DOUGLAS COUNTY
TRANSPORTATION & LAND SERVICES
140 19TH STREET NW, SUITE A • EAST WENATCHEE, WA 98802
PHONE: 509-884-7173 • FAX: 509-886-3954
www.douglascountywa.net

CONTRACT SPECIFICATIONS

21st ST NE – N Baker Ave to N Devon Ave
CRP 1011

FOR INFORMATION REGARDING THIS CONTRACT PLEASE CONTACT:

Douglas County Transportation and Land Services
140 19th St. NW, Suite A
East Wenatchee, WA 98802
509-884-7173

BOARD OF COUNTY COMMISSIONERS
DOUGLAS COUNTY, WASHINGTON
Resolution No. TLS 26-19A

CALL FOR BIDS
21st ST NE – N Baker Ave to N Devon Ave
CRP 1011

Sealed bids will be received at the Douglas County Public Services Building, 140 19th St. NW, Suite A, East Wenatchee, WA 98802 until 10:00 AM Pacific Time, on Monday, April 13, 2026, at which time all bids received will be publicly opened and read in the Hearing Room as soon thereafter as the matter may be heard for

> The construction of "21st ST NE – N Baker Ave to N Devon Ave", CRP 1011, consisting of for the improvement of "21st St NE – N Baker Ave to N Devon Ave" by performing clearing and grubbing, roadway excavation Incl. haul, embankment compaction, catch basins, storm sewer, structure excavation class A incl. haul, concrete block wall, crushed surfacing, HMA paving, erosion control, permanent signing, illumination system, pavement marking, traffic control, sidewalk, concrete driveway, curb ramp, monument case and cover *** and other work.

"The Douglas County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award."

Complete digital project bidding documents are available at the Douglas County webpage at www.douglascountywa.net under the Transportation Projects tab. A hard copy can also be obtained from the Douglas County Public Services Building location. A $50.00 fee (plus postage if necessary), **NONREFUNDABLE,** is required for a hard copy of the project bidding documents.

A bid bond in the amount of 5% of the bid shall accompany all bids. All bids shall be marked **"Sealed Bid for 21st ST NE – N Baker Ave to N Devon Ave, CRP 1011 TO BE OPENED ON April 13, 2026 AT 10:00:59 A.M. Pacific Time"** on the outside of the envelope. Sealed bids may not be submitted by facsimile or other electronic or data transmission.

The Board of County Commissioners reserves the right to reject any or all bids for cause.

Dated this 17th day of March 2026 at Waterville, Washington.

BOARD OF COUNTY COMMISSIONERS
DOUGLAS COUNTY, WASHINGTON

Dan Sutton, Chair

Randy Agnew, Vice Chair

Marc S. Straub, Commissioner

ATTEST:

Carlye Baity, Clerk of the Board
Megan Jay, Executive Assistant

Publish in the Wenatchee World on 3/19/2026, 3/26/2026, 04/02/2026
Publish in the Seattle Daily Journal of Commerce on 3/19/2026, 3/26/2026, 04/02/2026

Douglas County Transportation and Land Services

21st ST NE – N Baker Ave to N Devon Ave
CRP 1011

Bids to be opened Monday, April 13, 2026 at 10:00:59 A.M. Pacific Time.

03/17/2026

Douglas County Engineer

03/17/2026

Capital Programs Manager

East Wenatchee Water District

SPECIAL PROVISIONS FOR:

21st Street NE Improvements

RH2 Project No. 25.006

Volume I

March 4, 2026

Signed:
03/04/2026

21st ST NE – N Baker Ave to N Devon Ave
CRP 1011

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PART ONE

BID DOCUMENTS

21st ST NE -
N Baker Ave to N Devon Ave
CRP 1011

PROPOSAL

To the Board of County Commissioners
Douglas County, Washington
Gentlemen:

FROM: _____

The undersigned hereby certify that they have examined the contract location of **21st ST NE - N Baker Ave to N Devon Ave** and have read and thoroughly understand the plans and specifications and contract governing the work embraced in this improvement, and the method by which payment will be made for said work, and hereby propose to undertake and complete the work embraced in this improvement, or as much thereof 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.

ITEM NO.	APPROX. QTY.	ITEMS	UNIT PRICE Dollars	UNIT PRICE Cts.	AMOUNT Dollars	AMOUNT Cts.
1	1 L.S.	Mobilization				
2	1 Acre	Clearing and Grubbing				
3	1 L.S.	Removal of Structures and Obstructions				
4	590 L.F.	Sawcutting				
5	2,400 C.Y.	Roadway Excavation Incl. Haul				
6	230 C.Y.	Embankment Compaction				
7	7 Each	Catch Basin Type 2 48" Bolt-Down Manhole Ring and Solid Cover				
8	1 Each	Catch Basin Type 2 - 72 In. Diam.				
9	13 Each	Catch Basin Type 1L - Combination Inlet				
10	210 L.F.	Corrugated Polyethylene Storm Sewer Pipe 12 In. Diam.				
11	1,300 L.F.	Corrugated Polyethylene Storm Sewer Pipe 18 In. Diam.				
12	1 Each	Connection to Existing Drainage System				

ITEM NO.	APPROX. QTY.	ITEMS	UNIT PRICE Dollars	UNIT PRICE Cts.	AMOUNT Dollars	AMOUNT Cts.
13	2 Each	Adjust Manhole				
14	1 Each	Special Manhole Adjustment - 35-115				
15	1 Each	Special Manhole Adjustment - 35-43				
16	1 Each	Special Manhole Adjustment - 35-45				
17	1 Each	Special Manhole Adjustment - 35-47				
18	29 L.F.	PVC Sanitary Sewer Pipe 12 In. Diam.				
19	180 L.F.	Ductile Iron Pipe for Water Main 6 In. Diam.				
20	86 L.F.	Ductile Iron Pipe for Water Main 8 In. Diam.				
21	1 Each	Gate Valve 6 Inch				
22	1 L.S.	Connection to Existing at Sta. 6+11A				
23	1 L.S.	Connection to Existing at Sta. 7++19A				
24	1 L.S.	Connection to Existing at Sta. A 13+27				
25	1 L.S.	Connection to Existing at Sta. A 13+85				
26	2 Each	Watermain Offset				
27	1 L.S.	Abandonment of Terminated Water Facilities				
28	7 Each	Service Connection 1-1/2 In. Diam. With 5/8"x3/4" Setter				
29	5 Each	Double Service Connection 1-1/2 In. Diam. With 5/8"x3/4" Setters				
30	2 Each	Adjust Water Service Lid to Finish Grade				
31	300 L.F.	Service Line 2 In. Diam and Smaller				

ITEM NO.	APPROX. QTY.	ITEMS	UNIT PRICE Dollars	UNIT PRICE Cts.	AMOUNT Dollars	AMOUNT Cts.
32	2,550 Ton	Crushed Surfacing Base Course				
33	1,630 Ton	Crushed Surfacing Top Course				
34	25 C.Y.	Cement Conc. Pavement				
35	1,065 Ton	HMA Cl. 1/2 In. PG 64H-28				
36	1 L.S.	Irrigation System				
37	60 Day	ESC Lead				
38	15 Each	Inlet Protection				
39	1 Est.	Erosion/Water Pollution Control	**$10,000**	**00**	**$10,000**	**00**
40	0.5 Acre	Seeding, Fertilizing, and Mulching				
41	220 L.F.	High Visibility Silt Fence				
42	2,546 L.F.	Cement Conc. Traffic Curb and Gutter				
43	85 L.F.	Cement Conc. Pedestrian Curb				
44	1 L.S.	Project Temporary Traffic Control				
45	210 S.F.	Construction Sign Class A				
46	5 Each	Monument Case and Cover				
47	800 S.Y.	Cement Concrete Sidewalk				
48	1 L.S.	Illumination System				
49	535 S.Y.	Cement Conc. Driveway Entrance Type 1 Modified				
50	1 L.S.	Type B Progress Schedule				

ITEM NO.	APPROX. QTY.	ITEMS	UNIT PRICE Dollars	UNIT PRICE Cts.	AMOUNT Dollars	AMOUNT Cts.
51	5 Each	Parallel Curb Ramp Type A				
52	40 L.F.	Chain Link Fence Type 4				
53	1 L.S.	Roadway Surveying				
54	11 C.Y.	Structure Excavation Class A Incl. Haul				
55	1 L.S.	Shoring or Extra Excavation Class B - Douglas County				
56	1 L.S.	Shoring or Extra Trench Excavation - EWWD				
57	1 L.S.	Shoring or Extra Trench Excavation - DCSD				
58	158 S.F.	Concrete Block Wall				
59	5 Each	Pothole				
60	1 L.S.	SPCC Plan				
61	7 Each	Mailbox Support Type 1				
62	3 Each	Mailbox Support Type 2				
63	1 L.S.	ADA Feature Surveying				
64	1 L.S.	Record Drawings (Minimum Bid $1,000.00)				
65	1 L.S.	Permanent Signing (HIP)				
66	1 L.S.	Pavement Marking				
67	1 Est.	Force Account Landscape Repair	**$10,000**	**00**	**$10,000**	**00**
68	1 Est.	Minor Change	**$10,000**	**00**	**$10,000**	**00**
		Project Total				

BID PROPOSAL BOND

KNOW ALL PERSONS BY THESE PRESENTS:

That_____ of _____,

as Principal, and _____ as Surety, are jointly and severally held and bound unto Douglas County, Washington, in the full penal sum of five percent (5%) of the total amount of the bid proposal of the Principal for the work hereafter described and for the payment of such amount to Douglas County, Washington.

We jointly and severally bind ourselves, our heirs, successors and assigns, by these presents.

The Principal is herewith submitting a sealed bid proposal for the following public works construction, to-wit:

> Douglas County "21st ST NE – N Baker Ave to N Devon Ave", CRP 1011, consisting of the improvement of *** "21st ST NE – N Baker Ave to N Devon Ave" by performing clearing and grubbing, roadway excavation Incl. haul, embankment compaction, catch basins, storm sewer, structure excavation class A incl. haul, concrete block wall, crushed surfacing, HMA paving, erosion control, permanent signing, illumination system, pavement marking, traffic control, sidewalk, concrete driveway, curb ramp, monument case and cover *** and other work.
>
> All according to the 2025 Standard Specifications for Road, Bridge and Municipal Construction, State of Washington, Department of Transportation, and the plans, specifications and addenda thereto

NOW, THEREFORE, if the bid proposal of the Principal be accepted and the Contract awarded to the Principal, and if the Principal shall duly execute the Contract and furnish the required Payment and Performance Bond and Certificate of Insurance within twenty (20) days from and after the award, exclusive of the day of such award, THEN AND ONLY THEN this Bid Proposal Bond shall be null and void and fully discharged. Otherwise, it shall remain and be in full force and effect and payable to Douglas County, Washington.

NOTE: Failure to provide a Bid Proposal Bond renders a bid non-responsive. Acceptable bid bond language shall comply with Standard Specifications, 1-02.7.

WITNESS our hands this ____ day of _____, 2026.

_____	_____
Type or Print: Principal's Name:	Type of Print: Surety's Name
_____	_____
Signature: Principal or Authorized Officer	Signature: Surety or Authorized Agent
	_____
	Signature: Attorney-in-Fact, Surety

BID PROPOSAL FORM

To the Board of County Commissioners:

The undersigned Bidder hereby certifies that the Bidder has examined the construction site and has read and thoroughly understands the plans, specifications, addenda and contract governing the work and the manner by which payment will be made for such work.

The Bidder hereby acknowledges receipt of Addendum No. 1__, No. 2__, No. 3__, No. 4__, No. 5__, No. 6__, No. 7__, No. 8__, No. 9__, and No. 10__.

The Bidder hereby acknowledges that by execution of this Bid Proposal Form the Bidder has agreed to all bidding requirements, has fully executed all required bidding documents, and has agreed to fully and completely perform all work required under the plans, specifications, addenda and contract. The Bidder has agreed to pay prevailing rates of wages in accordance with the requirements of the special provisions or as may be in effect at the time of the execution of the contract, whichever may be higher.

A bid proposal guarantee of five percent (5%) of the total bid is attached hereto in the following form and in the amount of $_____.

Cash ____ Bid Proposal Bond ____ Cashier's Check ____ Certified Check ____
Checks must be payable to the Douglas County Treasurer.

_____ _____
Print Bidder Name Mailing Address

_____ _____
Signature of Principal or Officer City State Zip

_____ _____ _____
Print Name of Signer Title Telephone Fax

ACCEPT-REJECT BID PROPOSAL

Failure to return this Declaration as part of the Bid Proposal Package will make the bid non-responsive 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.

BIDDER INFORMATION SHEET

Project: 21st ST NE – N Baker Ave to N Devon Ave

Contractor registration, bonding and insurance information will be confirmed through Department of Labor & Industries at 1-800-647-0982 and 1-360-902-5226.

CONTRACTOR:

_____

Name (Exactly as Registered) Telephone Number

_____

Address

_____

City State Zip

_____ _____ _____

Registration Number Expiration Date Federal Tax No.

Sole Proprietorship _____Partnership _____Corporation _____

Names of All Principals (Owners/Partners/Officers):

_____

_____

BONDING AND CLAIMS:

_____

Bonding Company Name (Exactly as Registered)

_____

Address City State Zip

_____ $_____ _____

Contractor Registration (L&I) Amount Expiration Date

Are there claims pending against your bond? _____

If yes, what are each claimant's name, reasons for the claim, and amount claimed and the date and place of filing?

_____

_____

BIDDER INFORMATION SHEET (cont.)

Have there been tax liens or judgments against you filed by the Internal Revenue service, Department of Revenue, Employment Security Department or Department of Labor & Industries within the last three years resulting from non-payment of employee taxes? _____

If yes, what date and in which county did each filing occur?

_____

_____

Are there any lawsuits or unsatisfied judgments pending against you? _____

If yes, what date and in which county is each lawsuit pending or judgment entered?

_____

_____

INSURANCE:

_____

Company Name Brokers Name

_____

Broker Address City State Zip

_____ $_____ _____

Policy Number General Liability Coverage Expiration Date

REFERENCES

Provide references (owner name, address and location) for three comparable projects constructed by Bidder within previous five years.

_____

_____

The Bidder hereby certifies that it has adequate equipment to properly and timely complete the work contemplated for Douglas County, Washington, and that the Bidder is a responsible bidder as provided by RCW 36.34.190.

Date:_____

_____

Signature of Authorized Principal/Officer

_____

Print Name and Title

BIDDING INSTRUCTIONS

A. BID OPENING

The Douglas County Engineer will open sealed bids and publicly read them aloud on **Monday, April 13, 2026, at 10:00:59 A.M. Pacific Time**, or as soon thereafter as the matter may be heard, at the Douglas County Public Services Building Hearing Room, for the construction of Douglas County "**21st ST NE – N Baker Ave to N Devon Ave**". Sealed bids must be received at the Douglas County Public Services Building in a sealed envelope clearly marked **SEALED BID FOR "21st ST NE – N Baker Ave to N Devon Ave", to be opened April 13, 2026, at 10:00:59 A.M. Pacific Time.**

Sealed bids may not be submitted by facsimile or other electronic or data transmission.

B. BID CONTENTS

The sealed bid must contain all bidding documents, fully completed and signed. Bidders not fully meeting specifications must identify and list exceptions. All exceptions are subject to review, inspection, testing and approval by Douglas County.

The sealed bid must also contain the following information and materials, completed and signed:

1. Bid Proposal (Prices must be shown on every unit item and the total. Prices bid must be shown in all spaces provided);
2. Bid Proposal Bond (in lieu of cash, cashier's check, or certified check, a Bid Proposal bond must be executed by the Bidder and the Bidder's Surety);
3. Bid Proposal Signature Page (Executed by Owner, Principal or Authorized Officer);
4. Non-Collusion Declaration
5. Local Agency Subcontractor List (DOT 271-015A), when applicable
6. Bidder Information Sheet
7. Certification of Compliance with Wage Payment Statutes

Bid proposal forms are not transferable. Any alteration not initialed by the Bidder will be cause for deeming the bid proposal irregular and rejecting the bid.

See Standard Specifications, 1-02.6, regarding "Preparation of the Proposal."

C. CLARIFICATION OF BID

A Bidder may submit information to clarify the bid proposal previously received by the Clerk. The information must be received in writing or by facsimile transmission prior to **April 13, 2026, at 10:00:59 A.M. Pacific Time** The sole purpose of this provision is to allow clarification of any perceived ambiguity in the bid proposal, or to modify responses to specifications in the bid. NO OTHER CHANGES ARE ALLOWED EXCEPT BY SUBMITTING AN AMENDED SEALED BID PROPOSAL PRIOR TO THE DATE AND TIME SET FOR BID OPENING. Any unsealed clarification information received by the Clerk which discloses price will not be considered by the Board of County Commissioners and shall result in rejection of the entire bid.

D. BID BOND

All bid proposals shall be accompanied by a bid bond, certified check, cashier's check or cash in the amount of five percent (5%) of the total bid, conditioned upon the Bidder's full and complete performance of the terms and conditions of a bid award. The bid bond or equivalent shall be held by Douglas County until the contract is fully executed and a performance bond and certificate of insurance is provided to Douglas County. If the successful bidder abandons the bid award, or fails to fully execute the contract, or fails to provide a performance bond and a certificate of insurance to Douglas County, then the bid bond or equivalent shall, in the sole discretion of Douglas County, be forfeited and retained.

E. BID REVIEW AND EVALUATION

The Board of County Commissioners reserves the right to reject any or all bids, waive informalities, and to contract as the best interests of Douglas County may require. When evaluating bids, the following criteria, in addition to price, will be considered:

1. The bidder's experience, technical qualifications and skill;
2. The guaranteed availability of materials needed for construction;
3. The bidder's ability and capacity to fully perform within the time required, taking into account the bidder's existing performance commitments and past performance;
4. The bidder's qualifications and eligibility to contract under applicable laws and regulations;
5. The bidder's compliance with the terms and conditions of this request for bids;
6. Any additional evaluation criteria contained in the plans, specifications and addenda; and
7. Any other information as may have a bearing on the bid.

F. CONTRACT DOCUMENTS FOLLOWING AWARD

Each Bidder's attention is especially called to the following documents that must be fully completed, executed and submitted to Douglas County if successful Bidder:

1. Contract - To be executed by the successful Bidder.
2. Payment and Performance Bond - To be executed by the successful Bidder and the Bidder's Surety Company.
3. Certificate of Insurance - To be executed by the successful Bidder's Insurance Company.

G. CANCELLATION BY COUNTY

In its sole discretion, Douglas County may cancel any bid award upon written notification to the successful Bidder within 30 (thirty) days after the date of the bid award, without any cost, expense, penalty or damages payable to the successful Bidder.

BIDDER'S CHECK LIST
OF CONTRACT DOCUMENTS

Each Bidder's attention is especially called to the following documents that must be fully completed, executed and submitted to the County if successful Bidder:

(a) Contract:

To be executed by the successful Bidder.

(b) Payment and Performance Bond:

To be executed by the successful Bidder and the Bidder's Surety Company.

(c) Certificate of Insurance:

To be executed by the successful Bidder's Insurance Company.

This form must be submitted with the Bid Proposal or as a Supplement to the Bid no later than 24 hours after the time for delivery of the Bid Proposal, as provided for in Section 1-02.9 of the Contract Provisions.

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (April 13, 2026), the bidder is not a "willful" violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

_____
Bidder's Business Name

_____
Signature of Authorized Official*

_____
Printed Name

_____
Title

_____ _____ _____
Date City State

Check One:
Sole Proprietorship ☐ Partnership ☐ Joint Venture ☐ Corporation ☐

State of Incorporation, or if not a corporation, State where business entity was formed:

_____

If a co-partnership, give firm name under which business is transacted:

_____

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

Douglas County

140 19th St. NW, Ste. A
East Wenatchee, WA 98802

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name 21st St. NE - N Baker Ave to N Devon Ave

Failure to list subcontractors with whom the bidder, if awarded the contract, will directly subcontract for performance of the work of structural steel installation, rebar installation, heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical, as described in Chapter 19.28 RCW or naming more than one subcontractor to perform the same work will result in your bid being non-responsive and therefore void.

Subcontractor(s) with whom the bidder will directly subcontract that are proposed to perform the work of structural steel installation, rebar installation, heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW must be listed below. The work to be performed is to be listed below the subcontractor(s) name.

To the extent the Project includes one or more categories of work referenced in RCW 39.30.060, and no subcontractor is listed below to perform such work, the bidder certifies that the work will either (i) be performed by the bidder itself, or (ii) be performed by a lower tier subcontractor who will not contract directly with the bidder.

Subcontractor Name _____

Work to be performed _____

Subcontractor Name _____

Work to be performed _____

Subcontractor Name _____

Work to be performed _____

Subcontractor Name _____

Work to be performed _____

Subcontractor Name _____

Work to be performed _____

* Bidder's are notified that it is the opinion of the enforcement agency that PVC or metal conduit, junction boxes, etc, are considered electrical equipment and therefore considered part of electrical work, even if the installation is for future use and no wiring or electrical current is connected during the project.

PART TWO

CONTRACT DOCUMENTS

CONTRACT

This Contract is made this day by and between Douglas County, Washington, a political subdivision of the State of Washington, and _____ hereafter referred to as the Contractor.

In consideration of each and every term and condition contained herein, attached or incorporated by reference and made a part of this Contract, the parties agree as follows:

The proposed work to be performed under this Contract consists of all labor, material and equipment necessary for construction of Douglas County "21st ST NE – N Baker Ave to N Devon Ave", CRP 1011, consisting of the improvement of *** "21st ST NE – N Baker Ave to N Devon Ave" by performing clearing and grubbing, roadway excavation Incl. haul, embankment compaction, catch basins, storm sewer, structure excavation class A incl. haul, concrete block wall, crushed surfacing, HMA paving, erosion control, permanent signing, illumination system, pavement marking, traffic control, sidewalk, concrete driveway, curb ramp, monument case and cover *** and other work

1. All work shall be in accordance with the 2025 Standard Specifications for Road, Bridge and Municipal Construction, State of Washington, Department of Transportation, and as described in the plans, specifications and addenda hereby incorporated by this reference as though fully set forth.

2. The Contractor shall provide and pay the expense of all labor, material and equipment of any kind whatsoever that may be required for constructing and completing the work provided for in this Contract and every part thereof, except such as are expressly furnished by the County according to the plans, specifications and addenda.

3. The County hereby employs the Contractor to provide all labor, materials and equipment to do and complete the above-described work according to the attached plans, specifications and addenda and the terms and conditions herein contained. The County agrees to pay for the same according to the Standard Specifications incorporated by reference and at such time, in such manner and upon such conditions as provided for in the Standard Specifications. The County further agrees to employ the Contractor to perform any alterations in or additions to the work provided for in this Contract that may be ordered in writing and to pay for the same under the terms of this Contract and the Standard Specifications.

4. The Contractor does hereby agree to fully and completely perform all the terms, conditions and promises contained in this Contract, the plans, specifications and addenda and the Standard Specifications, as well as all other requirements of federal and state law pertaining to the work to be performed.

5. This Contract is binding on the Contractor's heirs, successors and assigns

6. No liability shall attach to the County by reason of entering into this Contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Contractor has executed this Contract and the Board of County Commissioners has caused this Contract be executed by, and in the name of Douglas County, Washington.

Date: _____

_____
Contractor Name

_____
Authorized Signature, Principal/Officer

_____
Mailing Address

_____
City State Zip

_____
Surety

By: _____
Attorney in Fact

DOUGLAS COUNTY, WASHINGTON
BOARD OF COUNTY COMMISSIONERS

_____
Dan Sutton, Chair

_____
Randy Agnew, Vice Chair

Date:_____

_____
Marc S. Straub, Commissioner

Attest:

_____
Carlye Baity
Clerk of the Board

Approved as to Form:

_____
Jim Mitchell, WSBA 31031
Deputy Prosecuting Attorney

PAYMENT AND PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

That_____ of _____,

as Principal, and _____ as Surety, are jointly and severally held and bound unto Douglas County, Washington, in the full penal sum of:

_____ ($_____).

We jointly and severally bind ourselves, our heirs, successors and assigns, by these presents.

WHEREAS, on the _____ day of _____, 2026, the Principal executed a certain contract with Douglas County, Washington, by the terms, conditions and provisions of which, the Principal, agrees to furnish all labor, material, and equipment for certain public work, to wit:

The Principal will undertake and complete the following project:

> Douglas County "21st ST NE – N Baker Ave to N Devon Ave", CRP 1011, consisting of the improvement of *** "21st St NE – N Baker Ave to N Devon Ave" by performing clearing and grubbing, roadway excavation Incl. haul, embankment compaction, catch basins, storm sewer, structure excavation class A incl. haul, concrete block wall, crushed surfacing, HMA paving, erosion control, permanent signing, illumination system, pavement marking, traffic control, sidewalk, concrete driveway, curb ramp, monument case and cover *** and other work.
>
> All according to the 2025 Standard Specifications for Road, Bridge and Municipal Construction, State of Washington, Department of Transportation, and the plans, specifications and addenda thereto
>
> A copy of the executed contract and all specifications, plans, and addenda are incorporated herein by this reference as though fully set forth herein.

NOW, THEREFORE, the conditions of this bond are such that, if the Principal shall fully and completely:

1) comply with and perform all the terms, conditions, and promises of the contract;

2) furnish all labor, materials and equipment necessary to perform all work under the contract, and do so within the time required under the contract;

3) indemnify, defend and hold Douglas County harmless against any and all direct or indirect claims for damages to persons or property caused by or arising from the acts or omissions of the Contractor or any of the Contractor's employees, agents or subcontractors;

4) pay all persons and entities furnishing labor, materials and/or equipment for performance of any work under the contract, whether furnished directly or indirectly to the Contractor;

5) perform the contract according to law, and

6) continue to diligently and continuously perform all the foregoing conditions until final acceptance of the work by Douglas County;

THEN AND ONLY THEN, this obligation shall be null, void and fully discharged.

WITNESS our hands this ____ day of _____, 2026.

_____
Type or Print: Principal's Name:

_____
Signature: Principal or Authorized Officer

_____
Type or Print: Surety's Name

_____
Signature: Surety or Authorized Officer-Agent

_____
Signature: Attorney in Fact, Surety

Countersigned: _____

_____
Licensed (Resident) Agent or Surety Company

_____
Name and Address, Local Office of Agent

APPROVED AS TO FORM:

_____	_____
Jim Mitchell WSBM 31031 Date	Aaron Simmons, PE Date
Deputy Prosecuting Attorney	County Engineer

CERTIFICATE OF INSURANCE

This is to certify that the _____
(Insurance Company)

of_____
(Address) (City) (State Zip)

has issued policies of insurance, as described below and identified by policy number, to the insured named below and to certify that such policies are in full force and effect at this time. Douglas County, Washington has been named as an additional named insured on all such policies. It is agreed that none of these policies may be canceled or reduced in coverage without 30 days prior written notice, served by certified mail, return receipt requested, and received by Douglas County, Board of County Commissioners, P.O. Box 747, Waterville, Washington, 98858.

1. Insured:_____

2. Address:_____

3. Status of Insured: Corporation _____ Partnership _____

   Individual _____ Joint Venture _____

4. Location of Operations Insured: _____

5. Description of Operations Insured: _____

   _____

INSURANCE POLICIES IN FORCE

Indicate Form of Coverage, Policy Number and Policy Expiration Date

Comprehensive Public Liability
Insuring All Operations of Insured
_____

Comprehensive Property Damage
Liability Insuring All Operations of Insured
_____

Automobile Liability
_____

Railroad Protective Liability
_____

Policies include coverage for:	YES	NO
Damage caused by blasting, collapse or structural injury, or damage to under ground utilities?	____	____
Liability assumed in construction agreements and other types of contracts or the insured operations?	____	____
All owned, hired or non-owned automotive equipment used in connection with the insured operations?	____	____

LIMITS OF LIABILITY

Form Of Coverage	Bodily Injury	Property Damage
Liability other than Automobile	Each Person $_____	Each Accident $_____
	Ea. Accident $_____	Aggregate $_____
Liability Automobile	Each Person $_____	Each Accident $_____
	Ea. Accident $_____	Aggregate $_____
Railroad Protective Public Liability and Property Damage	Each Person $_____	Each Accident $_____
	Ea. Accident $_____	Aggregate $_____

Date:_____

Issued:_____

_____
(Insurance Company)

_____
(Authorized Representative Signature)

PART THREE

SPECIAL PROVISIONS

INTRODUCTION TO THE SPECIAL PROVISIONS

(January 4, 2024 APWA GSP, Option A)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2025 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 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 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 WSDOTGSP)
APRIL 1, 2022 (DCTLS GSP)

Project specific special provisions are labeled without a date as such:
(*****)

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 Manual M21-01, current edition

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

Division 1
General Requirements

DESCRIPTION OF WORK

(March 13, 1995)

This Contract provides for the improvement of *** "21st ST NE – N Baker Ave to N Devon Ave" by performing clearing and grubbing, roadway excavation Incl. haul, embankment compaction, catch basins, storm sewer, structure excavation class A incl. haul, concrete block wall, crushed surfacing, HMA paving, erosion control, permanent signing, illumination system, pavement marking, traffic control, sidewalk, concrete driveway, curb ramp, monument case and cover *** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

DEFINITIONS AND TERMS

1-01.3 Definitions
(January 19, 2022 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 or WSDOT General Special Provisions, to the terms “Department of Transportation”, “Washington State Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”, “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.

All references to the terms “State” or “state” shall be revised to read “Contracting Agency” unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

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

All references to “final contract voucher certification” shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

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

Alternate
One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Business Day
A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

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

Contract Documents
See definition for “Contract”.

