4} \) to \( \frac{1}{2} \) inch deep, and spaced equally at twice the width of the groove. Grooves shall terminate approximately 1 \( \frac{1}{2} \)-inches from the face of concrete.

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

If the Engineer approves, the Contractor may use an alternate method to produce a roughened surface on the joint, provided that such an alternate method leaves a roughened surface of at least a \( \frac{1}{4} \)-inch amplitude.

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

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

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

6-02.3(13) Expansion Joints

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

Joints made of a vulcanized, elastomeric compound (with neoprene as the only polymer) shall be installed with a lubricant adhesive as recommended by the manufacturer.
In the third paragraph, "injuring" is revised to read "damaging".

The following two new subsections are added:

6-02.3(13)A Strip Seal Expansion Joint System
The Contractor shall submit Working Drawings consisting of the strip seal expansion joint shop drawings in accordance with Section 6-03.3(7). These plans shall include, at a minimum, the following:

1. Plan, elevation, and sections of the joint system and all components, with dimensions and tolerances.

2. All material designations.

3. Manufacturer's written installation procedure.

4. Corrosion protection system used on the metal components.

5. Locations of welded shear studs, lifting mechanisms, temperature setting devices, and construction adjustment devices.

6. Method of sealing the system to prevent leakage of water through the joint.

The strip seal shall be removable and replaceable.

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

1. Zinc metallized in accordance with Section 6-07.3(14).

2. Hot-dip galvanized in accordance with AASHTO M 111.

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

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

Other than items shown in the Plans, threaded studs used for construction adjustments are the only items that may be welded to the steel shapes provided they are removed by grinding after use, and the area repaired by application of an approved corrosion protection system.
If the opening between the steel shapes is anticipated to be less than 1-1/2 inches at the time of seal installation, the seal may be installed prior to encasement of the steel shapes in concrete.

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

6-02.3(13)B Compression Seal Expansion Joint System
Compression seal glands shall be selected from the current Qualified Products List and sized as shown in the Plans.

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

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

6-02.3(14) Finishing Concrete Surfaces
The last sentence of the first paragraph is revised to read:

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

The following new subsection is added:

6-02.3(14)D General Requirements for Concrete Surface Finishes Produced by Form Liners
Horizontal and vertical joints shall be spliced in accordance with the manufacturer's printed instructions. The Contractor shall submit a Type 1 Working Drawing consisting of the manufacturer's joint splice instructions.

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

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

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

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

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

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

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

The second paragraph is deleted.

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

6-02.3(15) Date Numerals

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

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

6-02.3(16) Plans for Falsework and Formwork

This section is revised to read:

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

The design of falsework and formwork shall be based on:

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

2. Allowable stresses and deflections which are no greater than those described in Section 6-02.3(17)B, Allowable Stresses and Deflections;

3. Special loads and requirements no less severe than those described in Section 6-02.3(17)C, Falsework and Formwork at Special Locations;

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

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

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

1. The initials and dates of all participating design professionals.

2. Clear notation of all revisions including identification of who authorized the revision, who made the revision, and the date of the revision.

3. The Contract number, Contract title, and sequential sheet number. These shall also be on any related documents.

4. Identify where the falsework and formwork plan will be utilized by referencing Contract Plan sheet number and related item or detail.

6-02.3(16)A Nonpreapproved Falsework and Formwork Plans
This section, including title, is deleted in its entirety and replaced with the following:

6-02.3(16)A Vacant

6-02.3(16)B Preapproved Formwork Plans
This section, including title, is revised to read:

6-02.3(16)B Pre-Contract Review of Falsework and Formwork Plans
The Contractor may request pre-contract review of formwork plans for abutments, wingwalls, diaphragms, retaining walls, columns, girders and beams, box culverts, railings,
and bulkheads. Plans for falsework supporting the bridge deck for interior spans between
precast prestressed concrete girders may also be submitted for pre-contract review.

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

BridgeConstructionSupport@wsdot.wa.gov

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

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

6-02.3(17)A Design Loads
The fifth paragraph is revised to read:

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

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

6-02.3(17)J Face Lumber, Studs, Wales, and Metal Forms
The second to last paragraph is deleted.

6-02.3(17)O Early Concrete Test Cylinder Breaks
The third paragraph is revised to read:

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

6-02.3(20) Grout for Anchor Bolts and Bridge Bearings
The first five paragraphs are deleted and replaced with the following two new paragraphs:

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

Grout shall be a workable mix with a viscosity that is suitable for the intended application.
The Contractor shall receive approval from the Engineer before using the grout.
6-02.3(24)E Welding Reinforced Steel

This section is revised to read:

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

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

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

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

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

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

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

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

Where epoxy-coated steel reinforcing bars are specified to be spliced by welding, the epoxy coating shall be left off or removed from the surfaces to be heated, but in no cases less than six inches of each bar being welded. After the welding is complete, the Contractor shall apply epoxy patching material to the uncoated portions of the bar in accordance with Section 6-02.3(24)H.
6-02.3(25) Prestressed Concrete Girders

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

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

6-02.3(25)I Fabrication Tolerances

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

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

For deck bulb tee girders and PCPS members with grouted shear keys: Cambers shall be equalized when the differences in cambers between adjacent girders exceeds ± ¼ inch

For deck bulb tee girders and PCPS members without grouted shear keys: Cambers shall be equalized when the differences in cambers between adjacent girders exceeds ± ½ inch

For all other prestressed concrete girders: ± ⅛ inch per 10 feet of girder length

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

This section, including title, is revised to read:

Deck Bulb Tee Girder Flange and PCPS Member Connection

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

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

1. Deflections shall be equalized per the Contractor’s equalization plan.

2. Intermediate diaphragms shall be placed and weld ties shall be welded. Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties.

3. The keyways shown in the Plans to receive grout shall be filled flush with the surrounding surfaces using a grout conforming to Section 9-20.3(2).

4. Equalization equipment shall not be removed and other construction equipment shall not be placed on the structure until intermediate diaphragms have attained a
minimum compressive strength of 2,500 psi and keyway grout has achieved a minimum compressive strength of 4000 psi.

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

1. Deflections shall be equalized per the Contractor’s equalization plan.

2. Intermediate diaphragms shall be placed and weld ties shall be welded. Welding ground shall be attached directly to the steel plates being welded when welding the weld-ties.

3. Equalization equipment shall not be removed and other construction equipment shall not be placed on the structure until intermediate diaphragms have attained a minimum compressive strength of 2,500 psi.

6-02.3(26)F Prestressing Reinforcement
The last sentence in the fourth paragraph is revised to read:

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

6-02.3(28) Precast Concrete Panels
In the first paragraph, the third sentence is revised to read:

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

6-02.4 Measurement
The following three new paragraphs are inserted before the last paragraph:

Expansion joint system seal - superstr. will be measured by the linear foot along its completed line and slope.

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

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

6-02.5 Payment
In the paragraph following the bid item “Commercial Concrete”, per cubic yard the second sentence is revised to read:
All costs in connection with concrete curing, producing concrete surface finish with form liners, and furnishing and applying pigmented sealer to concrete surfaces as specified, shall be included in the unit contract price per cubic yard for "Conc. Class ____".

The following new paragraph is inserted after the bid item “Superstructure (name bridge)”, lump sum:

All costs in connection with constructing, finishing and removing the bridge deck test slab as specified in Section 6-02.3(10)D1 shall be included in the lump sum Contract price for “Superstructure____” or “Bridge Deck____” for one bridge in each project, as applicable.

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

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

The bid item “Cure Box”, lump sum and paragraph following bid item are deleted.

The following three new bid items are inserted before the bid item “Bridge Approach Slab”, per square yard:

“Expansion Joint System _____ - Superstr.”, per linear foot.

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

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

DIVISION 8
MISCELLANEOUS CONSTRUCTION

SECTION 8-01, EROSION CONTROL AND WATER POLLUTION CONTROL
January 5, 2015

8-01.2 Materials
This section is supplemented with the following new paragraph:

For all seed the Contractor shall furnish the Engineer with the following documentation:

1. The state or provincial seed dealer license and endorsements.

2. Copies of Washington State Department of Agriculture (WSDA) test results on each lot of seed. Test results must be within six months prior to the date of application.
8-01.3(1)A Submittals

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

Modified TESC Plans shall meet all requirements of the current edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109.

8-01.3(1)C Water Management

Items number 1 through 3 are deleted.

This section is supplemented with the following new subsections:

8-01.3(1)C1 Disposal of Dewatering Water

When uncontaminated groundwater with a pH range of 6.5 – 8.5 is encountered in an excavation, it may be disposed of as follows:

1. When the turbidity of the groundwater is 25 NTU or less, it may bypass detention and treatment facilities and be discharged into the stormwater conveyance system at a rate that will not cause erosion or flooding in the receiving surface water body.

2. When the turbidity of the groundwater is not more than 25 NTU above or 125% of the turbidity of the site stormwater runoff, whichever is greater, the same detention and treatment facilities as used to treat the site runoff may be used.

3. When the turbidity of the groundwater is more than 25 NTU above or 125% of the turbidity of the site stormwater runoff, whichever is greater, the groundwater shall be treated separately from the site stormwater.

Alternatively, the Contractor may pursue independent disposal and treatment alternatives that do not use the stormwater conveyance system.

8-01.3(1)C2 Process Wastewater

Wastewater generated on-site as a byproduct of a construction process shall not be discharged to surface waters of the State. Some sources of process wastewater may be infiltrated in accordance with the NPDES Construction Stormwater General Permit.

8-01.3(1)C3 Shaft Drilling Slurry Wastewater

Wastewater generated on-site during shaft drilling activity shall be managed and disposed of in accordance with the requirements below. No shaft drilling slurry wastewater shall be discharged to surface waters of the State. Neither the sediment nor liquid portions of the shaft drilling slurry wastewater shall be contaminated, as detectable by visible or olfactory indication (e.g., chemical sheen or smell).

1. Water-only shaft drilling slurry or water slurry with approved flocculants may be infiltrated on-site. Flocculants used shall meet the requirements of Section 9-14.5(1) or shall be chitosan products listed as General Use Level Designation (GULD) on
the Department of Ecology’s stormwater treatment technologies webpage for
construction treatment. Infiltration is permitted if the following requirements are
met:

a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.

b. The source water meets drinking water standards or the Groundwater Quality
Criteria listed in WAC 173-200-040.

c. The amount of flocculant added to the slurry shall be kept to the minimum
needed to adequately settle out solids. The flocculant shall be thoroughly mixed
into the slurry.

d. Infiltration locations shall be at least 100 feet away from surface waters, wells,
on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers,
and well-head protection areas. Before infiltration begins, there shall be a
minimum of 5 feet of unsaturated soil between the soil surface receiving the
wastewater for infiltration and the groundwater surface (i.e., saturated soil).

e. The slurry removed from the shaft shall be contained in a leak proof cell or
tank for a minimum of 3 hours.

f. Within a 24 hour period, a maximum of 21,000 gallons of slurry wastewater
may be infiltrated in an infiltration location. The infiltration rate shall be
reduced if needed to prevent wastewater from leaving the infiltration location.
The infiltration site shall be monitored regularly during infiltration activity. All
wastewater discharged to the ground must fully infiltrate and discharges must
stop before the end of each work day.

g. After infiltration activity is complete, loose sediment in the infiltration location
that may have resulted from the infiltration activity or the removal of BMPs
used to manage infiltration activity shall be stabilized to prevent mobilization
by stormwater runoff.

h. Drilling spoils and settled sediments remaining in the containment cell or tank
shall be disposed of in accordance with Section 6-19.3(4)F.

i. Infiltration locations shall be marked on the on-site temporary erosion and
sediment control (TESC) plan sheets before the infiltration activity begins.

j. Prior to infiltrating water-only shaft drilling slurry or water slurry with
approved flocculants, the Contractor shall submit a Shaft Drilling Slurry
Wastewater Management and Infiltration Plan as a Type 2 Working Drawing.
This Plan shall be kept on-site, adapted if needed to meet the construction
requirements, and updated to reflect what is being done in the field. The
Working Drawing shall include, at a minimum, the following information:
1. Plan sheet showing the proposed infiltration location and all surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas within 150 feet.

2. The proposed elevation of soil surface receiving the wastewater for infiltration and the anticipated phreatic surface (i.e., saturated soil).

3. The source of the water used to produce the slurry.

4. The estimated total volume of wastewater to be infiltrated.

5. The approved flocculant to be used (if any).

6. The controls or methods (e.g., trenches, traps, berms, silt fence, dispersion, or discharge metering devices) that will be used to prevent surface wastewater runoff from leaving the infiltration location. The Working Drawing shall include all pertinent design details (e.g., sizing of trenches or traps, placement or height of berms, application techniques) needed to demonstrate the proposed controls or methods are adequate to prevent surface wastewater runoff from leaving the infiltration location.

7. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.

8. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.

9. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.

10. The strategy for cleaning up the infiltration location after the infiltration activity is done. Cleanup shall include stabilizing any loose sediment on the surface within the infiltration area generated as a byproduct of suspended solids in the infiltrated wastewater or soil disturbance associated with BMP placement and removal.

2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not approved for infiltration shall be contained and disposed of by the Contractor at an approved disposal facility in accordance with Section 2-03.3(7)C. Spoils that have come into contact with mineral slurry shall be disposed of in accordance with Section 6-19.3(4)F.

8-01.3(1)C4 Management of Off-Site Water
Prior to disruption of the normal watercourse, the Contractor shall intercept the off-site surface water and pipe it either through or around the project site. This water shall not be
combined with on-site stormwater. It shall be discharged at its preconstruction outfall point in such a manner that there is no increase in erosion below the site. The Contractor shall submit a Type 2 Working Drawing consisting of the method for performing this Work.

8-01.3(2)A Preparation for Application
This section's content is deleted and replaced with the following two new subsections:

8-01.3(2)A1 Seeding
Areas to be cultivated are shown in the Plans or specified in the Special Provisions. The areas shall be cultivated to the depths specified to provide a reasonably firm but friable seedbed. Cultivation shall take place no sooner than 2 weeks prior to seeding.

All areas to be seeded, including excavated slopes shall be compacted and prepared unless otherwise specified or ordered by the Engineer. A cleated roller, crawler tractor, or similar equipment that forms longitudinal depressions at least 2 inches deep shall be used for compaction and preparation of the surface to be seeded.

The entire area shall be uniformly covered with longitudinal depressions formed perpendicular to the natural flow of water on the slope. The soil shall be conditioned with sufficient water so the longitudinal depressions remain in the soil surface until completion of the seeding.

Prior to seeding, the finished grade of the soil shall be 1 inch below the top of all curbs, junction and valve boxes, walks, driveways, and other Structures. The soil shall be in a weed free and bare condition.

All bags of seed shall be brought to the site in sealed bags and shall have seed labels attached showing the seed meets the Specifications. Seed which has become wet, moldy, or otherwise damaged in transit or storage will not be accepted.

8-01.3(2)A2 Temporary Seeding
A cleated roller, crawler tractor, or similar equipment that forms longitudinal depressions at least 2 inches deep shall be used for compaction and preparation of the surface to be seeded.

The entire area shall be uniformly covered with longitudinal depressions formed perpendicular to the natural flow of water on the slope. The soil shall be conditioned with sufficient water so the longitudinal depressions remain in the soil surface until completion of the seeding.

8-01.3(2)B Seeding and Fertilizing
In the list in the second paragraph, item numbers 1-5 are revised to read:

1. A hydro seeder that utilizes water as the carrying agent, and maintains continuous agitation through paddle blades. It shall have an operating capacity sufficient to agitate, suspend, and mix into a homogeneous slurry the specified amount of seed and water or other material. Distribution and discharge lines shall be large enough to prevent
stoppage and shall be equipped with a set of hydraulic discharge spray nozzles that will
provide a uniform distribution of the slurry.

2. Blower equipment with an adjustable disseminating device capable of maintaining a
constant, measured rate of material discharge that will ensure an even distribution of
seed at the rates specified.

3. Helicopters properly equipped for aerial seeding.

4. Power-drawn drills or seeders.

5. Areas in which the above methods are impractical may be seeded by hand methods.

8-01.3(2)C Liming
This section including title is deleted in its entirety and replaced with the following:

8-01.3(2)C Vacant

8-01.3(2)D Mulching
The first sentence of the second paragraph is revised to read:

Distribution of straw mulch material shall be by means that utilizes forced air to blow mulch
material on seeded areas.

8-01.3(11) Outlet Protection
In the last sentence, “Section 9-13.6” is revised to read “Section 9-13.1(5)”.

8-01.4 Measurement
In the twelfth paragraph, “liming” is deleted.

8-01.5 Payment
The bid item “Liming”, per acre is deleted.

SECTION 8-02, ROADSIDE RESTORATION
January 5, 2015

8-02.3(1) Responsibility During Construction
The last sentence of the second paragraph is revised to read:

This Work shall include keeping the planted and seeded areas free from insect infestation,
weeds or unwanted vegetation, litter, and other debris along with retaining the finished
grades and mulch in a neat uniform condition.

8-02.3(2) Roadside Work Plan
This section’s title is revised to read:
Work Plans

This section’s content is deleted in its entirety and replaced with the following new subsections:

8-02.3(2)A Roadside Work Plan
Before starting any Work that disturbs the earth and as described in Sections 8-01, 8-02 and 8-03, the Contractor shall submit a roadside work plan. The roadside work plan shall be submitted as a Type 1 Working Drawing and shall define the Work necessary to provide all Contract requirements, including: wetland excavation, soil preparation, habitat structure placement, planting area preparation, seeding area preparation, bark mulch and compost placement, seeding, planting, plant replacement, irrigation, and weed control in narrative form.

The Roadside Work Plan shall also include a copy of the approved progress schedule.

8-02.3(2)B Weed and Pest Control Plan
The Weed and Pest Control Plan shall be submitted as a Type 1 Working Drawing. The weed and pest control plan shall include scheduling and methods of all control measures required under the Contract or proposed by the Contractor including soil preparation methods to meet the required soil surface conditions in the planting, bark mulch, and wetland areas. The weed control plan shall show general weed control including hand, mechanical and chemical methods, timing, application of herbicides including type, rate, use and timing, mowing, and noxious weed control. Target weeds and unwanted vegetation to be removed shall be identified and listed in the weed control plan.

The plan shall be prepared and signed by a licensed Commercial Pest Control Operator or Consultant when chemical pesticides are proposed. The plan shall include methods of weed control; dates of weed control operations; and the name, application rate, and Material Safety Data Sheets of all proposed herbicides. In addition, the Contractor shall furnish the Engineer with a copy of the current product label for each pesticide and spray adjuvant to be used. These product labels shall be submitted with the weed control plan for approval.

8-02.3(2)C Plant Establishment Plan
The Plant Establishment Plan shall be prepared in accordance with the requirements of Section 8-02.3(13) and submitted as a Type 1 Working Drawing. The Plan shall show the proposed scheduling of activities, materials, equipment to be utilized for the first-year plant establishment, and an emergency contact person. The Plan shall include the management of the irrigation system, when applicable. Should the plan become unworkable at any time during the first-year plant establishment, the Contractor shall submit a revised plan prior to proceeding with further Work.

8-02.3(3) Weed and Pest Control
This section is supplemented with the following new paragraph:
Grass, including grass applied in accordance with Section 8-01, growing within the mulch ring of a plant shall be considered a weed and be controlled on the project in accordance with the weed and pest control plan.

8-02.3(4) Topsoil

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

After the topsoil has been spread, all large clods, hard lumps, and rocks 2 inches in diameter and larger, and litter shall be raked up, removed, and disposed of by the Contractor.

The following new paragraph is inserted after the first paragraph:

Topsoil stockpiled for project use shall be protected to prevent erosion and weed growth. Weed growth on topsoil stockpile sites shall be immediately eliminated in accordance with the approved Weed and Pest Control Plan.

8-02.3(4)C Topsoil Type C

The last sentence is revised to read:

Topsoil Type C shall meet the requirements of Sections 8-02.3(4), 8-02.3(4)B, and 9-14.1(3).

8-02.3(12) Completion of Initial Planting

Item number 4 in the last paragraph is deleted.

8-02.3(13) Plant Establishment

The first sentence of the second paragraph is deleted.

The second paragraph is supplemented with the following new sentence:

The 1 calendar year shall be extended an amount equal to any periods where the Contractor does not comply with the plant establishment plan.

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

During the first year of plant establishment under PSIPE (Plant Selection Including Plant Establishment), the Contractor shall meet monthly with the Engineer for the purpose of joint inspection of the planting material on a mutually agreed upon schedule.

The last two paragraphs are deleted.

8-02.4 Measurement

This section is supplemented with the following:

Plant selection will be measured per each.
PSIPE (Plant Selection Including Plant Establishment) will be measured per each.

8-02.5 Payment
The paragraph following the bid item “Topsoil Type ___”, per acre is revised to read:

The unit Contract price per acre for “Topsoil Type ___” shall be full payment for all costs for the specified Work.

The bid item “PSIPE ___”, per each and the paragraph following the bid item are revised to read:

“PSIPE ___”, per each.

The unit Contract price for “Plant Selection ___”, per each, and “PSIPE ___”, per each, shall be full pay for all Work necessary for weed control within the planting area, planting area preparation, fine grading, planting, cultivating, plant storage and protection, fertilizer and root dip, staking, cleanup, and water necessary to complete planting operations as specified to the end of first year plant establishment.

The bid item “Plant Establishment - ___ Year” is deleted.

SECTION 8-04, CURBS, GUTTERS, AND SPILLWAYS
January 5, 2015

8-04.2 Materials
The referenced section for the following item is revised to read:

Hand Placed Riprap 9-13.1(4)

8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways
The first sentence in the fourth paragraph is revised to read:

Expansion joints in the curb or curb and gutter shall be spaced as shown in the Plans, and placed at the beginning and ends of curb returns, drainage Structures, bridges, and cold joints with existing curbs and gutters.

In the third sentence of the fourth paragraph, “\( \frac{3}{4} \)-inch” is revised to read “\( \frac{5}{8} \)-inch”.

8-04.3(1)A Extruded Cement Concrete Curb
The second sentence in the second paragraph is revised to read:

Cement concrete curbs shall be anchored to the existing pavement by placing steel reinforcing bars 1 foot on each side of every joint.

The third paragraph is revised to read:

Steel reinforcing bars shall meet the dimensions shown in the Standard Plans.
SECTION 8-18, MAILBOX SUPPORT
August 4, 2014

8-18.3(1) Type 3 Mailbox Support
In the third paragraph, the first sentence is revised to read:

With the Engineer’s consent, a Type 3 Mailbox Support design, made of steel or other
durable material, that meets the NCHRP 350 or the Manual for Assessing Safety Hardware
(MASH) crash test criteria may be used in place of the design shown in the Standard Plans.

SECTION 8-20, ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT
TRANSPORTATION SYSTEMS, AND ELECTRICAL
January 5, 2015

8-20.2(1) Equipment List and Drawings
The fifth paragraph is revised to read:

The Contractor will not be required to submit shop drawings for approval for light standards
and traffic signal standards conforming to the preapproved plans listed in the Special
Provisions. The Contractor may use preapproved plans posted on the WSDOT website with
a more current revision date than published in the Special Provisions.

8-20.3(1) General
The following six new paragraphs are inserted after the second paragraph:

If a portion of an existing communication conduit system is damaged due to the Contractor’s
activities, the affected system shall be restored to original condition. Conduit shall be
repaired. Communication cables shall be replaced and the communication system shall be
made fully operational within 24 hours of being damaged.

Damaged communication cable shall be replaced between existing termination or splice
points. No additional termination or splice points will be allowed. An existing termination
or splice point is defined as a location where all existing fiber strands or twisted pair wires
are terminated or spliced at one point. Communication cable shall be defined as either
copper twisted pair or fiber optic cables. The Contractor may use temporary splices to
restore Contracting Agency communication systems until the permanent communication
cable system is restored.

When damage to an existing communication system has occurred, the Contractor shall
perform the following in addition to other restoration requirements:

1. Inspect the communication raceway system including locate wire or tape to
determine the extent of damage.
2. Contact the Engineer for Fiber Optic Cable and Twisted Pair (TWP) Copper Cable acceptance testing requirements and communication system restoration requirements.

3. Initially perform the acceptance tests to determine the extent of damage and also perform the acceptance tests after repairs are completed. Provide written certification that the communication cable system, including the locate wire or tape, is restored to test standard requirements.

Communication cables shall be restored by Contractor personnel that are WSDOT prequalified for communication installation work. Restoration shall be considered electrical work when the path of the communication system interfaces with electrical systems. Electrical work of this nature shall be performed by Contractor personnel that are WSDOT prequalified for work on both electrical and communication systems.

If the Contractor or Subcontractors are unable or unqualified to complete the restoration work, the Engineer may have the communication or electrical systems restored by other means and subtract the cost from the money that will be or is due the Contractor.

When field repair of existing conduit, innerduct or outerduct is required, the repair kits shall be installed per manufacturer's recommendations. Repair kits and each connection point between the repair kit and the existing raceway system shall be sealed to prevent air leakage during future cable installation.

8-20.3(8) Wiring
The second sentence in the eleventh paragraph is revised to read:

Every conductor at every wire termination, connector, or device shall have an approved wire marking sleeve bearing, as its legend, the circuit number indicated in the Contract.

8-20.3(13)A Light Standards
In the third paragraph, the last sentence of item number 1 is revised to read:

Conduit shall extend a maximum of 1 inch above the top of the foundation, including grounding end bushing or end bell bushing.

In the fourth paragraph, the second sentence of item number 1 is revised to read:

Conduits shall be cut to a maximum height of 2 inches above the foundation including grounding end bushing or end bell bushing.

SECTION 8-23, TEMPORARY PAVEMENT MARKINGS
January 5, 2015

This section's content is deleted in its entirety and replaced with the following new sub-sections:
8.23.1 Description
The Work consists of furnishing, installing, and removing temporary pavement markings. Temporary pavement markings shall be provided where noted in the Plans; for all lane shifts and detours resulting from construction activities; or when permanent markings are removed because of construction operations.

8.23.2 Materials
Materials for temporary markings shall be paint, plastic, tape, raised pavement markers or flexible raised pavement markers. Materials for pavement markings shall meet the following requirements:

- Raised Pavement Markers
- Temporary Marking Paint
- Plastic
- Glass Beads for Pavement Marking Materials
- Temporary Pavement Marking Tape
- Temporary Flexible Raised Pavement Markers

8.23.3 Construction Requirements

8.23.3(1) General
The Contractor shall select the type of pavement marking material in accordance with the Contract.

8.23.3(2) Preliminary Spotting
All preliminary layout and marking in preparation for application or removal of temporary pavement markings shall be the responsibility of the Contractor.

8.23.3(3) Preparation of Roadway Surface
Surface preparation for temporary pavement markings shall be in accordance with the manufacturer's recommendations.

8.23.3(4) Pavement Marking Application

8.23.3(4)(A) Temporary Pavement Markings - Short Duration
Temporary pavement markings - short duration shall meet the following requirements:

Temporary Center Line - A BROKEN line used to delineate adjacent lanes of traffic moving in opposite directions. The broken pattern shall be based on a 40-foot unit, consisting of a 4-foot line with a 36-foot gap if paint or tape is used. If temporary raised pavement markers are used, the pattern shall be based on a 40-foot unit, consisting of a grouping of three temporary raised pavement markers, each spaced 3 feet apart, with a 34 foot gap.
Temporary Edge Line – A SOLID line used on the edges of Traveled Way. The line shall be continuous if paint or tape is used. If temporary raised pavement markers are used, the line shall consist of markers installed continuously at 5-foot spacing.

Temporary Lane Line – A BROKEN line used to delineate adjacent lanes with traffic traveling in the same direction. The broken pattern shall be based on a 40-foot unit, consisting of a 4-foot line with a 36-foot gap, if paint or tape is used. If temporary raised pavement markers are used, the pattern shall be based on a 40-foot unit, consisting of a grouping of three temporary raised pavement markers, each spaced 3 feet apart, with a 34 foot gap.

Lane line and right edge line shall be white in color. Center line and left edge line shall be yellow in color. Edge lines shall be installed only if specifically required in the Contract. All temporary pavement markings shall be retroreflective.

8-23.3(4)A1 Temporary Pavement Marking Paint
Paint used for short duration temporary pavement markings shall be applied in one application at a thickness of 15 mils or 108 square feet per gallon. Glass beads shall be in accordance with Section 8-22.3(3)G.

8-23.3(4)A2 Temporary Pavement Marking Tape
Application of temporary pavement marking tape shall be in conformance with the manufacturer’s recommendations.

Black mask pavement marking tape shall mask the existing line in its entirety.

8-23.3(4)A3 Temporary Raised Pavement Markers
Temporary raised pavement markers are not allowed on bituminous surface treatments.

8-23.3(4)A4 Temporary Flexible Raised Pavement Markers
Flexible raised pavement markers are required for new applications of bituminous surface treatments. Flexible raised pavement markers are not allowed on other pavement types unless otherwise specified or approved by the Engineer. Flexible raised pavement markers shall be installed with the protective cover in place. The cover shall be removed immediately after spraying asphaltic material.

8-23.3(4)B Temporary Pavement Markings – Long Duration
Application of paint, pavement marking tape and plastic for long duration pavement markings shall meet the requirements of Section 8-22.3(3); application of raised pavement markers shall meet the requirements of Section 8-09.3; and application of flexible pavement markings shall be in conformance with the manufacturer’s recommendations.
8-23.3(4)C Tolerance for Lines
Tolerance for lines shall conform to Section 8-22.3(4).

8-23.3(4)D Maintenance of Pavement Markings
Temporary pavement markings shall be maintained in serviceable condition throughout the project until permanent pavement markings are installed. As directed by the Engineer; temporary pavement markings that are damaged, including normal wear by traffic, shall be repaired or replaced immediately. Repaired and replaced pavement markings shall meet the requirements for the original pavement marking.

8-23.3(4)E Removal of Pavement Markings
Removal of temporary paint is not required prior to paving; all other temporary pavement markings shall be removed.

All temporary pavement markings that are required on the wearing course prior to construction of permanent pavement markings and are not a part of the permanent markings shall be completely removed concurrent with or immediately subsequent to the construction of the permanent pavement markings. Temporary flexible raised pavement markers on bituminous surface treatment pavements shall be cut off flush with the surface if their location conflicts with the alignment of the permanent pavement markings. All other temporary pavement markings shall be removed in accordance with Section 8-22.3(6).

All damage to the permanent Work caused by removing temporary pavement markings shall be repaired by the Contractor at no additional cost to the Contracting Agency.

8-23.4 Measurement
Temporary pavement markings will be measured by the linear foot of each installed line or grouping of markers, with no deduction for gaps in the line or markers and no additional measurement for the second application of paint required for long duration paint lines. Short duration and long duration temporary pavement markings will be measured for the initial installation only.

8-23.5 Payment
Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal:

“Temporary Pavement Marking – Short Duration”, per linear foot.

“Temporary Pavement Marking – Long Duration”, per linear foot.

The unit Contract price per linear foot for “Temporary Pavement Marking – Short Duration” and “Temporary Pavement Marking – Long Duration” shall be full pay for all Work.
DIVISION 9
MATERIALS

SECTION 9-01, PORTLAND CEMENT
January 5, 2015

9-01.2(3) Low Alkali Cement
This section is revised to read:

When low alkali portland cement is required, the percentage of alkalies in the cement shall
not exceed 0.60 percent by weight calculated as Na₂O plus 0.658 K₂O. This limitation shall
apply to all types of portland cement.

9-01.2(4) Blended Hydraulic Cement
The first paragraph is revised to read:

Blended hydraulic cement shall be either Type IP(X)(MS) or Type IS(X)(MS) cement
conforming to AASHTO M 240 or ASTM C 595, except that the portland cement used to
produce blended hydraulic cement shall not contain more than 0.75 percent alkalies by
weight calculated as Na₂O plus 0.658 K₂O and shall meet the following additional
requirements:

1. Type IP(X)(MS) - Portland-Pozzolan Cement where (X) equals the targeted
percentage of fly ash, the fly ash is limited to a maximum of 35 percent by weight
of the cementitious material; (MS) indicates moderate sulfate resistance.

2. Type IS(X)(MS) - Portland Blast- Furnace Slag Cement, where: (X) equals the
targeted percentage of ground granulated blast-furnace slag, the ground granulated
blast furnace slag is limited to a maximum of 50 percent by weight of the
cementitious material; (MS) indicates moderate sulfate resistance.

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

The source and weight of the fly ash or ground granulated blast-furnace slag shall be
certified on the cement mill test report or cement certificate of analysis and shall be reported
as a percent by weight of the total cementitious material.

9-01.3 Tests and Acceptance
The first paragraph is revised to read:

Cement may be accepted by the Engineer based on the cement mill test report number or
cement certificate of analysis number indicating full conformance to the Specifications. All
shipments of the cement to the Contractor or concrete supplier shall identify the applicable
cement mill test report number or cement certificate of analysis number and shall be
provided by the Contractor or concrete supplier with all concrete deliveries.
The second paragraph is revised to read:

Cement producers/suppliers that certify portland cement or blended cement shall participate in the Cement Acceptance Program as described in WSDOT Standard Practice QC 1.

9-01.4 Storage on the Work Site

This section is revised to read:

At the request of the Engineer, the Contractor shall provide test data to show that cement stored on site for longer than 60 days meets the requirements of 9-01. Tests shall be conducted on samples taken from the site in the presence of the Engineer. Test results that meet the requirements of 9-01 shall be valid for 60 days from the date of sampling, after which the Engineer may require further testing.

SECTION 9-03, AGGREGATES
August 4, 2014

9-03.1(2)C Use of Substandard Gradings

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

Vacant

9-03.1(4)C Grading

In the second paragraph, the first sentence is deleted.

The third paragraph is deleted.

9-03.1(5)B Grading

The last paragraph is revised to read:

The Contracting Agency may sample each aggregate component prior to introduction to the weigh batcher or as otherwise determined by the Engineer. Each component will be sieve analyzed separately in accordance with WSDOT FOP for WAQTC/AASHTO Test Method T-27/11. All aggregate components will be mathematically re-combined by the proportions (percent of total aggregate by weight) provided by the Contractor on Concrete Mix Design Form 350-040.

9-03.8(1) General Requirements

The first paragraph up until the colon is revised to read:

Preliminary testing of aggregates for source approval shall meet the following test requirements:

The list in the first paragraph is supplemented with the following:

Sand Equivalent 45 min.
The following new paragraph is inserted after the first paragraph:

Aggregate sources that have 100 percent of the mineral material passing the No. 4 sieve shall be limited to no more than 5 percent of the total weight of aggregate.

9-03.14(3) Common Borrow
This section is revised to read:

Material for common borrow shall consist of granular or nongranular soil and/or aggregate which is free of deleterious material. Deleterious material includes wood, organic waste, coal, charcoal, or any other extraneous or objectionable material. The material shall not contain more than 3 percent organic material by weight. The plasticity index shall be determined using test method AASHTO T 89 and AASHTO T 90.

The material shall meet one of the options in the soil plasticity table below.

Soil Plasticity Table

<table>
<thead>
<tr>
<th>Option</th>
<th>Sieve</th>
<th>Percent Passing</th>
<th>Plasticity Index</th>
</tr>
</thead>
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<td>0 - 12</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>No. 200</td>
<td>12.1 - 35</td>
<td>6 or Less</td>
</tr>
<tr>
<td>3</td>
<td>No. 200</td>
<td>Above 35</td>
<td>0</td>
</tr>
</tbody>
</table>

All percentages are by weight.

If requested by the Contractor, the plasticity index may be increased with the approval of the Engineer.

9-03.14(4) Gravel Borrow for Structural Earth Wall
In the second table, the row beginning with “pH” is revised to read:

<table>
<thead>
<tr>
<th>pH</th>
<th>WSDOT Test Method T 417</th>
<th>4.5 - 9</th>
<th>5 - 10</th>
</tr>
</thead>
</table>

SECTION 9-05, DRAINAGE STRUCTURES AND CULVERTS
April 7, 2014

9-05.13 Ductile Iron Sewer Pipe
The first paragraph is deleted.
SECTION 9-07, REINFORCING STEEL

January 6, 2014

9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement)
This section's title is revised to read:

9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and
Cement Concrete Pavement Rehabilitation)

SECTION 9-13, RIPRAP, QUARRY SPALLS, SLOPE PROTECTION, AND ROCK FOR
EROSION AND SCOUR PROTECTION AND ROCK WALLS
January 5, 2015

This section's content is deleted.

9-13.1 Loose Riprap
This section's content, including title and subsections, is revised to read the following:

9-13.1 Riprap and Quarry Spalls

9-13.1(1) General
Riprap and quarry spalls shall consist of broken stone or broken concrete rubble and
shall be free of rock fines, soil, or other extraneous material. Concrete rubble shall not
be contaminated by foreign materials such as fibers, wood, steel, asphalt, sealant, soil,
plastic and other contaminants or deleterious material. Concrete rubble that is imported
to the job site will require testing and certification for toxicity characteristics per
Section 9-03.21(1).

The grading of the riprap shall be determined by the Engineer by visual inspection of
the load before it is dumped into place, or, if so ordered by the Engineer, by dumping
individual loads on a flat surface and sorting and measuring the individual rocks
contained in the load. Should the riprap contain insufficient spalls, as defined in
Section 9-13.1(5), the Contractor shall furnish and place supplementary spall material.

Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
defects tending to destroy its resistance to weather and shall conform to the following
requirements for quality.

<table>
<thead>
<tr>
<th>Aggregate Property</th>
<th>Test Method</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degradation Factor</td>
<td>WSDOT T 113</td>
<td>15 minimum</td>
</tr>
<tr>
<td>Los Angeles Wear, 500 Rev.</td>
<td>AASHTO T 96</td>
<td>50% maximum</td>
</tr>
<tr>
<td>Specific Gravity, SSD</td>
<td>AASHTO T 85</td>
<td>2.55 minimum</td>
</tr>
</tbody>
</table>

9-13.1(2) Heavy Loose Riprap
Heavy loose riprap shall meet the following requirements for grading:
<table>
<thead>
<tr>
<th>Minimum Size</th>
<th>Maximum Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% to 90%</td>
<td>1 ton (½ cubic yd.)</td>
</tr>
<tr>
<td>70% to 90%</td>
<td>300 lbs. (2 cu. ft.)</td>
</tr>
<tr>
<td>10% to 30%</td>
<td>3 inch</td>
</tr>
</tbody>
</table>

9-13.1(3) Light Loose Riprap
Light loose riprap shall meet the following requirements for grading:

<table>
<thead>
<tr>
<th>Size Range</th>
<th>Maximum Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% to 90%</td>
<td>300 lbs. to 1 ton</td>
</tr>
<tr>
<td></td>
<td>(2 cu. ft. to ½ cu. yd.)</td>
</tr>
<tr>
<td>15% to 80%</td>
<td>50 lbs. to 1 ton</td>
</tr>
<tr>
<td></td>
<td>(½ cu. ft. to ½ cu. yd.)</td>
</tr>
<tr>
<td>10% to 20%</td>
<td>3 inch</td>
</tr>
</tbody>
</table>

9-13.1(4) Hand Placed Riprap
Hand placed riprap shall be as nearly rectangular as possible, 60 percent shall have a volume of not less than 1 cubic foot. No stone shall be used which is less than 6 inches thick, nor which does not extend through the wall.

9-13.1(5) Quarry Spalls
Quarry spalls shall meet the following requirements for grading:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>8”</td>
<td>100</td>
</tr>
<tr>
<td>3”</td>
<td>40 max.</td>
</tr>
<tr>
<td>¾”</td>
<td>10 max.</td>
</tr>
</tbody>
</table>

9-13.2 Hand Placed Riprap
This section, including title, is deleted in its entirety and replaced with the following:

9-13.2 Vacant

9-13.4 Rock for Erosion Control and Scour Protection
The last sentence is revised to read:

The use of recycled materials and concrete rubble is not permitted for this application.

9-13.6 Quarry Spalls
This section, including title, is deleted in its entirety and replaced with the following:

9-13.6 Vacant
SECTION 9-14, EROSION CONTROL AND ROADSIDE PLANTING
January 5, 2015

9.14.1 Soil
This section, including title, is revised to read:

9.14.1 Topsoil
Topsoil shall not contain any recycled material, foreign materials, or any listed Noxious and Nuisance weeds of any Class designated by authorized State or County officials. Aggregate shall not comprise more than 10% by volume of Topsoil and shall not be greater than two inches in diameter.

9.14.1(2) Topsoil Type B
The last sentence of the second paragraph is deleted.

9.14.2 Seed
This section is revised to read:

Seed of the type specified shall be certified in accordance with WAC 16-302. Seed mixes shall be commercially prepared and supplied in sealed containers. The labels shall show:

(1) Common and botanical names of seed
(2) Lot number
(3) Net weight
(4) Pounds of Pure live seed (PLS) in the mix
(5) Origin of seed

All seed vendors must have a business license issued by supplier’s state or provincial Department of Licensing with a “seed dealer” endorsement.

9.14.4(3) Bark or Wood Chips
This section’s title is revised to read:

Bark or Wood Chip Mulch

The first paragraph is revised to read:

Bark or wood chip mulch shall be derived from fir, pine, or hemlock species. It shall not contain resin, tannin, or other compounds in quantities that would be detrimental to plant life. Sawdust shall not be used as mulch. Mulch produced from finished wood products or construction debris will not be allowed.

9.14.4(6) Gypsum
The first sentence is revised to read:

Gypsum shall consist of Calcium Sulfate (CaSO₄·2H₂O) in a pelletized or granular form.
9-14.4(7) Tackifier

This section is revised to read:

Tackifiers are used as a tie-down for soil, compost, seed, and/or mulch. Tackifiers shall contain no growth or germination-inhibiting materials and shall not reduce infiltration rates. Tackifiers shall hydrate in water and readily blend with other slurry materials.

The Contractor shall provide test results documenting the tackifier meets the requirements for Acute Toxicity, Solvents, and Heavy Metals as required in Table 1 in Section 9-14.4(2). The tests shall be performed at the manufacturer’s recommended application rate.

9-14.4(8) Compost

The second paragraph is revised to read:

Compost production and quality shall comply with WAC 173-350.

9-14.4(8)A Compost Submittal Requirements

Item 2 is revised to read:

5. A copy of the Solid Waste Handling Permit issued to the manufacturer by the Jurisdictional Health Department in accordance with WAC 173-350 (Minimum Functional Standards for Solid Waste Handling).

9-14.6(1) Description

Item number 3 in the fourth paragraph is revised to read:

6. Live pole cuttings shall have a diameter between 2 inches and 3.5 inches. Live poles shall have no more than three branches which must be located at the top end of the pole and those branches shall be pruned back to the first bud from the main stem.

9-14.6(2) Quality

The second and third paragraphs in this section are revised to read:

All plant material shall comply with State and Federal laws with respect to inspection for plant diseases and insect infestation. Plants must meet Washington State Department of Agriculture plant quarantines and have a certificate of inspection. Plants originating in Canada must be accompanied by a phytosanitary certificate stating the plants meet USDA health requirements.

All plant material shall be purchased from a nursery licensed to sell plants in their state or province.
SECTION 9-16, FENCE AND GUARDRAIL
August 4, 2014

9-16.2(1)B Wood Fence Posts and Braces
In the table, the row beginning with “ACA” is deleted.

9-29.AP9

SECTION 9-29, ILLUMINATION, SIGNAL, ELECTRICAL
January 5, 2015

9-29.1 Conduit, Innerduct, and Outerduct
This section is supplemented with the following new subsection:

9-29.1(9) Repair
Manufacturer repair kits shall be used for field repair of existing conduit, innerduct and
outerduct. The conduit repair kit shall be manufactured specifically for the repair of existing
damaged conduit, inner duct and outer duct. The repair kit shall be prepackaged and include
the split conduit and split couplings necessary to restore the damaged conduit to the original
inside dimensions including a water and air tight seal.

9-29.2(1)B Heavy Duty Junction Boxes
The second paragraph is revised to read:

The Heavy Duty Junction Box steel frame, lid support and lid fabricated from steel plate
and shapes shall be painted with a shop applied, inorganic zinc primer in accordance with
Section 6-07.3. Ductile iron and gray iron castings shall not be painted.

The following new paragraph is inserted after the second paragraph:

The concrete used in Heavy Duty Junction Boxes shall have a minimum compressive
strength of 4,000 psi.

In the fourth paragraph (after the preceding Amendment is applied), the table is revised to read:

<table>
<thead>
<tr>
<th>Materials</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Section 6-02</td>
</tr>
<tr>
<td>Reinforcing Steel</td>
<td>Section 9-07</td>
</tr>
<tr>
<td>Lid</td>
<td>ASTM A 786 diamond plate steel, rolled from plate complying with ASTM A 572, grade 50 or ASTM A 588, and having a min. CVN toughness of 20 ft-lb at 40 degrees F. Or Ductile iron casting meeting Section 9-05.15</td>
</tr>
<tr>
<td>Frame and stiffener plates</td>
<td>ASTM A 572 grade 50 or ASTM A 588, both with min. CVN toughness of 20 ft-lb at 40 degrees F Or</td>
</tr>
</tbody>
</table>

C 3552, C 3242, & U6 3562

A 62

AMENDMENTS
<table>
<thead>
<tr>
<th>anchors (studs)</th>
<th>Gray iron casting meeting Section 9-05.15</th>
</tr>
</thead>
<tbody>
<tr>
<td>threaded anchors for gray iron frame</td>
<td>ASTM F1554 grade 55 headed anchor requirements</td>
</tr>
<tr>
<td>bolts, studs, nuts, washers</td>
<td>ASTM F 593 or A 193, Type 304 or 316, or stainless steel grade 302, 304, or 316 in accordance with approved shop drawings</td>
</tr>
<tr>
<td>hinges and locking and latching mechanism and associated hardware and bolts</td>
<td>In accordance with approved shop drawings</td>
</tr>
<tr>
<td>safety bars</td>
<td>In accordance with approved shop drawings</td>
</tr>
</tbody>
</table>

The last paragraph is revised to read:

The bearing seat and lid perimeter shall be free from burrs, dirt, and other foreign debris that would prevent solid seating. Bolts and nuts shall be liberally coated with anti-seize compound. Bolts shall be installed snug tight. The bearing seat and lid perimeter shall be machined to allow a minimum of 75 percent of the bearing areas to be seated with a tolerance of 0.0 to 0.005 inches measured with a feeler gage. The bearing area percentage will be measured for each side of the lid as it bears on the frame.