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

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

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

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

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this section and replace it with the following:

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:

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	**5**	Furnished automatically upon award.
Contract Provisions	**5**	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	**1**	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

1-02.4(1) General
(December 30, 2022 APWA GSP Option A)

The first sentence of the ninth paragraph, beginning with "Prospective Bidder desiring…", is revised to read:

Prospective Bidders desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing soon enough to allow a written reply to reach all prospective Bidders before the submission of their Bids.

1-02.5 Proposal Forms

(November 25, 2024 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 DBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be in legible figures (not words) written in ink or typed and expressed in U.S. dollars. The required certifications are included as part of the Proposal Form.

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

1-02.6 Preparation of Proposal

(April 22, 2025 APWA 1-02.6, Option B)

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

All prices shall be in legible figures (not words) written in ink or typed, and expressed in U.S. dollars.

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.

Delete the last two paragraphs, and replace them with the following:

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

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

A bid by a partnership shall be executed in the partnership name and signed by a partner.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture.

Subcontractor's List
(June 11, 2025 APWA GSP 1-02.6, Option C)

The fourth paragraph of Section 1-02.6 is revised to read:

The Bidder shall submit with the Bid the completed Subcontractor List included in the Contracting Agency Proposal Package. If a Subcontractor List Form is not included in the package, use DOT Form 271-015LP. The Form shall contain the following:

1. Subcontractors who will perform the work of structural steel installation, rebar installation, heating, ventilation, air conditioning, and plumbing as described in RCW 18.106 and electrical as described in RCW 19.28,

2. The Work those subcontractors will perform on the Contract and the proof of license when required as described in RCW 39.30.060; and

3. No more than one subcontractor for each category of work identified, except, when subcontractors vary with Bid alternates, in which case the Bidder shall identify which subcontractor will be used for which alternate.

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
(November 21, 2025 APWA GSP, Option A)

Delete this section and replace it with the following:

General

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.

Proposals that are received as required will be publicly opened and read as specified in section 1-02.12. The contracting agency will not open or consider any bid proposal that is received after the time specified in the call for bids for receipt of bid proposals or received in a location other than that specified in the call for bids. The contracting agency will not open or consider any "supplemental information" that is received after the time specified, or received in a location other than that specified in the call for bids.

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

Supplemental bid information submitted after the proposal submittal but within 48 hours of the time and date the proposal is due, shall be submitted in a sealed envelope labeled the same as for the proposal, with "supplemental information" added.

All other information required to be submitted with the bid proposal must be submitted with the bid proposal itself, at the time stated in the call for bids.

1-02.10 Withdrawing, Revising, or Supplementing Proposal
(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and

2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and

3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

1-02.13 Irregular Proposals
(November 21, 2025 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:

    a. The Bidder is not prequalified when so required;
    b. The Bidder adds provisions reserving the right to reject or accept the Award, or enter into the Contract;
    c. A price per unit cannot be determined from the Bid Proposal;
    d. The Proposal form is not properly executed;
    e. The Bidder fails to submit or properly complete a subcontractor list as required in Section 1-02.6;
    f. The Bidder fails to submit the Bidder Questionnaire, if applicable, as required by Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions; or
    g. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.

2. A Proposal may be considered irregular and may be rejected if:

    a. The Proposal does not include a unit price for every Bid item;
    b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
    c. The authorized Proposal Form furnished by the Contracting Agency is not used or is altered;
    d. The completed Proposal form contains unauthorized additions, deletions, alternate Bids, or conditions;
    e. Receipt of Addenda is not acknowledged;
    f. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
    g. If Proposal form entries are not made in ink.

1-02.14 Disqualification of Bidders
(May 17, 2018 APWA GSP, Option A)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the Contracting Agency reserves the right to request documentation as needed from the Bidder and third parties concerning the Bidder's compliance with the mandatory bidder responsibility criteria.

If the Contracting Agency determines the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

(December 30, 2022 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

(July 8, 2024 APWA GSP Option A)

Revise this section to read:

Within 3 calendar days of Award date (not including Saturdays, Sundays and Holidays), the successful Bidder shall provide the information necessary to execute the Contract to the Contracting Agency. The Bidder shall send the contact information, including the full name, email address, and phone number, for the authorized signer and bonding agent to the Contracting Agency.

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 **20 (twenty)** 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, a satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the Construction Stormwater General Permit with sections I, III, and VIII completed when provided. 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 **5 (five)** additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond
(July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. The bond may be a combined payment and performance bond; or be separate payment and performance bonds. In the case of separate payment and performance bonds, each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
   a. Is registered with the Washington State Insurance Commissioner, and
   b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
   a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
   b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

1-03.7 Judicial Review
(December 30, 2022 APWA GSP)

Revise this section to read:

All decisions made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction.

1-04 SCOPE OF THE WORK

1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda
(December 30, 2022 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. Standard Specifications,
6. Contracting Agency's Standard Plans or Details (if any), and
7. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-04.4 Changes
(January 19, 2022 APWA GSP)

The first two sentences of the last paragraph of Section 1-04.4 are deleted.

1-04.4(1) Minor Changes
(May 30, 2019 APWA GSP)

Delete the first paragraph and replace it with the following:

Payments or credits for changes amounting to $10,000 or less may be made under the Bid item "Minor Change". At the discretion of the Contracting Agency, this procedure for Minor Changes may be used in lieu of the more formal procedure as outlined in Section 1-04.4, Changes. All "Minor Change" work will be within the scope of the Contract Work and will not change Contract Time.

1-05 CONTROL OF WORK

1-05.4 Conformity With and Deviations From Plans and Stakes

Section 1-05.4 is supplemented with the following:

(January 13, 2021)
Contractor Surveying - Roadway
The Contracting Agency has provided primary survey control in the Plans.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, surfacing, paving, channelization and pavement marking, illumination and signals, guardrails and barriers, and signing. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans “DO NOT DISTURB” shall be protected throughout the length of the project or be replaced at the Contractors expense.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.

3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

4. Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor.

5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.

6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout the project.

8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.

9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.

10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	Vertical	Horizontal
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Stationing on roadway	N/A	±0.1 feet
Alignment on roadway	N/A	±0.04 feet
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Roadway paving pins for surfacing or paving	±0.01 feet	±0.2 feet (parallel to alignment) ±0.1 feet (normal to alignment)

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.

The Contractor shall calculate coordinates for the alignment. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the work. The Contracting Agency will require up to seven calendar days from the date the data is received.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are needed that are not described in the Plans, then those stakes shall be marked, at no additional cost to the Contracting Agency as ordered by the Engineer.

Payment

Payment will be made for the following bid item when included in the proposal:

"Roadway Surveying", lump sum.

The lump sum contract price for "Roadway Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

1-05.4 Conformity With and Deviations from Plans and Stakes

(April 22, 2025 APWA GSP, Option D)

Supplement this section with the following:

Contractor Surveying – ADA Features

ADA Feature Staking Requirements

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, and grades necessary for the construction of the ADA features. Calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility. The Contractor shall build the ADA features within the specifications in the Standard Plans and contract documents.

ADA Feature Contract Compliance

The Contractor shall be responsible for completing measurements to verify all ADA features comply with the Contract in the presence of the Engineer.

ADA Feature Measurements

The Contractor shall be responsible for providing the latitude and longitude of each ADA feature as indicated on the ADA Post Inspection Form(s) (WSDOT Form 224-020LP).

The completed ADA Post Inspection Form(s) (WSDOT Form 224-020LP) shall be submitted as a Type 3 Working Drawing and transmitted to the Engineer within 30 calendar days of completing the ADA feature. After acceptance, the Contracting Agency will retain the final form(s) for their records.

Payment

Payment will be made for the following bid item that is included in the Proposal:
"ADA Feature Surveying", lump sum.

The lump sum Contract price for "ADA Feature Surveying" shall be full pay for all the Work as specified.

In the instance where an ADA feature does not meet accessibility requirements, all work to replace non-compliant work and then to measure, record the measurements, and transmit the electronic forms to the Engineer shall be completed at no additional cost to the Contracting Agency.

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

Supplement this section with the following:

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

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

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

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

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

1-05.11 Final Inspection

Delete this section and replace it with the following:

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

1-05.11(1) Substantial Completion Date

When the Contractor considers the work to be substantially complete, the Contractor shall 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.

1-05.15 Method of Serving Notices
(January 4, 2024 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be served and directed to the 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 written in paper format, hand delivered or sent via certified mail delivery service with return receipt requested to the 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:

1-05.18 Record Drawings
(March 8, 2013 APWA GSP)

The Contractor shall maintain one set of full size plans for Record Drawings, updated with clear and accurate red-lined field revisions on a daily basis, and within 2 business days after receipt of information that a change in Work has occurred. The Contractor shall not conceal any work until the required information is recorded.

This Record Drawing set shall be used for this purpose alone, shall be kept separate from other Plan sheets, and shall be clearly marked as Record Drawings. These Record Drawings shall be kept on site at the Contractor's field office, and shall be available for review by the Contracting Agency at all times. The Contractor shall bring the Record Drawings to each progress meeting for review.

The preparation and upkeep of the Record Drawings is to be the assigned responsibility of a single, experienced, and qualified individual. The quality of the Record Drawings, in terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a complete set of Record Drawings for the Contracting Agency without further investigative effort by the Contracting Agency.

The Record Drawing markups shall document all changes in the Work, both concealed and visible. Items that must be shown on the markups include but are not limited to:

- Actual dimensions, arrangement, and materials used when different than shown in the Plans.
- Changes made by Change Order or Field Order.
- Changes made by the Contractor.
- Accurate locations of storm sewer, sanitary sewer, water mains and other water appurtenances, structures, conduits, light standards, vaults, width of roadways, sidewalks, landscaping areas, building footprints, channelization and pavement markings, etc. Include pipe invert elevations, top of castings (manholes, inlets, etc.).

If the Contract calls for the Contracting Agency to do all surveying and staking, the Contracting Agency will provide the elevations at the tolerances the Contracting Agency requires for the Record Drawings.

When the Contract calls for the Contractor to do the surveying/staking, the applicable tolerance limits include, but are not limited to the following:

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

Making Entries on the Record Drawings:

- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
- Additions - Red
- Deletions - Green
- Comments - Blue
- Dimensions - Graphite
- Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
- Date all entries.
- Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

The Contractor shall certify on the Record Drawings that said drawings are an accurate depiction of built conditions, and in conformance with the requirements detailed above. The Contractor shall submit final Record Drawings to the Contracting Agency. Contracting Agency acceptance of the Record Drawings is one of the requirements for achieving Physical Completion.

Payment will be made for the following bid item:

Record Drawings (Minimum Bid $ 1,000)	Lump Sum

Payment for this item will be made on a prorated monthly basis for work completed in accordance with this section up to 75% of the lump sum bid. The final 25% of the lump sum item will be paid upon submittal and approval of the completed Record Drawings set prepared in conformance with these Special Provisions.

A minimum bid amount has been entered in the Bid Proposal for this item. The Contractor must bid at least that amount.

1-06 CONTROL OF MATERIAL

1-06.6 Recycled Materials
(January 4, 2016 APWA GSP)

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

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

1-06.2(2)B Financial Incentive
(January 4, 2024 AWPA GSP)

Replace the first sentence of this Section with the following:

The maximum Composite Pay Factor shall be 1.00.

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).

Permits and Licenses

Section 1-07.6 is supplemented with the following:

(January 2, 2018)

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. Copies of these permits, including a copy of the Transfer of Coverage form, when applicable, are required to be onsite at all times.

Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall be responsible for obtaining Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). 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.

***

NAME OF DOCUMENT	PERMITTING AGENCY	PERMIT REFERENCE NO.
NPDES Construction Stormwater General Permit	Department of Ecology	To be retained by Douglas Co.

***

1-07.8 High Visibility Apparel

Section 1-07.8(1) is revised to read:

Traffic Control Personnel

(September 16, 2025)
All personnel performing the Work described in Section 2-04 (including traffic control supervisors, flaggers, and others performing traffic control labor of any kind) shall comply with the following:

1. During daylight hours with clear visibility, workers shall wear a high-visibility ANSI/ISEA 107 Type R Class 2 or 3 garment with background material that are fluorescent yellow-green, fluorescent orange-red, or fluorescent red in color; and a high visibility hardhat that is white, yellow, yellow-green, orange, or red in color; and

2. During hours of darkness (½ hour before sunset to ½ hour after sunrise) or other low-visibility conditions (snow, fog, etc.), workers shall wear a high-visibility ANSI/ISEA 107 Type R Class 2 or 3 garment with background material that are fluorescent yellow-green, fluorescent orange-red, or fluorescent red in color; a high-visibility lower garment meeting ANSI/ISEA 107 Class E, and a high visibility hardhat marked with at least 12 square inches of retroreflective material applied to provide 360 degrees of visibility.

1-07.9(5)A Required Documents
(July 8, 2024 APWA GSP)

This section is revised to read as follows:

All Statements of Intent to Pay Prevailing Wages, Affidavits of Wages Paid and Certified Payrolls, including a signed Statement of Compliance for Federal-aid projects, shall be submitted to the Engineer and to the State L&I online Prevailing Wage Intent & Affidavit (PWIA) system. When apprenticeship is a requirement of the contract, include in PWIA all apprentices.

1-07.11(2) Contractual Requirements
(November 25, 2024 APWA GSP)

Delete item 11 of the first paragraph of Section 1-07.11(2).

Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:

(October 3, 2022)
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:

*** See Part Four of these Specifications for Utility Sequence and Constraints Letter***

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:

***

Douglas County Public Utility District
1151 Valley Mall Parkway
East Wenatchee, WA 98802
Attn: Jed Zook 509-884-7191

Douglas County Sewer District
692 Eastmont Avenue
East Wenatchee, WA 98802
Attn: Kurt Hosman 509-884-2484

East Wenatchee Water District
455 6th St. NE
East Wenatchee, WA 98802
Attn: Vince Johnston 509-884-3569

Spectrum – Pacific Northwest Region
1330 N. Miller St
Wenatchee, WA 98801
Attn: Micah Teeters 509-563-4902

Ziply Fiber LLC
320 E. Penny Lane
Wenatchee, WA 98801
Attn: Chesna Kern 509-881-5352

21st ST NE Street Water Association 509-433—4176
373 21st ST NE
East Wenatchee, WA 98802
Attn: Mike Milliken

***

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 4, 2024 APWA GSP)

1-07.18(1) General Requirements

a. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating

of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.

b. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.

c. If any insurance policy is written on a claims-made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

d. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

e. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.

f. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency

g. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.

h. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

i. Under no circumstances shall a wrap up policy be obtained, for either initiating or maintaining coverage, to satisfy insurance requirements for any policy required under this Section. A **"**wrap up policy**"** is defined as an insurance agreement or arrangement under which all the parties working on a specified or designated project are insured under one policy for liability arising out of that specified or designated project**.**

1-07.18(2) Additional Insured

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

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

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

1-07.18(3) Subcontractors

The Contractor shall cause each subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by subcontractors.

The Contractor shall ensure that all subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency evidence of insurance and copies of the additional insured endorsements of each subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

1-07.18(4) Verification of Coverage

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.

4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full and certified copy of that policy is required when the Contractor delivers the signed Contract for the work.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Contractor's maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

$2,000,000	Each Occurrence
$3,000,000	General Aggregate
$3,000,000	Products & Completed Operations Aggregate
$2,000,000	Personal & Advertising Injury each offence
$2,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the

transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

$1,000,000 Combined single limit each accident

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.

1-07.24 Rights of Way

(April 22, 2025 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits unless arrangements for use of private property are made as described below. Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

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

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

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

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority

acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters

(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference

(October 21, 2025 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 review Training or Apprenticeship Plans, when applicable.
5. To discuss FSBE Goals when applicable.
6. To establish normal working hours for the work;
7. To review safety standards and traffic control; and
8. 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.

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 1 (one) 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
(December 30, 2022 APWA GSP, Option A)

Section 1-08.1 is supplemented with the following:

Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these

subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection.

A subcontractor or lower tier subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (WSDOT Form 421-012), and

2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (WSDOT Form 420-004).

The Contractor shall submit to the Engineer a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every subcontractor and lower tier subcontractor's retainage has been released.

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all subcontractors and lower tier subcontractors shall be available and open to similar inspection or audit for the same time period.

1-08.1(7)A Payment Reporting
(November 25, 2024 APWA GSP

Delete this section and replace it with the following:

1-08.1(8)B Clauses Required in Subcontracts of All Tiers
(November 25, 2024 APWA GSP)

Delete item 8 of the second paragraph of Section 1-08.1(8)B.

1-08.1(9) Submittal of Executed Subcontracts
(April 22, 2025 APWA GSP, Option B)

Section 1-08.1(9) content and title are deleted and replaced with the following:

Vacant

1-08.3(2)B Type B Progress Schedule
(January 4, 2024 APWA GSP)

Revise the first paragraph to read:

The Contractor shall submit a preliminary Type B Progress Schedule at or prior to the preconstruction conference. The preliminary Type B Progress Schedule shall comply with all of these requirements and the requirements of Section 1-08.3(2), except that it may be limited to only those activities occurring within the first 60-working days of the project.

Revise the first sentence of the second paragraph to read:
The Contractor shall submit 5 (five) copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the preconstruction conference.

1-08.3(2)D Preliminary Progress Schedules
(January 4, 2024 APWA GSP)

Revise the second paragraph to read:

1. The preliminary progress schedule shall be submitted no later than the preconstruction conference for all Type B and Type C progress schedules.

1-08.4 PROSECUTION OF WORK

Delete this section and replace it with the following:

1-08.4 Notice to Proceed and Prosecution of Work
(July 23, 2015 APWA GSP)

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

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

1-08.5 Time for Completion
(November 25, 2024 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 all partial or whole days the Engineer declares as unworkable The statement will be identified as a Written Determination by the Engineer. If the Contractor does not agree with the Written Determination of working days, the Contractor shall pursue the protest procedures in accordance with Section 1-04.5. By failing to follow the procedures of Section 1-04.5, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

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

1. The physical work on the project must be complete; and

2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:

    a. Certified Payrolls (per Section 1-07.9(5)).

    b. Material Acceptance Certification Documents

    c. Monthly Reports in DMCS of the amounts paid including the final payment confirmation to all firms required by Section 1-08.1(7)A if applicable

    d. Final Contract Voucher Certification

    e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors

    f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This requirement will not apply if the Construction Stormwater General Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).

    g. Property owner releases per Section 1-07.24

Section 1-08.5 is supplemented with the following:

(March 13, 1995)
This project shall be physically completed within *** 80 *** working days.

1-08.9 Liquidated Damages
(March 3, 2021 APWA GSP, Option A)

Replace Section 1-08.9 with the following:

Time is of the essence of the Contract. Delays inconvenience the traveling public, obstruct traffic, interfere with and delay commerce, and increase risk to Highway users. Delays also cost tax payers undue sums of money, adding time needed for administration, engineering, inspection, and supervision.

Accordingly, the Contractor agrees:

1. To pay liquidated damages in the amount of *** **$1,550** *** for each working day beyond the number of working days established for Physical Completion, and

2. To authorize the Engineer to deduct these liquidated damages from any money due or coming due to the Contractor.

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine the Contract 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, liquidated damages identified 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.

Liquidated damages will not be assessed for any days for which an extension of time is granted. No deduction or payment of liquidated damages will, in any degree, release the Contractor from further obligations and liabilities to complete the entire Contract.

1-09 MEASUREMENT AND PAYMENT

1-09.2(1) General Requirements for Weighing Equipment
(November 25, 2024 APWA GSP, Option B)

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 422-027LP, 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.

1-09.2(1) General Requirements for Weighing Equipment
(July 8, 2024.Option C)

Revise the sixth and seventh paragraph to read:

Trucks and Tickets – Each truck to be weighed shall bear a unique identification number. This number shall be legible and in plain view of the scale operator. The Contractor shall provide Electronic tickets or Physical tickets for all weighed materials. All Tickets shall, regardless of medium, at a minimum, contain the following information:

1. Date of haul;
2. Contract number;
3. Contract unit Bid item;
4. Unit of measure;
5. Identification number of hauling vehicle; and
6. Weight delivered:
    a. Net weight in the case of batch and hopper scales.
    b. Gross weight, tare (a.m. and p.m. minimum) and net weight in the case of platform scales (tare may be omitted if a tare beam is used).
    c. Approximate load out weight in the case of belt conveyor scales.

Electronic-tickets shall be uploaded to the designated site so that they can be accessed by the material receiver at the material delivery point. Physical tickets shall be handed to the inspector at the delivery point at the time materials are delivered. The material delivery point is defined as the location where the material is incorporated into the permanent Work. The Contractor's representative shall make report summaries available to the Engineer's designated receiver, not later than the end of shift, for reconciliation. Tickets for loads not verified as delivered will receive no pay.

1-09.2(5) Measurement
(December 30, 2022 APWA GSP)

Revise the first paragraph to read:

Scale Verification Checks – At the Engineer's discretion, the Engineer may perform verification checks on the accuracy of each batch, hopper, or platform scale used in weighing contract items of Work.

1-09.6 Force Account
(December 30, 2022 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 the Engineer.

1-09.9 Payments
(July 8, 2024 APWA GSP, Option A)

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than $20,000.

1-09.9 Payments
(July 8, 2024, APWA GSP, Option B)

Delete the fourth paragraph and replace it with the following:

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

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payment. The progress estimates are subject to change at any time prior to the calculation of the Final Payment.

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

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

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

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

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

1-09.11(3) Time Limitation and Jurisdiction
(December 30, 2022 APWA GSP)

Revise this section to read*:*

For the convenience of the parties to the Contract it is mutually agreed by the parties that all claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that all such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to all such claims or causes of action. It is further mutually agreed by the parties that when claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to all records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-09.13(3)A Arbitration General
(January 19, 2022 APWA GSP)

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

1-09.13(4) Venue for Litigation
(December 30, 2022 APWA GSP)

Revise this section to read:

Litigation shall be brought in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. It is mutually agreed by the parties that when litigation occurs, the Contractor shall permit the Contracting Agency to have timely access to all records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

1-10 TEMPORARY TRAFFIC CONTROL

(******)

Description

Section 1-10.1(2) is supplemented with the following:

The Contractor shall maintain local access to 21st St NE for the duration of the project.

Traffic Control Management

General

Section 1-10.2(1) is supplemented with the following:

(October 3, 2022)
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
https://www.nwlett.edu

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778
https://www.esc.org

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
https://atssa.com/training

Integrity Safety
13912 NE 20th Ave.
Vancouver, WA 98686
(360) 574-6071
https://www.integritysafety.com

US Safety Alliance
(904) 705-5660
https://www.ussafetyalliance.com

K&D Services Inc.
2719 Rockefeller Ave.
Everett, WA 98201

(800) 343-4049
https://www.kndservices.net

(January 5, 2015)
The primary TCS shall have a minimum of 500 hours of experience providing traffic control as a TCS or traffic control labor on multilane highways with a speed limit of 55 mph or greater. The Contractor shall submit a certification of the TCS's experience with the TCS designation. Documentation of experience shall be available upon request by the Engineer.

Section 1-10.2(1)A is supplemented with the following:

The Contractor shall coordinate with the following during the life of the project announcing any road restrictions or closures:

***

- Douglas County Sheriff's Office (509)-884-1535
- Douglas County Fire Protection District 4 (509)-782-2941
- Douglas County Fire Protection District 5 (509)-683-1114
- Rivercom (911 Dispatch) (509)-663-9911
- Ballard Ambulance (509)-662-5111
- Lifeline Ambulance (509)-884-7237
- Waste Management (509)-662-4591
- Wenatchee World (509)-663-5161
- NCWLIFE (509)-888-2020

1-10.4 Measurement

1-10.4(3) Reinstating Unit Items with Lump Sum Traffic Control

The first sentence in the first paragraph of Section 1-10.4(3) is revised to read:

(March 20, 2025)
Use in all projects with the lump sum bid item "Project Temporary Traffic Control".

1-10.5 Payment

1-10.5(1) Lump Sum Bid for Project (No Unit Items)

In Section 1-10.5(1), the paragraph following the bid item "Project Temporary Traffic Control", lump sum is revised to read:

(November 4, 2024)
The lump sum Contract payment shall be full compensation for all costs incurred by the Contractor in performing the Contract Work defined in Section 1-10 except for costs compensated by Bid Proposal items reinstated as described in Section 1-10.5(3).

Division 2
Earthwork

Removal of Structures and Obstructions

Construction Requirements

Section 2-02.3 is supplemented with the following:

Removal of Obstructions

This work shall consist of removing and disposing of, or salvaging, various existing improvements within the construction limits shown on the plans; including, but not limited to:

1. Concrete Retaining Wall – 5 L.F.
   Sawcut and remove existing concrete retaining wall at Sinclair property. (See Contract Plan sheet C5)

2. Residential deck – 95 S.F.

Sawcut decking from Sta. A6+50 Off. 25.00 LT along existing 2”x10” wood joist and remove existing decking, joists and posts in the area noted on the Plans. Contractor shall take care not to damage adjacent building or property. Damage resulting from the Contractors operations or negligence shall be repaired at the Contractors own expense.

3. Catch Basin – 4 Each

Remove existing Catch Basin at STA 7+37, Off. 21.5 RT and plug existing pipe per WSDOT Standard Spec 7-08.3(4)

Remove existing Catch Basin at STA 1+54, Off. 16.8 LT

Remove existing Catch Basin at STA 1+81, Off. 17.0, LT

Remove existing Catch Basin at STA 2+33, Off. 18.0 LT

4. 18” Storm Sewer Pipe – 28 L.F.
Remove existing pipe between STA 1+54 and STA 1+82 LT

5. Signs – 5 Each
Remove all existing traffic signs within project limits, and stop sign on the SE corner of N Devon Ave and 21st St NE.

6. Frame and Grate – 1 each
Remove existing frame and grate from catch basin at STA 0+41, Off. 33.7’ LT. Replace with solid metal cover per Standard Plan B-30.20. HMA shall be placed over sealed catch basin.

Division 5
Surface Treatments and Pavements

5-04 HOT MIX ASPHALT
(January 31, 2023 APWA GSP)

Delete Section 5-04, Hot Mix Asphalt, and replace it with the following:

5-04.1 Description

This Work shall consist of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA) on a prepared foundation or base in accordance with these Specifications and the lines, grades, thicknesses, and typical cross-sections shown in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these Specifications. WMA processes include organic additives, chemical additives, and foaming.

HMA shall be composed of asphalt binder and mineral materials as may be required, mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.

5-04.2 Materials

Materials shall meet the requirements of the following sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
HMA Additive	9-02.5
Aggregates	9-03.8
Recycled Asphalt Pavement (RAP)	9-03.8(3)B, 9-03.21
Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B, 9-03.21
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21

The Contract documents may establish that the various mineral materials required for the manufacture of HMA will be furnished in whole or in part by the Contracting Agency. If the documents do not establish the furnishing of any of these mineral materials by the Contracting Agency, the Contractor shall be required to furnish such materials in the amounts required for the designated mix. Mineral materials include coarse and fine aggregates, and mineral filler.

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

The Contractor may use up to 20 percent RAP by total weight of HMA with no additional sampling or testing of the RAP.

If the Contractor wishes to utilize High RAP/Any RAS, the design must be listed on the WSDOT Qualified Products List (QPL).

The grade of asphalt binder shall be as required by the Contract. Blending of asphalt binder from different sources is not permitted.

The Contractor may only use warm mix asphalt (WMA) processes in the production of HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to the Engineer for approval the process that is proposed and how it will be used in the manufacture of HMA.

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

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

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

If the Contractor wishes to submit a mix design for inclusion in the Qualified Products List (QPL), please follow the WSDOT process outlined in Standard Specification 5-04.2(1).

5-04.2(1)A Vacant

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

No paving shall begin prior to the approval of the mix design by the Engineer.

Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the Contract documents.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Project Engineer. The Proposal quantity of HMA that is accepted by commercial evaluation will be excluded from the quantities used in the determination of nonstatistical evaluation.

Nonstatistical Mix Design. Fifteen days prior to the first day of paving the Contractor shall provide one of the following mix design verification certifications for Contracting Agency review;

- The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & signature) of a valid licensed Washington State Professional Engineer.

- The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.

The mix design shall be performed by a lab accredited by a national authority such as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply evidence of participation in the AASHTO: resource proficiency sample program.

Mix designs for HMA accepted by Nonstatistical evaluation shall:

- Be designed for ***$$0.3 to <3$$*** million equivalent single axle loads (ESALs).
- Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and 9-03.8(6).
- Have anti-strip requirements, if any, for the proposed mix design determined in accordance with AASHTO T 283 or T 324 or based on historic anti-strip and aggregate source compatibility from previous WSDOT lab testing.

At the discretion of the Engineer, agencies may accept verified mix designs older than 12 months from the original verification date with a certification from the Contractor that the materials and sources are the same as those shown on the original mix design.

Commercial Evaluation Mix Design. Approval of a mix design for "Commercial Evaluation" will be based on a review of the Contractor's submittal of WSDOT Form 350-042 (for commercial mixes, AASHTO T 324 evaluation is not required) or a Mix Design from the current WSDOT QPL or from one of the processes allowed by this section. Testing of the HMA by the Contracting Agency for mix design approval is not required.

For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and design level of ESALs appropriate for the required use.

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

The Contractor may elect to use additives that reduce the optimum mixing temperature or serve as a compaction aid for producing HMA. Additives include organic additives, chemical additives and foaming processes. The use of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature more than allowed in Section 5-04.3(6) in the production of mixtures.
- Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

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

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

Minimum Surface Temperature for Paving

Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to .20	45°F	35°F
More than 0.20	35°F	35°F

5-04.3(2) Paving Under Traffic

When the Roadway being paved is open to traffic, the requirements of this Section shall apply.

The Contractor shall keep intersections open to traffic at all times except when paving the intersection or paving across the intersection. During such time, and provided that there has been an advance warning to the public, the intersection may be closed for the minimum time required to place and compact the mixture. In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

Before closing an intersection, advance warning signs shall be placed, and signs shall also be placed marking the detour or alternate route.