9-29.2(2) Standard Duty and Heavy-Duty Cable Vaults and Pull Boxes

This section's title is revised to read:

Small Cable Vaults, Standard Duty Cable Vaults, Heavy-Duty Cable Vaults, Standard Duty Pull Boxes, and Heavy-Duty Pull Boxes

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

Small, Standard Duty and Heavy-Duty Cable Vaults and Standard Duty and Heavy-Duty Pull Boxes shall be constructed as a concrete box and as a concrete lid.

9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes

This section's title is revised to read:

Small Cable Vaults, Standard Duty Cable Vaults, and Standard Duty Pull Boxes

The first paragraph is revised to read:

Small and Standard Duty Cable Vaults and Standard Duty Pull boxes shall be concrete and have a minimum load rating of 22,500 pounds and be tested in accordance with Section 9-29.2(1)C for concrete Standard Duty Junction Boxes.

In the second paragraph, the first sentence is revised to read:
Concrete for Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes shall have a minimum compressive strength of 4,000 psi.

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

All Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes placed in sidewalks, walkways, and shared-use paths shall have slip-resistant surfaces.

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

Materials for Small and Standard Duty Cable Vaults and Standard Duty Pull Boxes shall conform to the following:

9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable
This section is supplemented with the following new subsection:

9-29.3(3) Wire Marking Sleeves
Wire marking sleeves shall be full-circle in design, non-adhesive, printable using an indelible ink and shall fit snugly on the wire or cable. Marking sleeves shall be made from a PVC or polyolefin, and provide permanent identification for wires and cables.

9-29.3(2)A4 Location Wire
This section is revised to read:

Location wire shall be steel core copper clad minimum size AWG 14 insulated conductor. The insulation shall be orange High Molecular Weight High Density Polyethylene (HMHDPE).

SECTION 9-32, MAILBOX SUPPORT
August 4, 2014

9-32.7 Type 2 Mailbox Support
The first sentence is revised to read:

Type 2 mailbox supports shall be 2-inch 14-gage steel tube and shall meet the NCHRP 350 or the Manual for Assessing Safety Hardware (MASH) crash test criteria.

SECTION 9-34, PAVEMENT MARKING MATERIAL
January 5, 2015

9-34.2 Paint
The second paragraph is revised to read:
Blue and black paint shall comply with the requirements of yellow paint in Section 9-34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need to meet the requirements for titanium dioxide, directional reflectance, and contrast ratio.

### 9-34.4 Glass Beads for Pavement Marking Materials

In the third paragraph, the table titled “Metal Concentration Limits” is revised to read:

<table>
<thead>
<tr>
<th>Element</th>
<th>Test Method</th>
<th>Max. Parts Per Million (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>EPA 3052 SW-846 6010C</td>
<td>10.0</td>
</tr>
<tr>
<td>Barium</td>
<td>EPA 3052 SW-846 6010C</td>
<td>100.0</td>
</tr>
<tr>
<td>Cadmium</td>
<td>EPA 3052 SW-846 6010C</td>
<td>1.0</td>
</tr>
<tr>
<td>Chromium</td>
<td>EPA 3052 SW-846 6010C</td>
<td>5.0</td>
</tr>
<tr>
<td>Lead</td>
<td>EPA 3052 SW-846 6010C</td>
<td>50.0</td>
</tr>
<tr>
<td>Silver</td>
<td>EPA 3052 SW-846 6010C</td>
<td>5.0</td>
</tr>
<tr>
<td>Mercury</td>
<td>EPA 3052 SW-846 7471B</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### 9-34.5 Temporary Pavement Marking Tape

This section is revised to read:

Biodegradable tape with paper backing is not allowed.

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

#### 9-34.5(1) Temporary Pavement Marking Tape – Short Duration

Temporary pavement marking tape for short duration shall conform to ASTM D4592 Type II except that black tape, black mask tape and the black portion of the contrast removable tape, shall be non-reflective.

#### 9-34.5(2) Temporary Pavement Marking Tape – Long Duration

Temporary pavement marking tape for long duration shall conform to ASTM D4592 Type I. Temporary pavement marking tape for long duration, except for black tape, shall have a minimum initial coefficient of retroreflective luminance of 200 mcd* m²*lx⁻¹ when measured in accordance with ASTM E 2832 or ASTM E 2177. Black tape, black mask tape and the black portion of the contrast removable tape, shall be non-reflective.

### 9-34.6 Temporary Raised Pavement Markers

This section’s title is revised to read:

Temporary Flexible Raised Pavement Markers

The second paragraph is deleted.
SECTION 9-35, TEMPORARY TRAFFIC CONTROL MATERIALS
August 4, 2014

9-35.0 General Requirements
The following item is deleted from the list of temporary traffic control materials:

Barrier Drums

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

Certification for crashworthiness according to NCHRP 350 or the Manual for Assessing Safety Hardware (MASH) will be required as described in Section 1-10.2(3).

9-35.2 Construction Signs
The first sentence is revised to read:

Construction signs shall conform to the requirements of the MUTCD and shall meet the requirements of NCHRP Report 350 for Category 2 devices or MASH.

9-35.7 Traffic Safety Drums
The third paragraph is revised to read:

Drums and light units shall meet the crashworthiness requirements of NCHRP 350 or MASH as described in Section 1-10.2(3).

9-35.8 Barrier Drums
This section including title is deleted in its entirety and replaced with the following:

9-35.8 Vacant

9-35.12 Transportable Attenuator
In the first paragraph, the fourth sentence is revised to read:

The Contractor shall provide certification that the transportable attenuator complies with NCHRP 350 Test level 3 or MASH Test Level 3 requirements.

9-35.13 Tall Channelizing Devices
In the sixth paragraph, the last sentence is revised to read:

The method of attachment must ensure that the light does not separate from the device upon impact and light units shall meet the crashworthiness requirements of NCHRP 350 or MASH as described in Section 1-10.2(3).
SPECIAL PROVISIONS
SPECIAL PROVISIONS
TO THE STANDARD SPECIFICATIONS

C 3552 – INSPIRATION DRIVE: End of Rd. to S. 31st St.
C 3242 – SCENIC CREST DRIVE: University Pkwy. To End of Road
U6 3562 – SCENIC CREST DRIVE DOMESTIC WATER

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, 2014 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. For example:

(March 8, 2013 APWA GSP)
(April 1, 2013 WSDOT GSP)

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
- Yakima County Standard Plans

Contractor shall obtain copies of these publications, at Contractor’s own expense.
DIVISION 1
GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(******)
The work to be performed under this Contract consists of the improvement of Inspiration Drive and S. 31st ST., end of road to S. 31st St and Scenic Crest Road from University Pkwy, to end of road. These improvements consists of constructing a three lane roadway section, sidewalks, curb and gutter, drainage swales, grading, placing and compacting top and base course, placing HMA pavement installing illumination, domestic water, sanitary sewer, and other work, in accordance with the attached Plans, these Special Provisions and the 2014 Standard Specifications and Amendments thereto.

The quantities of work indicated in the proposal are to be considered as estimates and are for comparative bidding purposes only. All payments shall be made on the basis of actual field measurement of Contract work completed.

FUNDS

(******)
Yakima County Road funds are involved in the construction of these improvements.

SECTION 1-01, DEFINITION AND TERMS

1-01.3 Definitions

(March 8, 2013 APWA GSP)

Delete the heading Completion Dates and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date
The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date
The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date
The date the Contracting Agency officially binds the Agency to the Contract.

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


**Substantial Completion Date**
The day the Engineer determines the Contracting Agency has full and unrestricted use
and benefit of the facilities, both from the operational and safety standpoint, any
remaining traffic disruptions will be rare and brief, and only minor incidental work,
replacement of temporary substitute facilities, plant establishment periods, or correction
or repair remains for the Physical Completion of the total Contract.

**Physical Completion Date**
The day all of the Work is physically completed on the project. All documentation
required by the Contract and required by law does not necessarily need to be furnished by
the Contractor by this date.

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

**Final Acceptance Date**
The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special
Provisions, to the terms “State”, “Department of Transportation”, “Washington State
Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”,
“Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.

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

All references to “final contract voucher certification” shall be interpreted to mean the final
payment form established by the Contracting Agency.

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

**Additive**
A supplemental unit of work or group of bid items, identified separately in the Bid Proposal,
which may, at the discretion of the Contracting Agency, be awarded in addition to the base
bid.

**Alternate**
One of two or more units of work or groups of bid items, identified separately in the Bid
Proposal, from which the Contracting Agency may make a choice between different methods
or material of construction for performing the same work.
Business Day
A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

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

Contract Documents
See definition for "Contract".

Contract Time
The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

Notice of Award
The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency's acceptance of the Bid Proposal.

Notice to Proceed
The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.

Traffic
Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

SECTION 1-02, BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder
(January 24, 2011 APWA GSP)

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.

1-02.2 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:

<table>
<thead>
<tr>
<th>To Prime Contractor</th>
<th>No. of Sets</th>
<th>Basis of Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced plans (11&quot; x 17&quot;)</td>
<td>10</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Contract Provisions</td>
<td>10</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Large plans (e.g., 22&quot; x 34&quot;)</td>
<td>0</td>
<td>Only upon request at Contractor’s expense: $10.50 per sheet.</td>
</tr>
</tbody>
</table>

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.

1-02.5 Proposal Forms
(June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder’s name, address, telephone number, and signature; the bidder’s D/M/WBE commitment, if applicable; a State of Washington Contractor’s Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.7 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
(August 15, 2012 APWA GSP, Option A)

Delete this section and replace it with the following:

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

If the project has FHWA funding and requires DBE Written Confirmation Documents or Good Faith Effort Documentation, then to be considered responsive, the Bidder shall submit with their Bid Proposal, written Confirmation Documentation from each DBE firm listed on the Bidder’s completed DBE Utilization Certification, form 272-056A EF, as required by Section 1-02.6.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids.

1-02.13 Irregular Proposals
(March 13, 2012 APWA GSP)

Revise item 1 to read:

1. A proposal will be considered irregular and will be rejected if:
   a. The Bidder is not prequalified when so required;
   b. The authorized proposal form furnished by the Contracting Agency is not used or is altered;
The completed proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
A price per unit cannot be determined from the Bid Proposal;
The Proposal form is not properly executed;
The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
The Bidder fails to submit written confirmation from each DBE firm listed on the Bidder’s completed DBE Utilization Certification that they are in agreement with the bidders DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
More than one proposal is submitted for the same project from a Bidder under the same or different names.

I-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.
SECTION 1-03, AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids
(January 23, 2006 APWA GSP)

Revise the first paragraph to read:

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

1-03.3 Execution of Contract
(October 1, 2005 APWA GSP)

Revise this section to read:

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

Within _10_ calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

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

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within _the_ calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of _10_ additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.
1-03.4 Contract Bond

(December 8, 2014 APWA GSP)

Revise the first paragraph to read:

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).

SECTION 1-04, SCOPE OF WORK

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

(March 13, 2012 APWA GSP)

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

1. Addenda,
2. Proposal Form,
3. Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency’s Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

SECTION 1-05, CONTROL OF WORK

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 andremedying 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.

1-05.13 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:
March 13, 1995

Other Contracts or Other Work

It is anticipated that the following work adjacent to or within the limits of this project will be performed by others during the course of this project and will require coordination of the work:

- Utility work by franchise utility companies relocating overhead and underground facilities within the project limits. No additional payment will be made for this utility coordination.
- Terrace Heights Sewer District will be replacing manhole at Scenic Crest Dr. Sta. 146+74 and installing a new sewer line to the north from the manhole.

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

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

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

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

Add the following new section:

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

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.
SECTION 1-06 CONTROL OF MATERIAL

1-06.1 Approval of Materials Prior to Use

Section 1-06.1 of the Standard Specifications shall be supplemented with the following:

The Contractor shall submit to the County for review shop, catalog, and other appropriate drawings and descriptive information prior to fabrication or ordering of all materials specified. Information shall be submitted in sufficient time to allow the County not less than 10 regular working days for review. The minimum number of copies of such information to be submitted shall be four.

When the submittals have been reviewed by the County, two sets will be returned to the Contractor. If major changes or corrections are necessary, the submittals will be returned to the contractor with such changes or corrections indicated, and the Contractor shall correct and resubmit in the same manner and quantity as specified for the original submittals.

No manufactured items or materials shall be installed until the submittals have been approved and appropriately stamped by the County.

SECTION 1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed

(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).

(June 27, 2011)

The Contracting Agency will release the Contract Bond only if the Contractor has obtained from the State Department of Revenue a certificate showing that all Contract-related taxes have been paid.

1-07.6 Permits and Licenses

Section 1-07.6 is supplemented with the following:

(September 20, 2010)

The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. All contacts with the permitting agency concerning the below-listed permit(s) shall be through the Engineer. The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable bid items for the work involved. Copies of these permits are required to be onsite at all times.

- Dept of Ecology’s Construction Stormwater General Permit
1-07.7 Load Limits

Section 1-07.7 is supplemented with the following:

(March 13, 1995)
If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.9 Wages

1-07.9(1) General

Section 1-07.9(1) is supplemented with the following:

(January 3, 2014)
The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.13 Contractor's Responsibility for Work

1-07.13(4) Repair of Damage

Section 1-07.13(4) is revised to read:

(August 6, 2001)
The Contractor shall promptly repair all damage to either temporary or permanent work as directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment will be limited to repair of damaged work only. No payment will be made for delay or disruption of work.

1-07.17 Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:

(April 2, 2007)
Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

Public and private utilities, or their Contractors, will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocation, replacement, or construction will be done during the prosecution of the work for this project. It is anticipated that utility adjustment, relocation, replacement or construction within the project limits will be completed as follows:
Utility relocation work may not be completed and adjustments will be performed by the various utilities if required during progression of work. The Contractor shall coordinate the work to ensure that the work can be completed in a continuous manner.

The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer, all affected Subcontractors, and all utility owners and their Contractors prior to beginning onsite work.

The following addresses and telephone numbers of utility companies or their Contractors that will be adjusting, relocating, replacing or constructing utilities within the project limits are supplied for the Contractor’s use:

| Call Before You Dig On Call Center Phone: 811 | CenturyLink | CenturyLink  
| 8 S. 2nd Ave Room 304, Yakima 98902  
(509) 575-7185 |
| Charter  
1005 N. 16th Ave., Yakima WA 98902  
(509) 728-2662 |
| Pacific Power and Light Co.  
500 N. Keys Rd., Yakima WA 98901  
(509) 575-3158 |
| Terrace Height Sewer District  
186 Iron Horse Ct, Suite 100, Yakima 98901  
(509) 453-8702 |
| Yakima County Utilities  
128 N. 2nd St., fourth floor, Yakima 98901  
(509) 574-3300 |
| Selah Moxee Irrigation District  
P.O. Box 166, Moxee WA 98936  
(509) 969-4274 |
| Hubbard Ditch Co.  
(509) 0740  
Union Gap Canal  
(509) 877-3392 |

1-07.18 Public Liability and Property Damage Insurance

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

1-07.18 Insurance
(January 24, 2011 APWA GSP)

1-07.18(1) General Requirements
A. The Contractor shall obtain the insurance described in this section from insurers approved by the State Insurance Commissioner pursuant to RCW Title 48. The insurance must be provided by an insurer with a rating of A-: VII or higher in the A.M. Best’s Key Rating Guide, which is licensed to do business in the state of Washington (or issued as a surplus line by a Washington Surplus lines broker). The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer (including financial condition), terms and coverage, the Certificate of Insurance, and/or endorsements.
B. The Contractor shall keep this insurance in force during the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated (see C. below).

C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Final Completion or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period (“tail”) or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

D. The insurance policies shall contain a “cross liability” provision.

E. The Contractor’s and all SubContractors’ insurance coverage shall be primary and non-contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or insurance pool coverage.

F. The Contractor shall provide the Contracting Agency and all Additional Insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.

G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s).

H. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency.

I. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.

J. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the contract and no additional payment will be made.

1-07.18(2) Additional Insured
All insurance policies, with the exception of Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):
- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers
- Terrace Height Sewer District
The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.

1-07.18(3) Subcontractors
Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting Agency, the Contractor shall provide evidence of such insurance.

1-07.18(4) Evidence of Insurance
The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. The certificate and endorsements must conform to the following requirements:
1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as Additional Insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement. A statement of additional insured status on an ACORD Certificate of Insurance shall not satisfy this requirement.
3. Any other amendatory endorsements to show the coverage required herein.

1-07.18(5) Coverages and Limits
The insurance shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve the Contractor from liability in excess of such limits. All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability
A policy of Commercial General Liability Insurance, including:

Per project aggregate
Premises/Operations Liability
Products/Completed Operations – for a period of one year following final acceptance of the work.
Personal/Advertising Injury
Contractual Liability
Independent Contractors Liability
Stop Gap / Employers’ Liability
Explosion, Collapse, or Underground Property Damage (XCU)
Blasting (only required when the Contractor’s work under this Contract includes exposures to which this specified coverage responds)

Such policy must provide the following minimum limits:
$1,000,000 Each Occurrence
$2,000,000 General Aggregate
$1,000,000 Products & Completed Operations Aggregate
$1,000,000 Personal & Advertising Injury, each offence

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

1-07.18(5)B Automobile Liability
Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90 endorsement and a CA 9948 endorsement attached if "pollutants" are to be transported. Such policy(ies) must provide the following minimum limit:
$1,000,000 combined single limit

1-07.18(5)C Workers' Compensation
The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the state of Washington.

1-07.23 Public Convenience and Safety

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

(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.
Deviations 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:

<table>
<thead>
<tr>
<th>Regulatory Posted Speed</th>
<th>Distance From Traveled Way (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 mph or less</td>
<td>10 *</td>
</tr>
<tr>
<td>40 mph</td>
<td>15</td>
</tr>
<tr>
<td>45 to 55 mph</td>
<td>20</td>
</tr>
<tr>
<td>60 mph or greater</td>
<td>30</td>
</tr>
</tbody>
</table>

* or 2-feet beyond the outside edge of sidewalk

**Minimum Work Zone Clear Zone Distance**

(August 7, 2006)

Lane closures are subject to the following restrictions:

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.

No lane closures will be allowed on a holiday or holiday weekend, or after 12:00 PM (noon) on a day prior to a holiday or holiday weekend. Holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend.

(April 14, 2014)

Physical reductions of the width of thru travelling lanes are subject to the following restrictions:

The Contractor shall not reduce the travelled way to a single lane with a clear width of less than 16 feet for a duration that exceeds 4 calendar days without prior approval of the Engineer. The Contractor shall submit a request for a width reduction that exceeds 4 calendar days to the Engineer no later than 30 calendar days prior to the start of the proposed width reduction. At a minimum, this request shall include:

1. Schedule showing the planned beginning date and end date of the width reduction.
2. Plans showing the limits and cross-sections showing the clear distance provided during the width reduction.
3. Details of available detour routes.
4. Plan to provide temporary windows of a minimum 16 foot width periodically during the width reduction, where possible.
The Engineer will reply, in writing, to the request within 7 calendar days. The Contractor shall immediately notify the Engineer if there are any changes to the schedule for the width reduction.

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

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

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

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

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

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

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

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

SECTION 1-08, PROSECUTION AND PROGRESS

Add the following new section:

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

Add the following new section:

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:
1. To review the initial progress schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:
1. A breakdown of all lump sum items;
2. A preliminary schedule of working drawing submittals; and
3. A list of material sources for approval if applicable.

Add the following new section:

1-08.0(2) Hours of Work
(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 14
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; inspectors; 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 non 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

1-08.1 Subcontracting

1-08.1(1) Subcontract Completion and Return of Retainage Withheld

Section 1-08.1(1) is revised to read:

(August 4, 2014)
The following procedures shall apply to all subcontracts entered into as a part of this Contract:

Requirements
1. The Prime Contractor or Subcontractor shall make payment to the Subcontractor not later than ten days after receipt of payment from the Contracting Agency for work satisfactorily completed by the Subcontractor, to the extent of each Subcontractor’s interest therein.
2. Prompt and full payment of retainage from the Prime Contractor to the Subcontractor shall be made within 30 days after Subcontractor’s Work is satisfactorily completed.

3. For purposes of this Section, a Subcontractor’s work is satisfactorily completed when all task and requirements of the Subcontract have been accomplished and including any required documentation and material testing.

4. Failure by a Prime Contractor or Subcontractor to comply with these requirements may result in one or more of the following:
   
a. Withholding of payments until the Prime Contractor or Subcontractor complies

   b. Failure to comply shall be reflected in the Prime Contractor’s Performance Evaluation

   c. Cancellation, Termination, or Suspension of the Contract, in whole or in part

   d. Other sanctions as provided by the subcontract or by law under applicable prompt pay statutes.

Conditions
This clause does not create a contractual relationship between the Contracting Agency and any Subcontractor as stated in Section 1-08.1. Also, it is not intended to bestow upon any Subcontractor, the status of a third-party beneficiary to the Contract between the Contracting Agency and the Contractor.

Payment
The Contractor will be solely responsible for any additional costs involved in paying retainage to the Subcontractors. Those costs shall be incidental to the respective Bid Items.

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
(June 27, 2011 APWA GSP)

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

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

1-08.5  Time for Completion

Section 1-08.5 is supplemented with the following:

(March 13, 1995)

This project shall be physically completed within 55 working days.

(*****)
The 36 In. Diam. Selah Moxee irrigation canal crossing and the 12 In. Diam. domestic water line under the canal in the vicinity of Scenic Crest Sta. 151+40 must be installed by March 6, 2015 prior to irrigation turn on.

The Sanitary Sewer work on S. 31st St. must be installed prior to March 15, 2015. If the sanitary sewer work is not completed prior to March 15, 2015 due to lack of diligence in pursuing the work, any additional cost for dewatering will not be paid.

(August 14, 2013 APWA GSP, Option A)

Revise the third and fourth paragraphs to read:

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

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4
days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

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

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

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

1-08.9 Liquidated Damages
(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

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

SECTION 1-09, MEASUREMENT AND PAYMENT

1-09.2(1) General Requirements for Weighing Equipment
(December 8, 2014 APWA GSP)

Revise Item 4 of the fifth paragraph to read:

1. Test results and scale weight records for each day’s hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman’s Daily Report, unless the printed ticket contains the same information that is on the Scaleman’s Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

1-09.6 Force Account

(October 10, 2008 APWA GSP)

Supplement this section with the following:

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

1-09.9 Payments

(March 13, 2012 APWA GSP)

Delete the first four paragraphs and replace them with the following:

The basis of payment will be the actual quantities of Work performed according to the Contract and as specified for payment.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer’s determination of the cost of work shall be final.

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

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payments. The progress estimates are subject to change at any time prior to the calculation of the final payment.
The value of the progress estimate will be the sum of the following:
1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor’s lump sum breakdown for that item, or absent such a breakdown, based on the Engineer’s determination.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

Progress payments will be made in accordance with the progress estimate less:
1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
2. The amount of progress payments previously made; and
3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

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

The quantities in the Proposal are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for approved changes will be made in the quantity even though the actual quantities required may deviate from those listed.