During paving operations, temporary pavement markings shall be maintained throughout the project. Temporary pavement markings shall be installed on the Roadway prior to opening to traffic. Temporary pavement markings shall be in accordance with Section 8-23.

All costs in connection with performing the Work in accordance with these requirements, except the cost of temporary pavement markings, shall be included in the unit Contract prices for the various Bid items involved in the Contract.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant
Plants used for the preparation of HMA shall conform to the following requirements:

1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.

2. **Thermometric Equipment** – An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall also be equipped with an approved dial-scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates. This device shall be in full view of the plant operator.

3. **Heating of Asphalt Binder** – The temperature of the asphalt binder shall not exceed the maximum recommended by the asphalt binder manufacturer nor shall it be below the minimum temperature required to maintain the asphalt binder in a homogeneous state. The asphalt binder shall be heated in a manner that will avoid local variations in heating. The heating method shall provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F. Also, when a WMA additive is included in the asphalt binder, the temperature of the asphalt binder shall not exceed the maximum recommended by the manufacturer of the WMA additive.

4. **Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped with a mechanical sampler for the sampling of the mineral materials. The mechanical sampler shall meet the requirements of Section 1-05.6 for the crushing and screening operation. The Contractor shall provide for the setup and operation of the field-testing facilities of the Contracting Agency as provided for in Section 3-01.2(2).

5. **Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the following methods:

    a. A mechanical sampling device attached to the HMA plant.

    b. Platforms or devices to enable sampling from the hauling vehicle without entering the hauling vehicle.

5-04.3(3)B Hauling Equipment

Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a cover of canvas or other suitable material of sufficient size to protect the mixture from adverse weather. Whenever the weather conditions during the work shift include, or are forecast to include precipitation or an air temperature less than 45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect the HMA.

The Contractor shall provide an environmentally benign means to prevent the HMA mixture from adhering to the hauling equipment. Excess release agent shall be drained prior to filling hauling equipment with HMA. Petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA shall not be used. For live bed trucks, the conveyer shall be in operation during the process of applying the release agent.

5-04.3(3)C Pavers

HMA pavers shall be self-contained, power-propelled units, provided with an internally heated vibratory screed and shall be capable of spreading and finishing courses of HMA plant mix material in lane widths required by the paving section shown in the Plans.

The HMA paver shall be in good condition and shall have the most current equipment available from the manufacturer for the prevention of segregation of the HMA mixture installed, in good condition, and in working order. The equipment certification shall list the make, model, and year of the paver and any equipment that has been retrofitted.

The screed shall be operated in accordance with the manufacturer's recommendations and shall effectively produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. A copy of the manufacturer's recommendations shall be provided upon request by the Contracting Agency. Extensions will be allowed provided they produce the same results, including ride, density, and surface texture as obtained by the primary screed. Extensions without augers and an internally heated vibratory screed shall not be used in the Traveled Way.

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

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

If the paving machine in use is not providing the required finish, the Engineer may suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled on the pavement shall be thoroughly removed before paving proceeds.

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

A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's approval, unless otherwise required by the Contract.

Where an MTD/V is required by the Contract, the Engineer may approve paving without an MTD/V, at the request of the Contractor. The Engineer will determine if an equitable adjustment in cost or time is due.

When used, the MTD/V shall mix the HMA after delivery by the hauling equipment and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform

temperature throughout the mixture. If a windrow elevator is used, the length of the windrow may be limited in urban areas or through intersections, at the discretion of the Engineer.

To be approved for use, an MTV:

1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.

2. Shall not be connected to the hauling vehicle or paver.

3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.

5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.

2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.

4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

Rollers shall be of the steel wheel, vibratory, oscillatory, or pneumatic tire type, in good condition and capable of reversing without backlash. Operation of the roller shall be in accordance with the manufacturer's recommendations. When ordered by the Engineer for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.

5-04.3(4) Preparation of Existing Paved Surfaces

When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a uniform grade and cross-section as shown on the Plans or approved by the Engineer.

Preleveling of uneven or broken surfaces over which HMA is to be placed may be accomplished by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to avoid bridging across preleveled areas by the compaction equipment. Equipment used for the compaction of preleveling HMA shall be approved by the Engineer.

Before construction of HMA on an existing paved surface, the entire surface of the pavement shall be clean. All fatty asphalt patches, grease drippings, and other objectionable matter shall be entirely removed from the existing pavement. All pavements or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. All holes and small depressions shall be filled with an appropriate class of HMA. The surface of the patched area shall be leveled and compacted thoroughly. Prior to the application of tack coat, or paving, the condition of the surface shall be approved by the Engineer.

A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA is to be placed or abutted; except that tack coat may be omitted from clean, newly paved surfaces at the discretion of the Engineer. Tack coat shall be uniformly applied to cover the existing pavement with a thin film of residual asphalt free of streaks and bare spots at a rate between 0.02 and 0.10 gallons per square yard of retained asphalt. The rate of application shall be approved by the Engineer. A heavy application of tack coat shall be applied to all joints. For Roadways open to traffic, the application of tack coat shall be limited to surfaces that will be paved during the same working shift. The spreading equipment shall be equipped with a thermometer to indicate the temperature of the tack coat material.

Equipment shall not operate on tacked surfaces until the tack has broken and cured. If the Contractor's operation damages the tack coat it shall be repaired prior to placement of the HMA.

The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-1h emulsified asphalt may be diluted once with water at a rate not to exceed one-part water to one-part emulsified asphalt. The tack coat shall have sufficient temperature such that it may be applied uniformly at the specified rate of application and shall not exceed the maximum temperature recommended by the emulsified asphalt manufacturer.

5-04.3(4)A Crack Sealing

When the Proposal includes a pay item for crack sealing, seal cracks in accordance with Section 5-03.

5-04.3(4)B Vacant

5-04.3(4)C Pavement Repair

The Contractor shall excavate pavement repair areas and shall backfill these with HMA in accordance with the details shown in the Plans and as marked in the field. The Contractor shall conduct the excavation operations in a manner that will protect the pavement that is to remain. Pavement not designated to be removed that is damaged as a result of the Contractor's operations shall be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency. The Contractor shall excavate only within one lane at a time unless approved otherwise by the Engineer. The

Contractor shall not excavate more area than can be completely finished during the same shift, unless approved by the Engineer.

Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0 feet. The Engineer will make the final determination of the excavation depth required. The minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the Plans. Before any excavation, the existing pavement shall be sawcut or shall be removed by a pavement grinder. Excavated materials will become the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy application of tack coat shall be applied to all surfaces of existing pavement in the pavement repair area.

Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot compacted depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished with the approval of the Engineer. Each lift shall be thoroughly compacted by a mechanical tamper or a roller.

5-04.3(5) Producing/Stockpiling Aggregates and RAP

Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02. Sufficient storage space shall be provided for each size of aggregate and RAP. Materials shall be removed from stockpile(s) in a manner to ensure minimal segregation when being moved to the HMA plant for processing into the final mixture. Different aggregate sizes shall be kept separated until they have been delivered to the HMA plant.

5-04.3(5)A Vacant

5-04.3(6) Mixing

After the required amount of mineral materials, asphalt binder, recycling agent and anti-stripping additives have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials is ensured.

When discharged, the temperature of the HMA shall not exceed the optimum mixing temperature by more than 25°F as shown on the reference mix design report or as approved by the Engineer. Also, when a WMA additive is included in the manufacture of HMA, the discharge temperature of the HMA shall not exceed the maximum recommended by the manufacturer of the WMA additive. A maximum water content of 2 percent in the mix, at discharge, will be allowed providing the water causes no problems with handling, stripping, or flushing. If the water in the HMA causes any of these problems, the moisture content shall be reduced as directed by the Engineer.

Storing or holding of the HMA in approved storage facilities will be permitted with approval of the Engineer, but in no event shall the HMA be held for more than 24 hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be disposed of by the Contractor at no expense to the Contracting Agency. The storage facility shall have an accessible device located at the top of the cone or about the third

point. The device shall indicate the amount of material in storage. No HMA shall be accepted from the storage facility when the HMA in storage is below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift.

Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized prior to entering the mixer so that a uniform and thoroughly mixed HMA is produced. If there is evidence of the recycled asphalt pavement not breaking down during the heating and mixing of the HMA, the Contractor shall immediately suspend the use of the RAP until changes have been approved by the Engineer. After the required amount of mineral materials, RAP, new asphalt binder and asphalt rejuvenator have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials, and RAP is ensured.

5-04.3(7) Spreading and Finishing

The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:

HMA Class 1”		0.35 feet
HMA Class ¾” and HMA Class ½”		
	wearing course	0.30 feet
	other courses	0.35 feet
	HMA Class ⅜”	0.15 feet

On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, the material produced for each JMF shall be placed by separate spreading and compacting equipment. The intermingling of HMA produced from more than one JMF is prohibited. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

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

For HMA accepted by nonstatistical evaluation, the aggregate properties of sand equivalent, uncompacted void content, and fracture will be evaluated in accordance with Section 3-04. Sampling and testing of aggregates for HMA accepted by commercial evaluation will be at the option of the Engineer.

5-04.3(9) HMA Mixture Acceptance

Acceptance of HMA shall be as provided under nonstatistical, or commercial evaluation.

Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial Evaluation is specified.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Engineer.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Engineer and may be made in accordance with this section.

HMA Tolerances and Adjustments

1. **Job Mix Formula Tolerances** – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:

   For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

   For Aggregates in the mixture:

   a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 3.0%

   b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.

2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or asphalt binder content of the JMF requires approval of the Engineer. Adjustments to the JMF will only be considered if the change produces material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.

   a. **Aggregates** –2 percent for the aggregate passing the 1½″, 1″, ¾″, ½″, ⅜″, and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for

the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).

b. **Asphalt Binder Content** – The Engineer may order or approve changes to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent.

5-04.3(9)A Vacant

5-04.3(9)B Vacant

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

HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the Contracting Agency by dividing the HMA tonnage into lots.

5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or 800 tons, whichever is less except that the final sublot will be a minimum of 400 tons and may be increased to 1200 tons.

All of the test results obtained from the acceptance samples from a given lot shall be evaluated collectively. If the Contractor requests a change to the JMF that is approved, the material produced after the change will be evaluated on the basis of the new JMF for the remaining sublots in the current lot and for acceptance of subsequent lots. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

Sampling and testing for evaluation shall be performed on the frequency of one sample per sublot.

5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling

Samples for acceptance testing shall be obtained by the Contractor when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with AASHTO T 168. A minimum of three samples should be taken for each class of HMA placed on a project. If used in a structural application, at least one of the three samples shall be tested.

Sampling and testing HMA in a structural application where quantities are less than 400 tons is at the discretion of the Engineer.

For HMA used in a structural application and with a total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance test shall be performed. In all cases, a minimum of 3 samples will be obtained at the point of acceptance, a minimum of one of the three samples will be tested for conformance to the JMF:

- If the test results are found to be within specification requirements, additional testing will be at the Engineer's discretion.

- If test results are found not to be within specification requirements, additional testing of the remaining samples to determine a CPF shall be performed.

5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing

Testing of HMA for compliance of V_a will at the option of the Contracting Agency. If tested, compliance of V_a will use WSDOT SOP 731.

Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308.

Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.

5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors

For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting Agency will determine a CPF using the following price adjustment factors:

Table of Price Adjustment Factors	
Constituent	**Factor "f"**
All aggregate passing: 1½″, 1″, ¾″, ½″, ⅜″ and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (Va) (where applicable)	20

Each lot of HMA produced under Nonstatistical Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the Roadway shall be tested to provide a minimum of three sets of results for evaluation.

5-04.3(9)C5 Vacant

5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments

For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The total job mix compliance price adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

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

5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests

The Contractor may request a sublot be retested. To request a retest, the Contractor shall submit a written request within 7 calendar days after the specific test results have been received. A split of the original acceptance sample will be retested. The split of the sample will not be tested with the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and, at the option of the agency, V_a. The results of the retest will be used for the acceptance of the HMA in place of the original sublot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of $500 per sample.

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

If sampled and tested, HMA produced under Commercial Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the commercial tolerance limits in the Job Mix Formula shown in 5-04.3(9), the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The commercial tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the street shall be tested to provide a minimum of three sets of results for evaluation.

For each lot of HMA mix produced and tested under Commercial Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

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

5-04.3(10) HMA Compaction Acceptance

HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including lanes for intersections, 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 CPF of not less than 0.75 when evaluated in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density). The maximum density shall be

determined by WSDOT FOP for AASHTO T 729. The specified level of density attained will be determined by the evaluation of the density of the pavement. The density of the pavement shall be determined in accordance with WSDOT FOP for WAQTC TM 8, except that gauge correlation will be at the discretion of the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

Tests for the determination of the pavement density will be taken in accordance with 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 and prior to opening to traffic.

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 minimum, unless otherwise 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.

For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor’s request after the Engineer is satisfied that material conforming to the Specifications can be produced.

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling wheel rutting shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

Test Results

For a sublot that has been tested with a nuclear density gauge that did not meet the minimum of 92 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. The relative density of the core will replace the relative density determined by the nuclear density gauge for the sublot and will be used for calculation of the CPF and acceptance of HMA compaction lot.

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the sublot have been provided or made available to the Contractor. Core locations shall be outside of

wheel paths and as determined by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of $200 per core and the Contractor shall pay for the cost of the traffic control.

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

Compaction shall take place when the mixture is in the proper condition so that no undue displacement, cracking, or shoving occurs. Areas inaccessible to large compaction equipment shall be compacted by other mechanical means. Any HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective, shall be removed and replaced with new hot mix that shall be immediately compacted to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option, provided the specified densities are attained. Unless the Engineer has approved otherwise, rollers shall only be operated in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall not be operated in a mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

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

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

5-04.3(10)C Vacant

5-04.3(10)D HMA Nonstatistical Compaction

5-04.3(10)D1 HMA Nonstatistical Compaction - Lots and Sublots

HMA compaction which is accepted by nonstatistical evaluation will be based on acceptance testing performed by the Contracting Agency dividing the project into compaction lots.

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or 400 tons, whichever is less except that the final sublot will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests per sublot per WSDOT T 738.

The sublot locations within each density lot will be determined by the Engineer. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing

The location of the HMA compaction acceptance tests will be randomly selected by the Engineer from within each sublot, with one test per sublot.

5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments

For each compaction lot with one or two sublots, having all sublots attain a relative density that is 92 percent of the reference maximum density the HMA shall be accepted at the unit Contract price with no further evaluation. When a sublot does not attain a relative density that is 92 percent of the reference maximum density, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by either a nuclear moisture-density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For compaction below the required 92%, a Non-Conforming Compaction Factor (NCCF) will be determined. The NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of CPF, the quantity of HMA in the compaction control lot in tons, and the unit Contract price per ton of mix.

5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

Work that is defective or does not conform to Contract requirements shall be rejected. The Contractor may propose, in writing, alternatives to removal and replacement of rejected material. Acceptability of such alternative proposals will be determined at the sole discretion of the Engineer. HMA that has been rejected is subject to the requirements in Section 1-06.2(2) and this specification, and the Contractor shall submit a corrective action proposal to the Engineer for approval.

5-04.3(11)B Rejection by Contractor

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

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

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

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests that the rejected material be tested. If the Contractor elects to have the rejected material tested, a minimum of three representative samples will be obtained and tested. Acceptance of rejected material will be based on conformance with the nonstatistical acceptance Specification. If the CPF for the rejected material is less than 0.75, no payment will be made for the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the material is rejected before placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at the calculated CPF with an addition of 25 percent of the unit Contract price added for the cost of removal and disposal.

5-04.3(11)D Rejection - A Partial Sublot

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a normal sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. A minimum of three random samples of the suspect material will be obtained and tested. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)E Rejection - An Entire Sublot

An entire sublot that is suspected of being defective may be rejected. When a sublot is rejected a minimum of two additional random samples from this sublot will be obtained. These additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).

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

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

1. When the CPF of a lot in progress drops below 1.00 and the Contractor is taking no corrective action, or

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

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

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

5-04.3(12) Joints

5-04.3(12)A HMA Joints

5-04.3(12)A1 Transverse Joints

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

A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a transverse joint as a result of paving or planing is open to traffic. The HMA in the temporary wedge shall be separated from the permanent HMA by strips of heavy wrapping paper or other methods approved by the Engineer. The wrapping paper shall be removed and the joint trimmed to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

The material that is cut away shall be wasted and new mix shall be laid against the cut. Rollers or tamping irons shall be used to seal the joint.

5-04.3(12)A2 Longitudinal Joints

The longitudinal joint in any one course shall be offset from the course immediately below by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the wearing course shall be located at a lane line or an edge line of the Traveled Way. A notched wedge joint shall be constructed along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size or more than ½ of the compacted lift thickness and then taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

5-04.3(12)B Bridge Paving Joint Seals

Bridge Paving Joint Seals shall be in accordance with Section 5-03.

5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than ⅛ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.

When deviations in excess of the above tolerances are found that result from a high place in the HMA, the pavement surface shall be corrected by one of the following methods:

1. Removal of material from high places by grinding with an approved grinding machine, or

2. Removal and replacement of the wearing course of HMA, or

3. By other method approved by the Engineer.

Correction of defects shall be carried out until there are no deviations anywhere greater than the allowable tolerances.

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

When utility appurtenances such as manhole covers and valve boxes are located in the traveled way, the utility appurtenances shall be adjusted to the finished grade prior to paving. This requirement may be waived when requested by the Contractor, at the discretion of the Engineer or when the adjustment details provided in the project plan or specifications call for utility appurtenance adjustments after the completion of paving.

Utility appurtenance adjustment discussions will be included in the Pre-Paving and Pre-Planing Briefing (5-04.3(14)B3). Submit a written request to waive this requirement to the Engineer prior to the start of paving.

5-04.3(14) Planing Bituminous Pavement

The planing plan must be approved by the Engineer and a pre-planing meeting must be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on planing submittals.

Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove irregularities. The finished product must be a prepared surface acceptable for receiving an HMA overlay.

Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the planer on the final wearing course of new HMA.

Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the surface which is to remain. The finished planed surface must be slightly grooved or roughened and must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair any damage to the surface by the Contractor's planing equipment, using an Engineer approved method.

Repair or replace any metal castings and other surface improvements damaged by planing, as determined by the Engineer.

A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions of the wedge must be as shown on the Drawings or as specified by the Engineer.

A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2 inches or more in height, producing a smooth transition to the existing adjoining pavement.

After planing is complete, planed surfaces must be swept, cleaned, and if required by the Contract, patched and preleveled.

The Engineer may direct additional depth planing. Before performing this additional depth planing, the Contractor must conduct a hidden metal in pavement detection survey as specified in Section 5-04.3(14)A.

5-04.3(14)A Pre-Planing Metal Detection Check

Before starting planing of pavements, and before any additional depth planing required by the Engineer, the Contractor must conduct a physical survey of existing pavement to be planed with equipment that can identify hidden metal objects.

Should such metal be identified, promptly notify the Engineer.

See Section 1-07.16(1) regarding the protection of survey monumentation that may be hidden in pavement.

The Contractor is solely responsible for any damage to equipment resulting from the Contractor's failure to conduct a pre-planing metal detection survey, or from the Contractor's failure to notify the Engineer of any hidden metal that is detected.

5-04.3(14)B Paving and Planing Under Traffic

5-04.3(14)B1 General

In addition, the requirements of Section 1-07.23 and the traffic controls required in Section 1-10, and unless the Contract specifies otherwise or the Engineer approves, the Contractor must comply with the following:

1. Intersections:

a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).

b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into quarters of the intersection, or half or more of an intersection with side street detours. Be prepared to sequence the work to individual lanes or portions thereof.

c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.

d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.

e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.

2. Temporary centerline marking, post-paving temporary marking, temporary stop bars, and maintaining temporary pavement marking must comply with Section 8-23.

3. Permanent pavement marking must comply with Section 8-22.

5-04.3(14)B2 Submittals - Planing Plan and HMA Paving Plan

The Contractor must submit a separate planing plan and a separate paving plan to the Engineer at least 5 Working Days in advance of each operation's activity start date. These plans must show how the moving operation and traffic control are coordinated, as they will be discussed at the pre-planing briefing and pre-paving briefing. When requested by the Engineer, the Contractor must provide each operation's traffic control plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of operation and sufficient detail of traffic beyond the area of operation where detour traffic may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient detail is shown.

The planing operation and the paving operation include, but are not limited to, metal detection, removal of asphalt and temporary asphalt of any kind, tack coat and drying, staging of supply trucks, paving trains, rolling, scheduling, and as may be discussed at the briefing.

When intersections will be partially or totally blocked, provide adequately sized and noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in advance. The traffic control plan must show where police officers will be stationed when signalization is or may be, countermanded, and show areas where flaggers are proposed.

At a minimum, the planing and the paving plan must include:

1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's traffic control as it relates to the specific requirements of that day's planing and paving. Briefly describe the sequencing of traffic control consistent with the proposed planing and paving sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.

2. A copy of each intersection's traffic control plan.

3. Haul routes from supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.

4. Names and locations of HMA supplier facilities to be used.

5. List of all equipment to be used for paving.

6. List of personnel and associated job classification assigned to each piece of paving equipment.

7. Description (geometric or narrative) of the scheduled sequence of planing and of paving and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.

8. Names, job titles, and contact information for field, office, and plant supervisory personnel.

9. A copy of the approved Mix Designs.

10. Tonnage of HMA to be placed each day.

11. Approximate times and days for starting and ending daily operations.

5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing

At least 2 Working Days before the first paving operation and the first planing operation, or as scheduled by the Engineer for future paving and planing operations to ensure the Contractor has adequately prepared for notifying and coordinating as required in the Contract, the Contractor must be prepared to discuss that day's operations as they relate to other entities and to public safety and convenience, including driveway and

business access, garbage truck operations, transit operations and working around energized overhead wires, school and nursing home and hospital and other accesses, other Contractors who may be operating in the area, pedestrian and bicycle traffic, and emergency services. The Contractor, and Subcontractors that may be part of that day's operations, must meet with the Engineer and discuss the proposed operation as it relates to the submitted planing plan and paving plan, approved traffic control plan, and public convenience and safety. Such discussion includes, but is not limited to:

1. General for both the Paving and Planing:

   a. The actual times of starting and ending daily operations.

   b. In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.

   c. The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, public convenience and safety, and other Contractors who may operate in the Project limits.

   d. Notifications required of Contractor activities and coordinating with other entities and the public as necessary.

   e. Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and paving.

   f. Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed.

   g. Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, streetcar rail, and castings, before planing as per Section 5-04.3(14)B2.

   h. Description of how flaggers will be coordinated with the planing, paving, and related operations.

   i. Description of sequencing of traffic controls for the process of rigid pavement base repairs.

   j. Other items the Engineer deems necessary to address.

2. Paving – additional topics:

   a. When to start applying tack and coordinating with paving.

   b. Types of equipment and numbers of each type of equipment to be used. If more pieces of equipment than personnel are proposed, describe the sequencing of the personnel operating the types of equipment. Discuss the continuance of operator personnel for each type of equipment as it relates to meeting Specification requirements.

c. Number of JMFs to be placed, and if more than one JMF is used, how the Contractor will ensure different JMFs are distinguished, how pavers and how MTVs are distinguished, and how pavers and MTVs are cleaned so that one JMF does not adversely influence the other JMF.

d. Description of contingency plans for that day's operations such as equipment breakdown, rain out, and supplier shutdown of operations.

e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

5-04.3(15) Sealing Pavement Surfaces

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

5-04.3(16) HMA Road Approaches

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

5-04.4 Measurement

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

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

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

Planing bituminous pavement will be measured by the square yard.

5-04.5 Payment

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

"HMA Cl. ___ PG ___", per ton.
"HMA for Approach Cl. ___ PG ___", per ton.
"HMA for Preleveling Cl. ___ PG ___", per ton.
"HMA for Pavement Repair Cl. ___ PG ___", per ton.
"Commercial HMA", per ton.

The unit Contract price per ton for "HMA Cl. ___ PG ___", "HMA for Approach Cl. ___ PG ___", "HMA for Preleveling Cl. ___ PG ___", "HMA for Pavement Repair Cl. ___ PG ___", and "Commercial HMA" shall be full compensation for all costs, including anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those

costs included in other items which are included in this Subsection and which are included in the Proposal.

“Pavement Repair Excavation Incl. Haul”, per square yard.

The unit Contract price per square yard for “Pavement Repair Excavation Incl. Haul” shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4) with the exception, however, that all costs involved in the placement of HMA shall be included in the unit Contract price per ton for “HMA for Pavement Repair Cl. ___ PG ___”, per ton.

“Asphalt for Prime Coat”, per ton.

The unit Contract price per ton for “Asphalt for Prime Coat” shall be full payment for all costs incurred to obtain, provide and install the material in accordance with Section 5-04.3(4).

“Prime Coat Agg.”, per cubic yard, or per ton.

The unit Contract price per cubic yard or per ton for “Prime Coat Agg.” shall be full pay for furnishing, loading, and hauling aggregate to the place of deposit and spreading the aggregate in the quantities required by the Engineer.

“Planing Bituminous Pavement”, per square yard.

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

“Job Mix Compliance Price Adjustment”, by calculation.

“Job Mix Compliance Price Adjustment” will be calculated and paid for as described in Section 5-04.3(9)C6.

“Compaction Price Adjustment”, by calculation.

“Compaction Price Adjustment” will be calculated and paid for as described in Section 5-04.3(10)D3.

“Roadway Core”, per each.

The Contractor’s costs for all Work associated with the coring (e.g., traffic control) shall be incidental and included in the unit Bid price per each.

“Cyclic Density Price Adjustment”, by calculation.

“Cyclic Density Price Adjustment” will be calculated and paid for as described in Section 5-04.3(10)B.

(*****)
5-05 Cement Concrete Pavement

5-05.5 Payment

Supplement this section with the following:

All costs to furnish and install St. Reinf. Bar and all costs for drilling holes, applying epoxy and installing control joints as shown in the plans, shall be included in the unit contract price for cubic yard for “Cement Conc. Pavement”.

Division 7
Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains and Conduits

7-04 STORM SEWERS

7-04.3 Construction Requirements
Add the following section:

(******)

7-04.3(3) Connection to Existing Storm Sewers

Cut existing 18” storm sewer pipe as necessary to install new 72” Type 2 Catch Basin (CB#1). When installing Catch Basin, place the necessary length of new Corrugated Polyethylene Storm Sewer Pipe to make connection to new Structure. Ensure the joint between the existing and new pipe is downstream of the structure. Provide pipe, fittings and appurtenances necessary to make all new connections from new structure and existing storm sewer piping.

(******)

7-04.4 Measurement
Supplement this section with the following:

Connection to Existing Drainage System, will be measured per each.

(******)

7-04.5 Payment
Supplement this section with the following:

“Connection to Existing Drainage System”, each.

All costs with connecting to an existing drainage system in accordance with Section 7-04.3(3) shall be included in the unit contract price for “Connection to Existing Drainage System” per each.

7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS

7-05.2 Materials
Supplement this section with the following

Douglas County Sewer District shall supply the Contractor with six (6) new manhole frame and covers for installation during sewer manhole adjustments. Contractor shall be responsible for obtaining the frame and covers from the District and delivering them to the project site. The frames and covers will need picked up at the Douglas County Sewer District's Wastewater Treatment Plant located at 1050 Sunset Highway, East Wenatchee, WA, 98802. All costs for pickup and delivery to site shall be incidental to the manhole adjustment bid items.

7-05.3 Construction Requirements

7-05.3(1) Adjusting Manholes and Catch Basins to Grade
Supplement this section with the following.

Existing manholes shall be temporarily lowered when necessary to allow for the construction of other improvements where called out in the plans. Once other work is complete, the structures shall be adjusted to final grade. Manhole adjustment shall be in accordance with the Plans and with Douglas County Sewer District standard details.

7-05.5 Payment
Supplement this section with the following.

"Adjust Manhole", per each, shall include all adjustment items including providing the concrete collar and restoration as shown on the detail in the plans. Each structure, no matter how many times adjusted, shall be considered "one" adjustment for payment quantities.

"Special Manhole Adjustment - ___ ", lump sum

The lump sum Contract price for "Special Manhole Adjustment - ___" shall be full pay for all work and materials required to complete the adjustments shown or described on the plans for the applicable manhole, including excavation, modifications to manhole structure, backfill, and final adjustment to finished grade.

Manhole frame and covers will be supplied by the Douglas County Sewer District at no cost to the Contractor.

7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.1 Description
Supplement this section with the following.

This section applies to domestic water except where superseded by Sections 7-09 through 7-19.

7-08.3 Construction Requirements
Supplement this section with the following.

Provide pipe, fittings and appurtenances necessary to make all piping systems complete, tested, and ready for operation as specified herein and as shown on the Contract Drawings. Some fittings that are necessary for proper piping system installation and operation may not have been shown. Provide fittings and appurtenances as necessary, whether shown or not shown on the Contract Drawings, to complete all piping systems. Not all temporary equipment, thrust blocking, and tie rods are shown on the Contract Drawings. Provide temporary equipment, thrust blocking, and tie rods as required by accepted design criteria and to support and restrain the loads encountered. Threaded materials shall be screwed together with an application of approved sealing compound applied to all male threads. Once a joint has been tightened, it shall not be backed off unless threads are re-cleaned and new sealing compound applied.

7-08.3(1) Excavation and Preparation of Trench
Supplement this section with the following.

Dispose of debris resulting from the clearing and grubbing in accordance with the terms of all applicable permits.

Boulders, rocks, roots, and other obstructions shall be entirely removed or cut out to the width of the trench and to a depth at least 4 inches below the bottom of the pipe to provide adequate bedding. The trench shall be kept free from water until complete. Surface water, nuisance flows, and stormwater runoff shall be diverted so as not to enter the trench. Maintain necessary pumping equipment on the job to ensure that these provisions are carried out.