The unit contract price for these items shall be full pay to construct and complete this portion of the work.

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
(October 1, 2005 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 are located.
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.

SECTION 1-10, TEMPORARY TRAFFIC CONTROL

1-10.2 Traffic Control Management

1-10.2(1) General

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

(December 1, 2008)
Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the
State of Washington. The Traffic Control Supervisor shall be certified by one of the
following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035

Evergreen Safety Council
401 Pontius Ave. N.
Seattle, WA 98109
1-800-521-0778 or
(206) 382-4090

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701

1-10.4 Measurement

1-10.4(1) Items Bid with Lump Sum for Incidentals

Section 1-10.4(2) is supplemented with the following:

(August 2, 2004)
The proposal contains the item "Project Temporary Traffic Control," lump sum. The
provisions of Section 1-10.4(1) shall apply.

(******)
Flaggers and Spotter will be by the hour for each performing the work described in Section 1-10.3(1)A. Portions of an hour will be rounded up to the one half hour.

DIVISION 2
EARTHWORK

SECTION 2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

Section 2-01.1 is supplemented with the following:

(March 13, 1995)
Clearing and grubbing on this project shall be performed within the following limits:
The Contractor shall clear and grub as staked unless otherwise directed by the Engineer. The Contractor shall remove and dispose of all existing shrubs, trees, etc whether or not they are shown on the plans. Those areas identified on the Plans as having construction easements shall only be cleared as needed for improvements.

2-01.2(1) Disposal Method No. 1 – Open Burning

Section 2-01.2(1) is deleted and replaced with the following:
(*****)
No open burning will be allowed on this project.

2-01.2(3) Disposal Method No. 3 – Chipping

Section 2-01.2(3) is deleted and replaced with the following:
(*****)
Chipping shall be done by machines that can grind debris into wood chips. Wood chips to be sold or disposed of outside of this project may be any size. Wood chips to be used within the project site shall be no larger than 6 square inches and no thicker than 1/2-inch. The Contractor may spread the unsold chips evenly on the fill slopes only, and tractor walk them into the ground to the satisfaction of the Engineer.

2-01.5 Payment

Section 2-01.5 is revised as follows:
(*****)
There shall be no payment for roadside cleanup. All work performed for roadside cleanup shall be incidental to the Bid Item "Clearing and Grubbing" per Lump Sum, and no further payment shall be made.

SECTION 2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS
2-02.3 Construction Requirements

Section 2-02.3 is supplemented with the following:

(February 17, 1998)

Removal of Obstructions

The following items shall be removed, disposed of or reset as directed by the Engineer in accordance with the requirements of Section 2-02 of the Standard Specifications:

1. Remove existing wood bridge, Scenic Crest Sta. 151+50.
2. Remove 50 L.F. of existing guardrail on bridge, Scenic Crest Sta. 151+50.
3. Remove existing irrigation pipe and structure, Scenic Crest Sta. 146+94.

All other items encountered, which are not covered by Section 2-01 of the Standard Specifications (Clearing, Grubbing, and Roadside Cleanup) shall be considered incidental to the bid item “Removal of Structures and Obstructions”.

(*****)

Written permission shall be provided to the County from property owners of any waste site prior to its use.

2-02.3(4) Underground Utilities

Section 2-02.3(4) is a new section:

(*****)

2-02.3(4) Underground Utilities

Existing utilities indicated in the Plans have been plotted from the best information available to Engineer. Information and data shown or indicated in the Contract Documents with respect to existing underground utilities, services at, and contiguous to the project site are based on information and data furnished to Owner and Engineer by owners of such underground facilities or others, and Owner and Engineer do not assume responsibility for the accuracy or completeness thereof. It is to be understood that other aboveground or underground facilities not shown in the Plans may be encountered during the course of the work.

All utility valves, manholes, vaults, or pull boxes which are buried shall be conspicuously marked in a fashion acceptable to the Owner and Engineer by the Contractor to allow their location to be determined by the Engineer or utility personnel under adverse conditions, (inclement weather or darkness).

Where underground main distribution conduits, such as water, gas, sewer, electric power, or telephone, are shown on the Plans, the Contractor, for the purpose of preparing his bid, shall
assume that every property parcel will be served by a service connection for each type of utility.

Contractor shall check with the utility companies concerning any possible conflict prior to commencing excavation in any area. No excavation shall begin until all known facilities, in the vicinity of the excavation area, have been located and marked.

In addition to Contractor having all utilities field marked before starting work, Contractor shall have all utilities field marked after they are relocated in conjunction with this project.

Contractor shall make arrangements 48 hours in advance with respective utility owners to have a representative present when their utility is exposed or modified, if the utility chooses to do so. 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 Contractor for locations.

Contractor shall provide potholing, upon the Engineer’s request for the Engineer’s use in determining the location and elevations of existing utilities that may appear to be in conflict, in advance of the Contractor’s operations.

If or when utility conflicts occur, Contractor shall continue the construction process on other aspects of the project whenever possible. Work to resolve utility conflicts that are identified during the course of construction will be directed by the Engineer. In no way shall the work described in section 2-02.3(4) relieve the Contractor any of the responsibilities described in Section 1-07.17 and elsewhere in the Contract Documents.

SECTION 2-03, ROADWAY EXCAVATION AND EMBANKMENT

2-03.3 Construction Requirements

2-03.3(14) Embankment Construction

Section 2-03.3(14) is supplemented with the following:

(******)

All embankments shall be compacted using Method C.

2-03.4 Measurement

Section 2-03.4 of the Standard Specifications is deleted and replaced with the following:

(******)

Only one determination of the original ground elevations shall be made on this project. Measurement for roadway excavation and embankment shall be based on the original ground elevations recorded previous to the award of this Contract and the alignment, profile, grade, and roadway section as shown on the plans and as staked by the Engineer. Control stakes shall be set during construction to provide the Contractor with all essential information for the construction of excavation and embankments.
If discrepancies are discovered in the ground elevations, which will materially effect the quantities of earthwork, the original computations of earthwork shall be adjusted accordingly.

Earthwork quantities shall be computed either manually or by means of electronic data processing equipment, by use of the average end area method or surface model.

Copies of the ground cross-section notes shall be available for the bidder’s inspection, before the opening of bids, at the office of the County Engineer. Upon award of the Contract, copies of the original ground cross-sections shall be furnished to the successful bidder on request to the County Engineer.

2-03.5 Payment

Section 2-03.5 of the Standard Specifications is deleted and replaced with the following:

(******)

The Contract Unit Price for "Roadway Excavation Incl. Haul," per Cubic Yard, shall be full compensation for all labor, equipment, tools, and materials necessary to excavate, load, haul, place, compact, shape, or otherwise dispose of the materials including existing hot mix asphalt pavements, and any other work required to complete this item as specified and no further payment shall be made.

No separate payment shall be made for embankment compaction and all costs to perform this work as required shall be included in the Unit Bid Price per Cubic Yard for "Roadway Excavation Incl. Haul."

SECTION 2-07, WATERING

Section 2-07 is deleted and replaced with the following:

(******)

The Contractor shall be solely responsible for dust control on this project and shall protect the motoring public, adjacent homes, orchards and crops from damage due to dust, by whatever means necessary. The Contractor shall be responsible for any claims for damages and shall protect the County from any and all such claims.

When directed by the Engineer, the Contractor shall provide water for dust control within two hours of such order and have equipment and manpower available at all times including weekends and holidays to respond to orders for dust control measures.

If County forces are required to respond to a dust control problem, the Contractor shall be charged liquidated damages to offset County expenditures. For each time that the County is required to provide dust control measures, the Contractor shall be assessed damages in the amount of $500.00, which shall be deducted from any moneys due the Contractor under this contract.
Payment for water used for dust control, compaction, processing of base course and top course, and other work shall be included in the other Bid Items involved, and no further payment shall be made.

DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

5-04.3(10) Compaction

5-04.3(10)B Control

(******)
The first paragraph of Section 5-04.3(10)B of the Standard Specifications is deleted and replaced with the following:

HMA used in traffic lanes, including lanes for ramps, truck climbing, weaving, and speed change, and having specified compacted course thickness greater than 0.10 foot, shall be compacted to a specified level relative density. The specified level of relative density shall be a minimum of 91.0 percent of the reference maximum density as determined by WSDOT for AASHTO T 209. The reference maximum density shall be determined as the moving average of the most recent five determinations for the lot of asphalt concrete being placed. The specified level of density attained will be determined by five nuclear gauge tests taken in accordance with WAQTC FOP TM8 and WSDOT SOP T 729 on the day the mix is placed (after completion of the finish rolling) at locations determined by the stratified random sampling procedure conforming to WSDOT Test Method 716 within each density lot. The quantity represented by each density lot will be no greater than a single day’s production or approximately 400 tons, whichever is less. The Engineer will furnish the Contractor with a copy of the results of all acceptance testing performed in the field by 7:00 a.m. the morning of the next workday after testing, for nighttime work within four hours after the beginning of the next paving shift.

The last paragraph of Section 5-04.3(10)B of the Standard Specifications is deleted and replaced with the following:

In addition to the randomly selected locations for tests of density, the Engineer may also isolate from a normal lot any area that is suspected of being defective in relative density. Such isolated material will not include an original sample location. A minimum of 5 randomly located density tests will be taken. The isolated area then will be evaluated for price adjustment in accordance with the price reduction formula in the Special Provisions, considering it as a separate lot.

Control lots not meeting the minimum density standard shall be removed and replaced with satisfactory material.

At the option of the Engineer, non-complying material may be accepted at reduced price as computed below. The Compaction Price Adjustment will be calculated as the product of the
quantity of HMA in the lot in tons (Q), Adjusted Unit Contract Price Adjustment (AUCP) and the Pay Adjustment Factor (PAF).

**FACTORS INVOLVED:**

**Quantity of HMA involved** (from Compaction Control Report)

**Percent compaction** (from Compaction Control Report)

**Pay adjustment factor** (see table below)

**Liquid asphalt used** = Percent liquid asphalt from "Amount Ordered" or "Calculated from Production" (whichever is less) from Daily Report of Asphalt Plant Operations (when producing from a commercial plant, always use the "Amount Ordered")

**Price liquid asphalt** = Invoice price f.o.b. job site (if invoice unavailable then use average monthly refinery price.)

**Unit Contract Price** (from Contract Proposal)

**CALCULATION PROCEDURE:**

Equations:  
\[ PA = Q \times AUCP \times PAF \]  
\[ AUCP = UCP \times VLA \]  
\[ VLA = PLA \times RLAU \]  
\[ RLAU = LAU/100 \]

- **PA** = Price adjustment
- **UCPA** = Unit contract price adjustment
- **Q** = Quantity HMA involved
- **AUCP** = Adjusted unit contract price
- **PAF** = Pay adjustment factor
- **UCP** = Unit contract price
- **VLA** = Value liquid asphalt
- **PLA** = Price liquid asphalt
- **RLAU** = Rate liquid asphalt used
- **LAU** = Liquid asphalt used

**EXAMPLE:**

- **Q** = 200 tons
- Percent compaction = 90.5
- **LAU** = 5.0%
- **UCP** = $25.00/ton
- **PLA** = $200.00/ton f.o.b. job site
- **PAF** = 0.05
- **RLAU** = **LAU**/100
= 5.0/100
RLAU = 0.05 ton/ton
VLA = PLA x RLAU
   = $200.00/ton x 0.05 ton/ton
VLA = $10.00/ton

AUCP = UCP - VLA
   = $25.00/ton - $10.00/ton
AUCP = $15.00/ton

PA = Q x AUCP x PAF
   = 200 ton x $15.00/ton x 0.05
PA = $150.00

UCPA = PA/Q
   = $150.00/200 ton
UCPA = $0.75/ton

**PAY ADJUSTMENT FACTOR**

<table>
<thead>
<tr>
<th>% RICE</th>
<th>FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>91.0 AND ABOVE</td>
<td>0.00</td>
</tr>
<tr>
<td>90.0 - 90.9</td>
<td>0.05</td>
</tr>
<tr>
<td>89.0 - 89.9</td>
<td>0.10</td>
</tr>
<tr>
<td>88.0 - 88.9</td>
<td>0.20</td>
</tr>
<tr>
<td>BELOW 88.0</td>
<td>0.50 (IF ACCEPTED)</td>
</tr>
</tbody>
</table>

(January 6, 2014)

"Anti-Stripping Additive" by calculation.

"Anti-Stripping Additive" will be paid for in accordance with Section 1-09.6 except that no overhead, profit or other costs shall be allowed. Payment shall be made only for the invoice cost of the additive. The quantity of asphalt binder shall not be reduced by the quantity of anti-stripping additive used. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the total Bid by the Contractor.

**DIVISION 6**

**STRUCTURES**

**SECTION 6-02 CONCRETE STRUCTURES**

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

Section 6-02.3(2)A of the Standard Specifications shall be amended as follows:

The first sentence of the first paragraph of Section 6-02.3(2)A is revised to read as follows:
The Contractor shall provide a mix design in writing for all classes of concrete.

6-02.3(2)B Commercial Concrete

Section 6-02.3(2)B of the Standard Specifications shall be amended as follows:

The third sentence of the first paragraph is deleted and replaced with the following:

Commercial concrete requires plant approval, mix design, source approvals for cement, aggregate, and other admixtures.

In the first sentence of the second paragraph, the terms “luminaire bases, sidewalks, curbs, and gutters,” shall be deleted.

6-02.3(4) Ready-Mix Concrete

Section 6-02.3(4) of the Standard Specifications shall be amended as follows:

The first sentence of Section 6-02.3(4) is revised to read as follows:

All concrete, including commercial concrete and lean concrete, shall be batched in a prequalified manual, semi-automatic, or automatic plant as described in Section 6-02.3(4)A.

6-02.3(4)B Jobsite Mixing

Section 6-02.3(4)B of the Standard Specifications shall be amended as follows:

The first sentence of Section 6-02.3(4) is revised to read as follows:

For small quantities of concrete, less than ½ cubic yard, the Contractor may mix concrete on the job site, provided the Contractor has requested in writing and received written permission from the Engineer.

6-02.3(5) Acceptance of Concrete

6-02.3(5)A General

The first sentence of Section 6-02.3(5)A is hereby deleted and replaced with the following:

Lean concrete will be accepted based on a Certificate of Compliance to be provided by the Supplier as described in Section 6-02.3(5)B.
DIVISION 7
DRAINAGE STRUCTURES, STORM SEwers, SANITARY SEwers, WATER
MAINS AND CONDUITS

SECTION 7-05, MANHOLES, INLETS, CATCHBASINS, AND DRYWells

7-05.3 Construction Requirements

Section 7-05.3 is supplemented with the following:

(******)
The Drywell Infiltration Trench shall be constructed per the detail in the plans. No extra
excavation outside the limits of the infiltration trench will be allowed. The Drywell
Infiltration Trench shall be completely encased in "Moderate Survivability" Class B
underground drainage geotextile in accordance with the plans and with Section 2-12 and
Section 9-33 of the Standard Specifications. The drain rock shall meet the requirements of
Gravel Backfill for Drywells in Section 9-03.12(5) of the Standard Specifications.

(******)
A coupling shall be built into each manhole to accommodate the type of pipe it will
receive and to provide flexibility at that point. Manholes shall have 0.10 drop through
manhole.

The Contractor shall construct all manholes from precast concrete bases.

The word “SEWER” shall be cast on the cover with 3-inch high raised letters. The cover
and seat shall be machined so as to have full bearing for the entire width and
circumference of the bearing surface.

7-05.3(1) Adjusting Manholes, Utility Vaults and Catch Basins to Grade

Section 7-05.3(1) is supplemented with the following:

(******)
In asphalt concrete pavement: Manholes and Utility Vaults shall not be adjusted until the
pavement is completed, at which time the center of each manhole and utility vault shall
be carefully relocated from references previously established by the contractor. The
pavement shall be cut in a restricted area and base material be removed to permit removal
of the cover. The manhole or utility vault shall then be brought to proper grade utilizing
the same methods of construction as for the manhole and utility vault itself. The cast iron
frame shall be placed on the concrete blocks and wedged up to the desired grade. The
asphalt concrete pavement shall be cut and removed to a neat circle, the diameter of
which shall be equal to the outside diameter of the cast iron frame plus two feet. The
base materials and crushed rock shall be removed and Class 4000 Portland Cement
Concrete shall be placed so that the entire volume of the excavation is replaced up to
within but not to exceed 2 inches of the finished pavement surface. On the day following
placement of the concrete, the edge of the asphalt concrete pavement, and the outer edge
of the casting shall be painted with hot asphalt cement. Hot mix asphalt shall then be
placed and compacted with hand tampers and a patching roller. The complete patch shall
match the existing paved surface for texture, density, and uniformity of grade. The joint between the patch and the existing pavement shall then be carefully painted with hot asphalt cement or asphalt emulsion and shall be immediately covered with dry paving sand before the asphalt cement solidifies. The inside throat of the manhole and utility vault shall be thoroughly mortared and plastered.

Utility structures outside paved areas shall be adjusted to match the finish grade of the area surrounding the structure.

7-05.5 Payment

Section 7-05.5 of the Standard Specifications is supplemented with the following:

(******)
The Unit Contract Price for "Gravel Backfill for Drywells" per Ton, shall be full compensation for all labor, equipment, tools, and materials necessary to supply, excavate, load, haul, compact, furnish and place geotextile fabric, and any other work required to complete the item as specified and no further payment will be made.

(******)
No separate payment shall be made for supplying and placing the underground drainage geotextile fabric and all costs to perform this work as required shall be incidental to the other bid items for this work.

(******)
The Unit Contract Price per each for “Adjust Manhole,” per each, shall be full pay for all costs necessary to make the adjustments of structure lids to final grade per Yakima County plan S-11, including restoration of adjacent areas in a manner acceptable to the Engineer, rotating the structure tops where needed to clear curbing and other obstructions, and installing additional or removing sections of the structure. Contractor shall verify the size and type of structure for each adjustment to determine the scope of work necessary to adjust the structure to grade.

SECTION 7-08, GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.2 Materials

Section 7-08.2 of the Standard Specifications shall be supplemented with the following:

(******)
The "Gravel Backfill for Pipe Bedding " shall conform to Crushed Surfacing Top Course meeting the requirements of Section 9-03.9(3) of the Standard Specifications.

7-08.3(3) Backfilling

Section 7-08.3(3) of the Standard Specifications is supplemented with the following:

(******)
When directed by the Engineer, street crossing trenches and other locations shall be backfilled as to the depth specified by the Engineer with "Crushed Surfacing Top Course".

(******)
Excavated material suitable for trench backfill for the sanitary sewer shall conform to the requirements of Section 9-03.15. However, the presence and location of suitable material is not guaranteed and will be as discovered in the field. If import material is required it shall be Bank Run Gravel for Trench Backfill, conforming to the requirements of Section 9-03.19.

7-08.4 Measurement

Section 7-08.4 of the Standard Specifications is supplemented with the following:

(******)
When the Engineer directs the Contractor to backfill trenches with "Crushed Surfacing Top Course", the material shall be measured per Ton

7-08.5 Payment

Section 7-08.5 of the Standard Specifications is supplemented with the following:

(******)
When the Engineer directs the Contractor to backfill trenches with "Crushed Surfacing Top Course", payment shall be made by the Contract Bid Item "Crushed Surfacing Top Course" per Ton, which shall include all costs associated with labor, equipment, materials, etc, and no further payment shall be made.

SECTION 7-09, WATER MAINS

7-09.2 Materials

Section 7-09.2 of the Standard Specifications shall be supplemented with the following:

(******)
Bedding material shall meet the requirements of Section 9-03.12(3), except that crushed granular material used for bedding material shall be crushed surfacing top course meeting the requirements of Section 9-03.9(3).

Controlled density fill shall meet the requirements of Section 2-09.3(1)E.

The reference to Blow Off Assemblies in Section 7-09.2 of the Standard Specifications shall be revised to read as follows:

Blow Off Assemblies 9-30.5(7)

7-09.3(5) Grade and Alignment

(******)
The first sentence of the third paragraph in Section 7-09.3(5) of the Standard Specifications shall be replaced with the following:
The depth of trenching for water mains shall be such as to give a minimum cover of 48" over the top of the pipe unless otherwise shown in the Plans.

7-09.3(6) Existing Utilities

Section 7-09.3(6) of the Standard Specifications shall be supplemented with the following:

(******)
When the horizontal separation between a water line and a sewer line is less than 10-feet, then the water line shall be encased in controlled density fill (CDF). The dimensions of the CDF shall be greater than or equal to the dimensions of the trench bedding material.

When the water line crosses within 18 vertical inches of a sewer line, or when the water line crosses under a sewer line, then the water line shall be encased in CDF a minimum of 10-feet to either side of the crossing.

The special conditions described above apply to both main lines and side services.

7-09.3(7) Trench Excavation

Section 7-09.3(7) is supplemented with the following:

(******)
Trench excavation shall include removing existing concrete cut-off walls as required to provide minimum trench widths shown in Standard Plan W-3. No separate payment will be made for removal of existing concrete cut-off walls.

7-09.3(9) Bedding the Pipe

Section 7-09.3(9) of the Standard Specifications shall be replaced with the following:

(******)
Pipe zone bedding shall be placed to the depths shown on Yakima County Standard Plan W-3.

Pipe bedding below the pipe shall be graded and compacted to form a continuous and uniform bearing for the pipe at every point between bell holes, except that the grade may be disturbed for the removal of lifting tackle. Pipe bedding below the pipe shall be compacted in a single lift to a minimum of 85 percent and a maximum of 95 percent of maximum density prior to laying the pipe.

Pipe bedding from the bottom of the pipe to 6-inches above the pipe shall be placed in even lifts on each side of the pipe and compacted to a minimum of 95 percent of maximum density by approved hand-held tools, so as to provide firm and uniform support for the full length of the pipe, valves, and fittings. Care shall be taken to prevent damage to the pipe or its protective coating. Limit compacted lift thickness to 6-inches.

When controlled density fill is used in place of bedding material, bolted connections shall be wrapped in an 8-mil polyethylene sheet to provide access to the connections.

7-09.3(10) Backfilling Trenches
Section 7-09.3(10) of the Standard Specifications shall be supplemented with the following:

(******)
Materials excavated from the trench may be used for trench backfill, except that organic material, frozen lumps, asphalt or concrete pavement, or rocks larger than eight inches in the greatest dimension shall not be used; and except that materials determined by the Engineer to be unsuitable for backfill at the time of excavation shall be removed and replaced with imported backfill material. Bedding Material shall be used for imported backfill material, except that Bank Run Gravel for Trench Backfill meeting the requirements of Section 9-03.19 may be used in untraveled areas.

7-09.3(11) Compaction of Backfill

The first paragraph of Section 7-09.3(11) of the Standard Specifications shall be replaced with the following:

(******)
Trench backfill shall be compacted to at least 85 percent of maximum density in trenches in untraveled areas, and to at least 95 percent of maximum density in trenches located in streets, roadway shoulders, driveways, or sidewalks, as specified in Section 2-03.3(14)D.

7-09.3(19)A Connections to Existing Mains

Section 7-09.3(19)A of the Standard Specifications shall be supplemented with the following:

(******)
Connections to existing mains shall be made with hot taps unless otherwise directed.