Where material is removed from below subgrade, the trench shall be backfilled to grade with material satisfactory to the Engineer and thoroughly compacted to 95% of maximum dry density within +/- 2% of optimum moisture content as defined by ASTM D1557. Compaction testing shall be performed, at a minimum of one (1) per 500 linear feet of trench per 2 feet of backfill and not less than one (1) per day's work when backfilling operations are under way unless approved by the Engineer.

Trenching operation shall not proceed more than 200 feet in advance of pipe laying without written approval of the Owner.

When trenching operations cut through asphalt or concrete pavement, the pavement shall be saw cut and removed to a clean edge along the width of the trench as approved by the Owner. Pulverizing to a base course or smaller aggregate size may be allowed for the initial surfacing removal at the discretion of the Owner, but only if the pulverizing leaves a uniform pavement edge.

The Contractor is responsible for meeting current Labor and Industry Trench and Shoring Protection and Washington State Safety Standards.

Additional surface restoration or import fill material required because of insufficient shoring, operating equipment too close to the trench edge, or other causes, as the Owner deems were reasonably avoidable, are incidental and the quantities required will

be deducted from the final total quantities when the contract includes applicable unit bid prices, or are incidental if the contract does not include applicable unit bid prices.

7-08.3(1)A Trenches
Supplement this section with the following.

To reduce restoration of the same areas multiple times, removal of existing surface improvements in advance of trenching shall be kept to a minimum. No extra payment will be made for any duplicated work performed more than 20 feet in advance of pipelaying.

If there is excess of material obtained from excavation at one location on the project and is acceptable (as determined by the Engineer) for reuse as bedding, backfill, or general fill, it shall be stockpiled and reused at other locations on the project. Disposal of reusable material is only allowed with the permission of the Engineer. The cost of haul and disposal of this material is incidental to the project.

All excavation required for utility installation, including removal of asphalt and concrete, shall be included in the costs of the utility bid item unless specifically identified in other bid items. Dispose the asphalt, concrete, and other waste at no expense to the Contracting Agency.

7-08.3(1)C Bedding the Pipe
Supplement this section with the following.

Pipe bedding shall be tested for compaction at intervals subject to the discretion of the Engineer. Use the following procedure to test bedding compaction:

- Place bedding in a trench or pit without pipe
- Place in layers and compact using the same methods as pipelaying.
- Test bedding at each 12-inch depth placed until top layer matches pipe installation bedding level.
- Adjust methods until compaction requirements are met. Install bedding in utility trench using these methods.

7-08.3(1)D Potholing
This section is new.

Pothole at utility crossings a sufficient distance ahead of pipe-laying and where noted on the plans to allow room to adjust to avoid existing utilities. Pothole at least three working days in advance of utility installation. Failure to pothole identified utility crossings per these specifications shall not be cause for cost or time claim for subsequent adjustments. If a pothole is in a travelled area that will be reopened to traffic more than one calendar day in advance of pipelaying, the hole shall be patched with hot or cold mix, the cost of which shall be incidental.

Provide the results of potholing to the Owner no less than two working days in advance of utility installation. Provide a written record of material, size, type, and location for found utilities to an accuracy of 0.5 ft horizontal and 0.1 ft vertical. Failure to record locations accurately, clearly, and legibly will result in non-payment.

7-08.3(1)F Handling of Pipe
This section is new:

Pipe, materials, and accessories shall be new, unused, and undamaged at the time of installation. Deliver pipe to the trench in sound, undamaged condition. Do not drop, drag, skid, or roll pipes against any hard objects, including other pipes. Prevent damage to any pipe markings. Place no other pipe or material of any kind inside the pipe or fitting.

Damaged, out-of-round, or sun-bleached pipe will be rejected, be immediately removed from the jobsite by the Contractor, and not be used on the project as part of the Work.

Prevent dirt and other foreign material from entering the pipe or fittings during handling or laying operations. Thoroughly clean the interior of the pipe of dirt or foreign matter before lowering the pipe into the trench.

7-08.3(2)B Pipe Laying - General
Supplement this section with the following.

Keep openings in pipe closed during the progress of work. Install plugs to prevent water and debris from entering pipe. No payment will be made to clean pipes.

Install tracer wire and marking tape per the plans and standard details.

Install marker tape located 12 to 18 inches above all water services and mainlines. Tape color and labeling shall be as appropriate for the type of utility.

Horizontal pipe alignment shall be within 0.5 ft of that shown on the plans. For pressure pipe, vertical pipe alignment shall be within 0.2 ft of that shown on the plans. Regardless of vertical tolerance, do not create new pressure pipe high points not otherwise shown on the plans.

7-08.3(2)K Restrained Joint Pipe Installation
This section is new.

All bends, tees, and crosses that utilize restrained joints shall be restrained on all legs. Set-screw style restraints are not allowed.

Bedding material must consist of sand and gravels for proper soil-to-pipe adhesion and shall not be clay, pea gravel, washed rock, or poorly graded large aggregate. Compact bedding around restrained pipe in maximum 9-inch loose (approx. 6-inch compacted) lifts using mechanical compaction equipment.

Owner may review and approve silty sand as bedding material at the request of the Contractor. If approved, the required length of restrained joint pipe shall be increased by **33-percent** over that calculated using sand and gravel mixtures, unless the restrained lengths shown already considered silty sand (or sandy silt) bedding or specifically identify other length adjustments.

Initial setting of exterior wedge (tooth) style restraints may use any commonly used hand or power tools until the wedge touches the pipe surface, after which non-power tools must be used. Impact tools are not allowed for wedge engagement and final torquing.

If external wedge (tooth) style restraints on metal pipe are removed for any reason after the restraints have been engaged, the restraints shall be disposed of and not reused. The section of pipe to which the restraints were secured shall be cut off and disposed of regardless of pipe material.

7-08.3(3) Backfilling
Supplement this section with the following.

The Standard Specification requires backfill above the pipe zone in lifts not exceeding 6-inch loose thickness. At the Owner's sole discretion, lifts may be thicker if compaction testing proves the compaction requirements are met. However, in no circumstances will lifts exceeding 12-inch loose thickness be permitted.

Equipment mounted compactors (hoe-pack, sheepsfoot, vibratory rollers, etc.) shall not be used within 12-inches directly above the pipe.

Backfill only after inspection and approval of the installed pipe. Carefully place backfill material in strict accordance with this section of the Standard Specifications. The use of native material for backfill shall obtain approval from the Engineer prior to backfilling.

Import of approved material to replace excavated material that is not suitable for backfill shall be incidental to the project.

Screen native materials excavated for reuse as trench backfill. Provide screen to remove all material larger than 6-inch. Cost to screen material is incidental, no separate payment. Haul and dispose of unsuitable screened material and replace with bank run gravel for trench backfill.

7-08.3(4) Plugging Existing Pipe
Supplement this section with the following.

All existing non-functional pipes 3-inch and larger, regardless of original purpose, cut or broken during the course of construction shall be plugged.

7-08.3(5) Pipe Crossing Existing Utilities
This section is new.

Where a pipe crosses an existing utility with less than 6-inches of clearance, a sand or foam cushion acceptable to the engineer shall be placed between the utilities. This work shall be included in the various contract bid prices, no separate payment will be made.

7-08.3(6) Existing Unlocated Wet Utilities
This section is new:

Avoidance or repair of utilities that are within 2 feet horizontal of that shown on the plans shall be included in the Contractor's bid price. The Owner will not pay for multiple repairs

within 30 feet of each other on an unlocated pipe if the pipe runs straight. Should the new work be filled or contaminated from a line break due to failure of the Contractor to use a pipe plug, no payment will be made for cleaning of the new work. Should an existing utility be damaged, the Contractor shall immediately stop work and notify the Owner and affected property owner(s). The Contractor shall pump out any fluid that has accumulated in the trench and, if necessary, remove saturated material and replace with suitable fill. All costs to find and re-locate previously broken lines shall be at the Contractor's expense.

The Contractor shall have a dewatering pump available at all times to clear the trench should an existing wet utility be damaged.

There are existing customer side sewer lines throughout the project limits. For the purposes of bidding, the Contractor shall assume that sewer conflicts are inevitable, and repairs will be necessary. The Contractor shall have on hand a set of standard repair fittings for 4-inch to 6-inch pipe, compliant with Douglas County Sewer District standards. The Contractor shall repair all damaged pipes prior to continuing work beyond the area damaged, no exceptions (unless sufficient crew is available to perform the repair concurrent with other work). Repair work shall continue until complete regardless of the day of the week or the time of day.

There are existing irrigation lines throughout the project limits. The Contractor shall contact adjacent property owners to determine locations of existing irrigation systems within the construction area and shutoff valves. For the purposes of bidding, the Contractor shall assume that irrigation conflicts are inevitable, and repairs will be necessary. The Contractor shall have on hand a set of standard repair fittings for 1-inch through 3-inch PVC and steel pipe. The Contractor shall repair damaged active supply pipes by the end of the day. Damaged active landscape sprinkler system pipes shall be repaired no later than the following calendar day. For inactive systems during the irrigation off-season, repairs shall be made within one week.

7-08.3(7) General Surface Restoration
This section is new.

Backfill trenches to a safe depth at the end of each day.

Restore all trenches as shown in the plans. When not otherwise specified, restore existing surface improvements to a condition equal or better than that prior to construction.

On trenches crossing the roadway or intersections, install cold or hot mix asphalt no later than 48 hours after asphalt removal. Maintain until final patching is complete. Owner will pay invoice cost plus 21% for the temporary asphalt material only. No extra payment for labor or equipment to furnish, place, and maintain temporary asphalt.

On trenches parallel to the roadway and in drivable areas, provide crushed surfacing no less than 24 hours following backfill and maintain to a smooth and level grade with the existing pavement until final patching is complete. Temporary crushed surfacing depth under traffic to be no less than 3-inches and no more than 4-inches.

Maintain crushed surfacing temporary patching continuously, including inspection, repairs, and dust control, including over weekends and other non-working periods. Cost for maintenance of patching is incidental, no separate payment.

Contractor may plate trenches at their discretion in lieu of temporary patching. Plates must free of dents and bumps and be able to withstand legal weight loads. Key plates into the trench or place asphalt tapers to prevent movement. Provide appropriate signage when using plates.

Surface restoration that must be removed and replaced due to any failed testing will not warrant additional payment.

Existing grassy areas disturbed by construction shall be re-vegetated with the same grass species using sod, hydroseed, or other methods of stabilization if approved by the Engineer.

7-08.4 Measurement

Supplement Paragraph 2 of this section with the following.

See section 7-09.4 for plugging existing active water mains that will be terminated during this project.

The actual number of existing non-functional pipes in the project vicinity is unknown. Plugging six (6) or less pipe ends up to 12-inch nominal diameter shall be incidental to other bid items. Any cuts that need plugging over the quantity of six (6), or larger than 12-inch nominal diameter, shall be paid for by force account. Time to procure concrete is incidental and no extra payment made.

The first sentence of Paragraph 3 of this section is replaced with the following.

Excavation of trench is included in the unit price for the utility.

Supplement this section with the following.

Work to accommodate and repair existing utilities that are unlocated and unlocatable will be paid as described in Section 7-08.5 or paid by Minor Change if not described. Multiple breaks on the same utility will not receive multiple payments unless the existing utility layout could not have been reasonably estimated after the first encounter.

Potholing will be measured per each.

If the existing utility is not found at the depth shown on the plans or as is common for the type of utility, exploration shall continue up to an additional 3 feet horizontal each side of the locate and 1 foot below the anticipated base of trench with the cost incidental. If the utility is not found within these limits, the Contractor must get approval from the Owner prior to making further attempts. No payment will be made for further attempts that have not been approved.

Potholing or exploration that occurs within the active working zone will not count in the potholing total and will not receive separate payment.

7-08.5 Payment

Section 7-08.5 is supplemented with the following:

If the Contractor requests use, and the Owner approves, of a pipe bedding material other than that specified for restrained joint pipe, and use of the alternate bedding material requires additional restrained joint pipe length as determined by the Owner, no additional payment for the additional restrained joints will be made.

Costs for providing, installing, and maintaining temporary steel plates is included in the unit prices for the utility items. No separate payment.

Costs for tracer wire and locating tape is included in the unit prices for the utility items. No separate payment.

Repair of unlocated and unlocatable utilities not described in other pay items will be by Minor Change as provided in Section 1-09.6. Repair of landscape sprinkler systems may be paid by force account, with a maximum reimbursable of one general laborer for two hours plus repair parts per incident, unless the Owner determines that the damage was reasonably avoidable in which case no payment will be made.

“Pothole”, per each.

Payment shall be full reimbursement for all work to explore for utility crossings specifically shown on the plans for potholing, or as directed by the Owner. Work includes setup, traffic control including flagging, saw cutting, excavation, measurement, documentation, backfill, temporary patching, cleanup, and demobilization.

The following items in this section are revised to read.

“Plugging Existing Pipe”

The cost for plugging water mains abandoned during this project is to be included in the “Abandonment / Removal of Terminated Water Facilities” bid item.

“Gravel Backfill for Pipe Zone Bedding”

All costs for Gravel Backfill for Pipe Zone Bedding are included in the unit contract price for domestic water utilities. No separate payment.

No native material will be allowed for pipe bedding and 100% import pipe bedding will be required.

“DCSD - Structure Excavation Class B…”

All costs for Structure Excavation Class B and Structure Excavation Class B Incl. Haul shall be included in the unit contract price for the various bid items included in this contract. No separate payment.

“EWWD - Structure Excavation Class B…”

All costs for Structure Excavation Class B and Structure Excavation Class B Incl. Haul shall be included in the unit contract price for the various bid items included in this contract. No separate payment.

"Shoring or Extra Excavation Class B – Douglas County", lump sum.

Quantity of shoring or extra excavation required shall be determined by the contractor.

7-09 WATER MAINS

7-09.1 Description

Replace this section with the following:

This Work consists of constructing water mains accordance with the Plans, these Standard Specifications, the Special Provisions and the Standard Plans, at the location shown on the Plans.

7-09.2 Materials

Replace the first sentence of paragraph 2 with the following:

If requested by the Owner, the pipe manufacturer shall test all pipe and fittings as required by these Standard Specifications and the standards referenced.

7-09.3 Construction Requirements

Supplement this section with the following:

The requirements of Section 7-08 of these Special Provisions also apply to domestic water construction except where superseded herein.

The Contractor shall guarantee the domestic water system work for a period of one year from the date of acceptance against defects in the work as described in the construction drawings and project specifications and otherwise set forth in the contract documents. Contractor shall work to remedy such defects within seven (7) days of mailing notice of discovery thereof by Owner and shall complete such work within a reasonable time. In emergencies where damage may result from delay or where loss of service may result, such corrections may be made by Owner, in which case the cost shall be borne by Contractor. In the even Contractor does not accomplish corrections at the time specified, the work will be otherwise accomplished and the cost of same shall be paid by Contractor.

7-09.3(3) Clearing and Grubbing in Ungraded Streets

Supplement this section with the following:

Ungraded streets includes unimproved areas.

Replace the last sentence with the following.

Such material shall be disposed of by the Contractor with the cost incidental to the contract bid price, no separate payment.

7-09.3(4) Removal of Existing Street Improvements

Supplement this section with the following:

Cost for this work includes removal and disposal, or salvage and replacement of existing surface improvements and is incidental to other bid items. No separate payment.

7-09.3(5) Grade and Alignment
Replace the first sentence of the third paragraph with the following:

The depth of trenching for the water main shall be as shown on the purveyor's standard trench detail, unless superseded by dimension callouts on the plan or profile drawings.

7-09.3(7) Trench Excavation
Replace the third sentence of the second paragraph with the following:

Trench shall be excavated to a sufficient width to allow for pipe installation, compaction equipment, and shoring when necessary.

Measurement for pay items related to trench width below subgrade (including removal and replacement of unsuitable material; trench backfill; import bedding; rock excavation; etc.) shall not exceed the following maximum widths:

For pipes smaller than 4-inches, = 36-inches.
For pipes 4-inches and larger, = pipe O.D. + 36-inches when no shoring or speed shoring is used, or pipe O.D. + 48-inches when box shoring is used.

If not specified otherwise elsewhere, the measurement for pay items related to the trench width from subgrade to the surface (including crushed surfacing; HMA; paint restoration; etc.) shall not exceed the trench width described above + 24-inches.

7-09.3(8) Removal and Replacement of Unsuitable Materials
Supplement the second paragraph with the following:

The Engineer will determine if existing materials are unsuitable for reuse as trench backfill. The Contractor will not receive payment for material the Contractor removes and replaces without prior approval.

7-09.3(9) Bedding the Pipe
Replace the first two sentences with the following:

See Owner's Standard Trench Detail for bedding depths. No native materials will be allowed for pipe bedding. Owner will determine if the Contractor's submitted import bedding is acceptable when applicable. Provide one to five gallons of a physical sample of intended import bedding in addition to a sieve analysis. Import bedding shall meet Special Provisions section 9-03.12(3).

Bedding for restrained joint pipe must be a granular material composed of crushed rock, gravels, and/or sand. Poorly graded rounded rock (pea gravel or drain rock) or clay are not acceptable.

7-09.3(10) Backfilling Trenches
Supplement this section with the following:

Equipment mounted compactors (hoe-pack, sheepsfoot, vibratory rollers, etc.) shall not be used within 12-inches directly above the pipe.

7-09.3(13) Handling of Pipe
Supplement this section with the following:

Do not run lifting chains, cables, or forks through the interior of pipe or fittings as this can damage the interior linings or gasket seating areas. Use only fabric slings when lifting through the interior.

7-09.3(14) Cutting Pipe
Supplement this section with the following:

Pipe that has been cut and will be joined in a push-on joint connection shall be beveled by methods recommended by the pipe manufacturer.

If the cut end is not round enough to insert into a joint, the Contractor may attempt to re-round the pipe using a method approved by the manufacturer and the Owner. Do not point load the pipe when applying pressure nor over-correct in an attempt to permanently set the new shape. Once rounded, install into the next joint before relieving pressure on the re-rounding equipment. The Owner will not provide compensation to re-round pipe.

7-09.3(15) Laying of Pipe on Curves
This section is new:

The amount of deflection at each ductile iron mechanical joint fitting end shall not exceed the following, or the manufacturer's recommendation, whichever is less.

3-inch to 12-inch diameter: 3 degrees
14-inch to 24-inch diameter: 2 degrees
30-inch diameter and larger: 1.5 degrees

7-09.3(15)A Laying Pipe on Curves-Ductile Iron Pipe
Replace the last sentence of the first paragraph with the following:

The amount of deflection at each Tyton type joint or mechanical joint when pipe is laid on a horizontal or vertical curve shall not exceed the manufacturer's printed recommended deflections or per the limits shown below, whichever is less.

- 12-inch diameter and smaller: 3 degrees per joint (11 inches over 18 feet).

For other joint types, the maximum deflection shall not exceed 80-percent of the manufacturer's maximum recommended deflection.

Installation of restrained joint push-on pipe that will be deflected must be installed per the manufacturer's instructions. In general, this requires the pipe to be inserted into

the bell at a straight alignment, but not pushed home. The pipe can then be deflected. If the manufacturer's instructions provide differing, or additional instructions, those instructions shall be followed. Not all restraint systems can be deflected.

7-09.3(19) Connections

7-09.3(19)A Connections to Existing Mains
Supplement this section with the following:

Pothole to verify the configuration, alignment, and size of the existing facilities. Pothole far enough in advance to procure required fittings without delaying the work.

When knowledge of the exact alignment of existing facilities is required, such as when laying new work to line up with existing pipe or fittings, expose enough of the existing facilities so that an accurate alignment can be determined. Do not construct new work until the existing configuration and alignment is confirmed.

If the alignment or configuration of the existing facilities varies significantly from the design plans, contact the Owner for review prior to installing new work. Install the new work to align with the existing facilities. Procurement and installation of additional fittings required due to failure of the Contractor to identify the existing configuration will not be reimbursed by the Owner.

Provide notice to the Owner two full working days prior to making connections. Connections to existing mains may only be performed on Tuesdays, Wednesdays, or Thursdays unless permission is otherwise obtained from the Owner. Connections shall not be performed on Owner recognized holidays.

Make no connections until the new main has been tested and approved by the Owner. An approved double check valve must be used between existing potable water sources and the new work. The Contractor shall size the double check valve as appropriate for the filling and flushing rates needed.

Owner will notify customers no less than 24-hours in advance of service interruption.

Connections to the existing water system will require time for draining. Standby time for draining is incidental to the work, no separate payment.

7-09.3(21) Concrete Thrust Blocking
Supplement this section with the following:

Concrete shall not be poured around joints. All fittings to be blocked shall be wrapped with 4-mil polyethylene plastic.

Precast concrete blocking is allowed. The surface area of the block must be no less than shown in the Owner's Standard Detail for horizontal thrust blocking. Backfill behind the block must be crushed surfacing, watered and mechanically compacted. Precast blocking with a thickness of 20-inches or less in any direction must include steel reinforcing no less than #5 bar at 6-inches on center each way.

7-09.3(22) Blowoff Assemblies
Supplement this section with the following:

Temporary (construction) blowoff assemblies shall be provided as shown on the plans and as required for testing and flushing and shall be incidental to the contract. No separate payment will be made for temporary blowoff assemblies.

7-09.3(23) Hydrostatic Pressure Test
Replace the first sentence with the following:

Water main, appurtenances, and service connections to the meter setter shall be tested in sections of convenient length under a hydrostatic pressure equal to 250 psi at the low point of the test section, unless otherwise directed by the Owner. Keep hydrant foot valves closed during the test.

Supplement this section as follows:

The total time the water mains are exposed to test pressure shall be no less than 120 minutes (2-hours).

Pressure gauges shall be legible and accurate (+- 3% of scale). Scale range shall not exceed 200% of the test pressure, nor be less than 110% of the test pressure. For example, for a 250-psi test, the gauge scale shall not exceed 2 x 250 = 500 psi nor be less than 1.1 x 250 = 275 psi. The gauge face must be no smaller than 2.5-inch diameter. The Owner has the right to reject any gauges that are suspect in their accuracy. Any gauge that does not read zero when there is no pressure will be rejected.

Fittings and sections of pipe that cannot be pressure tested, such as connections to the existing system, shall be left exposed for a visual inspection under system pressure.

Ductile Iron and C900 PVC testing:
The following test method will be used unless otherwise directed by the Owner. Pressure drop shall not exceed 1-percent (2.5 psi for 250 psi test) per hour, regardless of water loss quantity. Owner has the authority to require more stringent criteria if they determine that field conditions warrant such measures.

Only with the Owner's approval will the WSDOT calculated water loss method be allowed. In such case, the term "appreciable or abrupt loss in pressure" will mean 1.5-percent (4 psi) or more in 15 minutes.

7-09.3(23)D Valve Pressure Test
The following section is new:

All valves shall be pressure tested in the presence of the Owner. Do not exceed the rated working pressure of the valve when operating the valve. Bleed off test pressure prior to operating. Test all valve bonnet and actuator enclosure nuts and bolts for tightness. Provide equipment, end plugs, blind flanges, assembly kits, and appurtenances necessary for pressure testing. Failing valves provided by the Contractor shall be replaced at the Contractor's expense. If a valve provided by the Owner fails, consult the Owner for direction.

Assemble valve clusters outside of the trench and pressure test prior to installation. All butterfly valves, eccentric valves, and valves which will be installed on or adjacent to existing water mains, shall be pre-tested on both sides of the closed valve seat with zero pressure loss.

Pre-installation testing procedure:

1. Close the valve.
2. Install plug or flange (with test port).
3. Connect test apparatus and pump.
4. Pressurize to test pressure. 250 psi for gate valves, 150 psi for butterfly and eccentric valves, or manufacturer's listed test pressure if less.
5. There shall be zero drop in pressure or visible leakage for ten minutes. This includes leaking through the shaft packing.
6. If test fails, check for defects, correct, and retest. Replace valves that do not pass testing at no additional cost to the Owner.

Post-installation testing procedure:

After installation, test for water tightness under differential working pressure (do NOT exceed working pressure rating). To perform this test, pressurize pipe section with valve in place, close valve and relieve pressure on one side of the valve. The valve shall not pass water during a 10-minute test period.

Operate all valves at least once from closed-to-open-to-closed positions while valve is under system (not test) pressure.

7-09.3(24) Disinfection of Water Mains

Supplement this section with the following:

Samples will not be taken on Fridays unless approved by the Owner and special arrangements made with the testing lab.

7-09.3(24)A Flushing

This section is supplemented with the following:

Flush for a period sufficient to change the entire water volume at least two times. The Engineer has discretion to require additional flushing.

If the existing water system cannot provide the required flow capacity, the contractor shall supply the source of water or shall "pig" the main. All costs shall be incidental. The following table shows the minimum quantity and sizes of equipment for flushing, assuming at least 60 psi is available on the supply side. Higher pressure may warrant fewer or smaller blow-offs. If the plans show more or larger blow off assemblies, the plans will govern.

Main diam.	Approx. Gallons per foot	Flow (gpm) at 2.5 fps	low-off and backflow device size and no.	Hydrant ports and no. of hoses (20 ft or less of hose)	Hydrant ports and no. of hoses (up to 100 ft of hose)
8"	2.7	400	(2) 2", or (1) 3"	(1) 2.5"	(2) 2.5"

Rental backflow devices are acceptable if provided with backflow device test documentation. For new devices, conduct backflow test(s) and provide documentation. Tests must be performed by a certified backflow specialist.

If, in the Owner's sole opinion, the pipe has been kept free of heavy debris (rocks, gravel, etc.), the flushing velocity may be reduced to 1.5 fps.

7-09.3(24)B Requirement of Chlorine
Supplement this section with the following:

Chlorine residual tests must be taken immediately following the initial filling. At a minimum, a test shall be taken at each end of the watermain.

If the initial chlorine residual is between 50 mg/l and 100 mg/l, the minimum residual limits stated after the retention times in the next sections will be increased proportionally. If the initial chlorine residual exceeds 100 mg/l, the Owner, at their sole discretion, may require the water be flushed and refilled with a lower residual.

7-09.3(24)K Retention Period
Supplement this section with the following:

If the water temperature is less than 41° F, the retention time before testing shall be at least 48 hours.

Total retention time shall not exceed 3 days, or 24 hours more than the minimum retention time, whichever is less, after which the chlorinated water shall be immediately flushed out.

7-09.3(24)N Final Flushing and Testing
Supplement this section with the following:

If after the retention period in section 7-09.3(24)K the chlorine residual is less than 1 mg/l, the system must be flushed and re-chlorinated. If the residual is between 1 mg/l and 25 mg/l, the Contractor may choose to either flush and re-chlorinate or may flush and fill with system water and have samples taken at their risk.

Standard Sampling Procedures

Take bacteriologic samples at the following locations, at a minimum. All samples must pass for approval.

- Every 1,200 feet, and
- At all laterals longer than 18 feet, and
- At the end of the main.

Take samples using one of the following two options (per AWWA C651).

- Option A: Take the first samples after flushing is complete. Take the second samples 16-hours later.

- Option B: After flushing is complete, take the first samples 16-hours later, and the second samples 15-minutes after that. The sampling port shall be left running during the 15-minute interval.

For either option, the Owner has the sole discretion to require additional tests up to one week after flushing.

For temporary water systems using new HDPE pipe stored with the ends continuously capped just prior to installation, samples may be taken immediately following flushing rather than waiting 16-hours.

7-09.3(25) Abandonment / Removal of Terminated Water Facilities

This section is new:

Owner shall be sole determiner of appropriate abandonment procedures and methods. Restore all disturbed surfaces to original condition and to the satisfaction of the Owner and land owner/agency. The Owner owns all existing water system materials and has the right of salvage for any equipment at their discretion. Return all removed equipment (hydrants, fittings, valves, etc., but not pipe.) to the Owner at 15th Street NE and Eastmont Avenue shop, at the discretion of the Owner. Equipment deemed unusable by the Owner shall become the property of and be disposed of by the contractor. Should the contractor unnecessarily damage any existing functional and salvageable equipment, said equipment shall be repaired or replaced by the contractor at their cost.

All water mains, hydrants, valves, valve boxes, meter boxes, air valves, and services terminated during the project shall be removed and/or abandoned in accordance with East Wenatchee Water District Standard Detail W-15.

7-09.4 Measurement

This section is supplemented with the following:

Trench pay width shall be as stated in special provision 7-09.3(7). No additional payment will be made for excavation and backfill of trench widths beyond these pay limits (nor for related quantities such as bedding, paving, crushed rock, import backfill, rock excavation, etc.) unless extra trench width has been specifically directed by the Owner.

Measurement for Abandonment / Removal of Terminated Water Facilities will be lump sum.

Measurement for Connection to Existing _____ includes all work necessary to connect the new tested and approved main to the existing main as shown on the plans identified by the note "*Connection Bid Item", "Connection to Existing", "Final Configuration",* or similar term.

Supplement the fourth paragraph with the following:

Measurement of boulders shall be based on the average dimensions of each rock, not on maximum dimensions. Boulders that are partially below the base of excavation, or partially in the side of the excavation and may be, in the Owner's sole opinion, larger than 1.0 cy, but the Contractor chooses to break and partially remove rather than entirely

remove, will be paid by unit price. For each boulder, payment will be for the amount of rock broken and removed if the quantity is at least 0.5 cy (additive total of fractures if not removed in one piece). Smaller quantities will not receive payment.

The last paragraph is replaced by the following.

No specific unit of measure will apply to "Shoring or Extra Trench Excavation, lump sum". Quantity of shoring or extra excavation required shall be determined by the Contractor.

7-09.5 Payment
Replace the following sections in their entirety:

" _____ Pipe for Water Main In. _____ Diam", per linear foot

The unit contract price for each size and kind of pipe shall be full pay for all work to complete the installation of the water main including but not limited to: clearing and grubbing, saw cutting; removal of existing surfacing and improvements; excavation; import pipe bedding (including haul and disposal of displaced native soil); installing pipe; providing and installing fittings and thrust restraint (including crushed rock behind precast blocking); tracer wire; locating tape; screening native materials; backfill; testing; flushing (including de-chlorination); disinfecting; and cleanup. Price includes any surface restoration not specifically identified in other bid items and installing temporary splices on existing customer service lines when the service line interferes with new watermain.