7-09.3(20) Detectable Marking Tape

The first sentence of Section 7-09.3(20) of the Standard Specifications shall be replaced with the following:

9******
Detectable marking tape shall be installed over all water lines, including service lines.

7-09.3(24) Disinfection of Water Mains

Section 7-09.3(24) of the Standard Specifications shall be supplemented with the following:

(******)
New sections of water main must be separated from the existing system until satisfactory flushing, disinfection, and bacteriological sampling has been completed. Disinfection will not be permitted against a closed valve unless a temporary plate is installed between the valve and the new section of water main. Some new sections of water main will require a piece of connecting pipe to be installed between the new water main and the existing system after satisfactory bacteriological sample results are obtained. Before making any final connections, the interiors of all pipe and fittings used to make the final connection must be disinfected by swabbing or spraying with a chlorine solution.
Disinfection shall be in accordance with AWWA C651 and these Special Provisions. As a minimum, after final flushing and before the new water main is placed in service, two consecutive sets of acceptable samples shall be collected from the new main. Each set shall include as a minimum at least one sample from every 1200-feet of the new water main, plus one sample from the end of the line, and at least one sample from each branch. The first set of samples shall be collected at least 24-hours after flushing, and the second set of samples shall be collected at least 24-hours after the first set of samples.

When dry calcium hypochlorite is used for disinfection of the pipe, the contractor shall fill the pipe in such a manner as to prevent the calcium hypochlorite from being washed to the end of the pipe.

7-09.3(24)K Retention Period

Section 7-09.3(24)K is supplemented with the following:

(******)

Treated water shall not be retained in the pipe more than 72-hours.

7-09.3(25) Tracer Wire (New Section)

The Contractor shall install a tracer wire, in addition to the detectable marking tape, over all water lines, including service lines. The tracer wire shall be 12 gauge copper wire with blue coded UF insulation. The tracer wire shall be attached to center of pipe at minimum 6' intervals and at bends with duct tape. Water tight connectors suitable for direct bury shall be used as connectors for splices. Bare wire contact points shall be provided at valve boxes, meter boxes, and air release and blow off assemblies.

7-09.3(26) Trench Safety System (New Section)

Contractor shall provide a Trench Safety System meeting the requirements of the Washington Industrial Safety and Health Act, Chapter 49.17 for all trenches in excess of four (4) feet in depth.

The duty of the engineer to conduct construction review of the work does not include review or approval of the adequacy of the Contractor's Trench Safety System, safety program, safety supervisor, or any safety measures taken in, on, or near the construction site. The Contractor shall be solely and completely responsible for complying with trench safety.

Payment for the Trench Safety System, as required by Chapter 39.04 RCW, shall not be construed as acceptance or approval of the Contractor's Trench Safety System.

7-09.4 Measurement

Section 7-09.4 of the Standard Specifications shall be supplemented with the following:

(******)

Measurement for "Trench Safety System" shall be per lump sum.
7-09.5 Payment

Section 7-09.5 of the Standard Specifications shall be supplemented with the following:

(******)
"Trench Safety System", per lump sum.

SECTION 7-12, VALVES FOR WATER MAINS

7-12.2 Materials

The first paragraph in Section 7-12.2 of the Standard Specifications shall be supplemented with the following:

(******)
Valve Stem Extensions 9-30.3(6)
Debris Cap (New Section) 9-30.3(10)

SECTION 7-15, SERVICE CONNECTIONS

7-15.3(1) Flushing and Disinfection

Section 7-15.3(1) of the Standard Specifications shall be supplemented with the following:

(******)
Service lines installed in conjunction with new water mains shall be flushed and disinfected with the water main in accordance with Section 7-09.3(24). Following chlorination, treated water shall be flushed from all service lines until the replacement water shows the absence of chlorine. In the event the supply water is chlorinated, the chlorine residual shall not be in excess of that carried in the water supply system.

7-15.3(2) Pressure Testing (New Section)

Service lines installed in conjunction with new water mains shall be pressure tested with the water main in accordance with Section 7-09.3(23).

SECTION 7-17, SANITARY SEWER

7.17.3 Construction Requirements

Section 7-17.3 of the Standard Specifications shall be supplemented with the following:

(******)
All pipe shall be unloaded from delivery vehicles with mechanical equipment. Dropping of pipe onto the ground or mats will not be permitted. All pipe and fittings shall be carefully lowered into the trench in such a way as to prevent damage to sewer main materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped into the trench.
All pipe shall be laid in straight lines and at uniform rate for grade between manholes. Variation in the invert elevation between adjoining ends of pipe due to non-concentricity of joining surface and pipe interior surfaces shall not exceed 1/64 inches per inch of pipe diameter, or 1/2-inch maximum.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being laid. After placing a length of pipe in the trench, the spigot end shall be centered in the bell and pipe forced home and brought to connect line and grade. The pipe shall be secured in place with pipe bedding tamped under it. Precaution shall be taken to prevent dirt from entering the joint space. At times when pipe laying is not in progress, the open ends of pipe shall be closed by a water-tight plug or other means agreed to by the District. If water is in the trench when work resumes, the seal shall remain in place until the trench is dewatered as specified for groundwater control. Tee branches shall be blocked and sealed with the same joint and pipe material as used for pipes.

Care shall be taken to properly align, clean and lubricate the spigot and socket area of the pipes before joining. The pipe spigot shall be forced into the socket until the reference mark on the spigot is flush with the bell end.

All connections to existing sewer pipe of differing materials shall be made with adapters which are specifically manufactured for this purpose, and shall employ elastomeric gasket joints, unless specifically otherwise authorized by the District. If the band type adapters are used, then only stainless steel bands will be allowed.

In addition to the requirements for testing the sewer pipe, all pipelines shall be visually free from leakage. If the pipe installation fails to meet these requirements, the Contractor shall determine, at his own expense, the source or sources of leakage, and he shall repair (if the extent and type of repairs proposed by the Contractor appear reasonable to the District) or replace all defective materials or workmanship. The completed pipe installation shall meet the requirements of the visual test and shall meet the requirements of the air test and/or the deflection test before being considered acceptable.

All lines shall be flushed clean of all debris prior to acceptance. Water for this purpose shall be furnished by the Contractor. Disposal of the flushing water will be to a point approved by the Engineer.

7-17.3(2) Cleaning and Testing

Section 7-17.3(2) of the Standard Specifications shall be supplemented with the following:

(*****)

Upon completion of a section of line, it shall be thoroughly cleaned by flushing with the use of a ball, jet cleaning, or other approved method. Flushing of silt or debris from the newly constructed sewers into the existing system will not be permitted. Testing shall comply with that specified in the following specifications. If additional testing is ordered by the District to determine if the work is in compliance with the Specifications, that testing will be performed at the cost of the District unless the test should fail. If the test should fail, additional tests shall be performed by the Contractor at his expense after
necessary corrective work has been performed. Also, all costs of the original test shall be
borne by the Contractor in the event of failure. The pipe installation shall be tested with
low pressure air in accordance with the Standard Specifications immediately following
cleaning and flushing. Air shall be slowly supplied to the plugged pipe installation until
the internal air pressure reaches 4.0 psi greater than the average back pressure of any
ground water that may submerge the pipe. At least two minutes shall be allowed for
temperature stabilization before proceeding further. After the internal air temperature
stabilizes, the pressure in the pipe shall be bled down to 3-1/2 psi above the average back
pressure of groundwater above the centerline of the pipe. The Contractor shall be
responsible for coordinating and providing for rerouting existing sewage flow around the
test area as necessary. The infiltration test method shall not be used for testing main line.
Copies of the inspector’s leakage tests shall be given to the District. The District shall be
notified in advance of any testing performed. In addition, the District reserves the right to
conduct infiltration tests of their own on the system. If their tests indicate infiltration
exceeding the limits specified in the Standard Specifications, then the contractor shall be
required to take necessary corrective measures. The District will notify the Contractor if
infiltration tests are to be run and he will be given adequate notice so that he may witness
the tests if he should desire to do so.

7-17.3(2)G Deflection Test for Thermoplastic Pipe

Section 7-17.3(2)G of the Standard Specifications is supplemented with the following:

(*****)

Following the flushing and cleaning operations, the contractor shall pull a mandrel
through the completed pipe line from manhole to manhole. The mandrel shall be at least
95 percent of the pipe diameter. If any flexible pipe has deflected more than 5 percent or
if any pipe otherwise fails to pass the test, the contractor shall be required, at his expense,
to locate and repair any sections and then re-test. The contractor shall schedule with the
District at least 48 hours in advance of the test. The District must be present for the test.

7-17.3(2)H Television Inspection

Section 7-17.3(2)H of the Standard Specifications shall be deleted and replaced with the
following:

(*****)

All sanitary sewer lines shall be inspected by the use of a television camera before final
acceptance. The Contractor shall bear all costs incurred in correcting any deficiencies
found during the television inspection, including the cost of any additional television
inspection that may be required by the Engineer to verify the correction of any
deficiency. The Contractor shall be responsible for all costs incurred in any television
inspection performed solely for the benefit of the Contractor. The television inspection
shall include a verbal and written narrative indicating construction deficiencies, side
sewer connections, and items of note. The Contractor shall forward one copy of the
television inspection and written log to the District within one week of completing the
inspection. The Contractor shall inform the District at least 48 hours prior to scheduling
the television inspection(s).
7-17.4 Measurement

Section 7-09.4 of the Standard Specifications shall be supplemented with the following:

(******)
Measurement for “Trench Safety System” shall be per lump sum.

7-17.5 Payment

Section 7-09.5 of the Standard Specifications shall be supplemented with the following:

(******)
“Trench Safety System”, per lump sum.

DIVISION 8
MISCELLANEOUS CONSTRUCTION

SECTION 8-01, EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3(1)B Erosion and Sediment Control (ESC) Lead

Section 8-01.3 of the Standard Specifications is supplemented with the following:

(******)
The ESC Lead shall be responsible for all submittals required for the Construction Storm Water permit through the life of the contract. The County will assume responsibility once the contract is complete.

8-01.3(2)B Seeding and Fertilizing

Section 8-02.3(15) B of the Standard Specifications is supplemented with the following:

(******)
Grass seed, of the following composition, proportion, and quality, shall be applied at the rate of 40 pounds per acre on all areas requiring seeding within the project:

<table>
<thead>
<tr>
<th>Grass Species</th>
<th>Scientific Name</th>
<th>Pounds per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crested Wheatgrass</td>
<td>Agropyron cristatum</td>
<td>20</td>
</tr>
<tr>
<td>Bluebunch Wheatgrass</td>
<td>Agropyron spicatum</td>
<td>5</td>
</tr>
<tr>
<td>Basin Wild Rye</td>
<td>Elymus cinereus</td>
<td>5</td>
</tr>
<tr>
<td>Annual Rye</td>
<td>Lolium multiforum</td>
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</tr>
<tr>
<td><strong>Total Pounds per Acre</strong></td>
<td></td>
<td><strong>40</strong></td>
</tr>
</tbody>
</table>

(January 5, 1998)
Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

- **Total Nitrogen as N** - 80 pounds per acre
- **Available Phosphoric Acid as P\textsubscript{2}O\textsubscript{5}** - 40 pounds per acre
- **Soluble Potash as K\textsubscript{2}O** - 40 pounds per acre

Ninety percent of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or sulfur-coated urea (SCU). The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

**8-01.3(2)D Mulching**

Section 8-01.3(5) of the Standard Specifications is supplemented with the following:

(******)

Wood cellulose fiber mulch shall be applied at a rate of 2,000 pounds per acre.

**8-01.3(2)E Soil Binder or Tacking Agent**

Section 8-01.3(6)B of the Standard Specifications is supplemented with the following:

(******)

Tacking agent shall be Type A in accordance with Section 9-14.4(7) of the Standard Specifications. Application rate shall be per manufacturer’s written recommendations.

**8-01.5 Payment**

Section 8-02.5 of the Standard Specifications is supplemented with the following:

(******)

The per-acre price for “Seeding, Fertilizing, and Mulching” shall also include providing tacking agent.

**SECTION 8-02 ROADSIDE RESTORATION**

**8-02.3(4)A Topsoil Type A**

Section 8-02.3(4) of the Standard Specifications is supplemented with the following:

(******)

Topsoil Type A shall be fine aggregate conforming to Section 9-03.1(2)B Class 2 and shall be mixed with 40% by volume of commercially supplied vegetative compost approved by the Engineer.
SECTION 8-04 CURBS, GUTTERS, AND SPILLWAYS

8-04.3 Construction Requirements

8-04.3(1) Cement Concrete Curbs, Gutters and Spillways

The first paragraph of Section 8-04.3(1) of the Standard Specifications is deleted and replaced with the following:

(******)
Cement concrete curb, curb and gutter, gutter, and spillway, shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02.

The sixth paragraph of Section 8-04.3(1) of the Standard Specifications is deleted and replaced with:

(******)
Should the Contractor elect to have the curbs and gutters cast by the slip-form method, then a modified Class 4000 concrete mix shall be used. The proposed mix shall be submitted for review and approval by the Engineer a minimum of ten working days prior to the date of intended use.

SECTION 8-14 CEMENT CONCRETE SIDEWALKS

8-14.1 Description

Section 8-14.1 is supplemented with the following:

(******)
Cement Conc Sidewalks and Cement Conc. Sidewalk Ramps, shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02.

8-14.3(3) Placing and Finishing Concrete

Section 8-14.3(3) is supplemented with the following:

(******)
Expansion joints must be constructed using a cold joint. Forms shall be used at each expansion joint location and extend the full depth of the concrete. The premolded joint filler shall be placed the entire length and depth of the expansion joint after the concrete has cured properly and prior to pouring the next consecutive sidewalk panel.

Placing and pressing the premolded joint filler into a continuous sidewalk pour will not be an approved method for constructing an expansion joint.

SECTION 8-18, MAILBOX SUPPORT

8-18.3 Construction Requirements

Section 8-18.3 is supplemented with the following:
(******)
Prior to construction, the Contractor shall inventory all mailboxes to be relocated along the project and either salvage the existing mailboxes or replace in kind. The Contractor shall notify all residents of the location of their temporary mailbox prior to the relocation of said mailboxes.

Mailbox supports shall be replaced as shown on the attached Standard Plans and according to the locations shown on construction plans, or at the location directed by the Engineer and/or the United States Postal Service.

All mailboxes shall be installed such that the front face of the mailbox is flush with the new edge of road and as per the direction of the Engineer.

Newspaper boxes shall be relocated along the project and shall be relocated back after the completion of the project to the satisfaction of the Engineer.

8-18.5 Payment

Section 8-18.5 is supplemented with the following:
(******)
Payment for the Contract Bid Item "Mailbox Support Type _ " per Each, shall include all costs for materials, haul, labor, equipment and all other costs necessary to complete the item as specified and no further payment shall be made.

All costs associated with transferring the existing mailboxes and newspaper tubes to the new mailbox supports, including support hardware, clamps, etc. shall be considered incidental to the Bid Items "Mailbox Support Type _ " per Each, and no further payment shall be made.

SECTION 8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL

8-20.2 Materials

Section 8-20.2 of the Standard Specifications is supplemented with the following:
(******)
The County shall provide the following materials to be incorporated into the project by the contractor:

A total of twelve (12) Type 1 (Davit) mast arm steel light standards along with their associated anchor bolts;
Seven (7) steel light standards for Inspiration Dr and S 31st St project
Five (5) steel light standards for Scenic Crest Dr project

The Contractor is responsible to furnish all other materials required to make the system functional.
All Yakima County furnished materials will be made available at the Yakima County maintenance shop at 1216 S. 18th Street, Yakima, Washington. The contractor shall make prior arrangements with the Engineer 5 working days in advance for any pick up.

DIVISION 9
MATERIALS

SECTION 9-29, ILLUMINATION, SIGNAL, ELECTRICAL

9-29.10(1) Luminaires

Section 9-29.10 (3) is deleted and replaced with the following:

(******)
Luminaire shall be GE Lighting (Scalable Specification Grade Cobrahead) ERS series LED street lights.

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<td>ERS3-0-J3-E1-5-40-1-GRAY-T (151 watts)</td>
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The Contractor shall submit cut sheets to the Engineer for approval prior ordering.

9-29.24 Service Cabinets

Section 9-29.24 of the Standard Specifications is supplemented with the following:

(******)
The Contractor shall furnish and install “Yakima County modified Class B” service cabinet, as shown in the contract plans.

SECTION 9-30, WATER DISTRIBUTION MATERIALS

9-30.2(6) Restrained Joints

Section 9-30.2(6) of the Standard Specifications shall be supplemented with the following:

(******)
Joint restraint devices for PVC pipe shall meet the requirements of UNI-B-13-92. Joint restraint devices used on mechanical joints shall allow full joint deflection capabilities of the joint after installation, and shall be as manufactured by The Ford Meter Box Co., or equal.

9-30.3(1) Gate Valves (3-inches to 12-inches)

Section 9-30.3(1) of the Standard Specifications shall be supplemented with the following:
Gate valves shall be as manufactured by Clow Corporation, M&H Valve Co., Mueller, or equal.

Valves larger than 10 inches in size shall be butterfly valves.

9-30.3(3) Butterfly Valves

Section 9-30.3(3) of the Standard Specifications shall be supplemented with the following:

Butterfly valves shall be as manufactured by Pratt, Mueller, American Darling, M&H Valve Co., or approved equal.

9-30.3(4) Valve Boxes

Section 9-30.3(4) of the Standard Specifications shall be supplemented with the following:

Valve box top sections shall be 18-inches in height and shall be Rich Model 940-B, or equal.

9-30.3(10) Debris Cap (New Section)

Debris cap shall prevent dirt and debris from entering the top of valve box. Debris cap shall have blue locking handle and shall be Model DC625 as manufactured by SW Services, Inc. Phoenix, Arizona, or equal.

9-30.5 Hydrants

Section 9-30.5 of the Standard Specifications shall be supplemented with the following:

Fire hydrants shall be Mueller Super Centurion 250 Model A-423, M & H 929, Clow Medallion, or approved equal.

9-30.5(2) Hydrant Dimensions

Section 9-30.5(2) of the Standard Specifications shall be supplemented with the following:

Fire hydrants shall have a main valve opening size of 5-1/4 inches, a 1-1/4 inch pentagon operating nut, one 4-1/2 inch N.S.T. steamer port with storz coupling and two 2-1/2 inch N.S.T. hose connections. Fire hydrants shall be painted with one coat of high visibility yellow paint after installation.

9-30.5(7) Blow-Off Hydrants (New Section)

Blow-off hydrants shall be suitable for direct burial and shall be of a non-freezing, self draining type. Blow-off hydrants shall have a bronze 2-1/2 inch N.S.T. outlet. All working parts shall be of bronze-to bronze design, and shall be serviceable from above grade with no digging. Blow-
off hydrants shall be as Manufactured by Kupferle Foundry Co., St. Louis, MO, or approved
equal.

9-30.6 Water Service Connections (2 Inches and Smaller)

9-30.6(2) Corporation Stops

Section 9-30.6(2) of the Standard Specifications shall be supplemented with the following:

(******)
Corporation stops shall be Ballcorp Corporation Stops, as manufactured by the Ford
Meter Box Co., Inc. or equal.

9-30.6(3) Service Pipes

Section 9-30.6(3) of the Standard Specifications shall be replaced with the following:

(******)
Service line pipe shall be polyethylene tubing meeting the requirements of AWWA C901.
Tubing shall have a minimum diameter of 1 inch and shall be high molecular weight with
a 200 psi rating. Tubing used for 1 inch service lines shall be SIDR 7 (iron pipe size, PE
3408 material). Tubing used for 1½ inch and 2 inch service lines shall be SDR 9 (copper
tube size).

9-30.6(4) Service Fittings

Section 9-30.6(4) of the Standard Specifications shall be replaced with the following:

(******)
Service fittings shall be pack joint couplings as manufactured by the Ford Meter Box Co.,
Inc. or equal. Stainless steel stiffeners shall be used with pack joint couplings.

(October 23, 2014)

STANDARD PLANS

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01
transmitted under Publications Transmittal No. PT 14-046, effective August 4, 2014 is made a
part of this contract.

The Standard Plans are revised as follows:

A-50.10
Sheet 2 of 2, Plan, with Single Slope Barrier, reference C-14a is revised to C-70.10

A-50.20
Sheet 2 of 2, Plan, with Anchored Barrier, reference C-14a is revised to C-70.10

A-50.30
Sheet 2 of 2, Plan (top), reference C-14a is revised to C-70.10

A-60.10
Sheet 2, Section B, callout, WAS “New Tie Bar ~ #5 x 30” (IN) Epoxy Coated Reinforcing Bar” is revised to read: “New Tie Bar ~ #5 x 30” (IN)”

B-10.20 and B-10.40
Substitute “step” in lieu of “handhold” on plan

B-15.60
Table, Maximum Knockout Size column, 120” Diam., 42” is revised to read; 96”

B-25.20
Add Note 7. See Standard Specification Section 8-04 for Curb and Gutter requirements

B-55.20
Metal Pipe elevation, title is revised to read; “Metal Pipe and Steel Rib Reinforced Polyethylene Pipe”

B-90.40
Offset & Bend details, add the subtitle, “Plan View” above titles

C-16a
Note 1, reference C-28.40 is revised to C-20.10

C-16b
Note 3, reference C-28.40 is revised to C-20.10

F-10.12
Section Title, was – “Depressed Curb Section” is revised to read: “Depressed Curb and Gutter Section”

G-50.10
Delete – Plan View (bottom center of sheet)
Delete – Mounting Bracket and Steel Strap Detail

G-60.10
Sheet 4, Screen Detail, callout – “drill and Tap for ¼” diameter Cap Screw – Spacing approx. 9” o.c. ASTM F593, w/S.S. washer Liberally coat the threads with Anti-seize compound (TYP.)” is revised to read: “*Drill and Tap ¼” (IN) Diam. x 1” (IN) Cap Screw with washer ~ space approx.. 9” o.c. ~ Liberally coat threads with Anti-seize compound (TYP.)”

Add Boxed note: * Bolts, Nuts, and washers ~ ASTM F593 or A193 Type 304 or Type 316 Stainless Steel (S.S.)

G-60.20
Side View, callout, “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.” is revised to read; “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.”

G-60.30
End View, callout, “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 4 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.” is revised to read; “Anchor Rod ~ 1-3/4” Diam. x 4’-4” Threaded 8” Min. Each End; W/ 2 Washers & 6 Heavy Hex Nuts ~ Galvanize Exposed Anchor Rod End for 1’-0” Min.”

G-70.10
Sheet 4, Screen Detail, callout – “drill and Tap for ¼” diameter Cap Screw – Spacing approx. 9” o.c. ASTM F593, w/S.S. washer Liberally coat the threads with Anti-seize compound (TYP.)” is revised to read: “*Drill and Tap ¼” (IN) Diam. x 1” (IN) Cap Screw with washer ~ space approx.. 9” o.c. ~ Liberally coat threads with Anti-seize compound (TYP.)”

Add Boxed note: * Bolts, Nuts, and washers ~ ASTM F593 or A193 Type 304 or Type 316 Stainless Steel (S.S.)