Payment for pipe will be paid no more than 80-percent of the length installed if it has not passed both pressure and purity testing by the pay estimate cutoff date.

"Rock Excavation".

Removal and disposal of all boulders 0.5 cy and smaller, and up to five boulders between 0.5 cy and 2.0 cy is incidental with no separate payment. Removal and disposal of more than five boulders between 0.5 cy and 2.0 cy, all boulders larger than 2.0 cy, or material qualifying as rock under the second paragraph of 7-09.3(7)B will be paid by force account.

"Shoring or Extra Trench Excavation", lump sum.

This section is supplemented with the following:

"Abandonment / Removal of Terminated Water Facilities", lump sum.

Payment shall be full reimbursement for all work and materials necessary to abandon / remove terminated water facilities. Also included in this work is removal, disposal, and abandonment of the existing PRV station shown on the Plans. Backfill used to fill the void of the PRV vault is incidental. Surface restoration is incidental unless provided in other pay items.

"Connection to Existing _____", lump sum.

Payment shall be for connecting the new water system to the existing water system. Included in the price is all coordination with water purveyor, excavation, line cutting,

draining (including standby time during draining), dewatering, bedding, backfill, fittings between new main and existing main, thrust restraint, disinfection, surface restoration (when not defined in other pay items), and all other work necessary for a complete connection. Valves 3-inch and larger, not including those used for blow-offs, shall be paid for under the appropriate valve bid item. Also included is the cost to temporarily or permanently cut, cap, and restrain the existing main as needed for construction sequencing.

Pipe 4-inch and larger that is within the identified connection area is included in the appropriate " Pipe for Water Main In. Diam." bid item. Smaller pipe is incidental.

"Watermain Offset", per each.

Payment shall be for all work and materials needed to route new water piping around storm catch basins as shown on the plans. Included in the price is all coordination with water purveyor, excavation, line cutting, draining (including standby time during draining), dewatering, bedding, backfill, fittings, thrust restraint, disinfection, surface restoration (when not defined in other pay items), and all other work necessary for a complete connection.

7-12 VALVES FOR WATER MAINS

7-12.3(1) Installation of Valve Marker Post

Replace this section in its entirety.

Where required by the inspector, to be expected when valves are outside of paved areas, a valve marker post shall be furnished and installed with each valve. Refer to the Owner's Standard Detail.

7-12.3(2) Adjust Valve Box

The following section is new.

This work consists of rehabilitating and/or adjusting those existing valve boxes, which will remain active at project completion, to temporary and finished grade in accordance with the Plans.

Any existing valve box components that are broken during construction shall be replaced. If a valve box is blocked with debris, the Contractor shall remove such debris leaving the valve installation in a fully operable condition. Remove any asphalt or debris from valve box tops and lids so that lid and handle are loose and free.

Maintain existing valve boxes at all times to allow the Purveyor access for operation. The Contractor shall notify the Purveyor of any existing valve boxes in a condition of disrepair.

Adjust all valve boxes as described below unless shown otherwise on the plans. In travelled areas, including sidewalks and shoulders, adjust the valve box to between 0 and 1/8 – inch below finished grade. In untraveled areas adjust the valve box to between 0 and 1/2 – inch above finished grade. The final installation shall be made in accordance with the applicable portions of Section 7-12 of the Standard Specifications.

Valve box adjustment within new paving shall be done per the following procedure:

- Lower the box so the lid is below the finished surface by at least 1/4 inch.
- Mark lid location with flexible indicator, 3-point measurement, or other method acceptable to the Owner.
- Install paving.
- Cut paving at least 6 inches clear around valve box and remove. Cuts must be made using a circular cutter, or other method that does not result in cut lines extending beyond the patch area.
- Raise the valve box.
- Install paving.

When valve box top sections have lug slots, align the slots with the flow direction of water through the valve. If uncertain of direction, contact the Purveyor for clarification.

7-12.4 Measurement
Supplement this section with the following.

Gate Valve _____ Inch. quantity does not include fire hydrant auxiliary valves. See section 7-14.5 for payment of auxiliary hydrant valves.

Adjust Valve Box will be measured once per each existing and new box regardless of the number of multiple adjustments necessary for various stages of construction. Only valve boxes within paving will be measured.

7-12.5 Payment
Replace the last sentence with the following.

The unit contract price per each for the valve specified shall be full pay for all work to furnish and install the valve complete in place including; trenching; joining; blocking; painting; disinfecting; hydrostatic testing; valve box and accessories; marker post; crushed rock backfill; concrete collar (if shown on the plans); final paving around the valve box; and operator extension if required.

“Adjust Valve Box”, per each.

The unit contract price per each shall be full pay for all work to adjust existing and new valve boxes to final grade, including providing and installing risers, adapters, lids, concrete collars (if shown on the plans), final paving around the box, and clearing obstructed boxes of debris.

7-15 SERVICE CONNECTIONS

7-15.2 Materials
Replace this section in its entirety.

Refer to Purveyor’s Standard Details for construction materials.

7-15.3 Construction Requirements
Replace the first two sentences with the following.

All service connections to water mains shall be made using saddles as shown on the Purveyor's Standard Details. Direct taps are not allowed.

Replace the first sentence of the second paragraph with the following.

The depth of trenching for service connection piping shall provide a minimum of 4.0 feet of cover over the top of the pipe, unless shown otherwise on the Purveyor's standard detail.

Replace the first sentence of the fourth paragraph with the following.

Reconnect all existing service connections along the project route to the new main, unless specifically identified otherwise on the plans or directed otherwise by the Owner.

Supplement this section with the following.

Restore all disturbed surfaces to original conditions or better, including that on private property. Restore landscaping to original condition. Maintain water service at all times except when temporary outages are approved by the Purveyor.

Tap hole size in mainline to be no smaller than 1/8-inch less than the nominal service pipe size. E.g. 1-inch service pipe requires 7/8-inch hole minimum.

The water purveyor will relocate the existing flow meter to the new setter.

7-15.4 Measurement

Supplement this section with the following.

Service Line measured by the lineal foot for pipe 2-inch and smaller. Where work occurs on the customer side of the meter chamber, the first 10 feet of service line is incidental to other pay items. No measurement for reconnection of the existing service line when the existing service line is being reused and crosses the new watermain.

7-15.5 Payment

Replace this section with the following.

The following work is included in all "Service Connection" pay items unless stated otherwise in the specific pay item.

Pavement and concrete saw cutting; excavating; furnishing and installing all fittings, valves, and appurtenances; sand bedding for pipe; backfilling; tracer wire; marking tape; testing; flushing; disinfection; and all other work necessary for a complete service connection.

Surface restoration (other than trench restoration within paving) is incidental to the unit price unless specifically identified under other bid items. Surface restoration includes but is not limited to repair or replacement of existing crushed surfacing; curbs; gutters; sidewalks; driveways; landscaping; sod; signage; retaining walls; asphalt aprons; and any other surface improvements disturbed or required during construction.

"Service Connection ___ In. Diam. with ___ In. Setter", per each

"Double Service Connection ___ In. Diam. with ___ In. Setters", per each
Service Connection ___ In. Diam. represents the mainline tap, corporation stop, and curb stop size. ___ *In. Setter* represents the meter setter size.

The unit contract price per each shall be full pay for all work to install a complete service connection(s) including but not limited to: meter chamber and lid; complete mainline service tap; curb stop; setter; and connecting to the existing service line(s) on the customer side.

"Adjust Water Service Lid to Finished Grade", per each.

The unit price per each shall be full pay for all work to adjust the existing water service lid to finished grade including but not limited to: concrete risers, shims, grout; and all other materials necessary for a complete installation.

"Service Line", per lineal foot. The unit price is the same for all pipes 2-inch diameter and smaller.

The unit price shall be full pay for installing the customer service lines. Price includes but not limited to: excavating; furnishing and installing all pipe; disinfection; sand bedding; tracer wire; marking tape; backfilling; surface restoration; and all other work necessary for a complete installation. The following work is included in this item:

- Service line from the mainline tap to the meter chamber.
- Service line from the mainline tap to the approved connection point on the existing service when reconnecting existing services.
- Service line from the meter chamber to the existing service line on the customer side of the meter chamber when the length exceeds 10 feet, for the amount in excess of 10 feet.

7-17 SANITARY SEWERS

7-17.3 Construction Requirements

7-17.3(1) Protection of Existing Sewer Facilities

7-17.3(1)A Sewer Connections, Transfers and Abandonment
This section is new:

Customer outages are only allowed with the approval of the Douglas County Sewer District. Work on live sewers shall not occur on a Thursday, Friday, or a day before a holiday.

The Contractor shall give the Douglas County Sewer District notice no less than 72 hours prior to any system outage.

The Contractor shall give customers whose service may be disrupted no less than 24-hour nor more than 48-hour notice prior to the interruption.

When a new pipe connection is made to an existing manhole, the manhole base shall be channeled to accommodate the new connection.

Temporary bypass pumping of sewage will be required to complete the proposed work**.** The Contractor is fully responsible to provide adequate temporary pumping systems to avoid a back-up, overflow, spillage of sewage. Contractor shall inspect temporary bypass system during operation and ensure that system is maintained, meets performance requirements, and is at all times adequately powered (or fueled) to maintain continuous operation, overnight and over all non-working days. Any backups caused from the temporary pumping systems shall be full**y** paid for by the **C**ontractor.

Temporary bypass pumping including pumps, piping, hoses, plugs, temporary power source, power cables and connections, control and alarm system, and appurtenances shall be provided, maintained and operated by the Contractor during construction. Temporary bypass pumps shall be identified by the manufacturer as being suitable for use with raw sewage containing solids.

7-17.3(2)F Low Pressure Air Test for Sanitary Sewers Constructed of Non Air Permeable Materials
Supplement this section with the following.

Testing of sewer pipe shall be incidental to the sewer pipe bid item.

7-17.3(2)G Deflection Test for Thermoplastic Pipe
The first sentence is replaced with the following.

Sanitary sewers constructed of thermoplastic pipe shall be tested for deflection no less than 20 days after the trench backfill and compaction has been completed. Deflection testing will be performed by the sewer purveyor.

7-17.4 Measurement
Supplement this section with the following.

No specific unit of measure will apply to “Shoring or Extra Trench Excavation, lump sum”. Quantity of shoring or extra excavation required shall be determined by the Contractor.

7-17.5 Payment
Supplement this section with the following.

“Shoring or Extra Trench Excavation”, lump sum.

Replace the following pay item in its entirety with the following.

“PVC Sanitary Sewer Pipe ___ In. Diam.” Per lineal foot
The unit contract price for each size and kind of pipe shall be full pay for all work to complete the installation of the sewer main including but not limited to excavation, haul, and disposal of excess material; providing and installing crushed surfacing top course bedding; providing and installing pipe and fittings; making connections to existing manhole structures including core drilling, jack hammering, providing and installing boots or adapters, and repairing manhole channel; metallic locator tape; backfill, compaction, and water for compaction; testing via low-pressure air test; flushing; all equipment and appurtenances necessary for a fully functional temporary sewer bypass pumping system and submission of a bypass pumping plan; disposal of old sewer pipe; and cleanup. Payment shall only be

provided for the pipeline lineal foot once the pipe is backfilled and has been pressure tested successfully.

Division 8
Miscellaneous Construction

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3(2) Temporary Seeding and Mulching

Tackifier
Section 8-01.3(2)E is supplemented with the following:

Soil Binder or Tack Agent shall be applied immediately after wattles have been installed.

8-02 ROADSIDE RESTORATION

8-02.3(9) Seeding, Fertilizing, and Mulching

8-02.3(9)B Seeding and Fertilizing

Section 8-02.3(9)B is supplemented with the following:

Grass seed, of the following composition, proportion, and quality shall be applied at the rates shown below on all areas requiring roadside seeding within the project:

Kind and Variety of Seed in Mixture by Common Name and (Botanical name)	Pounds Pure Live Seed (PLS) Per Acre
Crested Wheatgrass *(Agropyron cristatum)*	3.5
Bluebunch Wheatgrass 'Rock Island' *(Pseudoreogneria spicata)*	8.5
Sand Dropseed *(Sporobolus cryptandrus)*	0.5
Thickspike Wheatgrass 'Schwindemar' *(Agropyron dasystachym)*	8.0
Sandberg Bluegrass 'Duffy Creek' *(Poa sandgergii)*	1.0
Indian Ricegrass *(Oryzopsis hymenoides)*	8.5
Total Pounds PLS Per Acre	30.00

Non-Source Identified seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the Columbia Basin or Blue Mountains Ecoregions, as defined by the US Environmental Protection Agency (EPA) and shown at:

http://www.wsdot.wa.gov/eesc/design/roadside/images/eco_regions_v9.jpg

Seeds shall be certified "Weed Free", indicating there are no noxious or nuisance weeds in the seed.

8-02.3(9)C Mulch

Mulch for Seeding Areas

Section 8-02.3(11)A is supplemented with the following:

*** Moderate Term Mulch *** shall be applied at a rate of *** 3,500 *** pounds per acre with no more than *** 2,000 *** pounds per acre applied in a single lift.

*** Long Term Mulch (Modified Bonded Fiber Matrix) *** shall be applied at a rate of *** 3,500 *** pounds per acre with no more than *** 2,000 *** pounds per acre applied in a single lift. This lift shall be no less than 1".

(******)

8-03 Irrigation Systems

Replace this section with the following:

8-03.1 Description

This section is supplemented with the following:

This work consists of constructing irrigation lines in accordance with the Plans and these Specifications. The approximate quantities to complete this work are as follows: 600 L.F. 3" Sch. 40 PVC, 225 L.F. 6" C900 PVC, 30 L.F. Sch. 40 1-1/4" PVC, 4 (four) 3" Sch. 40 45-degree elbows, 5 (five) 3" Sch. 40 3" x 3" x 1-1/4" Tee to 1-1/4" PVC turnouts and 1 (one) 3" Sch. 40 PVC compression couplers.

8-03.2 Materials

Materials shall meet the requirements of section 9-05.12. The irrigation line and fittings shall be Schedule 40 PVC and driveway sleeve pipes shall be C900 PVC.

8-03.3 Construction Requirements

Locations of pipe, fittings, sleeves and other equipment shall be as shown in the Plans and shall be of the size and type indicated on the Plans. Pipe trenches shall be wider at any point than is necessary to lay pipe or install equipment. Trench bottoms shall be relatively smooth and free from rocks, stones, or any other material that may damage the pie. Backfill shall not be allowed until the piping has been inspected and accepted by the Engineer. Backfill material placed within 6 inches of the pipe shall be free of rocks, roots, concrete, and other construction material that may damage the pipe. Backfill from the

bottom of the trench to approximately 6 inches above the pipe shall be compacted in a manner that does not pipe.

Turnout piping shall be 1-1/4" Sch. 40 PVC and installed at the locations shown in the plans. Turnouts shall be vertically extended 6 inches above finished grade and capped.

The existing irrigation system can be shut down for a maximum of 1 (one) work week. All work must be complete, and the new line must be connected within this period. The Contractor shall coordinate with the Engineer and NE 21st St Water Association prior to shut down of the system.

8-03.4 Measurement

Irrigation pipe will be measured by lump sum.

8-03.5 Payment

"Irrigation System", lump sum.

All costs for furnishing and installing the irrigation pipe as detailed in the Plans and these specifications shall be included in the lump sum price for the irrigation system.

8-13 MONUMENT CASES

8-13.1 Description

Section 8-13.1 is revised to read:

This work shall consist of removing and reinstalling monument cases and covers.

8-13.3 Construction Requirements

Section 8-13.3 is revised to read:

Existing monument cases and covers shall be removed prior to the planning operation. Before removal, Douglas County shall reference all monuments for re-establishment. After the final course of paving has been placed, Douglas County shall mark the pavement showing the location to reset the monument case. The Contractor shall clean the monument case to the satisfaction of the Engineer before resetting. If the Engineer determines that any monument cases and covers are damaged during the removal process they shall be replaced at the Contractor's expense. A 15 inch diameter hole shall be cut in the pavement for placement of the monument case. After setting the monument case, the roadway surface shall be patched in a workmanlike manner with concrete to a depth of 4 inches. The top of the monument case and cover and the concrete used for patching shall not be higher than the surrounding pavement or lower than ¼ inch. No grinding will be allowed.

8-13.4 Measurement

Section 8-13.4 is revised to read:

Measurement of "Remove and Reinstall Monument Case and Cover" will be by the unit for each case and cover removed and reinstalled.

8-13.5 Payment

Section 8-13.5 is revised to read:

Payment for "Remove and Reinstall Monument Case and Cover" per each shall be full pay for all labor, equipment and materials to complete the work as specified. This payment includes the cleaning of the monument case, handling and storing until reinstalling the monument.

8-14 CEMENT CONCRETE SIDEWALKS

Construction Requirements

Section 8-14.3 is supplemented with the following:

Layout and Conformance to Grades
(January 7, 2019 WSDOT GSP)

Using the information provided in the Contract documents, the Contractor shall lay out, grade, and form each new curb ramp, sidewalk, and curb and gutter.

8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL

8-20.2 Materials

Section 8-20.2 is supplemented with the following:

8-20.2(1) Equipment List And Drawings

Section 8-20.2(1) is supplemented with the following:

(March 13, 1995)
Pole base to light source distances (H1) for lighting standards with pre-approved plans shall be as noted in the Plans. Pole base to light source distances (H1) for lighting standards without pre-approved plans will be furnished by the Engineer as part of the final approved shop drawings, prior to fabrication.

8-20.3(6) Junction Boxes, Cable Vaults, and Pull Boxes

Section 9-29.2 is supplemented with the following:

(September 3, 2019)
Slip-Resistant Surfacing for Junction Boxes, Cable Vaults, and Pull Boxes
Where slip-resistant junction boxes, cable vaults, or pull boxes are required, each box or vault shall have slip-resistant surfacing material applied to the steel lid and frame of the box or vault. Where the exposed portion of the frame is ½ inch wide or less, slip-resistant surfacing material may be omitted from that portion of the frame.
Slip-resistant surfacing material shall be identified with a permanent marking on the underside of each box or vault lid where it is applied. The permanent marking shall be formed with a mild steel weld bead, with a line thickness of at least 1/8 inch. The marking shall include a two character identification code for the type of material used and the

year of manufacture or application. The following materials are approved for application as slip-resistant material, and shall use the associated identification codes:

1. Harsco Industrial IKG, Mebac #1 - Steel: **M1**
2. W. S. Molnar Co., SlipNOT Grade 3 – Coarse: **S3**
3. Thermion, SafTrax TH604 Grade #1 – Coarse: **T1**

(September 13, 2021)
NEMA junction boxes and cover screws shall be Type 304 stainless steel.

8-20.3(4) Foundation Hardware

Section 9-29.6(5) is supplemented with the following:

(January 13, 2021)
Anchor bolt assemblies for light standards installed on top of barrier (median barrier mount) shall consist of the following:

- (4) 1-inch diameter threaded rods (bolts), minimum 36 inches in 6 length
- (24) heavy hex nuts, six per anchor rod
- (24) flat washers, six per anchor rod
- Two anchor plates

Each anchor plate shall be constructed from 1/2" ASTM A36 plate and hot-dip galvanized in accordance with AASHTO M111. Each anchor plate shall be ring shaped, with an outside diameter of 16 inches and an inside diameter of 12 inches. Each anchor plate shall have four 1 1/8” diameter holes on a 13.89” bolt circle, with the holes positioned to match the anchor rod layout shown in the Standard Plans.

Anchor rods shall extend a minimum of five inches and a maximum of six inches above the top of the traffic barrier. The lower anchor plate shall be embedded 29 inches below the top of the traffic barrier. Each anchor plate shall be clamped with a heavy hex nut and washer above and below the anchor plate. The lower heavy hex nut for the pole base plate shall be no more than one inch from the top of the traffic barrier.

8-20.5 Payment

Section 8-20.5 is supplemented with the following:

“Illumination System”, lump sum

The lump sum price for “Illumination System” shall be full pay for furnishing and installing all lamps, poles, conduit, junction boxes, conductors, bedding, conduit connections, elbows, bends, sweeps, caps, reducers, pull strings, and unions in accordance with the Plans and specifications. This item includes setting a new electrical service and re-connecting existing circuits. This item also includes the conduit between the service and the drop on the pole. The Contractor will be responsible for installing and field testing all materials and equipment necessary to complete in place, a fully functional illumination system.

8-21 PERMANENT SIGNING

8-21.4 Measurement

Section 8-21.4 is supplemented with the following:

No specific unit of measurement shall apply to the lump sum item for “Permanent Signing (HIP)”.

8-21.5 Payment

Section 8-21.5 is supplemented with the following:

Payment will be made for the following bid item that is included in the Proposal:

“Permanent Signing (HIP)”, per lump sum.

The unit Contract price per lump sum for “Permanent Signing (HIP)” shall be full pay for all the Work as specified.

(******)

8-22 PAVEMENT MARKING

8-22.4 Measurement

Section 8-22.4 is supplemented with the following:

No specific unit of measurement shall apply to the lump sum item for “Pavement Marking”.

8-22.5 Payment

Section 8-22.5 is supplemented with the following:

Payment will be made for the following bid item that is included in the Proposal:

“Pavement Marking”, per lump sum.

The unit Contract price per lump sum for “Pavement Marking” shall be full pay for all the Work as specified.

8-24 GRAVITY BLOCK WALL

8-24.2 Materials

Section 8-24.2 is supplemented with the following:

(November 2, 2022)
Gravity Block Wall
Gravity block wall blocks shall be rectangular prisms with dimensions 2'-5 ½" by 2'-5 ½" by 4'-11", except for special blocks which shall be as dimensioned in the Plans. All dimensions shall be ± ½ ".

Except as otherwise specified, gravity block wall blocks will be accepted by the Engineer based on visual inspection only, with no minimum compressive strength and no air content requirements for the concrete used in the block.

Gravity block wall blocks for permanent walls of heights greater than six feet and less than 15 feet shall be cast with Class 3000 concrete, conforming to the air content requirements of Section 6-02.3(2)A. Commercial concrete shall not be used. Gravity block wall blocks for permanent walls of these heights will be accepted based on visual inspection, and conformance to Section 6-02.3(9) and the specified concrete strength and air content requirements.

8-24.3 Construction Requirements

Section 8-24.2 is supplemented with the following:

(September 2, 2025)
Definitions
Temporary Gravity Block Wall: A gravity block wall that is constructed and removed under the same contract. Temporary gravity block walls shall not exceed ten feet in height, measured from the bottom of the bottom row of blocks to the top of the highest block.

Permanent Gravity Block Wall: A gravity block wall that remains in place after the conclusion of the contract under which the gravity block wall was constructed. Permanent gravity block walls shall not exceed 15 feet in height, measured from the bottom of the bottom row of blocks to the top of the highest block.

Submittals
The Contractor shall submit working drawings of the gravity block wall to the Engineer for approval in accordance with Section 6-01.9. The working drawings shall include, but not be limited to, the following:

1. Plan, elevation, and section views of the wall, showing the layout, batter, and orientation of the blocks.

2. Dimensions and details of the blocks, including details and locations of block erection lifting loops and inserts, and the features designed to interlock blocks together if the blocks have such features.

3. Method and equipment used to erect the blocks.

4. Erection sequence.

The Contractor shall not begin fabricating gravity block wall blocks until receiving the Engineer's approval of the working drawing submittal.

Gravity Block Wall Erection
After excavating for the wall base, the Contractor shall grade the excavation for a width equal to or exceeding the width of the bottom row of blocks. The base shall be graded to the base elevation shown in the Plans and working drawings as approved by the Engineer, and shall accommodate the batter of the bottom row of blocks.

The Contractor shall erect the gravity block wall and place the backfill in accordance with the erection sequence as approved by the Engineer. The top of the gravity block wall shall be within two inches of the line and grade shown in the Plans. The backfill shall be compacted in accordance with Section 3-03.3(14)C, Method C.

The Contractor shall repair all large blemishes, honeycombed areas, and chipped surfaces, (25 square inches and larger) on the exposed face of the erected wall using methods and materials as approved by the Engineer.

8-24.4 Measurement

This section is supplemented with the following:

Concrete block wall will be measured by the square foot of the completed wall in place. The vertical limits for measurement are from the bottom of the bottom layer of blocks to the top of the top layer of blocks. The horizontal limits for measurement are along the front face of wall.

(******)
8-24.5 Payment
This section is supplemented with the following:

"Gravity Block Wall", per square foot.

The unit Contract price per square foot for "Gravity Block Wall" shall also include furnishing and installing the 4-inch Perforated Under Drainpipe, Gravel Backfill for Drains and Shoring or Extra Excavation Cl. A as shown in the Plans.

Division 9
Materials

9-03 AGGREGATES

9-03.12 Gravel Backfill

Section 9-03.12(3) Gravel Backfill for Pipe Zone Bedding
Supplement this section with the following.

The table in the Standard Specifications does not apply to pressurized pipe or gravity sanitary sewer. The last paragraph of the Standard Specification does not apply to pressurized pipes.

Definitions:

Bare Metallic Pipe: No poly-bags, thick epoxy coating, tape wrap, or similar exterior protection. Asphaltic or primer coated DI qualifies as "bare". The Owner has sole discretion to qualify the coating.
Unrestrained: Push-on joints or similar.
Fully restrained: All pipes and fittings are restrained.
Partially restrained: Some pipes and fittings are restrained.

Use the following gradations unless shown otherwise on the plans.

Pressurized pipe, fittings, and valves.
The following bedding materials are approved if provided with WSDOT Aggregate Source Approval documentation.

9-03.4(2) Aggregate for BST: ¾"-½"; 5/8"-No.4, ½"-No. 4 (4" and larger pipe).
9-03.4(2) Aggregate for BST: 3/8"-No. 4 (3" and smaller pipe).
9-03.8(6) HMA Proportions of Materials: ¾-inch (4" and larger non-metallic pipe and poly-bagged metallic pipe) (see Note 1).
9-03.9(3) Top Course (4" and larger pipe) can be used for bare metallic pipes only if it meets the sand equivalent criteria shown in Table 1.
9-03.9(4) Maintenance Rock (3" and smaller non-metallic pipe, unrestrained or fully restrained).
9-03.12(4) Gravel Backfill for Drains (4" and larger pipe).
9-03.13 Backfill for Sand Drains (3" and smaller non-metallic pipe, unrestrained or fully restrained).

For bedding materials other than those listed above:
Non-metallic pipes (unrestrained or fully restrained): Table 1 or Table 2.
Non-metallic pipes (partially restrained): Table 1.
Non-metallic pipes (partially restrained): Table 2 (see Note 1)
Metallic pipes (all restrained types, no poly-bags): Table 1.
Metallic pipes with poly-bags (unrestrained or fully restrained). Table 1 or Table 2.
Metallic pipes with poly-bags (partially restrained). Table 1 or Table 2 (see Note 1)

Note 1: If either No. 40 sieve exceeds 25% or No. 200 sieve exceeds 5% then additional restrained joint lengths may be required unless the restrained lengths were calculated using silty-sand or finer material. See special provision 7-08.3(2)K.

Sieve Size	**Table 1 % Passing by Weight**		**Table 2 % Passing by Weight**	
	Pipe ≥ 4"	**Pipe < 4"**	**Pipe ≥ 4"**	**Pipe < 4"**
1"	99 – 100	100	99 – 100	100
3/4"	80 – 100	100	75 – 100	100
5/8"	70 – 100	99 – 100	50 – 100	99 – 100
3/8"	50 – 100	99 – 100	40 - 100	99 – 100
U.S. No. 4	30 – 100	30 –	20 -	20 – 100

		100	100	
U.S. No. 10	15 – 85	15 – 85	10 – 85	10 - 85
U.S. No. 40	2 – 25	2 – 25	3 – 50	3 – 50
U.S. No. 200	0 – 5	0 – 5	0 – 10	0 – 10
Sand equivalent	50 min	50 min	35 min	35 min

9-05 DRAINAGE STRUCTURES, CULVERTS, AND CONDUITS

9-05.12(3) Tracer Wire and Splices

Add the following new section.

Tracer wire (locator wire) shall be #12 AWG minimum, single conductor solid, bare annealed copper, 30-Volt construction, with blue water-resistant insulation. Direct bury splice enclosures shall be Spears DS-500 Splice Wire Connector, 3M DBY, or approved equal.

9-05.12(4) Buried Utility Marking Tape

Add the following new section.

Where locating wire is not included along the pipeline, the tape shall have a metallic foil core to provide positive detection for pipeline locators. Where locating wire is used, locating tape shall not include any metal components, unless shown otherwise on the plans. This is to prevent locating signal conflicts.

Detectable marking tape shall consist of inert polyethylene plastic that is impervious to all known alkalis, acids, chemical reagents, and solvents likely to be encountered in the soil.

The tape shall be color coded and shall be imprinted continuously over its entire length in permanent black ink. The message shall convey the type of line buried below and shall also have the word “Caution” prominently shown. Color coding of the tape shall be as follows:

Utility Tape	**Color**
Water	Blue

The width of the tape shall be as recommended by the manufacture for the depth of installation.

9-30 WATER DISTRIBUTION MATERIALS

Replace the first paragraph with the following.

This Specification addresses pipe and appurtenances 24-inches in nominal inside diameter and smaller. Water distribution material incorporated in the Work shall be new. All materials shall comply with the most current version of the AWWA standard applicable for that material unless specifically stated otherwise.

All materials to be pressure tested shall be rated by the manufacturer for the largest of the following test pressure references:

1. 7-09.(23) for ductile iron and PVC, or
2. 7-16.3(10) for fusion welded HDPE, or
3. The Owner's standard details, or
4. The applicable AWWA standard (often 1.5 times the material's rated working pressure).