H-70.20
Sheet 2, Spacing Detail, Mailbox Support Type 1, reference to Standard Plan I-70.10 is revised to H-70.10

J-3b
Sheet 2 of 2, Plan View of Service Cabinet, Boxed Note, “SEE STANDARD PLAN J-6C…” is revised to read: “SEE STANDARD PLAN J-10.10…”
Sheet 2 of 2, Plan View of Service Cabinet Notes, references to Std. Plan J-9a are revised to J-60.05 (3 instances).

Sheet 2 of 2, “Right Side of Service Cabinet” detail, callout, “1 5/8” x 2 7/16” 12 GA. SLOTTED STEEL CHANNEL BRACKETS (3 REQ’D), EMBED 12” MIN. IN FOUNDATION.” Is revised to read: “1-5/8” x 3-1/4”, 12 GA. BACK TO BACK SLOTTED STEEL CHANNEL BRACKETS (3 REQ’D), EMBED 12” MIN. IN FOUNDATION”

J-10.22

J-22.15
Ramp Meter Signal Standard, elevation, dimension 4’ - 6” is revised to read; 6’-0”

J-28.70
Detail C, dimension, 2” MAX. is revised to read: 1” MAX.
Detail D, dimension, 2” MAX. is revised to read: 1” MAX.

J-29.10
Galvanized Welded Wire Mesh detail, callout – “Drill and Tap for ¼” Diam. Cap Screw, 3 Places, @ 9” center, all 4 edges S.S. Screw, ASTM F593 and washer”
Is revised to read;
“*Drill and Tap ¼” (IN) Diam. x 1” (IN) Cap Screw with washer ~ space approx.. 9” o.c. ~ Liberally coat threads with Anti-seize compound (TYP.)”

Add Boxed note: * Bolts, Nuts, and washers ~ ASTM F593 or A193 Type 304 or Type 316 Stainless Steel (S.S.)

J-29.15
Title, “Camera Pole Standard” is revised to read; “Camera Pole Standard Details”

J-29.16
Title, “Camera Pole Standard Details” is revised to read; “Camera Pole Details”

J-60.14
All references to J-16b (6x) are revised to read; J-60.11

J-90.10
Section B, callout, “Hardware Mounting Rack ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

J-90.20
Section B, callout, “Hardware Mounting Rack (Typ.) ~ S. S. 1-5/8” Slotted Channel” is revised to read: “Hardware Mounting Rack (Typ.) ~ Type 304 S. S. 1-5/8” Slotted Channel”

K-80.10
Sign Installation (Fill Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Sidewalk and Curb Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Behind Traffic Barrier Section), Delete dimensions - 6’ TO 12’ MIN. and 6’ MIN.
Sign with Supplemental Plaque Installation (Fill Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Sign Installation (Ditch Section), dimension, 6’ TO 12’ MIN. is revised to read: 12’ MIN.
Delete dimension – 6’ MIN.

K-80.30
In the NARROW BASE, END view, the reference to Std. Plan C-8e is Revised to Std. Plan K-80.35

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

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APPENDIX A
STANDARD PLANS
SECTION A-A

NOTE:
1) WHEN STREET GRADE EXCEEDS 5% USE VANED GRATE WSDOT STANDARD PLAN B-30.30-01.
CIRCULAR FRAME AND COVER PER WSDOT STANDARD PLAN B-30.70-03 WITH THE WORD "DRAIN"

FINISHED GRADE

PIPE FROM CATCH BASIN

24" DIA. M.H. OPENING ALIGNED WITH STEPS

CAST IRON RING AND COVER PER WSDOT STD. PLAN B-85.40-00

GROUT TYPE 2 PER WSDOT STD. SPEC. 9-20 BETWEEN RISERS AND GRATE (TYP.)

PRECAST WATERPROOF SLEEVE OR GROUT TYPE 2 INSIDE AND OUT (TYP.) PER WSDOT STD. SPEC. 9-20. MINIMUM COMpressive STRENGTH SHALL BE 4000 PSI AT 7 DAYS.

12" CAP

12"X12"X12" TEE

CATCH BASIN TYPE 2 PER WSDOT STANDARD PLAN B-10.20-01

CRUSHED SURFACE TOP COURSE

INVERT ELEVATION (SEE PLANS)

NOTE:

1) SEE SPECIAL PROVISIONS FOR CONSTRUCTION DETAILS.
2) SEE PLANS FOR PERCOLATION TRENCH DIMENSIONS.

CROSS SECTION

NTS

CATCH BASIN TYPE 2 WITH INFILTRATION TRENCH

APPROVED BY:

County Engineer:

DATE:

STANDARD PLAN

D-2

SHEET 1 OF 1
• APPROACH PIPE SIZE AND MATERIAL AS SPECIFIED BY YAKIMA COUNTY. PIPE LENGTH AS REQUIRED BASED ON DEPTH OF DITCH AND APPROACH WIDTH. 3:1 TAPER ON PIPE ENDS.

PLAN VIEW

ELEVATION VIEW A-A

NON-COMMERCIAL DRIVEWAY APPROACH - RURAL (SHOULDERED):

DRIVEWAY APPROACH - CUT REQUIRED

YAKIMA COUNTY

APPROVED BY: [Signature]
County Engineer: [Signature] 10/31/11

STANDARD PLAN
DR-1

REVISION: DESCRIPTION: DATE:

FILE NAME: 1 OF 1
NOTE: APPROACH PIPE MAY BE REQUIRED BASED ON TOPOGRAPHY OF THE LAND. DECISION TO BE MADE BY YAKIMA COUNTY.

PLAN VIEW

MATCH EXISTING GROUND SURFACE

FILL SLOPE

SLOPE NOT TO EXCEED 5%

R=10' R=10.0 (TYP.)

EXISTING BOTTOM OF DITCH

FILL SLOPE

WIDTH AS SPECIFIED

EXISTING R/W

FILL SLOPE

EXISTING DITCH

FILL SLOPE

EXISTING ROADWAY

ELEVATION VIEW

NON-COMMERCIAL DRIVEWAY APPROACH - RURAL (SHOULDERED)

20' LANDING

EXISTING R/W

GRADE BREAK

5% SLOPE MAX., 3% SLOPE MAX

ROADWAY

FILL CATCH POINT

EXISTING BOTTOM OF DITCH

EXISTING ROADWAY

EXISTING GROUND

DRIVEWAY APPROACH - FILL REQUIRED

APPROVED BY:

County Engineer: [Signature] [Date]

REVISION: DESCRIPTION: DATE:

STANDARD PLAN

DR-2

YAKIMA COUNTY

SHEET 1 OF 1
NOTES:
1) CEMENT CONCRETE FOR CURBS AND GUTTERS SHALL MEET THE REQUIREMENTS FOR CLASS 4000 CONCRETE.
2) PREMOLDED JOINT FILLER SHALL MEET THE REQUIREMENTS OF SECTION 9-04.1 OF THE WSDOT STANDARD SPECIFICATIONS.
3) FULL DEPTH EXPANSION JOINTS WITH 3/8" ASPHALT EXPANSION JOINT FILLER SHALL BE PLACED AT 15'-0" INTERVALS, AND AT ALL POINTS OF TANGENCY. CONTRACTION JOINTS SHALL BE PLACED AT 5'-0" INTERVALS TYPICALLY. SEE DETAIL WSDOT STANDARD PLAN F-30.10-03.
4) CEMENT CONCRETE CURBS AND GUTTERS SHALL BE FINISHED AS SPECIFIC IN SECTION 8-04 OF THE STANDARD SPECIFICATIONS.
5) CEMENT CONCRETE CURBS AND GUTTERS SHALL BE CURED AS SPECIFIED IN SECTION 5-05.3(13) OF THE WSDOT STANDARD SPECIFICATIONS.
6) BACKFILL MATERIAL BEHIND CURBS SHALL EXTEND FROM TOP BACK OF CURB TO A POINT AS DIRECTED BY THE ENGINEER. THE TOP 4" OF BACKFILL, OR NATIVE MATERIAL, SHALL BE A FINE GRADED MATERIAL SUITABLE FOR LAWNS, AND SHALL BE COMPACTED.
NEW DRIVEWAY WIDTHS:

1) RESIDENTIAL DRIVEWAYS: 20.0' MINIMUM
2) DEPRESSED DRIVEWAYS MUST BE SEPARATED BY AT LEAST 20.0' OF FULL HEIGHT CURB (ANY DEVIATIONS MUST BE APPROVED BY THE COUNTY ENGINEER).
3) FOR MOUNTABLE CURBS, SIDEWALK 0.5' MINIMUM THICKNESS.
4) PREMOLDED JOINT FILLER SHALL MEET THE REQUIREMENT OF SECTION 9-04.1 OF THE STANDARD SPECIFICATIONS.
5) FOR CEMENT CONCRETE DRIVEWAY DETAIL, SEE WSDOT STANDARD PLAN F80-10.-03.
**SECTION A-A**
0.33' THICK SIDEWALK SECTION
NTS

**SECTION B-B**
0.5' THICK SIDEWALK SECTION AT DRIVEWAYS
NTS

**NOTES:**

1) FOR MOUNTABLE CURB AND GUTTER, CURB SIDEWALK SHALL BE A MINIMUM OF 0.5' THICK.
2) SEE WSDOT STANDARD PLAN F-30.10-03 FOR ADDITIONAL DETAILS.
NOTES:

1) THE BOTTOM OF THE RAMP SHALL HAVE A LEVEL AREA (NOT IN EXCESS OF 2% IN ANY DIRECTION, 4" X 4").
2) RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
3) AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
4) CURB AND GUTTER IS SHOWN. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED.
5) SEE WSDOT STANDARD PLAN F-45.10-01 FOR ADDITIONAL DETAILS.
3/8" EXPANSION JOINT SEE WSDOT STD PLAN F-30.10-03
MINIMUM 2" COMPACTED DEPTH CRUSHED SURFACING TOP COURSE

CONDUIT & OF SIDEWALK

WIDTH AS SPECIFIED

SLOPE = 2%

3/8" EXPANSION JOINT SEE WSDOT STD PLAN F-30.10-03

CURB AND GUTTER

SIDEWALK

COMPACTED EARTH

ROADWAY CRUSHED SURFACING BASE COURSE

TRENCH CONDUIT BEDDING AND BACKFILL SHALL BE CRUSHED SURFACING TOP COURSE

6" MIN. (TYP.)

VARIES

TYPE AND SIZE OF CONDUITS AS SHOWN ON THE PLANS OR CALLED FOR IN THE SPECIFICATIONS

SEE TYPICAL ROADWAY SECTION FOR DIMENSIONS

TYPICAL SECTION

NTS

ILLUMINATION CONDUIT UNDER SIDEWALK TRENCH SECTION
NOTES:

1) CURB RAMP DIMENSIONS ARE AT BACK OF SIDEWALK.
2) DETECTABLE WARNING PATTERN AREA SHALL MEET THE REQUIREMENTS SET FORTH ON WSDOT STANDARD PLAN F-45.10-00.
3) SIDEWALK SEE WSDOT STANDARD PLAN F-30.10-03 FOR ADDITIONAL DETAILS.
COMPONENT SCHEDULE YAKIMA COUNTY MODIFIED, MODIFIED TYPE "B" SERVICE

1. METERBASE: 100 AMP, 4 JAW, AW #1/4TB SAFETY SOCKET (CONTRACTOR TO VERIFY WITH SERVING UTILITY)
2. PANELBOARD: 120/240 VAC, 125 AMP, 1 PHASE, 3 WIRE, COPPER BUS, 12 Ckt, BOLT ON BREAKERS.
   MAIN BREAKER, 100 AMP, 2 POLE
   3-20/2 ILLUMINATION BRANCH
   1-50/1 SIGNAL BRANCH
   1-15/1 CONTROL CIRCUIT BRANCH
   1-20/1 GROUND FAULT RECEPTACLE BRANCH
3. CONTACTOR: 30A 4 POLE, 120 VAC COIL, 1 REQUIRED
4. PHOTO ELECTRIC CELL: 120 VAC, TWIST LOCK, TYCO ELECTRONICS CORP. WITH 6" X 6" WIRE MESH GUARD.
5. PHOTO CELL BYPASS SWITCH, SPST, 15 AMP, 277 VAC.
6. GROUND FAULT RECEPTACLE: 20 AMP, 120 VAC, DUPLEX.

CABINET: NEMA 3R, #12 GA. STEEL CONSTRUCTION, 2 SCREENED AND GASKETED VENTS
DOORS: HEAVY DUTY "LIFT-OFF" TYPE HINGES, "BEST" LOCK, CLOSED CELL NEOPRENE GASKET, CARD HOLDER.
FINISH: HOT DIP GALVANIZED AFTER FABRICATION

UL LISTED PER STANDARD #508
"SUITABLE FOR USE AS SERVICE ENTRANCE"

NOTE: SEE WSDOT STANDARPLAN NO. J-3b FOR FURTHER DETAILS

MODIFIED CLASS "B" SERVICE
NOTES:

1) THIS CONDUIT TRENCH SECTION MAY ALSO BE USED FOR CONDUIT RUN UNDER SIDEWALK AREAS FOR TRAFFIC SIGNAL SYSTEMS.
NOTES:

1) THE ASPHALT CONCRETE PAVEMENT SHALL BE CUT AND REMOVED TO A NEAT CIRCLE, THE DIAMETER OF WHICH SHALL BE EQUAL TO THE OUTSIDE DIAMETER OF THE FRAME PLUS 2 FEET. THE FRAME SHALL BE PLACED ON ADJUSTMENT RINGS AND SET TO THE DESIRED GRADE. THE BASE MATERIALS SHALL BE REMOVED AND CLASS 3000 CONCRETE SHALL BE PLACED WITHIN THE ENTIRE VOLUME OF THE EXCAVATION UP TO 0.15' BELOW THE FINISHED PAVEMENT SURFACE.


3) THE COMPLETE PATCH SHALL MATCH THE EXISTING PAVED SURFACE FOR UNIFORMITY OF GRADE. THE JOINT BETWEEN THE PATCH AND THE EXISTING PAVEMENT SHALL THEN BE PAINTED WITH HOT ASPHALT CEMENT OR ASPHALT EMULSION AND SHALL BE IMMEDIATELY COVERED WITH DRY PAVING SAND BEFORE THE ASPHALT CONCRETE SOLIDIFIES.
NOTES:

1) CONNECT TRACER WIRE TO MAINLINE TRACER WIRE WITH WATER TIGHT CONNECTOR AND TO BLOW OFF WITH NYLON ZIP-TIES. TAPE TO PE PIPE AT 6' INTERVALS.
NOTES:

1) MECHANICAL COMPACTION SHALL BE USED FOR ALL TRENCHES IN THE ROADWAY PRISM. WATER SETTLING MAY BE USED OUTSIDE THE ROADWAY PRISM.
2) ACTUAL SLOPE OF TRENCH SIDES TO BE DETERMINED BY THE CONTRACTOR TO FIT THE METHOD OF CONSTRUCTION AND ALL SAFETY REQUIREMENTS.
NOTES:

1) MECHANICAL COMPACTION SHALL BE USED FOR ALL TRENCHES IN THE ROADWAY PRISM. WATER SETTLING MAY BE USED OUTSIDE THE ROADWAY PRISM.
2) ACTUAL SLOPE OF TRENCH SIDES TO BE DETERMINED BY THE CONTRACTOR TO FIT THE METHOD OF CONSTRUCTION AND ALL SAFETY REQUIREMENTS.
NOTES:

1) ALL MECHANICAL JOINTS SHALL BE RESTRAINED AS SPECIFIED IN SECTION 9-30.2(6) OF THE STANDARD SPECIFICATIONS.
2) MINIMUM TRENCH DEPTH IS 4'-10". MINIMUM DEPTH MAY INCREASE WHEN HYDRANTS ARE INSTALLED ON DISTRIBUTION MAINS LARGER THAN 6" IN DIAMETER, OR WHEN THE DISTRIBUTION MAIN HAS MORE THAN 4' OF COVER.
3) GRADLOK OR EQUIVALENTS SHALL BE USED WHEN NECESSARY TO MAINTAIN 2" BETWEEN THE SIDEWALK FLANGE AND THE FINISHED GRADE. GRADLOK PART# 6"X12"MXPE OR EQUIVALENT.
4) STORZ COUPLING SHALL BE 5" STORZ X 4.5" N.S.T., 1/4 TURN OR EQUIVALENT.
5) ATTACH TRACER WIRE TO BOLT AT BREAK AWAY FLANGE WITH ADDITIONAL NUT AND TO MAINLINE TRACER WIRE WITH WATER TIGHT CONNECTOR.

NOTES:

1) PROVIDE EXTENSION PIECE WHERE REQUIRED FOR VALVE BOX. (RICH MODEL 044, OR EQUIVALENT)
2) VALVE SIZE AND ENDS AS SPECIFIED OR INDICATED ON PLANS.
3) VALVES WITH OPERATING NUT MORE THAN 4 FEET BELOW GRADE SHALL HAVE VALVE STEM EXTENSION TO RAISE OPERATING NUT TO WITHIN 36 INCHES OF GROUND SURFACE.
4) TRACER WIRE TO BE WRAPPED AROUND VALVE BELOW FLANGE.

WATER VALVE BOX
UNDISTURBED EARTH  

COMMERCIAL CONCRETE Poured in place  

PLANT VIEW  
TEES  
NTS

COMMERCIAL CONCRETE Poured in Place  

SIDE VIEW  
VIEW TYPICAL OF ALL BLOCKING  
NTS

PIPE SIZES (D) | TEES & PLUGS | 90° BENDS | 45° BENDS | 22 1/2° BENDS  
--- | --- | --- | --- | ---  
6" | 5.1 SQ.FT. | 6.7 SQ.FT. | 3.9 SQ.FT. | 2.0 SQ.FT.  
8" | 8.6 SQ.FT. | 11.8 SQ.FT. | 6.7 SQ.FT. | 3.4 SQ.FT.  
10" | 14.3 SQ.FT. | 18.5 SQ.FT. | 11.0 SQ.FT. | 5.6 SQ.FT.  
12" | 20.4 SQ.FT. | 26.7 SQ.FT. | 15.7 SQ.FT. | 7.9 SQ.FT.  
14" | 27.7 SQ.FT. | 36.3 SQ.FT. | 21.2 SQ.FT. | 10.7 SQ.FT.  
16" | 35.0 SQ.FT. | 47.4 SQ.FT. | 27.5 SQ.FT. | 13.9 SQ.FT.

NOTES:

1) D IS NOMINAL PIPE DIAMETER.
2) THE ABOVE END AREAS ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 P.S.F. THE ENGINEER SHALL DETERMINE THE REQUIRED END AREAS.
3) ALL FITTINGS AND/OR PIPE MAKING CONTACT WITH CONCRETE SHALL BE WRAPPED WITH 4 MIL POLYETHYLENE SHEETING PRIOR TO PLACEMENT OF CONCRETE.
4) BEARING SURFACE OF THRUST BLOCK SHALL BE NORMAL TO RESULTANT THRUST OF BEND.

TYPICAL CONCRETE BLOCKING

STANDARD PLAN
W-7

SHEET 1 OF 1
CROSS SECTION

NOTES:

1) CONNECT TRACER WIRE TO MAINLINE TRACER WIRE WITH WATER TIGHT CONNECTOR. TAPE TO PE PIPE AT 6' INTERVALS.
FINISHED GRADE OR SUBGRADE

COMPACTED BACKFILL CONSISTING OF SUITABLE EXCAVATED MATERIAL OR BANK RUN GRAVEL FOR TRENCH BACKFILL

6'' WIDE DETECTABLE MARKING TAPE

SPECIAL PRECAUTIONS TO PROTECT PIPE TO THIS LEVEL

SEWER PIPE

PIPE BEDDING MATERIAL

FOUNDATION GRAVEL WHERE AGREED TO BY THE ENGINEER

NOTE:
ACTUAL SLOPE OF TRENCH SIDES TO BE DETERMINED BY CONTRACTOR TO FIT THE METHOD OF CONSTRUCTION AND ALL SAFETY REQUIREMENTS.

TYPICAL TRENCH SECTION DETAIL

TERRACE HEIGHTS SEWER DISTRICT
CONSTRUCTION STANDARDS
DETAIL 1
TYPICAL TRENCH SECTION DETAIL

Gray & Osborne, Inc.
CONSULTING ENGINEERS
NOTES:

1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS:
PVC PIPE: CAST OR GROUT A MANHOLE COUPLING INTO WALL. D.I. PIPE: BELL AND SPIGOT JOINT OR FLEXIBLE
COUPLINGS EITHER SHALL BE 12" MAXIMUM DISTANCE FROM MANHOLE WALL. PVC AND D.I. PIPE, OPTIONAL: CORE THE
MANHOLE AND CONNECT SEWER PIPE WITH A WATER TIGHT FLEXIBLE RUBBER BOOT IN MANHOLE WALL, KOR-N-SEAL
BOOT OR EQUAL.

2. DROP OF GRADE THRU MANHOLE SHALL BE 0.10',
UNLESS OTHERWISE NOTED.

3. MANHOLES SHALL BE SET PLUMB.

4. FOR CONNECTION OF EXISTING SEWER PIPE TO NEW
MANHOLE, PROVIDE 3 LF OF PVC SEWER PIPE AND ROMAC
501 COUPLING, OR EQUAL.
"SEWER" CAST ON COVER WITH 3" HIGH RAISED LETTERS (NON-SKID PATTERN) AS MANUFACTURED BY "SATHER MANUFACTURING CO., INC." NO. 6024-R.

PLAN

SECTION A-A

MACHINE SEAT MIN WEIGHT 150 LBS

8 WEBS, 1/2" THICK MIN WEIGHT 210 LBS

STANDARD MANHOLE FRAME & COVER

TERRACE HEIGHTS SEWER DISTRICT
CONSTRUCTION STANDARDS
DETAIL 9
STANDARD MANHOLE FRAME AND COVER
SIDE SEWER CONNECTION DETAIL

TERRACE HEIGHTS SEWER DISTRICT
CONSTRUCTION STANDARDS
DETAIL 11
SIDE SEWER CONNECTION DETAIL
NOTES

1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.

2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.

3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'

4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.

5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

6. The opening shall be measured at the top of the Precast Base Section.

7. All pickup holes shall be grouted full after the basin has been placed.
NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down.
   The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide
   a 1.5" minimum gap between the knockout wall and the outside of the pipe. After
   the pipe is installed, fill the gap with joint mortar in accordance with Standard
   Specification 9-04.3.

---

**CATCH BASIN DIMENSIONS**

<table>
<thead>
<tr>
<th>CATCH BASIN DIAMETER</th>
<th>MIN. WALL THICKNESS</th>
<th>MIN. BASE THICKNESS</th>
<th>MAXIMUM KNOCKOUT SIZE</th>
<th>MINIMUM DISTANCE BETWEEN KNOCKOUTS</th>
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<tbody>
<tr>
<td>48&quot;</td>
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**PIPE ALLOWANCES**

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<tr>
<th>CATCH BASIN DIAMETER</th>
<th>PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER</th>
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<tr>
<td></td>
<td>CONCRETE</td>
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<td>72&quot;</td>
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<tr>
<td>144&quot;</td>
<td>78&quot;</td>
</tr>
</tbody>
</table>

1. Corrugated Polystyrene Storm Sewer Pipe (Standard Specification 9-05.20)
2. (Standard Specification 9-05.12(1))
3. (Standard Specification 9-05.12(2))
NOTES
1. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum.
2. For pipe allowances, see Standard Plan B-10.20.

<table>
<thead>
<tr>
<th>DIAM.</th>
<th>MIN. WALL THICKNESS</th>
<th>MIN. BASE THICKNESS</th>
<th>MAXIMUM KNOCKOUT SIZE</th>
<th>MINIMUM DISTANCE BETWEEN KNOCKOUTS</th>
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<tr>
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<td>5&quot;</td>
<td>8&quot;</td>
<td>48&quot;</td>
<td>8&quot;</td>
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</table>

MANHOLE TYPE 1
STANDARD PLAN B-15.20-01

APPROVED FOR PUBLICATION
Pasco Bakotich III 02-07-12
State Design Engineer
Washington State Department of Transportation
NOTES

1. This frame is designed to accommodate 20" x 24" grates or covers as shown on Standard Plans B-30.20, B-30.30, B-30.40, and B-30.50.

2. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover size. The frame shall accept the 5/16" - 11 NC x 2" Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

3. Refer to Standard Specification 8-05.15(g) for additional requirements.
NOTES

1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8” – 11 NC x 2” Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

2. For frame details, see Standard Plan B-30.10.

3. Refer to Standard Specification 9-05.15(2) for additional requirements.
NOTES
1. The gasket and groove may be in the seat (frame) or in the underside of the cover. The gasket may be "T" shaped in section. The groove may be cast or machined.

2. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 3 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8" - 1 NC x 2" Allen head cap screw by being tapped, or other approved mechanism. Location of bolt down holes varies by manufacturer.

3. For bolt-down manhole ring and covers that are not designated "Waterlight," the neoprene gasket, groove, and washer are not required.

4. Washer shall be neoprene (Detail "B").

5. In lieu of blind pick notch for manhole covers, a single 1" pick hole is acceptable. Hole location and number of holes may vary by manufacturer.

6. Alternative reinforcing designs are acceptable in lieu of the rib design.

7. For clarity, the vertical scale of the Cover Section has been exaggerated, it is 1.5 times the horizontal scale (1H:1.5V).

CIRCULAR FRAME (RING) AND COVER
STANDARD PLAN B-30.70-03

APPROVED FOR PUBLICATION
Pasco Bakotich III 04/26/12
Washington State Department of Transportation
NOTE
Ladder rungs for manholes and catch basins shall meet the requirements of AASHTO M 159.

TYPICAL ORIENTATION FOR ACCESS AND STEPS

84" or 96" FLAT SLAB TOP

20" x 24"
24" DIA., 40" DIA.
OR 54" DIA. HOLE

2" (TYP.)

1" MIN.
2 1/2" MAX.

STEP

12" MIN.

12" (TYP.)

PREFABRICATED LADDER

12"

RECTANGULAR ADJUSTMENT SECTION

As an acceptable alternative to rebar, wire mesh having a minimum area of 0.12 square inches per foot may be used for adjustment sections.

ECCENTRIC CONE SECTION

CIRCULAR ADJUSTMENT SECTION

48", 54", or 60" FLAT SLAB TOP

84" or 96" FLAT SLAB TOP

20" x 24"
24" DIA., 40" DIA.
OR 54" DIA. HOLE

2" (TYP.)

1" MIN.
2 1/2" MAX.

ONE #3 BAR HOOP FOR 8"
TWO #3 BAR HOOPS FOR 12"

5" OR 12"
NOTES
1. See Standard Specifications Section 7-05.3 for Pipe Zone Backfill.
2. See Standard Specifications Section 9-03.12 for Gravel Backfill for Pipe Zone Bedding.
4. For sanitary sewer installation, concrete pipe shall be bedded to spring line.
### COUPLING BAND DIMENSION TABLE

<table>
<thead>
<tr>
<th>BAND TYPE</th>
<th>CORRUGATION PITCH x DEPTH</th>
<th>PIPE DIA.</th>
<th>MIN. W</th>
<th>GASKET TYPE</th>
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<td>D</td>
<td>2 3/4 x 1/2 OR 3 x 1</td>
<td></td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>REFORMED TO 2 2/3 x 1/2</td>
<td></td>
<td>12</td>
<td>12</td>
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<tr>
<td></td>
<td>REFORMED TO 2 2/3 x 1/2</td>
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<td>12</td>
<td>12</td>
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<tr>
<td>F</td>
<td>2 2/3 x 1/2 OR 3 x 1</td>
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<td>10 1/2</td>
<td>10 1/2</td>
</tr>
<tr>
<td></td>
<td>REFORMED TO 2 2/3 x 1/2</td>
<td></td>
<td>10 1/2</td>
<td>10 1/2</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>K</td>
<td>2 2/3 x 1/2</td>
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<td></td>
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<tr>
<td>D</td>
<td>2 3/4 x 1/2</td>
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<tr>
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<td></td>
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<tr>
<td>K</td>
<td>2 2/3 x 1/2</td>
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<tr>
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<td></td>
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</table>

*PIPE ARCH ONLY*
FOR SANITARY SEWER USE

8 INCH SEWER CLEAN-OUT

STANDARD PLAN B-85.40-00

SECTION A
CAST IRON RING AND COVER
NOTES

1. Contractor to provide blocking adequate to withstand full test pressure.
2. Divide thrust by safe bearing load to determine required area (in square feet) of concrete to distribute load.
3. Areas to be adjusted for other pressure conditions.
4. Provide two 1" minimum diameter rods on valves up through 10" diameter. Valves larger than 10" require special tee rod design.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>TEST PRESSURE (PSI)</th>
<th>THRUST AT FITTINGS IN POUNDS</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
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<tr>
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<table>
<thead>
<tr>
<th>SOIL TYPE</th>
<th>SAFE BEARING LOAD (PSI)</th>
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<tbody>
<tr>
<td>MUCK, PEAT, ETC</td>
<td>0</td>
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<tr>
<td>SOFT CLAY</td>
<td>1,000</td>
</tr>
<tr>
<td>SAND</td>
<td>3,000</td>
</tr>
<tr>
<td>SAND AND GRAVEL</td>
<td>3,000</td>
</tr>
<tr>
<td>SAND AND GRAVEL, CEMENTED WITH CLAY</td>
<td>4,000</td>
</tr>
<tr>
<td>HARD SHALE</td>
<td>10,000</td>
</tr>
</tbody>
</table>

CONCRETE THRUST BLOCK

STANDARD PLAN B-90.40-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Harold J. Petersen 06-08-06

Washington State Department of Transportation
NOTES

1. The intent of this design is to facilitate the compaction of Hot Mix Asphalt pavement adjacent to a drainage structure.

2. The centerline of the drainage structure may differ from the centerline of the frame and grate.
WITH RAISED EDGE

1. Four feet of the sidewalk width shall be the minimum pedestrian accessible route free of vertical and horizontal obstructions. Gratings, Access Covers, Junction Boxes, Cable Vault, Pull Boxes and other obstructions within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.
NOTES

1. Provide a separate Curb Ramp for each marked or unmarked crosswalk. Curb Ramp location shall be placed within the width of the associated crosswalk, or as shown in the Contract Plans.

2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.

3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances in front of the Curb Ramp or on any part of the Curb Ramp or Landing.


6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curbs, or Sidewalks.

7. 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 slope grades. When applying the 15-foot max. length, the running slope of the curb ramp shall be as flat as feasible.


9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

PARALLEL CURB RAMP

STANDARD PLAN F-40.12-02

SLOPE IN EITHER DIRECTION

LEGEND

"Cement Concrete Curb Ramp Type Parallel A Pay Limit - See Note 6"

"Cement Concrete Curb Ramp Type Parallel B Pay Limit - See Note 8"

ISOMETRIC VIEW

TYPE PARALLEL A PAY LIMIT

ISOMETRIC VIEW

TYPE PARALLEL B PAY LIMIT

DRAWN BY: J. K. EDGELL

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

PASCO BAKOTICH III

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

6/26/13
NOTES
1. The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp (exclusive of flares) or the landing.
2. The Detectable Warning Surface shall be placed at the back of curb, and need not follow the radius.
3. The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
4. The rows of truncated domes shall be aligned to be parallel to the direction of travel.
5. 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.
7. 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.
8. 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.

DETECTABLE WARNING SURFACE

STANDARD PLAN F-45.10-01

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

Pasco Bakotich III 06/21/12

APPROVED FOR PUBLICATION
1. When the driveway width exceeds 15' (ft), construct a full depth expansion joint with 3/8" (in) joint filler along the driveway centerline. See Standard Plan F-30.10. Construct expansion joints parallel with the centerline as required at 15' (ft) maximum spacing when driveway widths exceed 30' (ft).


3. Curb and gutter shown; see the Contract Plans for the curb design specified. See Standard Plan F-16.12 for curb details.

4. Avoid placing drainage structures, junction boxes, or other obstructions in front of driveway entrances.

5. Where "GRADE BREAK" is called out, the entire length of the line between the two adjacent surface planes shall be flush.

6. The curb ramp maximum running slope shall not require the ramp length to exceed 15' (ft) to avoid charring the slope indefinitely when connecting to steep grades. When applying the 15' (ft) max. length, the running slope of the curb ramp shall be as flat as feasible.

7. Beyond limits shown, Pay Item does not Include driveway. See Contract Plans.
NOTES

1. Notch is only required with multiple post installations.

2. 6x10, 8x10, and 6x12 Timber Sign Posts cannot be made breakaway and do not have holes or notches. These posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barriers.


4. For 6x6 posts and larger, 7" (8") minimum spacing is required between posts.

5. All materials shall meet the requirements of Standard Specification S-28.

POST INSTALLATION TABLE

<table>
<thead>
<tr>
<th>POST SIZE (NOM)</th>
<th>DEPTH</th>
<th>HOLE DIAMETER</th>
<th>NOTCH DEPTH</th>
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<tbody>
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<td>3&quot;</td>
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<td>NOT REQD</td>
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<tr>
<td>6x8</td>
<td>4&quot;</td>
<td>3&quot;</td>
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MINIMUM POST HOLE DIAMETER IS THE WIDEST POST DIAMETER PLUS 6" (8")
WOOD POST FASTENERS

<table>
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<tr>
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<th>QUANTITY</th>
<th>WASHERS</th>
<th>LOCKNUTS</th>
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<tr>
<td>3/16&quot; Diam. + 1&quot; Screw</td>
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STEEL POST FASTENERS

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<tr>
<td>3/8&quot; M Screw</td>
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NOTES

1. A socket and wedge anchoring system that meets the NCHRP 350 crash test criteria may be substituted in lieu of the anti-twist plate designs shown. Anti-twist plates are not required for wood post installations.

2. The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.

3. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.

4. Attach a newspaper box to a steel post with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Use 2 1/2" x 1/4" lag bolts to attach newspaper boxes to wood posts. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.

5. A Type 2 Support (Standard Plan H-70.30) is required when 2 or more mailboxes are to be installed on one support.

MAILBOX SUPPORT TYPE 1
STANDARD PLAN H-70.10-01
Sheet 1 of 2 sheets
APPROVED FOR PUBLICATION
Pasco Bakotic III 02-07-12

Washington State Department of Transportation
NOTES
1. Install the ends of the silt fence to point slightly upstream to prevent sediment from flowing around the ends of the fence.
2. Perform maintenance in accordance with Standard Specifications 8-01.3(b) and 8-01.2(15).
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.

**TYPICAL INSTALLATION DETAIL**
(Steel Posts Shown)

**TYPICAL SILT FENCE WITHOUT BACKUP SUPPORT**
(ISOMETRIC
(Steel Posts Shown)

Spliced fence sections shall be close enough together to prevent silt laden water from escaping through the fence at the overlap.

**SPOUSE DETAIL**
(Wood Posts Shown)
NOTE
Perform maintenance in accordance with Standard Specification 8-01.3(5A) and 8-01.3(10).

SILT FENCE DESIGN

PLACE SAND BAGS AS REQUIRED AROUND CULVERT TO PROVIDE SUPPORT FOR SILT FENCE

SILT FENCE - SEE STD. PLAN I-30.10

CULVERT BOX CULVERT, OR PIPE ARCH
- END TREATMENT VARIES

GEOTEXTILE FOR TEMPORARY SILT FENCE
- SEE STD. SPEC. 8-33.2(1), TABLE 8

POST - SEE STD. SPEC. 8-01.3(5A)
EMBED POSTS INTO SAND BAGS AS REQUIRED

FLOW
EDGE OF GEOTEXTILE

SECTION A

COMPOST BERM DESIGN

COMPOST BERM - SEE STD. PLAN I-30.10

CULVERT BOX CULVERT, OR PIPE ARCH
- END TREATMENT VARIES

DISTURBED AREA

PROTECTED AREA

DISTURBED AREA

PROTECTED AREA

EROSION CONTROL AT CULVERT ENDS
STANDARD PLAN I-30.20-00
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
SCOTT DESIGN ENGINEER
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 9-01.3(15).
EMBANKMENTS

CASE E
SLOPES 2H:1V OR FLATTER
BEHIND TRAFFIC BARRIER

CASE F
SLOPES STEEPER THAN 2H:1V
BEHIND TRAFFIC BARRIER
(SPECIAL DESIGN FOUNDATION)

CASE G
ROADSIDE DITCH WITH
FORE SLOPE STEEPER THAN 4H:1V (2H:1V MAX.)

CASE H
CUT SECTION WITH
BACK SLOPE STEEPER THAN 3H:1V (2H:1V MAX.)

NOTES

STEEL LIGHT STANDARD
PLACEMENT (FIXED BASE)

STANDARD PLAN J-28.24-00

Pasco Bakotich III 08-07-07
Washington State Department of Transportation
CASE I
POSTED SPEED LIMIT LESS THAN 35 MPH

CASE J
POSTED SPEED LIMIT LESS THAN 35 MPH

CASE K
ROADWAYS WITH 10:1:1V OR FLATTER SIDE SLOPES

CASE L
PARKING LOTS

NOTES
NOTES
1. All concrete post bases shall be 10" minimum diameter.
2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.

METHOD OF FASTENING STRETCHER BAR TO POST

POST AND RAIL SPECIFICATIONS

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<tr>
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<th>ROLL FORMED</th>
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CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-02
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Pasco Bakotich III 06/21/12
Washington State Department of Transportation
APPENDIX B
PREVAILING WAGE RATES
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.

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<td>Rigger/signal Person</td>
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<td>Rip Rap Person</td>
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<td>Rivet Buster</td>
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<td>Yakima Laborers</td>
<td>Tamper &amp; Similar Electric, Air &amp; Gas Operated Tools</td>
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<td>Tamper (multiple &amp; Self-propelled)</td>
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<td>Timber Person - Sewer (lagger, Shorer &amp; Cribber)</td>
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<td>Window Washer/cleaner</td>
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<td>Yakima Laborers - Underground Sewer &amp; Water</td>
<td>General Laborer &amp; Topman</td>
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<td>Yakima Laborers - Underground Sewer &amp; Water</td>
<td>Pipe Layer</td>
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<td>Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)</td>
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<td>Loaders, Overhead Under 6 Yards</td>
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<td>Motor Patrol Graders, Finishing</td>
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<td>Power Equipment Operators</td>
<td>Overhead, Bridge Type Crane: 20 Tons Through 44 Tons</td>
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<td>7A</td>
<td>3C</td>
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<td>Power Equipment Operators</td>
<td>Overhead, Bridge Type: 100 Tons And Over</td>
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<td>3C</td>
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<td>Power Equipment Operators</td>
<td>Overhead, Bridge Type: 45 Tons Through 99 Tons</td>
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<td>Power Equipment Operators</td>
<td>Pile Driver (other Than Crane Mount)</td>
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<td>7A</td>
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<td>Plant Oiler - Asphalt, Crusher</td>
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<td>Posthole Digger, Mechanical</td>
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<td>Quick Tower - No Cab, Under 100 Feet In Height Based To Boom</td>
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<td>Scrapers, Self-propelled: 45 Yards And Over</td>
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<td>Power Equipment Operators</td>
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<td>Power Equipment Operators</td>
<td>Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons</td>
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<td>Power Equipment Operators</td>
<td>Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons</td>
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<td>Power Equipment Operators</td>
<td>Shovel, Excavator, Backhoes: Over 90 Metric Tons</td>
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<td>Spreader, Topsider &amp; Screedman</td>
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<td>Tower Crane Over 175'in Height, Base To Boom</td>
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<td>Tower Crane Up To 175' In Height Base To Boom</td>
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<td>Concrete Pump: Truck Mount With Boom Attachment Over 42 M</td>
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<td>Concrete Finish Machine - laser Screed</td>
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<td>Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.</td>
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<td>Concrete Pump: Truck Mount With Boom Attachment Up To 42m</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
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<td>Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)</td>
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<td>Cranes: A-frame - 10 Tons And Under</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes: Friction 100 Tons Through 199 Tons</td>
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<td>Cranes: Over 300 Tons Or 300' Of Boom (including Jib With Attachments)</td>
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<td>Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons</td>
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<td>Deck Engineer/deck Winches (power)</td>
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<td>Drill Oilers: Auger Type, Truck Or Crane Mount</td>
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<td>Elevator And Man-lift: Permanent And Shaft Type</td>
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<td>Forklift: 3000 Lbs And Over With Attachments</td>
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<td>Forklifts: Under 3000 Lbs. With Attachments</td>
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<td>Grade Engineer: Using Blue Prints, Cut Sheets, Etc</td>
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<td>Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield</td>
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<td>Oil Distributors, Blower Distribution &amp; Mulch Seeding Operator</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons</td>
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<td>Street And Parking Lot Sweeper Workers</td>
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<td>Telephone Line Construction - Outside</td>
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<td>Telephone Line Construction - Outside</td>
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<td>Job Description</td>
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<td>Installer (Repairer)</td>
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<td>Yakima Telephone Line Construction - Outside</td>
<td>Special Apparatus Installer II</td>
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<td>Yakima Telephone Line Construction - Outside</td>
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<td>Yakima Telephone Line Construction - Outside</td>
<td>Telephone Equipment Operator (Light)</td>
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<td>5A</td>
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<td>Yakima Telephone Line Construction - Outside</td>
<td>Telephone Lineperson</td>
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<td>5A</td>
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<tr>
<td>Yakima Telephone Line Construction - Outside</td>
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<td>Yakima Telephone Line Construction - Outside</td>
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<td>Yakima Telephone Line Construction - Outside</td>
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<td>Yakima Terrazzo Workers</td>
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<td>Yakima Tile Setters</td>
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<td>Yakima Tile, Marble &amp; Terrazzo Finishers</td>
<td>Journey Level</td>
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<td>Yakima Traffic Control Stripers</td>
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<td>Yakima Truck Drivers</td>
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<td>Yakima Truck Drivers</td>
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<td>Yakima Truck Drivers</td>
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<td>Yakima Well Drillers &amp; Irrigation Pump Installers</td>
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<td>Yakima Well Drillers &amp; Irrigation Pump Installers</td>
<td>Oiler</td>
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<td>Yakima Well Drillers &amp; Irrigation Pump Installers</td>
<td>Well Driller</td>
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Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. **ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.**

   B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

   G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.

   J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.

   K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

   M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
Benefit Code Key – Effective 8-31-2014 thru 3-3-2015

1. 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.

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.
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.
Benefit Code Key – Effective 8-31-2014 thru 3-3-2015

3. 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.

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 8-31-2014 thru 3-3-2015

Holiday Codes


Holiday Codes Continued
Benefit Code Key – Effective 8-31-2014 thru 3-3-2015


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.

Holiday Codes Continued


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.
7. **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.


**H.** Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**I.** Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**J.** Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**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.


**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.
Benefit Code Key – Effective 8-31-2014 thru 3-3-2015

7. S. Paid Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

T. Paid Holidays: New Year’s Day, The Day After Or Before New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, and The Day After Or Before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Note Codes

8. A. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:
   Over 50' To 100' - $2.00 per Foot for Each Foot Over 50 Feet
   Over 100' To 150' - $3.00 per Foot for Each Foot Over 100 Feet
   Over 150' To 220' - $4.00 per Foot for Each Foot Over 150 Feet
   Over 220' - $5.00 per Foot for Each Foot Over 220 Feet

C. In addition to the hourly wage and fringe benefits, the following depth premiums apply to depths of fifty feet or more:
   Over 50' To 100' - $1.00 per Foot for Each Foot Over 50 Feet
   Over 100' To 150' - $1.50 per Foot for Each Foot Over 100 Feet
   Over 150' To 200' - $2.00 per Foot for Each Foot Over 150 Feet
   Over 200' - Divers May Name Their Own Price

D. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. Workers on hazmat projects receive additional hourly premiums as follows - Level A: $0.75, Level B: $0.50, And Level C: $0.25.

M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.

N. Workers on hazmat projects receive additional hourly premiums as follows - Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

P. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, And Class D Suit $0.50.

Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
8. 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.
Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.

2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.

3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.

4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.

5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.