The Contractor is responsible for verifying the materials supplied meet the working pressure and test pressure requirements. Submit documentation of nonconformities for the Owner's review no later than during the submittal process.

9-30.1 Pipe

Supplement this section with the following.

Only domestic made ductile iron and steel pipe are allowed. Pipe and fittings larger than 2 inch shall be of Ductile Iron construction, unless otherwise shown on the plans or details.

9-30.1(8) Restrained Joint Pipe

Add the following new section.

Contractor is responsible for the compatibility of the pipe and restraint system proposed in their bid. Restraint system must be rated to no less than the maximum test pressure. See Section 9-30.2(6) and 9-30.2(6)A for restrained fittings and material/coating requirements for all external restraints.

Ductile Iron: Unless shown otherwise on the plans, push-on restrained joint pipe 12-inch diameter and smaller shall use gripper gaskets (US Pipe Field-Lok 350 or approved equal) or external bell restraints (EBAA Iron 1700 Megalug Harness or approved equal). Push-on restrained joint pipe 14-inch diameter and larger shall use external bell restraints unless called out otherwise.

True restrained joints (TRJ) may be used for any diameter restrained pipe. TRJ means the restraint is fabricated integral with the pipe and/or fitting by the manufacturer. May also be referred to as integral, fabricated, or manufactured restrained joint pipe.

The manufacturer shall determine the number and length of TRJ pipes based on plan callouts and submit drawings for review. Pipe lengths shown on the plans are measured between the centers of fittings unless shown otherwise. Manufacturer shall fabricate pipe lengths to account for this method of measurement. Restrained pipe lengths shall be no less than that called out on the plans or details. Cutting of TRJ pipe and use of "field-kits" is allowed only where approved by the Owner.

Ductile Iron TRJ shall be a spigot bead-lock system. Joints to be flexible except where specifically identified otherwise.

- Flexible Ductile Iron TRJ: Joints that retain deflection flexibility after assembly. *TR-Flex (US Pipe, McWane Ductile), American Flex-Ring*, or approved equal.
- Rigid Ductile Iron TRJ: Joints that do not deflect after assembly. *US Pipe Mech-Lok, McWane Ductile Mechanical Joint Lock*, or approved equal. Flanged pipes are not allowed.

9-30.2 Fittings
Supplement this section with the following.

Steel bolts, nuts and washers shall be zinc plated. Flange bolts to be ASTM A307 Grade A (or SAE J429 Grade 5); or ASTM A307 Grade B (or SAE J429 Grade 2).

9-30.2(1) Ductile Iron Pipe Fittings
Replace the fourth sentence with the following.

Gaskets for flanged fittings shall be ring type. Full face type gaskets are not allowed. Gaskets must be minimum 1/8" thick, with a durometer of 55 to 65, and rated for 250 psi working pressure. Gasket material may be neoprene, cloth inserted rubber, nitrile rubber (Buna-N, NBR), styrene-butadiene rubber (Buna-S, SBR), or chlorinated butyl. Provide fastener torque requirement from the gasket manufacturer.

Only domestic made ductile iron fittings, glands, and bolt kits are allowed.

9-30.2(6) Restrained Joint Fittings
Replace the first sentence of this section with the following.

Refer to Purveyor's Standard Detail for acceptable restrained joint systems.

9-30.2(6)A True (Fabricated) Restrained Joint Fittings
Add the following new section.

See Section 9-30.1(8) for acceptable systems.

Ductile Iron Pipe: Fittings and valves may use the same TRJ system as the push-on pipe or may use an external gripper-tooth restraint system per section 9-30.2(6) or the details on the plans.

9-30.2(7) Bolted, Sleeve-Type Couplings for Plain End Pipe
Supplement this section with the following.

This section is specifically for unrestrained couplings.

Couplings for DI, C900 PVC, CI, or AC pipe shall be Romac Style 501 or approved equal. Couplings for O.D. steel pipe shall be Romac Style 501 or 511 or approved equal. Couplings for 3-inch and larger pipe shall have a center barrel no less than 7-inches long.

9-30.3 VALVES

9-30.3(4) Valve Boxes
Supplement this section with the following.

Refer to Owner's Standard Detail for additional requirements.

9-30.3(5) Valve Marker Posts
Replace this section with the following.

Refer to Owner's Standard Detail.

9-30.3(6) Valve Stem Extensions
Supplement this section with the following.

Refer to Owner's Standard Detail for additional requirements.

9-30.6 Water Service Connections

9-30.6(1) Saddles
Replace this section with the following.

Refer to Owner's Standard Details.

Supplement this section with the following.

Select a saddle where the pipe outside diameter falls within the saddle fitting range. The pipe outside diameter must be larger than, not equal to, the smallest value of the saddle fitting range.

9-30.6(3) Service Pipes

9-30.6(3)B Polyethylene Tubing
Replace the third paragraph in this section with the following.

Tubing used for 2 inch and smaller shall be SDR9 CTS (copper tube size).

9-30.6(4) Service Fittings
Supplement this section with the following.

Fittings for polyethylene tubing shall utilize Ford Quick Joint, Mueller 110 Conductive Compression, or approved equal. Pack-joints are not allowed.

9-30.6(5) Meter Setters
Replace this section with the following.

Refer to Owner's Standard Detail

9-30.6(7) Meter Boxes
Replace this section with the following.

Refer to Owner's Standard Details.

(January 5, 2026)
Standard Plans

The Washington State Department of Transportation *Standard Plans* M21-01, published September 2024, is made a part of this Contract with the following revisions:

A-10.30

RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): The RISER RING detail is deleted from the plan.

INSTALLATION detail, SECTION A: The “1/4”” callout is revised to read “+/- 1/4" (SEE CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)”

A-40.20
Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following:

1. Use the ½ inch joint details for bridges with expansion length less than 100 feet and for bridges with L type abutments. Use the 1 inch joint details for other applications.

2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge deck panels.

3. For details 1, 2, 3, and 4, the item “HMA Joint Seal at Bridge End” shall be used for payment. For details 5 and 6, the item “HMA Joint Seal at Bridge Deck Panel Joint” shall be used for payment. For detail 7, the item “Clean and Seal Bridge Deck Panel Joint” shall be used for payment.

Sheet 2, Detail 8 reference to “6-09.3(6)” is revised to read “6-21.3(7)”.

A-50.40
Sheet 1, Plan View: The callout “BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21 OR TYPE 24 (SEE STANDARD PLAN C-25.20 OR C-25.30)” is revised to read “BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21, 24, OR 25 (SEE STANDARD PLAN C-25.20, C-25.30, OR C-25.32)”

A-60.40
Note 2 reference to “6-09.3(6)” is revised to read “6-21.3(7)”.

B-55.20
General Note 3 reference to “2-09.4” is revised to read “3-07.4”.

B-90.40
Valve Detail – DELETED

C-20.41
Note 4, First Sentence, “Box Culvert guardrail steel posts are not needed for fill depths greater than 40 inches.” is revised to read; “Box culvert guardrail steel posts are not needed for fill depths greater than 46 inches. Provide 6-inches or greater of separation between the bottom of the guardrail post and top of the culvert”
BOX CULVERT POST ASSEMBLY, ELEVATION VIEW, post assembly length dimension “41” MIN. 72” MAX.” is revised to read; “41” MIN. 78” MAX.”
SECTION A, base material depth dimension - “9” MIN. 40” MAX. (SEE NOTE 4)” is revised to read: “9” MIN. 46” MAX. (SEE NOTE 4)”

C20-43
Note 4, First Sentence: “Box culvert guardrail steel posts are not needed for fill depths greater than 40 inches.” is revised to read: “Box culvert guardrail steel posts are not

needed for fill depths greater than 46 inches. Provide 6-inches or greater separation between the bottom of guardrail post and top of culvert."
Add a new KEY NOTE 4 - "IT IS PERMISSIBLE TO USE A 1" DIAM. ANCHOR ROD WITH TWO NUTS AND TWO – 1" DIAM. WASHERS PER STD. SPEC. SECTION 9-06.5(4) IN LIEU OF A HEX HEAD BOLT."
BOX CULVERT POST & BASE PLATE ASSEMBLY, ELEVATION VIEW, post assembly length dimension – "41" MIN. 72" MAX." is revised to read: "41" MIN. 78" MAX."
SECTION A, base material depth dimension - "9" MIN. 40" MAX. (SEE NOTE 4)" is revised to read: "9" MIN. 46" MAX. (SEE NOTE 4)"
Section A, callout – "1" (IN) DIAM. HEX HEAD BOLT (ASTM A 307, GR. A) W/NUT & 2 – 1" DIAM. WASHERS PER STD. SPEC. SECTION 9-06.5(1) ~ SEE NOTE 1", is revised to read:
"1" (IN) DIAM. HEX HEAD BOLT (ASTM A 307, GR. A) W/NUT & TWO – 1" DIAM. WASHERS PER STD. SPEC. SECTION 9-06.5(1) ~ SEE KEY NOTES 1 AND 4"
Elevation View, Weld symbol – callout, See (key Note Symbol) "4" is revised to read: See (key Note Symbol) "3"

C-23.70
Sheet 2, ANCHOR BRACKET ASSEMBLY DETAIL, dimension, "R. 5/16" is revised to read; R. 15/16"
ANCHOR PLATE DETAIL, weld callout (fillet), 1/4" is revised to read; 3/16"

C-60.20
Sheet 1, Plan view, callout – "1/2" (IN) DIAMETER X 6 1/2" (IN) LONG ANCHOR BOLT ~ PER STD. SPEC. SECT. 9-06.5(4) (TYPICAL) (SEE NOTE 7)" is revised to read: "5/8" DIAMETER x 6 1/2" (IN) LONG ANCHOR BOLT ~ PER STD. SPEC. SECT. 9-06.5(4) (TYPICAL) (SEE NOTE 7)"

C-70.15
BARRIER CONNECTION DETAIL, callout – "CENTER GRID IN CONNECTION BLOCKOUT AND FILL VOID WITH TYPE 3 GROUT (STD. SPECIFICATION SECTION 9-20.3(3) PLACED IN ACCORDANCE WITH STD. SPECIFICATION SECTION 6-20.3(20)" is revised to read "CENTER GRID IN CONNECTION BLOCKOUT AND FILL VOID WITH GROUT TYPE 3 (STD. SPECIFICATION SECTION 9-20.3(3) PLACED IN ACCORDANCE WITH STD. SPECIFICATION SECTION 6-02.3(20)"

C81.10
Sheet 1, TYPICAL SECTION – TRAFFIC BARRIER the R4 #6 bar on the traffic face may be placed 4" down from the top of the barrier to allow additional room to install BP railing or other attachments. The R4 bar shall be kept tight to the front R2 bar.
Sheet 4, the existing table "IMPACT SHEAR AND IMPACT MOMENT TABLE" is renamed to "IMPACT SHEAR AND MOMENT TABLE DECK OVERHANG AND CONNECTIONS" keynote 25 is still applicable.
Sheet 4, NOTES, the following Note is added: "3. Deck overhangs for this use constitute plain reinforced concrete typically around 8" in thickness, non-prestressed moment slabs or approach slabs, or plain reinforced and longitudinally prestressed box girders which employ a topping slab. Other Supporting Structure Systems inclusive of post-tensioned decks, walls, and or Structure segments tied together without a topping slab, with the ties in the barrier resistance load path, shall use the impact shear and moments for other supporting structures."
Sheet 4, the following table is added with a keynote 25.

IMPACT SHEAR AND MOMENT TABLE OTHER SUPPORTING STRUCTURES										
	Interior Segment					End Segment				
Roadway and Fill Height at Curb Line (in)	0	6	12	18	24	0	6	12	18	24
End Segment Length (ft)	-	-	-	-	-	10.00	10.50	11.25	11.75	12.50
Impact Moment (kip*ft/ft)	19.86	24.12	28.55	33.16	37.97	20.80	25.17	29.65	34.27	39.04
Impact Shear (kip/ft)	7.89	8.04	8.23	8.44	8.68	8.27	8.39	8.54	8.72	8.92

C-81.15
Sheet 1, General Notes, Add Note 7, to read;"7. The concrete class for the moment slab shall be class 4000 typically and class 4000A when the top of the slab is used as the roadway, or sidewalk, surface. The concrete class for the barrier is defined in Standard Specification Section 6-10.3."

C-85.11
On Section B, the callout "3" EXPANDED POLYSTYRENE AROUND COLUMN (TYP.)" is revised to read "3" EXPANDED POLYSTYRENE OR POLYETHYLENE FOAM AROUND COLUMN (TYP.)"

D-3.09
Sheet 1, GEOSYNTHETIC WALL WITH 2 FT TRAFFIC SURCHARGE detail, callout – "BARRIER ON WALL ~ SEE Standard Plan D-3.15 or D-3.16" is revised to read: "BARRIER ON WALL ~ SEE CONTRACT PLANS"

D-3.10
Sheet 1, Typical Section, callout – "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.15" is revised to read; "FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS"
Sheet 1, Typical Section, callout – "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16" is revised to read; "FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS"

D-3.11
Sheet 1, Typical Section, callout – ""B" BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "B" BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)
Sheet 1, Typical Section, callout – "TYPICAL BARRIER ON BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16" is revised to read; "TYPICAL BARRIER ON BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

D-10.10
Note 7, "If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30" is revised to read "Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 1 and 1SW".

D-10.15
Note 7, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 2 and 2SW”.

D-10.30
Wall Type 5 may be used in all cases.

D-10.35
Wall Type 6 may be used in all cases.

D-10.40
Note 5, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 7”.

D-10.45
Note 5, “If Traffic Barriers are required, See Standard Plans D-15.10, D-15.20 and D-15.30” is revised to read “Traffic Barriers shall not be structurally connected to the Reinforced Concrete Retaining Wall Type 8”.

E-20.10
On Sheet 2, the reference to “2-09.4” is revised to read “3-07.4”.

F-10.18
Note 1; “Construct curb joints at cement concrete pavement transverse joint locations. If all adjacent pavement is HMA, see Standard Plan F-30.10 for Curb Expansion and Contraction Joint Spacing.” is revised to read – “See Standard Plan F-30.10 and Standard Specification Section 8-04.3 for Curb Expansion and Contraction Joint details and spacing.” CURB 3 Detail, the diamond note 1 callout on the 6” dimension at the bottom left side of the detail, is revised to be a diamond note 2 callout.

F-30.10
All five instances of the “2.0% MAX.” are replaced with “2.1% MAX.”

F-40.12
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 7 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement. When a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius along the back of the walkway.
Section B is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”
Section C is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”

F-40.14
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”

Note 7 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement. When a ramp is constructed on a radius, the Curb Ramp length is measured on the inside radius along the back of the walkway.
Section A is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”
Section C is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”

F-40.15
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 7 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement.
Section A is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”

F-40.16
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 8 is replaced with the following:
7. The running slope of curb ramps shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the landing. Do not include the abutting landing in the Curb Ramp length measurement.
Section A is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”
Section B is amended as follows:
Delete: “15’ – 0” MAX. (TYP.)”

F-80.10
The one instance of “2.0% MAX.” is replaced with “2.1% MAX.”
Note 6 is replaced with the following:
The running slope of the Pedestrian Ramp shall not exceed 8.3% maximum except as noted herein. If the 8.3% running slope creates a ramp that exceeds 15ft, see contract plans for details. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk.
Section A is amended as follows:
Delete: “15” Max.”

J-5.50
General Note 4 reference to “2-09.3(1)E” is revised to read “3-07.3(1)E”
General Note 5 reference to “2-09.3(1)E” is revised to read “3-07.3(1)E”

J-10.10
Sheet 4 of 6, “Foundation Size Reference Table”, PAD WIDTH column, Type 33xD=6’ – 3” is revised to read: 7’ – 3”. Type 342LX / NEMA P44=5’ – 10” is revised to read: 6’ – 10”

Sheet 5 of 6, Plan View, “FOR EXAMPLE PAD SHOWN HERE:, “first bullet” item, “-SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6” (IN)” IS REVISED TO READ: “SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6” (IN) (CHANNEL STEEL ADDS ABOUT 5” (IN)”

J-10.16
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.17
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.18
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-15.15
The reference to “2-09.3(1)E” is revised to read “3-07.3(1)E”

J-20.01
STANDARD DIMENSIONS AND REFERENCES table, TYPE FB, Standard Height column – “15’-0” ”is revised to read; “14’-0” ”

J-20.10
DELETED

J-20.11
DELETED

J-20.26
Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton post.”
Add General Note 2, to read: “Signs shown are for locations with pedestrian signal displays (Accessible Pedestrian Signals/APS). Accessible information device (AID) pushbuttons signs not shown.”
Revise View Titles (Both Sheets) to read: “ACCESSIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY”

J-20.16
View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10
Sheet 1, Anchor Bolt Template, callout; “9” (IN) BOLT CIRCLE” is revised to read: “9” (IN) DIA.BOLT CIRCLE”
Base Plate Detail, callout; “3/4” (IN) STEEL PLATE WITH HOLE = POLE BASE + 1/6” (IN)” IS REVISED TO READ; “3/4” (IN) STEEL PLATE WITH HOLE = POLE BASE + 1/16” (IN)”
Flat Foundation Detail – Elevation, callout; “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ THREE REQ’D. PER ASSEMBLY” is revised to read; “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ FOUR REQ’D. PER ASSEMBLY”
Flat Foundation Detail – Elevation, dimension; 4’ – 0” is revised to read; “4’ – 0” ROUND OR 3’ – 0” SQUARE”

J-21.15

Partial View, callout, was – LOCK NIPPLE ~ 1 ½" DIAM., is revised to read; CHASE NIPPLE ~ 1 ½" (IN) DIAM.

J-21.16
On both elevation views, the overall standard height dimension "15'-0" " is revised to read; "14'-0" "

J-26.10
The reference to "2-09.3(1)E" is revised to read "3-07.3(1)E"

J-27.10
The reference to "2-09.3(1)E" is revised to read "3-07.3(1)E"

J-28.30
General Note 13 – "See Standard Plans C-8b and C-85.14 for steel light standards on traffic barrier" is revised to read; "See Standard Plan C-85.15 for steel light standards on traffic barrier."

J-29.10
The reference to "2-09.3(1)E" is revised to read "3-07.3(1)E"

J-40.10
Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S. FLAT WASHER" is revised to read; "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 1/2" (IN) S. S. FLAT WASHER"

J-40.36
Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-40.37
Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-50.15
Sheet 1, SECTION A, the call out "LOOP LEAD-IN WIRES, TWISTED PAIRS ~ MAX. 3 PAIRS" is revised to read "LOOP LEAD-IN WIRES, TWISTED PAIRS ~ MAX. 6 PAIRS"
General Note 1 reference to "2-09.3(1)E" is revised to read "3-07.3(1)E"

J-75.20
Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel Bands", add the following to the end of the note: "Alternate: Stainless steel cable with stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel bands and associated hardware."

J-75.55
Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.

K-80.32

Sheet 1, END VIEW, the callout located at the base of barrier – "SEE NOTE 2" is revised to read: "SEE NOTE 3"
Sheet 2, WIRE ROPE LOOP DETAIL, dimension (overall length) – "SEE NOTE 1" is revised to read: "SEE NOTE 2"
Sheet 2, Side View (Right), callout – "WIRE ROPE LOOPS – SEE NOTE 1" is revised to read: "WIRE ROPE LOOPS – SEE NOTE 2"

L-5.10
Add new general Note 9 on sheet 1 – "9. The top of wall in Section A on Sheet 1 shall be located as follows: 1) flush with the finished grade when placed within the deflection distance of the long span guardrail system (Std. Plan C-20.40), 2) Two inches maximum above finished grade when placed behind a box culvert guardrail steel post system (Std. Plan C-20.41 or C-20.43), 3) Six inches minimum for all other applications. The bottom rail shall be located at mid height between the top rail and the top of structure."

M-20.30
Wide Dotted Lane Line Detail, reference below title, (SEE NOTE 6) is revised to read: (SEE NOTE 5)

M-40.10
Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - "(SEE NOTE 5)"

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.

A-10.10-00 ..... 8/7/07
A-10.20-00 ..... 10/5/07
A-10.30-00 ..... 10/5/07
A-20.10-00 ..... 8/31/07
A-30.10-00 ..... 11/8/07
A-30.30-01 ..... 6/16/11
A-30.35-00 ..... 10/12/07
A-40.00-01 ..... 7/6/22
A-40.10-04 ..... 7/31/19
A-40.15-00 ..... 8/11/09
A-40.20-04 ..... 1/18/17
A-40.50-03 ..... 9/12/23
A-50.10-02 ..... 7/18/24
A-50.40-01 ..... 8/17/21
A-60.10-03 ..... 12/23/14
A-60.20-03 ..... 12/23/14
A-60.30-01 ..... 6/28/18
A-60.40-00 ..... 8/31/07

B-5.20-03 ..... 9/9/20
B-5.40-02 ..... 1/26/17
B-5.60-02 ..... 1/26/17
B-10.20-03 ..... 8/23/23
B-10.40-02 ..... 8/17/21
B-10.70-03 ..... 8/23/23
B-15.20-01 ..... 2/7/12
B-15.40-01 ..... 2/7/12
B-15.60-02 ..... 1/26/17
B-20.20-02 ..... 3/16/12
B-20.40-04 ..... 2/27/18
B-20.60-03 ..... 3/15/12
B-25.20-02 ..... 2/27/18
B-25.60-03 ..... 8/23/23
B-30.05-00 ..... 9/9/20
B-30.10-03 ..... 2/27/18
B-30.50-03 ..... 2/27/18
B-30.60-00 ..... 9/9/20
B-30.40-03 ..... 2/27/18
B-30.70-04 ..... 2/27/18
B-30.80-01 ..... 2/27/18
B-30.90-02 ..... 1/26/17
B-35.20-00 ..... 6/8/06
B-35.40-01 ..... 8/23/23
B-40.20-00 ..... 6/1/06
B-40.40-02 ..... 1/26/17
B-45.20-01 ..... 7/11/17
B-45.40-01 ..... 7/21/17
B-50.20-00 ..... 6/1/06
B-55.20-03 ..... 8/17/21
B-60.20-02 ..... 9/9/20
B-60.40-01 ..... 2/27/18
B-75.20-03 ..... 8/17/21
B-75.50-02 ..... 3/15/22
B-70.60-01 ..... 1/26/17
B-75.60-00 ..... 6/8/06
B-80.20-00 ..... 6/8/06
B-80.40-00 ..... 6/1/06
B-85.10-01 ..... 6/10/08
B-85.20-00 ..... 6/1/06
B-85.30-00 ..... 6/1/06
B-85.40-00 ..... 6/8/06
B-85.50-01 ..... 6/10/08
B-90.10-00 ..... 6/8/06
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B-90.30-00 ..... 6/8/06
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B-90.50-00 ..... 6/8/06

B-30.15-00 ..... 2/27/18
B-30.20-04 ..... 2/27/18
B-30.30-03 ..... 2/27/18
B-65.20-01 ..... 4/26/12
B-65.40-00 ..... 6/1/06
B-70.20-01 ..... 3/15/22
B-95.20-02 ..... 8/17/21
B-95.40-01 ..... 6/28/18

C-1 ..... 9/8/22
C-1b 10/12/23
C-1d 10/31/03
C-6a 9/8/22
C-7 ..... 9/8/22
C-7a 9/8/22
C-20.10-09 ..... 10/12/23
C-20.14-05 ..... 9/8/22
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C-20.41-05 ..... 7/18/24
C-20.43-01 ..... 7/18/24
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C-22.16-08 ..... 10/17/23
C-22.40-11 ..... 7/21/24
C-22.45-07 ..... 7/21/24
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C-81.10-00 ..... 9/12/23
C-81.15-00 ..... 9/12/23

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G-10.10-00 ..... 9/20/07
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J-81.12-00 .....9/3/21
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J-86.10-00 .....6/28/18
J-90.10-03 .....6/28/18
J-90.20-03 .....6/28/18
J-90.21-02 .....6/28/18
J-90.50-00 .....6/28/18

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K-80.34-00..... 8/17/21
K-80.35-01.....9/16/20
K-80.37-01.....9/16/20

L-5.10-02..... 6/5/24
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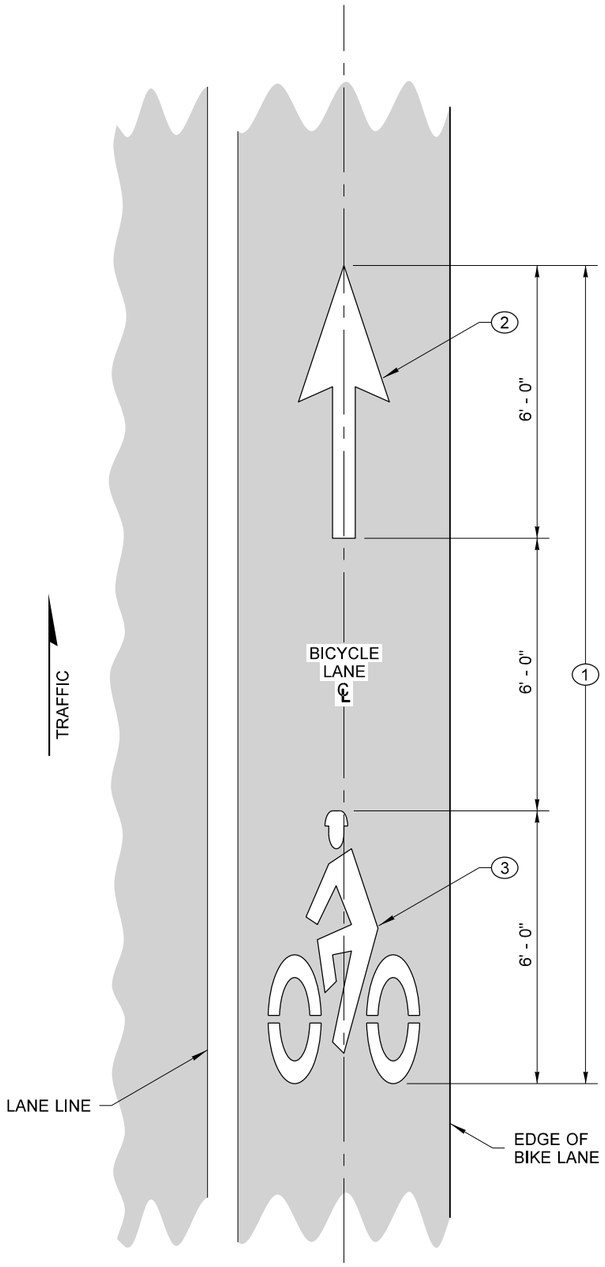
M-80.30-00 .....6/10/08

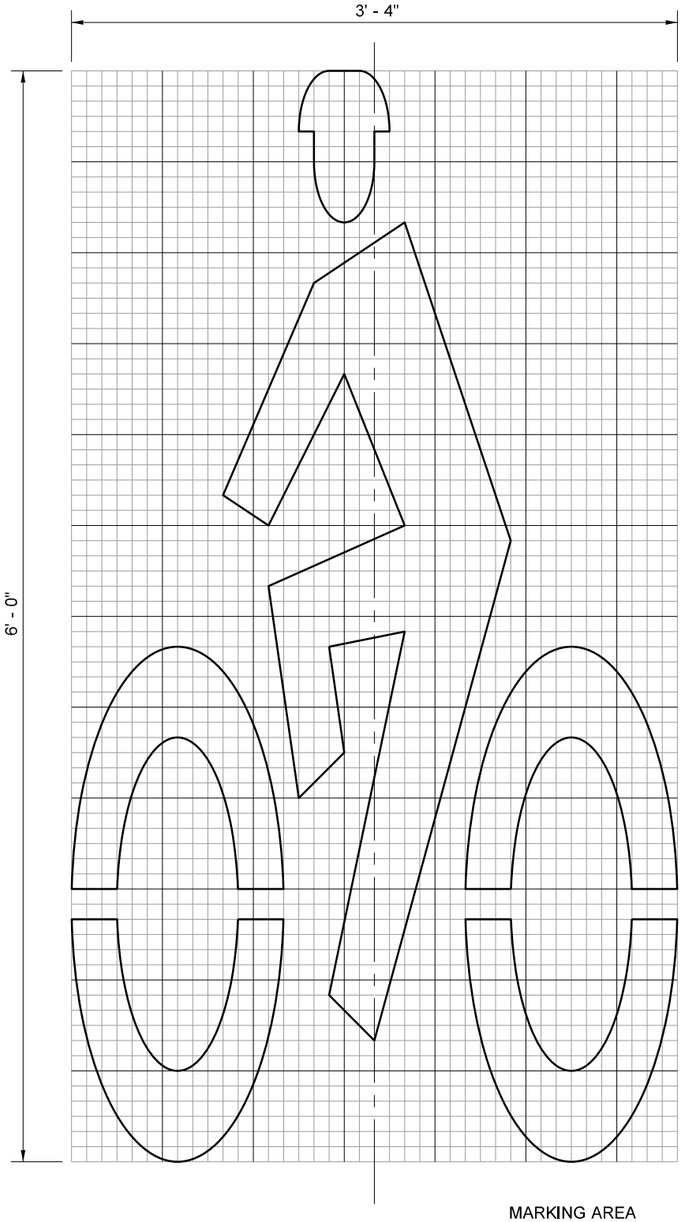
PART FOUR

STANDARD PLANS

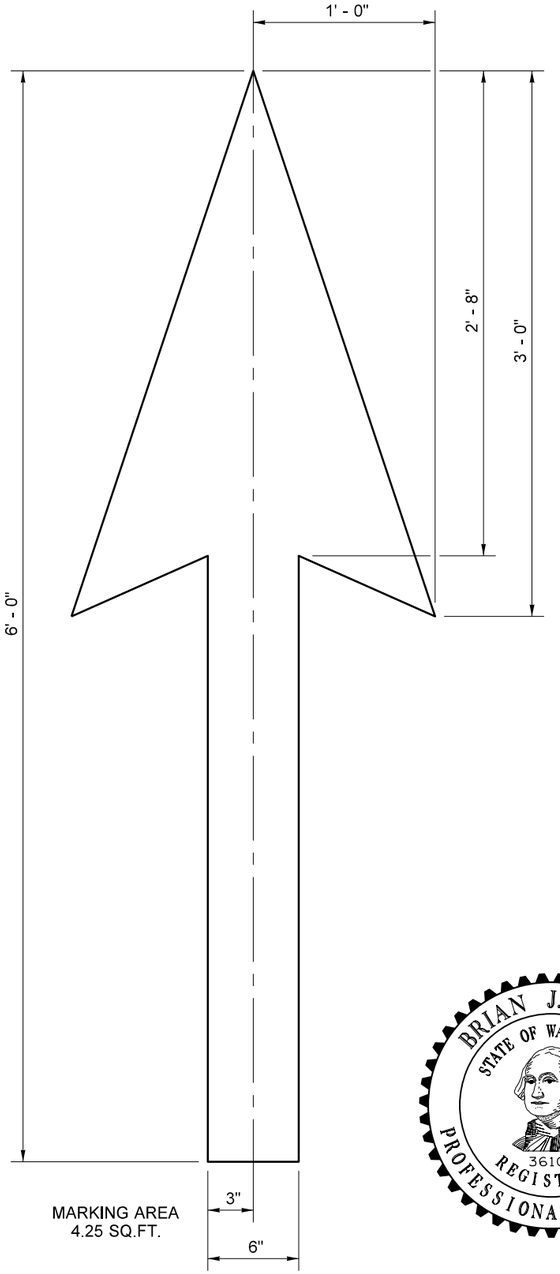
DRAWN BY: MARK SUJKA



BICYCLE LANE SYMBOL LAYOUT



BIKE RIDER SYMBOL DETAIL



BIKE LANE ARROW DETAIL

KEY NOTES

1. Bid Item "Bicycle Lane Symbol" includes Bike Lane Arrow and Bike Rider Symbol.
2. 2' (ft) x 6' (ft) White Bike Lane Arrow.
3. Bike Rider Symbol.

GENERAL NOTE

See Contract for location and material requirements.

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER

BICYCLE LANE SYMBOL LAYOUT

STANDARD PLAN M-9.50-02

SHEET 1 OF 1 SHEET

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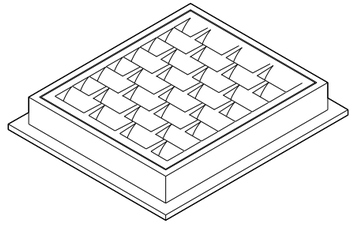
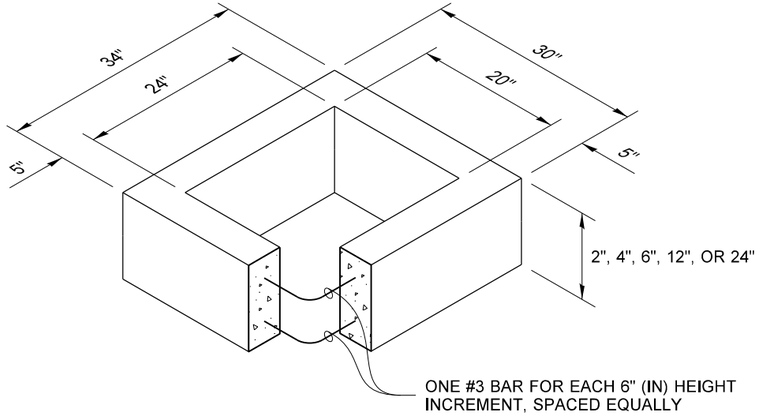
STATE DESIGN ENGINEER

Washington State Department of Transportation

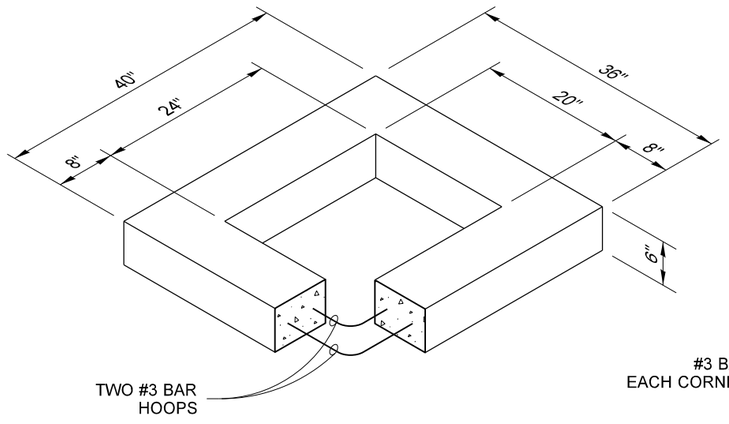
DRAWN BY: LISA CYFORD



FRAME AND VANED GRATE



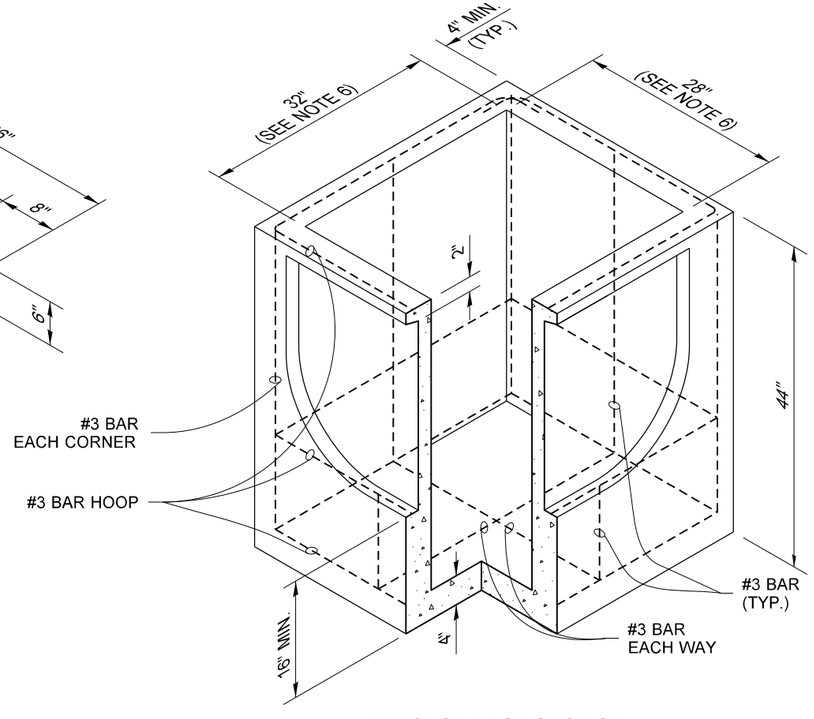
RECTANGULAR ADJUSTMENT SECTION



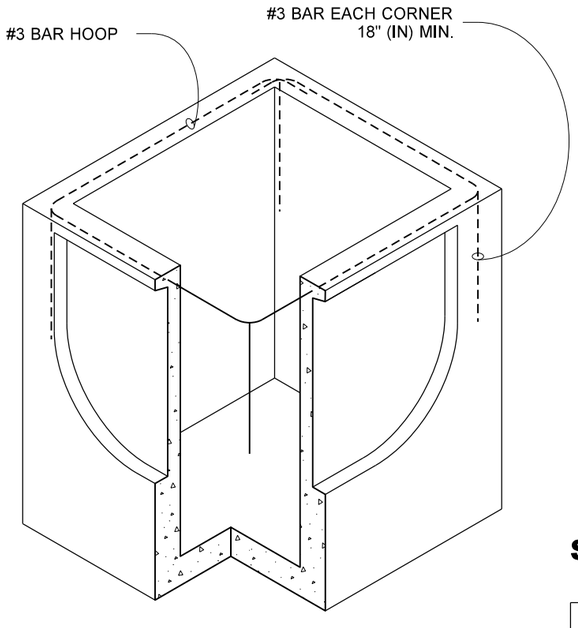
REDUCING SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	**MAXIMUM INSIDE DIAMETER (INCHES)**
REINFORCED OR PLAIN CONCRETE	18"
ALL METAL PIPE	21"
CPSSP * **(STD. SPEC. SECT. 9-05.20)**	18"
SOLID WALL PVC **(STD. SPEC. SECT. 9-05.12(1))**	21"
PROFILE WALL PVC **(STD. SPEC. SECT. 9-05.12(2))**	21"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



PRECAST BASE SECTION



(SEE NOTE 1)

ALTERNATIVE PRECAST BASE SECTION

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 shall not be greater than 26" (in), in any direction. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) 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 Section 9-04.3**.

3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).

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.

CATCH BASIN TYPE 1L

STANDARD PLAN B-5.40-02

SHEET 1 OF 1 SHEET

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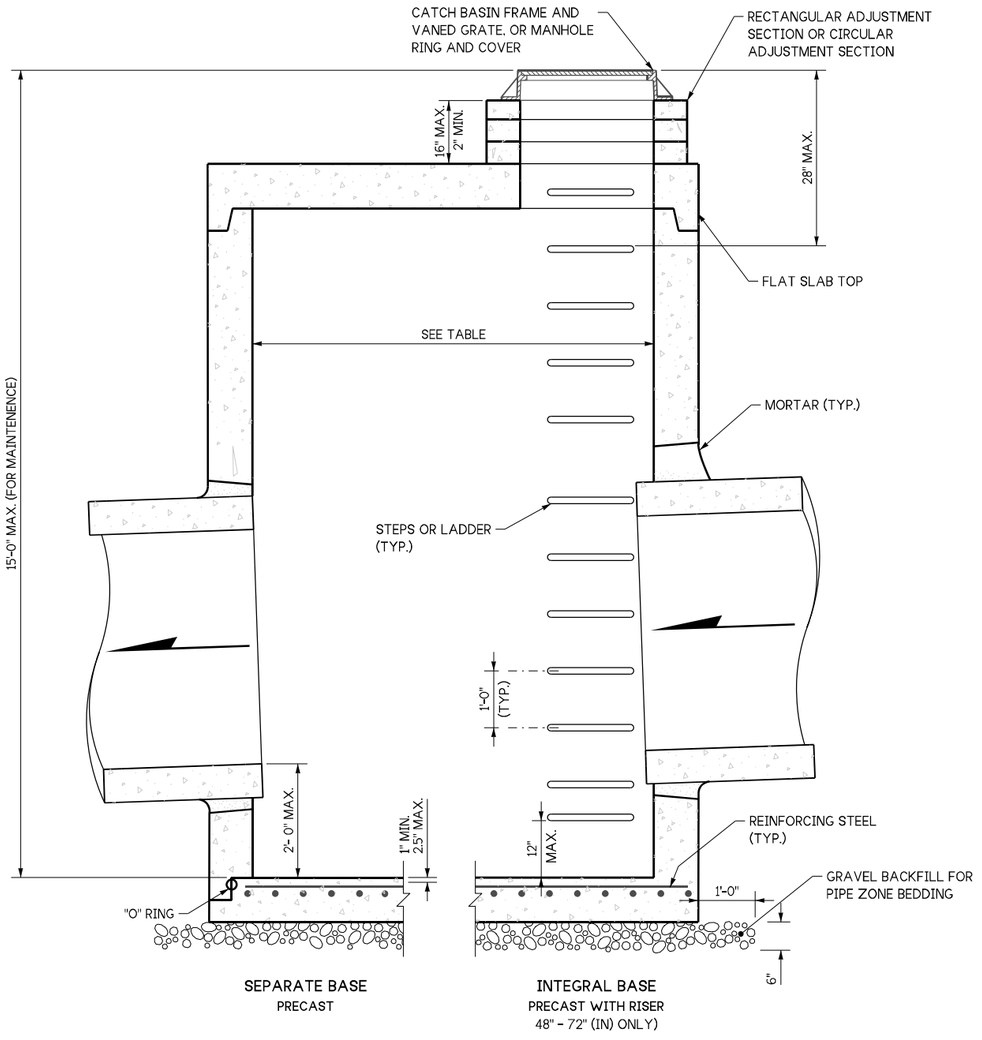
STATE DESIGN ENGINEER

Washington State Department of Transportation



SEPARATE BASE
PRECAST

INTEGRAL BASE
PRECAST WITH RISER
48" – 72" (IN) ONLY)

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" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) 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 Section 9-04.3.**
5. Pipe allowances will vary depending on the pipe material used. Contact the Region Hydraulics Engineer for assistance.

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ① PP ④	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

① Corrugated Polyethylene Storm Sewer Pipe
(See **Standard Specification** Section 9-05.20)
② (See **Standard Specification** Section 9-05.12(1))
③ (See **Standard Specification** Section 9-05.12)2))
④ Polypropolyne Pipe (See **Standard Specification** Section 9-05.24)

JULIE HEILMAN
STATE OF WASHINGTON
41819
REGISTERED
PROFESSIONAL ENGINEER

Aug 23, 2023

CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-03

SHEET 1 OF 1 SHEET

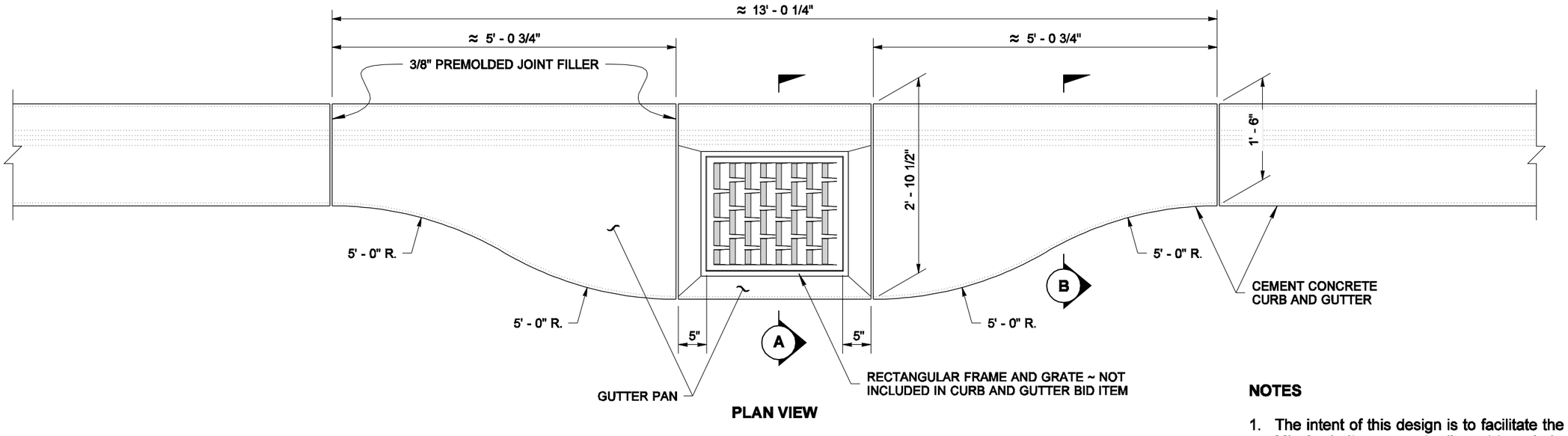
APPROVED FOR PUBLICATION

Mark A Gaines Aug 23, 2023

STATE DESIGN ENGINEER

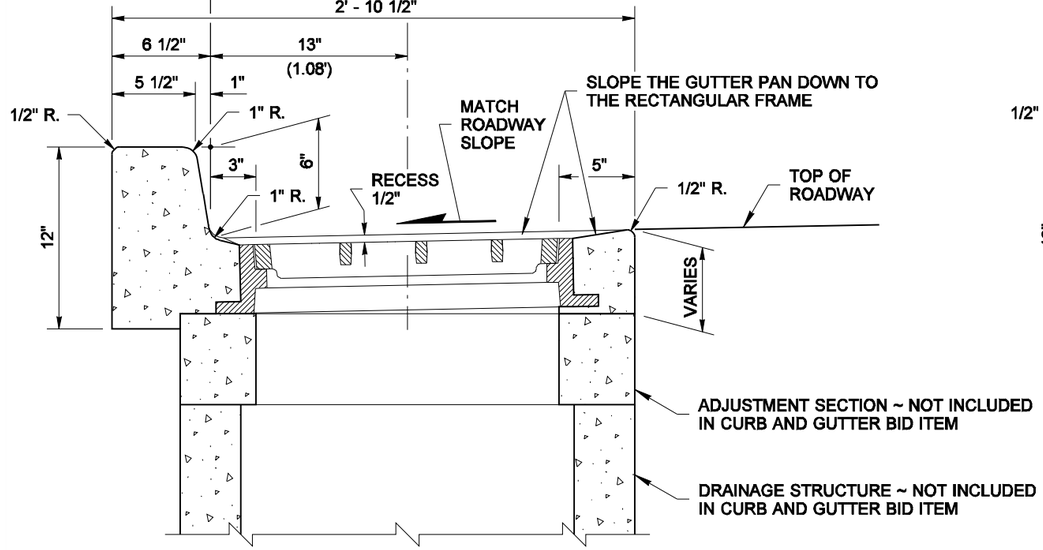
Washington State Department of Transportation

DRAWN BY: MARK SUJKA

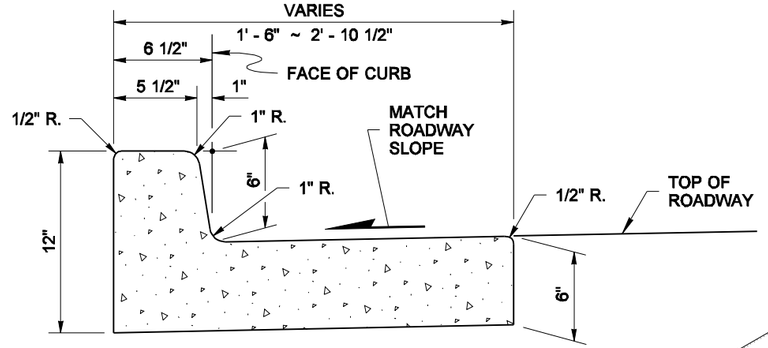


PLAN VIEW

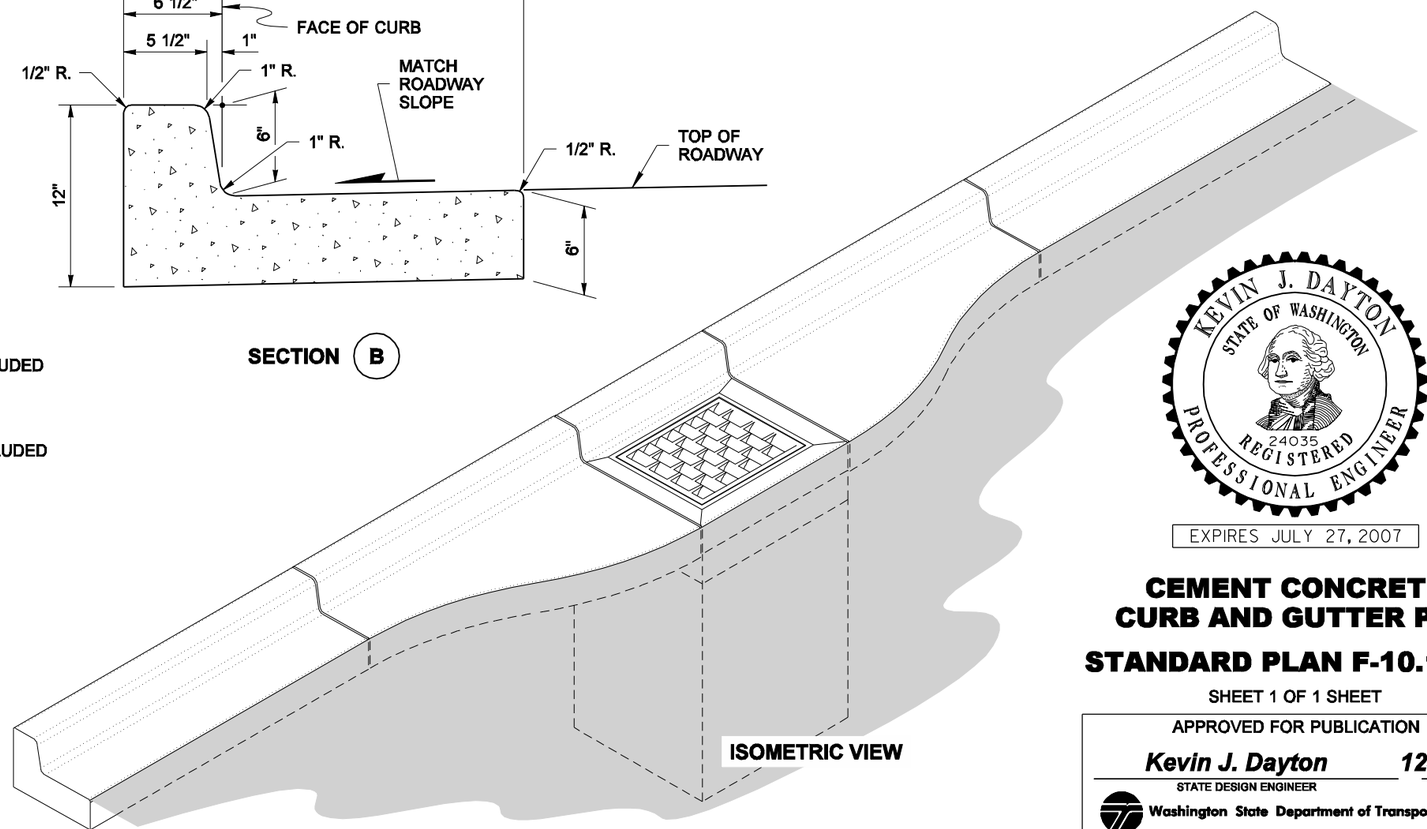
CATCH BASIN GUTTER PAN



SECTION (A)



SECTION (B)



ISOMETRIC VIEW

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.

EXPIRES JULY 27, 2007

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

CEMENT CONCRETE CURB AND GUTTER PAN

STANDARD PLAN F-10.16-00

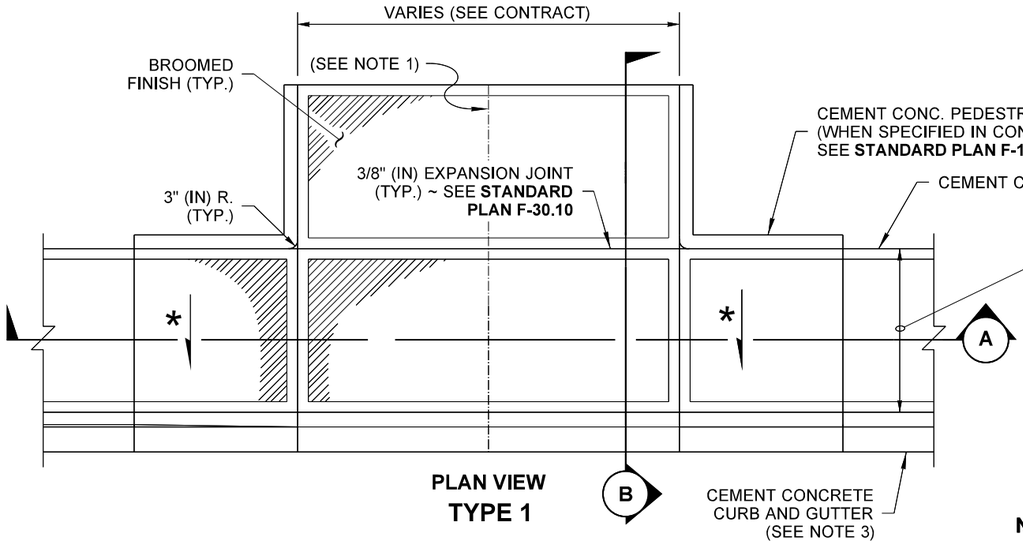
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

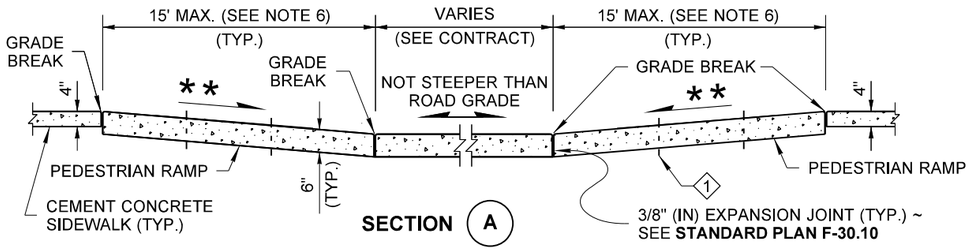
Kevin J. Dayton — *12-20-06*

STATE DESIGN ENGINEER — DATE

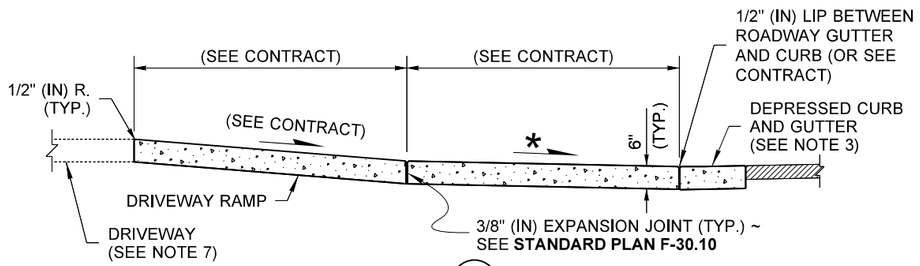
Washington State Department of Transportation



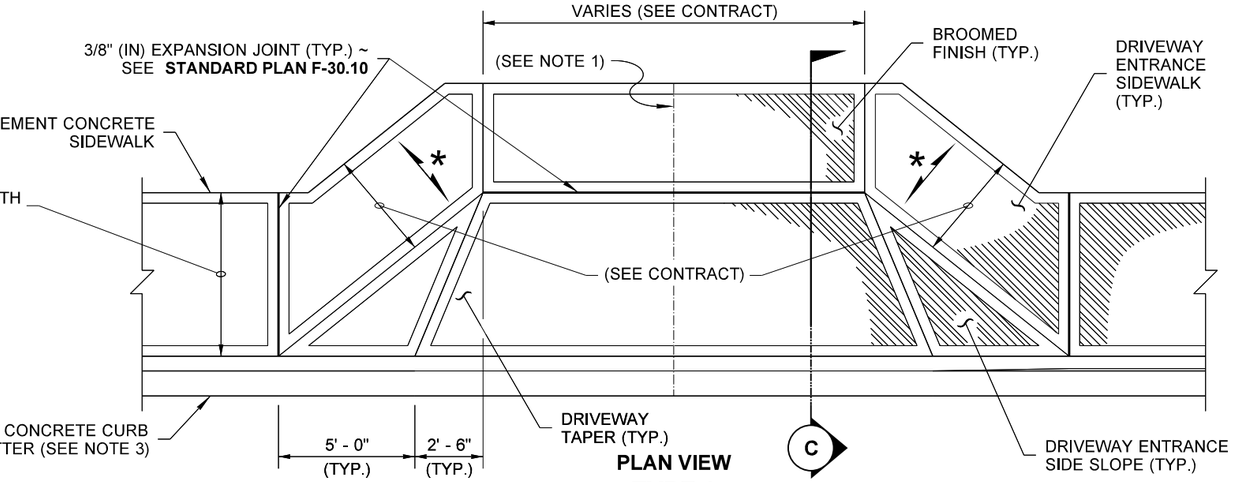
PLAN VIEW
TYPE 1



SECTION A



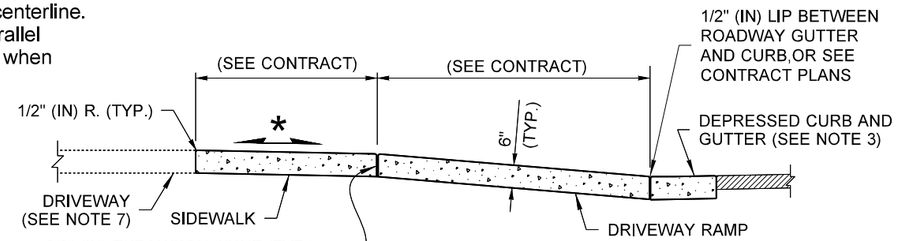
SECTION B



PLAN VIEW
TYPE 2

NOTES

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).
2. See **Standard Plan F-30.10** for sidewalk details.
3. Curb and Gutter shown; see the Contract Plans for the curb design specified. See **Standard Plan F-10.12** 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 Pedestrian Ramp length is not required to exceed15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the pedestrian ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
7. Beyond limits shown. Pay item does not include driveway. See Contract Plans.