6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.
Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ITEM DESCRIPTION</td>
<td>YES</td>
<td>NO</td>
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<td>--------------------------------------------------------------------------------</td>
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<tr>
<td>8. Anchor Bolts &amp; Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>11. Minor Structural Steel Fabrication - Fabrication of minor steel items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.</td>
<td></td>
<td>X</td>
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<tr>
<td>ITEM DESCRIPTION</td>
<td>YES</td>
<td>NO</td>
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<td>----------------------------------------------------------------------------------</td>
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<tr>
<td>17. Precast Concrete Inlet - with adjustment sections, See Std. Plans</td>
<td></td>
<td>X</td>
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<tr>
<td>18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>22. Vault Risers - For use with Valve Vaults and Utilities Vaults.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>23. Valve Vault - For use with underground utilities. See Contract Plans for details.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Item Description</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>----------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>33. Monument Case and Cover</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Supplemental to Wage Rates
08/31/2014 Edition, Published August 1st, 2014
<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>34. Cantilever Sign Structure - Cantilever Sign Structure</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plans for details. The steel structure</td>
<td></td>
<td></td>
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<tr>
<td>shall be galvanized after fabrication in accordance with AASHTO-M-111.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>35. Mono-tube Sign Structures - Mono-tube Sign Bridge</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>fabricated to details shown in the Plans. Shop drawings for approval are</td>
<td></td>
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<tr>
<td>required prior to fabrication.</td>
<td></td>
<td></td>
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<tr>
<td>36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for</td>
<td></td>
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<tr>
<td>details. The steel structure</td>
<td></td>
<td></td>
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<tr>
<td>shall be galvanized after fabrication in accordance with AASHTO-M-111.</td>
<td>X</td>
<td></td>
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<tr>
<td>37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Shop drawings for approval are to be provided prior to fabrication</td>
<td></td>
<td></td>
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<tr>
<td>38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>39. Light Standards - Lighting Standards for use on highway illumination systems,</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>poles to be fabricated to conform with methods and materials as specified on Std</td>
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<tr>
<td>Plans. See Special Provisions for pre-approved drawings.</td>
<td></td>
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<tr>
<td>40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or</td>
<td>X</td>
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<tr>
<td>street signal systems. Standards to be fabricated to conform with methods and</td>
<td></td>
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<tr>
<td>material as specified on Std. Plans. See Special Provisions for pre-approved</td>
<td></td>
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<tr>
<td>drawings.</td>
<td></td>
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<tr>
<td>41. Precast Concrete Sloped Mountable Curb (Single and DualFaced)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>See Std. Plans.</td>
<td></td>
<td></td>
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<tr>
<td>ITEM DESCRIPTION</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged &quot;Fabrication Approved&quot; by WSDOT Sign Fabrication Inspector to be installed</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>43. Cutting &amp; bending reinforcing steel</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>44. Guardrail components</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>45. Aggregates/Concrete mixes</td>
<td>Covered by WAC 296-127-018</td>
<td></td>
</tr>
<tr>
<td>46. Asphalt</td>
<td>Covered by WAC 296-127-018</td>
<td></td>
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<tr>
<td>47. Fiber fabrics</td>
<td>X</td>
<td></td>
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<tr>
<td>48. Electrical wiring/components</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>49. treated or untreated timber pile</td>
<td>X</td>
<td></td>
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<tr>
<td>50. Girder pads (elastomeric bearing)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>51. Standard Dimension lumber</td>
<td>X</td>
<td></td>
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<tr>
<td>52. Irrigation components</td>
<td>X</td>
<td></td>
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<tr>
<td>ITEM DESCRIPTION</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>--------------------------------------</td>
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<tr>
<td>53. Fencing materials</td>
<td></td>
<td>X</td>
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<tr>
<td>54. Guide Posts</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>55. Traffic Buttons</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>56. Epoxy</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>57. Cribbing</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>58. Water distribution materials</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>59. Steel &quot;H&quot; piles</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>60. Steel pipe for concrete pile casings</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>61. Steel pile tips, standard</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>62. Steel pile tips, custom</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW 39.12.010
(The definition of "locality" in RCW 39.12.010(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.)
WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries. The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects. When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Supplemental to Wage Rates
08/31/2014 Edition, Published August 1st, 2014
Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.
(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]
IMPROVEMENT PLANS
### INSPIRATION DRIVE, SCENIC CREST DRIVE & SCENIC CREST DOMESTIC WATER IMPROVEMENT PROJECT C 3552, C 3242 & U6 3562

#### SUMMARY OF QUANTITIES

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<th>Item No.</th>
<th>Description</th>
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<th>C 3242</th>
<th>U6 3562</th>
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### GENERAL CONSTRUCTION NOTES

1. The 36 In. Diam. Scelt Mouse irrigation canal crossing the 12 In. Diam. domestic water line under the canal in the vicinity of Scenic Crest Sta. 131+40 must be installed by March 6, 2015 prior to irrigation turn on.

2. January 9, 2015 test pit at Sta. 11+00, 6' R. Water elevation 1012.32.

3. It is anticipated that ground water will not be encountered during the sanitary sewer installation on S. 31° street. If flowing water is required it will be paid per Section 1-80.7 of the Standard Specifications.

4. Irrigation water will be turned on March 15, 2015. If the sanitary sewer work is not completed prior to March 15, 2015 due to lack of diligence in pursuing the work, any additional cost for dewatering will not be paid.
SOUTH 31ST STREET

INSCRIPTION DRIVE

SOUTH 31ST STREET WATER MAIN CONSTRUCTION NOTES:
1. 8" WI CAP AND THRUST BLOCK.
2. 8" DI CL 52 WATER MAIN.
3. REMOVE EXISTING PLUG AND CONNECT TO EXISTING 8" WI GATE VALVE.
4. 8" WI GATE VALVE WITH 8" FLANGE VALVE AND THRUST BLOCK.
5. 8" DI 6" CL 52 SPool 2" IN LENGTH, FIRE HYDRANT AND THRUST BLOCKS. SEE STANDARD PLAN N-46.
6. 8" DI GATE VALVE, 8" DI CL 52 SPool 3" IN LENGTH, AND 8" WI GATE VALVE.
7. 8" DI 6" CL 52 SPool 2" IN LENGTH, AND PROPOSED 8" WI GATE VALVES.
8. BLOWOFF ASSEMBLY.

COUNTY ENGINEER
DATE: 1/1/15

DOMESTIC WATER PLAN (1)

SHEET 10 OF 33
SOUTH 31ST STREET

STATION 14+60.00 END NEW PAVEMENT
STATION 14+60.30 LT.
STATION 14+60.28 LT.

MATCHLINE STA 4400
MATCHLINE STA 14+60

8" DI CL. 52 WATER MAIN

EXISTING ELEVATION

0' R/W

STATION 15+55.62

TERRELL HEIGHTS DR.

PREPARED UNDER THE DIRECTION OF:

COUNTY ENGINEER
DATE:

INSPIRATION DR.
AND S. 31ST ST.
IMPROVEMENT PROJECT

C 3552

DOMESTIC
WATER
PLAN (2)

SOUTH 31ST STREET WATER MAIN CONSTRUCTION NOTES:
10. 8" main, tee with 6" main gate valve and thrust block.
11. 6" MI cap and thrust block.
12. 6" DI Cl. 52 water main.
13. Remove existing cap and thrust block and connect to existing 8" DI main. Field verify elevation to provide continuous positive slope from VSP at station 11+75 to existing water main.
14. Connect to existing 16" DI water main with 16" x 6" tapping sleeve and thrust block.
**INSPIRATION DRIVE**

**INSPIRATION DR. AND S. 31ST ST. IMPROVEMENT PROJECT**

**Terrace Heights Development LLC**

1. **2" SADDLE**
2. **CONNECT TO EXISTING 1/2" DI WATER MAIN WITH 1/2"X8" TAPPING SLEEVE, VALVE AND THRUST BLOCK.**
3. **6" DI CAP AND THRUST BLOCK.**
4. **DI CL 52 WATER MAIN.**
5. **BLOWOFF ASSEMBLY**
GENERAL NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
2. CONDUIT RUNS AND JUNCTION BOXES ARE SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK.
3. ALL WORK SHALL BE CONSISTENT WITH COLLECTED UTILITY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERMITTED UTILITY AGENCIES 48 HOURS PRIOR TO COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY UTILITIES.
4. STEEL LIGHT STANDARDS SHALL BE INSTALLED ACCORDING TO WSDOT STANDARD PLANS 2015 SERIES. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
5. LIGHT STANDARD HANGER SHALL FACE THE ROADWAY UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:
1. CONSTRUCT STEEL LIGHT STANDARD FOUNDATION (FIXED BASE). INSTALL COUNTY FURNISHED STEEL LIGHT STANDARD TYPE 1 (GRAY) MAST ARM, FURNISH AND INSTALL LED LUMINARIAE AND ALL ASSOCIATED EQUIPMENT/COMBINING WIRING. SEE FOUNDATION PLACEMENT SCHEMATIC AND WSDOT STD PLANS J-2610, J-2730, J-2640, AND J-2670. LIGHT STANDARD FOUNDATION SHALL BE PLACED PER THE SCHEMATIC IN THIS PLAN.
2. ROTATE EXISTING LUMINARIAE ARM (GRAY) TO BE PERPENDICULAR TO ROAD CENTERLINE.
3. REPLACE EXISTING LUMINARIAE FIXTURE WITH LED LUMINARIAE FIXTURES. NOT ALL EXISTING LUMINARIAE FIXTURES SHOWN IN THE PLANS. EXISTING LUMINARIAE FIXTURES TO BE REPLACED ARE (3) ON INSPIRATION DR AND TWO (2) ON S 31ST ST. SAVE ALL REMOVED FIXTURES AND SHIP TO COUNTY MAINTENANCE SHOP AT 1218 S 18TH ST, YAKIMA, WA 98901.
4. COORDINATE WITH KBR, RHC, AND PRIOR TO DELIVERY.
5. ADJUST EXISTING JUNCTION BOX TO NEW SIDEWALK LEVEL.

INSPIRATION DRIVE

MATCHLINE STA. 11+25

PT STA + 16+37.15

R/W

PC STA + 13+58.07

C 3552

PREPARED UNDER THE DIRECTION OF:

COUNTY ENGINEER

WASSIM KAID

PROJECT ENGINEER:

811

ILLUMINATION PLAN (1)

SHEET 13 OF 33
PAVEMENT MARKING NOTES

6) PLASTIC 12" WHITE LINE CROSSWALK
7) PLASTIC 4" YELLOW EDGE LINE

NOTES:
1) THE PAVEMENT MARKINGS SHALL BE SPOTTED BY THE ENGINEER PRIOR TO PAINTING. THE ENGINEER SHALL BE NOTIFIED AT LEAST 5 WORKING DAYS PRIOR TO PAINTING TO SPOT THE PAVEMENT MARKINGS.
PAVEMENT MARKING NOTES

1. PAINTED (TML) TWO, WAY LEFT TURN CENTER LINE PER WSDOT STD PLAN M-20.10.02
2. PAINTED 25L (LEFT) TRAFFIC ARROW
3. PAINTED 4" (DYCL) DOUBLE YELLOW CENTERLINE
4. PAINTED 0" (WWLL) WHITE WIDE LINE
5. PAINTED (W/DE) WHITE WIDE DOTTED EXTENSION OF EDGE LINE (SEE DETAIL)
6. PAINTED 4" YELLOW EDGE LINE

NOTE:

FOR REFERENCE ONLY.
WORK TO BE PERFORMED BY OTHERS.
S 31ST STREET

NOTES:
1) THE PAVEMENT MARKINGS SHALL BE SPOTTED BY THE ENGINEER PRIOR TO PAINTING. THE ENGINEER SHALL BE NOTIFIED AT LEAST 5 WORKING DAYS PRIOR TO PAINTING TO SPOT THE PAVEMENT MARKINGS.
2) SEE SHEET 18 FOR PERMANENT SIGNING SPECIFICATIONS.

NOTE:
FOR REFERENCE ONLY. WORK TO BE PERFORMED BY OTHERS.
### Permanent Signing Specifications

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<td>30&quot; 30&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>---</td>
<td>---</td>
<td>36&quot; 6&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
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<tr>
<td>15</td>
<td></td>
<td>South 31st St.</td>
<td>STA 10-46</td>
<td>30&quot; 30&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>---</td>
<td>---</td>
<td>24&quot; 12&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>South 31st St.</td>
<td>STA 10-15</td>
<td>30&quot; 30&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>---</td>
<td>---</td>
<td>24&quot; 12&quot;</td>
<td>IV</td>
<td>Metal</td>
<td>2&quot;2&quot;</td>
<td>10&quot;</td>
<td></td>
<td>Inspiration 5&quot; - size is based on series C legend and 4&quot; spacing</td>
</tr>
</tbody>
</table>

**Notes:**

1. MUTCD (Manual on Uniform Traffic Control Devices).
2. Post structure and mounting details, see Standard Plans for Road and Bridge Construction, Series 6.
3. For color references and standard sign layout details, see Standard Highway Signs Manual.
4. All signs, posts, and any other traffic control devices shall be supplied, erected and maintained by the contractor.
5. The posts shall not protrude above the signs.

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**ONLY**

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**NOTE:**

FOR REFERENCE ONLY.

WORK TO BE PERFORMED BY OTHERS.
NOTES:
1. MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. FOR STRUCTURE AND MOUNTING DETAILS, SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, SERIES O.
3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS, SEE STANDARD HIGHWAY SIGNS MANUAL.
4. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
5. DISTANCE FROM THE EXISTING SHOULDER OR FACE OF CURB TO THE SIGN POST.
6. ALL SIGNS, POSTS AND ANY OTHER TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
7. THE POSTS SHALL NOT PROTRUDE ABOVE THE SIGNS.

**NOTE:** POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

### ROAD CLOSURE SIGN SPECIFICATIONS

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>MUTCD SIGN #</th>
<th>LOCATION</th>
<th>SIGN SIZE</th>
<th>SHEETING TYPE</th>
<th>POST MATERIAL</th>
<th>POST SIZE</th>
<th>POST LENGTH</th>
<th>CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TYPE II BARRICADE EJ</td>
<td>8 ROAD CLOSURE</td>
<td>60&quot;</td>
<td>3&quot;</td>
<td>X</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2</td>
<td>TYPE II BARRICADE ER</td>
<td>8 ROAD CLOSURE</td>
<td>60&quot;</td>
<td>3&quot;</td>
<td>X</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3</td>
<td>TYPE III BARRICADE RD</td>
<td>8 ROAD CLOSURE</td>
<td>0&quot;</td>
<td>5&quot;</td>
<td>X</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>4</td>
<td>R11-2</td>
<td>8 ROAD CLOSURE, ABOVE TYPE III BARRICADE ER</td>
<td>48&quot;</td>
<td>9&quot;</td>
<td>X</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>5</td>
<td>M20-3</td>
<td>20' EAST OF ROAD CLOSURE</td>
<td>48&quot;</td>
<td>46&quot;</td>
<td>WOOD</td>
<td>4&quot;x4&quot;</td>
<td>12&quot;</td>
<td>7&quot;</td>
</tr>
</tbody>
</table>

- See BARRICADE DETAIL A
- See BARRICADE DETAIL C
- See BARRICADE DETAIL D
- MOUNTED ABOVE BARRICADE
GENERAL NOTE:
WATER MAIN SHALL SLOPE CONTINUOUSLY UP FROM WEST END TO EAST END OF PROJECT.

GENERAL NOTES (WATER MAIN INSTALLATION):
1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH YAKIMA COUNTY STANDARDS, DEPARTMENT OF HEALTH STANDARDS AND THE MOST CURRENT COPY OF THE WSDOT/APA STANDARDS SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. IN CASES OF CONFLICT, THE MOST STRINGENT STANDARD SHALL APPLY.
2. THE CONTRACTOR SHALL BE IN COMPLIANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS AS SET FORTH BY OSHA, WSHA AND THE WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
4. THE FOLLOWING SCENIC CREST MAIN CONSTRUCTION NOTES TAKE PRECEDENCE OVER THE NOTES ON SHEETS 22 AND 23.

Scenic Crest Drive Water Main Construction Notes:
1. Contractor shall coordinate work with County, including shutting off water mains prior to locating existing water mains.
2. Pipe deflections shall not exceed 75% of manufacturer’s recommendations.
3. Station 149+82, install thrust block with 11.25 degree bend.
4. Station 149+20, 90° LT, 12" MxM butterfly valve and thrust block. Install 3/4" DI spool 3' in length and 12" MxM butterfly valve west of tee rather than at Station 149+75. See Water Main Detail Sheet.
5. 8" DI CL 52 water main.
6. Station 149+20, 28' LT, 8" MI cap and thrust block.
7. Station 149+40, 27' RT, 2" HDPE Water Service.
8. Install 12x6" MixFl tee, 6" Flugate valve, fire hydrant assembly and thrust blocks at Station 149+55 rather than 149+75.
9. Station 151+40, center a full section of water line over irrigation piping and install CDF in place of pipe bedding for a distance of 9' either side of canal crossing. See Standard Plan W-38.
10. Station 151+90, remove existing blowoff including 2" HDPE pipe and corporation stop and provide to County. Install brass plug in existing saddle.
11. All ductile iron pipe shall be Special Thickness Class S2.
TRAFFIC CONTROL SIGN SPECIFICATIONS

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>LOCATION</th>
<th>SIGN SIZE</th>
<th>SHEET TYPE</th>
<th>POST MATERIAL</th>
<th>POST SIZE</th>
<th>POST LENGTH</th>
<th>CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E SCENIC CREST DR N 300FT WEST</td>
<td>48&quot; x 48&quot;</td>
<td>X</td>
<td>WOOD</td>
<td>4 x 4</td>
<td>12&quot;</td>
<td>T</td>
</tr>
<tr>
<td>2</td>
<td>E SCENIC CREST DR S 300FT EAST</td>
<td>36&quot; x 48&quot;</td>
<td>X</td>
<td>WOOD</td>
<td>4 x 4</td>
<td>12&quot;</td>
<td>T</td>
</tr>
</tbody>
</table>

NOTES:
1. MUTCD (Manual on Uniform Traffic Control Devices).
2. FOR STRUCTURE AND MOUNTING DETAILS, SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, SERIES 6.
3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS, SEE STANDARD HIGHWAY SIGNS MANUAL.
4. ALL SIGNS, POSTS AND ANYOTHER TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
5. THE POSTS SHALL NOT PROJECT ABOVE THE SIGNS.

NOTE: POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
NOTES:
1. ROAD SHALL BE CLOSED NO MORE THAN TWO DAYS.
2. ALL CLOSURE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER THE TWO DAYS CLOSURE.
3. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SITE SPECIFIC TRAFFIC CONTROL PLANS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. PLANS SHALL BE SUBMITTED 5 BUSINESS DAYS IN ADVANCE OF WORK.

**ROAD CLOSURE SIGN SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>MUTCD SIGN #</th>
<th>LOCATION</th>
<th>SIGN SIZE</th>
<th>SHEETING TYPE</th>
<th>POST MATERIAL</th>
<th>POST SIZE</th>
<th>POST LENGTH</th>
<th>CLEARANCE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TYPE II BARRICADE G2</td>
<td>ROAD CLOSURE</td>
<td>6&quot; 9&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL A</td>
</tr>
<tr>
<td>2</td>
<td>TYPE III BARRICADE G2</td>
<td>ROAD CLOSURE</td>
<td>6&quot; 9&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL C</td>
</tr>
<tr>
<td>3</td>
<td>TYPE III BARRICADE G2</td>
<td>ROAD CLOSURE</td>
<td>6&quot; 9&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL B</td>
</tr>
<tr>
<td>4</td>
<td>R2-4</td>
<td>ROAD CLOSURE, ABOVE TYPE II BARRICADE G2</td>
<td>48&quot; 30&quot; X</td>
<td>---</td>
<td>4X44&quot;</td>
<td>12&quot;</td>
<td>1&quot;</td>
<td>10&quot;</td>
<td>MOUNTED ABOVE BARRICADE</td>
</tr>
<tr>
<td>5</td>
<td>W2D-3</td>
<td>300’ EAST OF ROAD CLOSURE</td>
<td>48&quot; 48&quot; X</td>
<td>WOOD 4X44&quot;</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>6</td>
<td>TYPE II BARRICADE G2</td>
<td>ROAD CLOSURE</td>
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<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL A</td>
</tr>
<tr>
<td>7</td>
<td>TYPE III BARRICADE G2</td>
<td>ROAD CLOSURE</td>
<td>6&quot; 9&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL C</td>
</tr>
<tr>
<td>8</td>
<td>TYPE III BARRICADE G2</td>
<td>ROAD CLOSURE</td>
<td>6&quot; 9&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>SEE BARRICADE DETAIL B</td>
</tr>
<tr>
<td>9</td>
<td>R2-4</td>
<td>ROAD CLOSURE, ABOVE TYPE II BARRICADE G2</td>
<td>48&quot; 30&quot; X</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>MOUNTED ABOVE BARRICADE</td>
</tr>
</tbody>
</table>

**NOTES:**
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2. FOR STRUCTURE AND MOUNTING DETAILS, SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, SERIES 6.
3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS, SEE STANDARD HIGHWAY SIGN MANUAL.
4. ALL SIGNS, POSTS AND ANY OTHER TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
5. THE POSTS SHALL NOT PROTRUSE ABOVE THE SIGNS.

*NOTE: POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.*
NOTES:
1) THE PAVEMENT MARKINGS SHALL BE SPOTTED BY THE ENGINEER prior to painting. The engineer shall be notified at least 5 working days prior to painting to spot the pavement markings.
2) SEE SHEET 33 FOR PERMANENT SIGNING SPECIFICATIONS.

PAVEMENT MARKING NOTES
1. PAINTED 4" (DYL) DOUBLE YELLOW CENTERLINE
2. PAINTED (TWL) TWO WAY LEFT TURN CENTER LINE PER WSDOT STD PLAN M-20.10-02
3. PAINTED 25L (6.5FT) TRAFFIC ARROW
4. PAINTED 6" (WALL) WHITE WIDE LANE LINE

NOTE: FOR REFERENCE ONLY. WORK TO BE PERFORMED BY OTHERS.
### Permanent Signing Specifications

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>MUTED SEAL NO.</th>
<th>ROAD NAME</th>
<th>STATION</th>
<th>SIGN SIZE (IN)</th>
<th>SHEET MATERIAL</th>
<th>POST SIZE (IN)</th>
<th>POST MATERIAL</th>
<th>CLEARANCE OFF J</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9416</td>
<td>E Sterling Drive</td>
<td>STA 104+19</td>
<td>30 x 30</td>
<td>N</td>
<td>1&quot; x 1&quot;</td>
<td>N</td>
<td>10'</td>
<td>&quot;E Sterling Drive&quot; MOUNTED ABOVE SIGN NO. 1. SIZE IS BASED ON SERIES B LEGEND AND 3&quot; SPACING AT THE EDGES AND 4&quot; SPACING</td>
</tr>
<tr>
<td>8</td>
<td>8956</td>
<td>E Sterling Drive</td>
<td>STA 109+19</td>
<td>30 x 30</td>
<td>N</td>
<td>1&quot; x 1&quot;</td>
<td>N</td>
<td>10'</td>
<td>&quot;E Sterling Drive&quot; MOUNTED ABOVE SIGN NO. 1. SIZE IS BASED ON SERIES B LEGEND AND 3&quot; SPACING AT THE EDGES AND 4&quot; SPACING</td>
</tr>
<tr>
<td>7</td>
<td>7956</td>
<td>E Sterling Drive</td>
<td>STA 114+19</td>
<td>30 x 30</td>
<td>N</td>
<td>1&quot; x 1&quot;</td>
<td>N</td>
<td>10'</td>
<td>&quot;E Sterling Drive&quot; MOUNTED ABOVE SIGN NO. 1. SIZE IS BASED ON SERIES B LEGEND AND 3&quot; SPACING AT THE EDGES AND 4&quot; SPACING</td>
</tr>
<tr>
<td>6</td>
<td>6956</td>
<td>E Sterling Drive</td>
<td>STA 124+19</td>
<td>30 x 30</td>
<td>N</td>
<td>1&quot; x 1&quot;</td>
<td>N</td>
<td>10'</td>
<td>&quot;E Sterling Drive&quot; MOUNTED ABOVE SIGN NO. 1. SIZE IS BASED ON SERIES B LEGEND AND 3&quot; SPACING AT THE EDGES AND 4&quot; SPACING</td>
</tr>
</tbody>
</table>

#### Note

*Post lengths shown are approximate. Final values shall be determined in the field by the contractor.*

---

### Paveinent Marking Notes

<table>
<thead>
<tr>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MUTED (Manual on Uniform Traffic Control Devices).</td>
</tr>
<tr>
<td>2. FOR STRUCTURE AND MOUNTING DETAILS, SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, SERIES G.</td>
</tr>
<tr>
<td>3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS, SEE STANDARD HIGHWAY SIGN MANUAL.</td>
</tr>
<tr>
<td>4. ALL SIGNS, POSTS AND ANY OTHER TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, ERECTED AND MAINTAINED BY THE CONTRACTOR.</td>
</tr>
<tr>
<td>5. THE POST’S WIDTH MUST BE NO LESS THAN 1.5”</td>
</tr>
</tbody>
</table>

---

### Permanent Signing Details and Specifications

**Typical Sign Installation NT5**

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**Prepared Under the Direction of:**

**County Engineer Date:**

---

**Project Engineer:**

**Drawing:**

**Checked by:**

---

**Sheets 33 of 33**