SECTION C

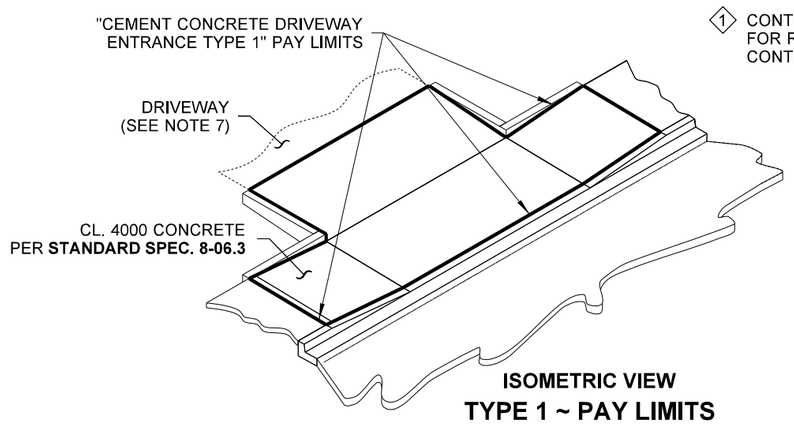
LEGEND

SLOPE IN EITHER DIRECTION

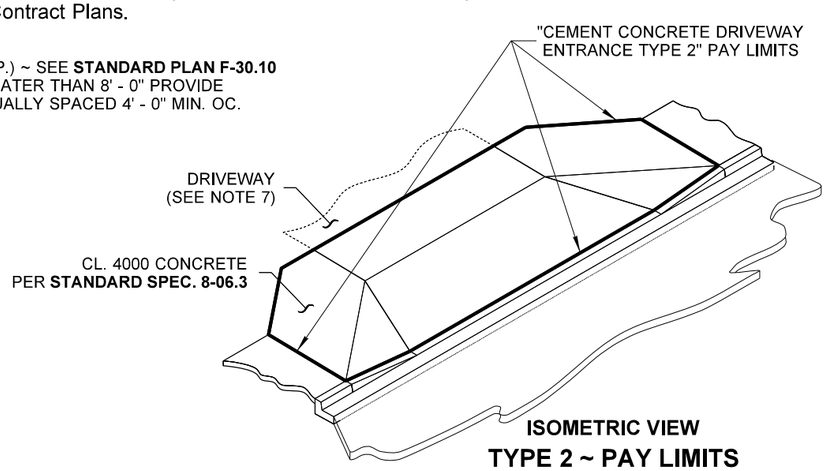
* 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) (SEE NOTE 6)

1 CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.10** FOR RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



ISOMETRIC VIEW
TYPE 1 ~ PAY LIMITS



ISOMETRIC VIEW
TYPE 2 ~ PAY LIMITS

DRAWN BY: FERN LIDDELL

R. SCOTT ZELLER
STATE OF WASHINGTON
28680
REGISTERED
PROFESSIONAL ENGINEER

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4

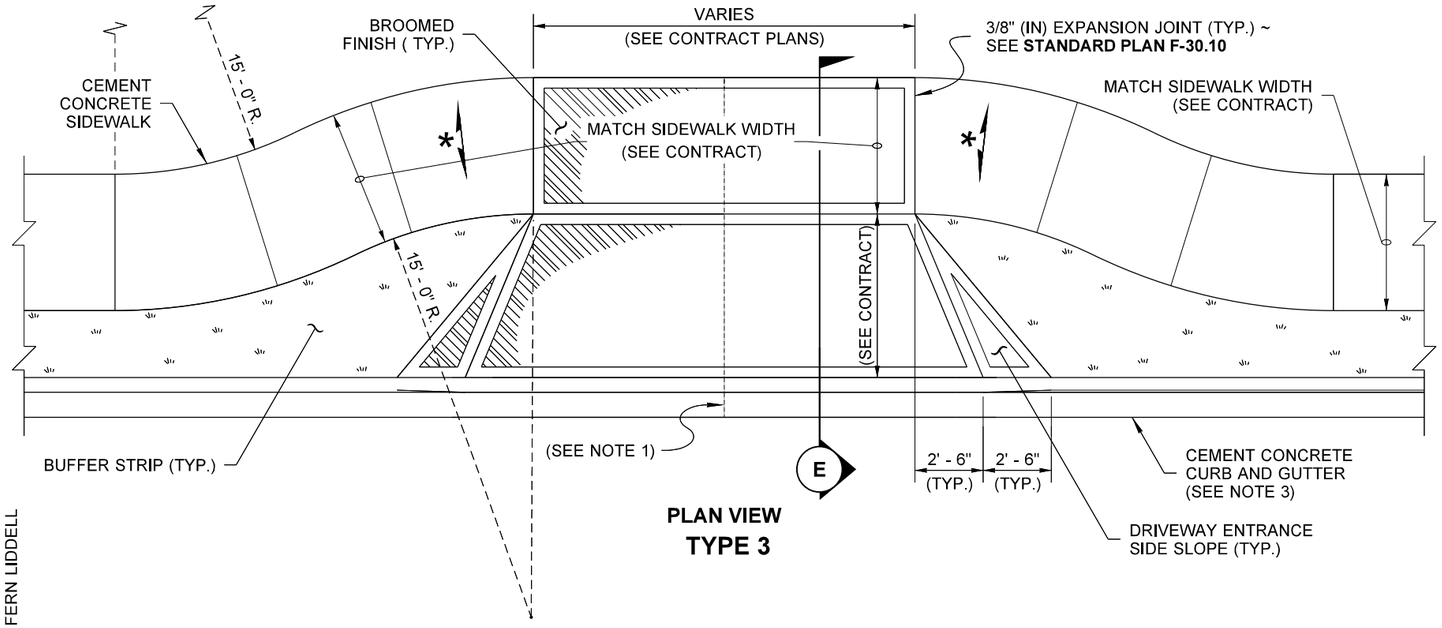
STANDARD PLAN F-80.10-04

SHEET 1 OF 2 SHEETS

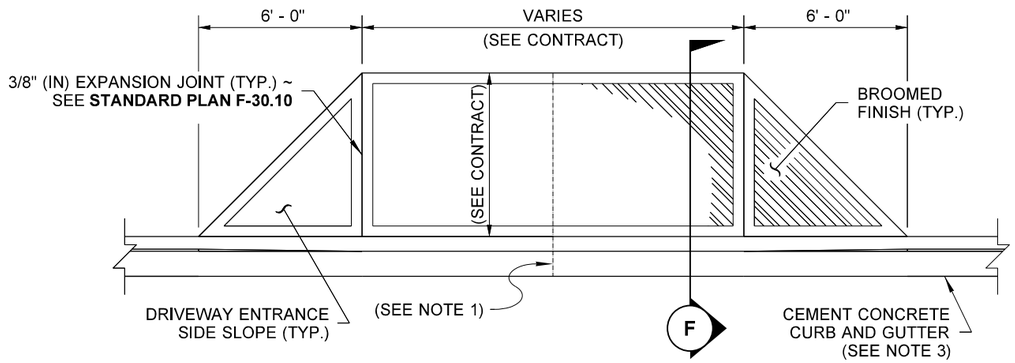
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation



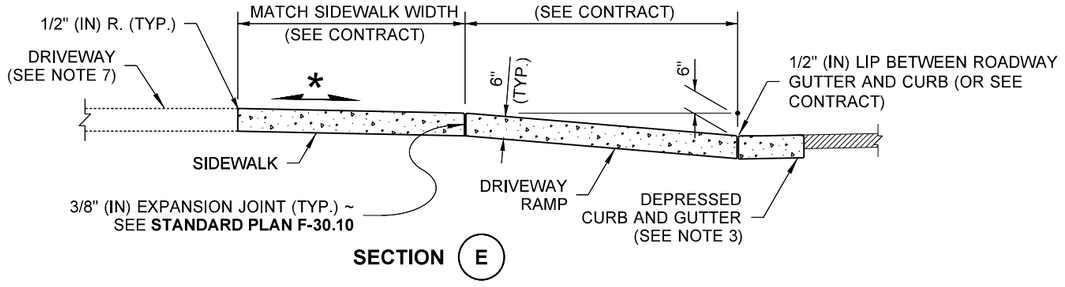
PLAN VIEW
TYPE 3



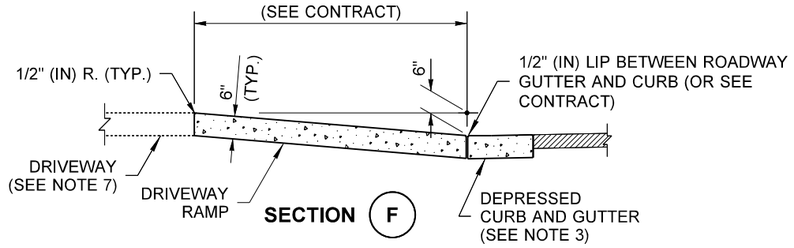
PLAN VIEW
TYPE 4 ✳

✳ THIS ENTRANCE TYPE SHALL NOT BE USED ALONG A PEDESTRIAN ROUTE

DRAWN BY: FERN LIDDELL



SECTION (E)



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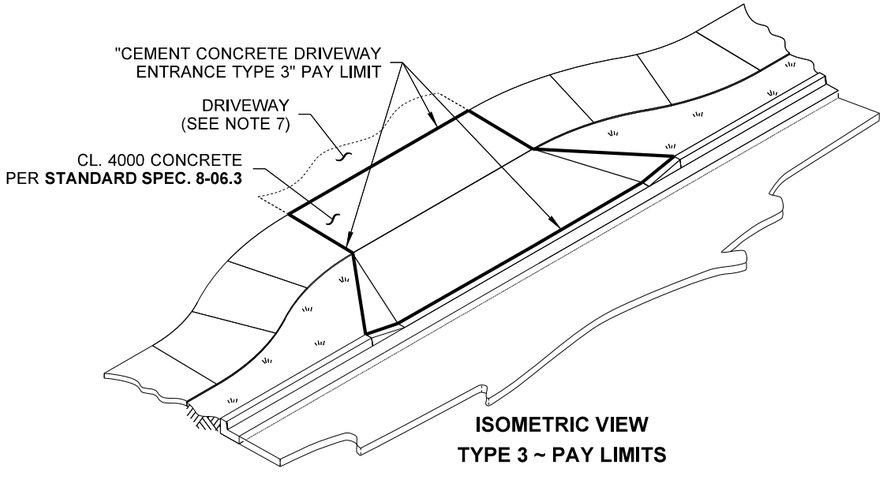
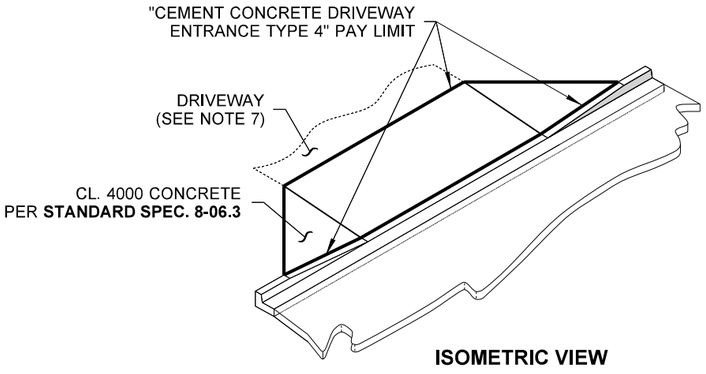


ISOMETRIC VIEW
TYPE 3 ~ PAY LIMITS



ISOMETRIC VIEW
TYPE 4 ~ PAY LIMITS

R. SCOTT ZELLER
STATE OF WASHINGTON
28680
REGISTERED
PROFESSIONAL ENGINEER

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4

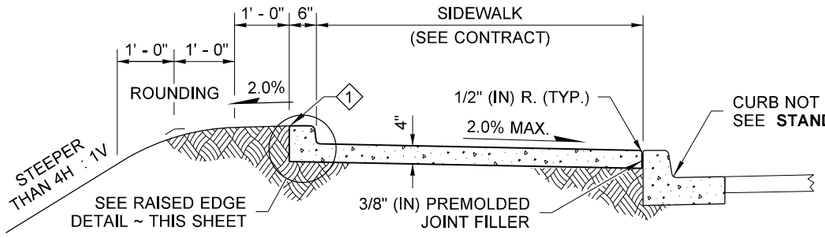
STANDARD PLAN F-80.10-04

SHEET 2 OF 2 SHEETS

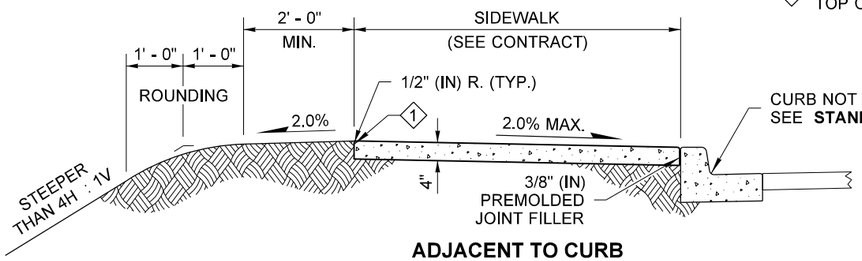
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

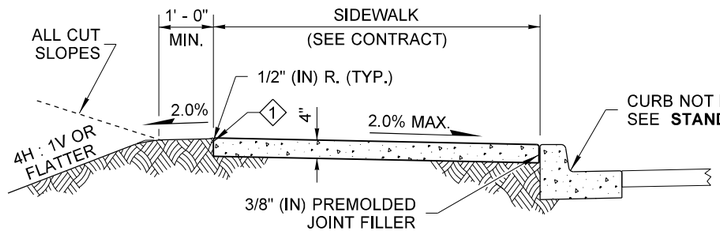
Washington State Department of Transportation



WITH RAISED EDGE



ADJACENT TO CURB
(STEEP FILL SLOPES)



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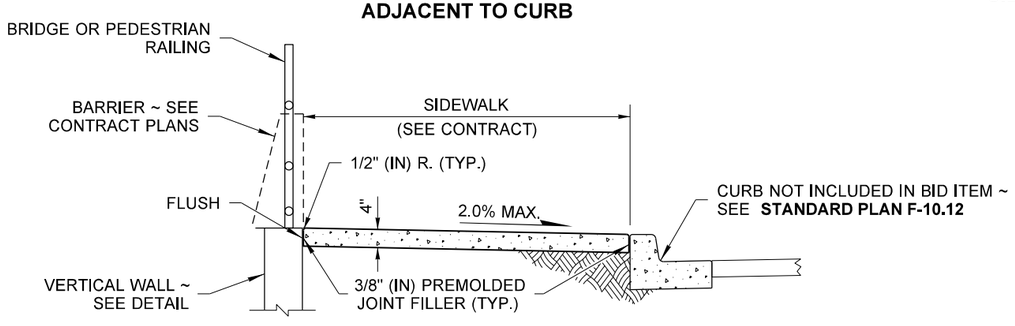
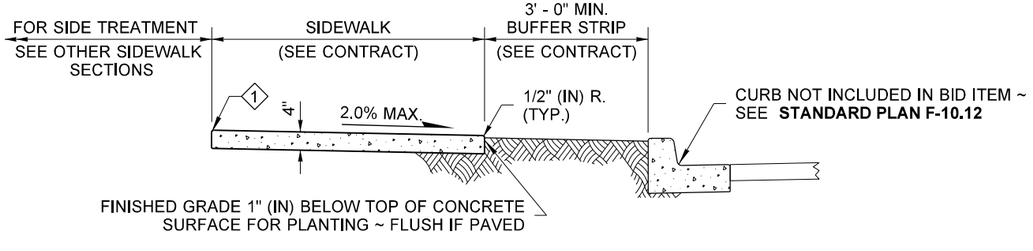
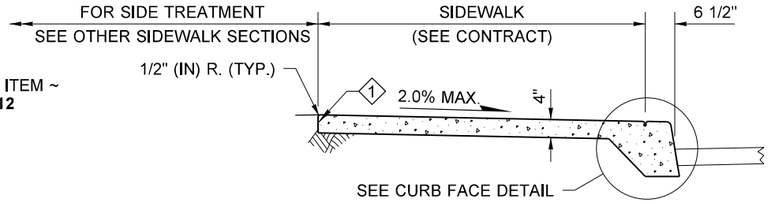


ADJACENT TO CURB AND RAILING OR WALL



ADJACENT TO BUFFER STRIP

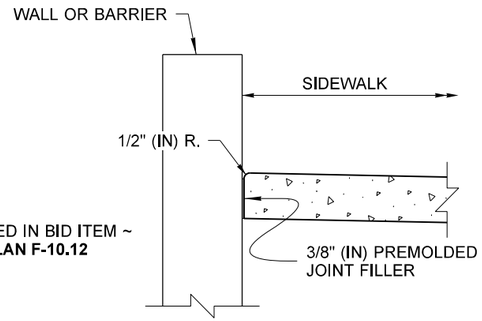
1 FINISHED GRADE 1" (IN) BELOW TOP OF CONCRETE SURFACE



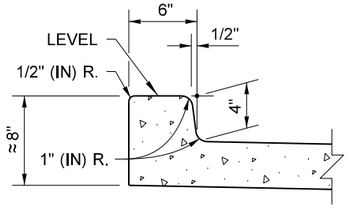
MONOLITHIC CEMENT CONCRETE CURB AND SIDEWALK

NOTE

1. Gratings, Access Covers, Junction Boxes, Cable Vaults, Pull Boxes and other appurtenances within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.

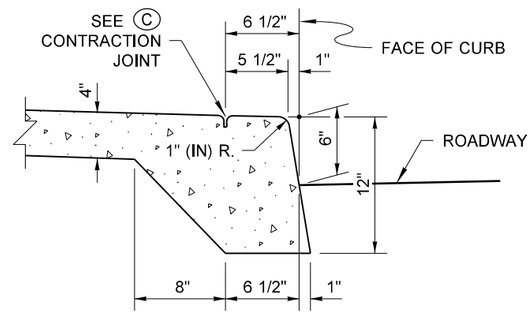


SIDEWALK ADJACENT TO WALL DETAIL



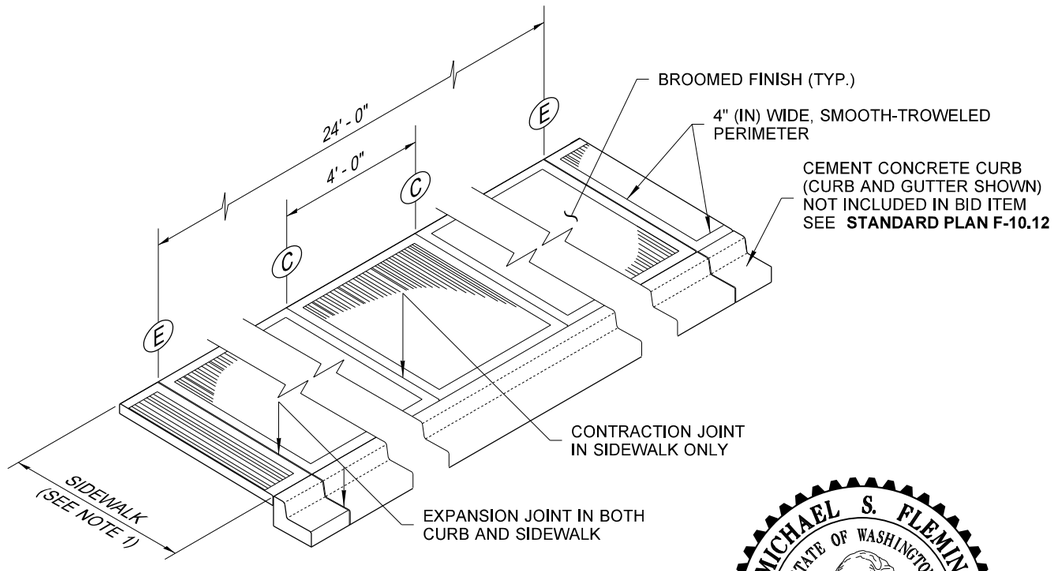
RAISED EDGE DETAIL

EXTEND SIDEWALK TRANSVERSE
JOINTS TO INCLUDE RAISED EDGE



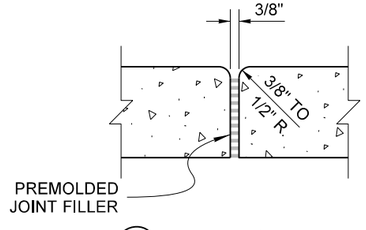
CURB FACE DETAIL

EXTEND SIDEWALK TRANSVERSE EXPANSION
JOINTS TO INCLUDE CURB (FULL DEPTH)

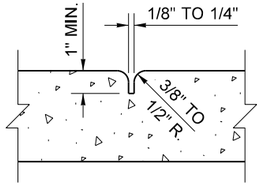


ISOMETRIC VIEW

JOINT AND FINISH DETAIL



(E) EXPANSION JOINT



(C) CONTRACTION JOINT

DRAWN BY: LISA CYFORD

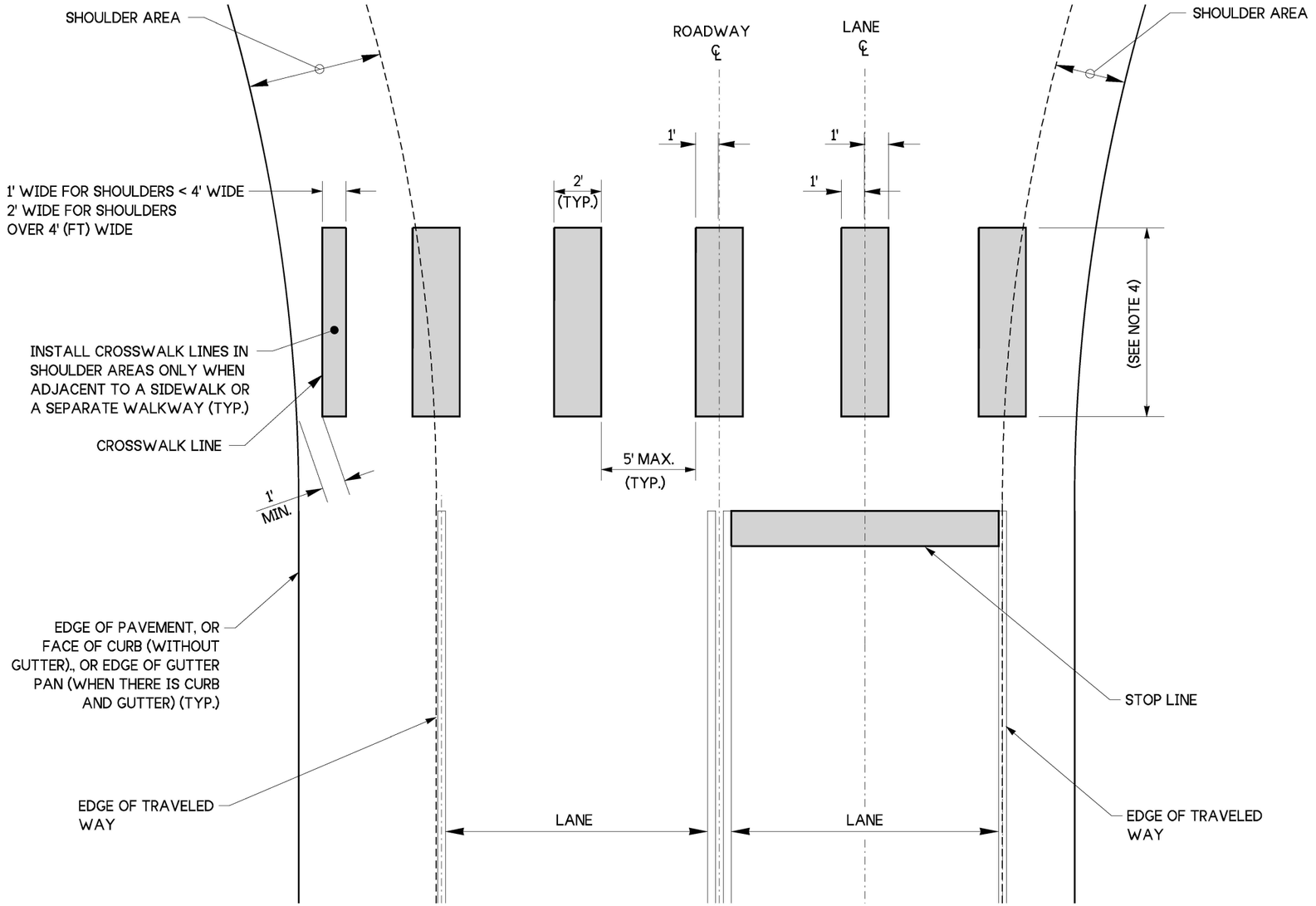
Michael S Fleming
Digitally signed by Michael S Fleming
Date: 2020.09.24 07:40:16 -07'00'

CEMENT CONCRETE SIDEWALK

STANDARD PLAN F-30.10-04

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.25 15:43:50 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation



CROSSWALK DETAIL

NOTES:

1. See Contract Plans for crosswalk locations.
2. To the maximum extent possible, curb ramp centerline should be perpendicular to the crosswalk centerline.
3. To the maximum extent possible, crosswalks should be perpendicular to the traveled way centerline.
4. See Contract plans for crosswalk width.
5. To maximim extent possible, place crosswalk bars out of the wheel paths.

SCOTT ANDREW DAVIS
STATE OF WASHINGTON
37361
REGISTERED
PROFESSIONAL ENGINEER

Scott A Davis (Jul 17, 2023 15:48 PDT)

Jul 17, 2023

CROSSWALK LAYOUT

STANDARD PLAN M-15.10-02

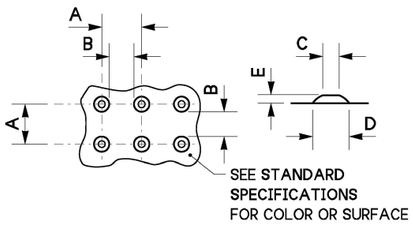
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Mark A Doires Jul 17, 2023

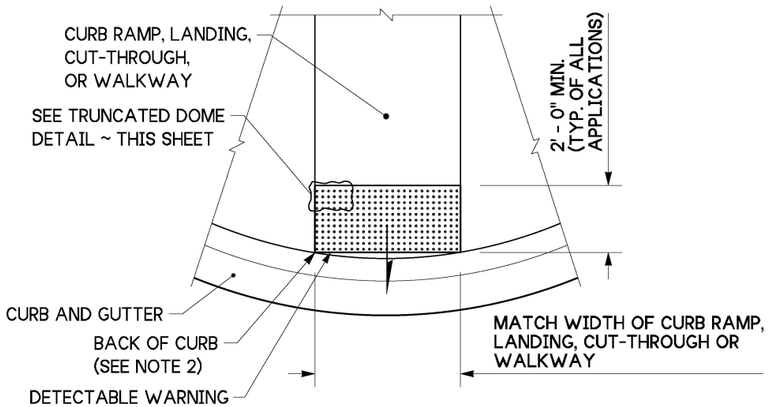
STATE DESIGN ENGINEER

Washington State
Department of Transportation

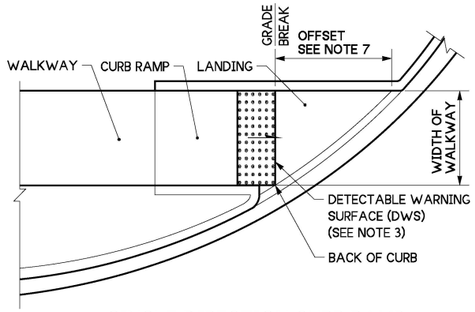


	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	
C	0.45"	0.90"
D	0.90"	1.40"
E	0.20"	0.20"

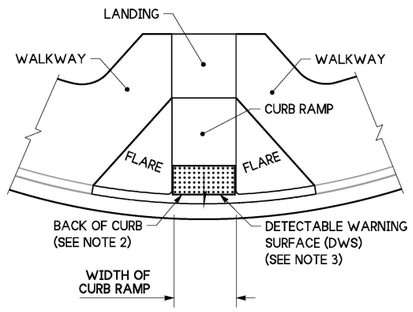
TRUNCATED DOME DETAILS
(SEE NOTE 3)



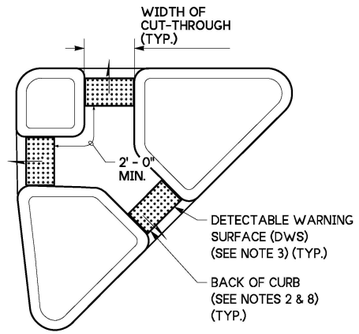
DETECTABLE WARNING SURFACE DETAIL



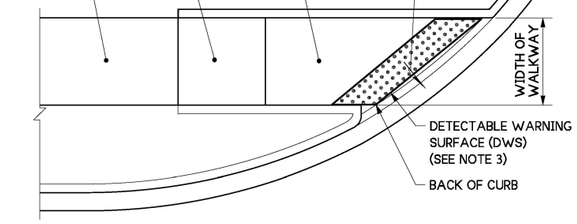
SINGLE DIRECTION CURB RAMP
(GRADE BREAK BETWEEN CURB AND LANDING < 5 FEET FROM BACK OF CURB)
(SEE NOTE 5)



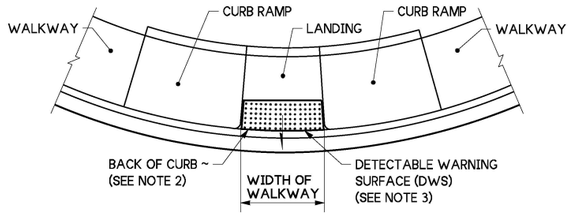
PERPENDICULAR CURB RAMP
(SEE NOTE 6)



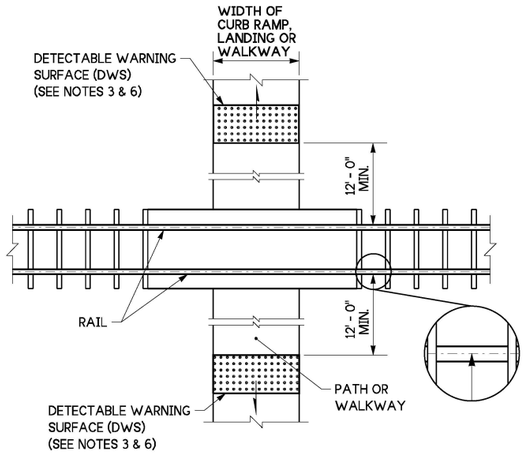
ISLAND CUT-THROUGH



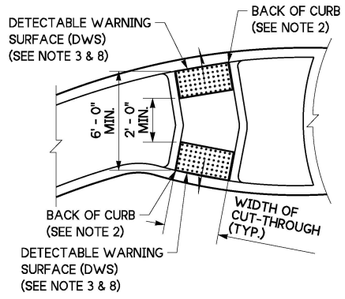
SINGLE DIRECTION CURB RAMP
(GRADE BREAK BETWEEN CURB AND LANDING > 5 FEET FROM BACK OF CURB)
(SEE NOTE 5)



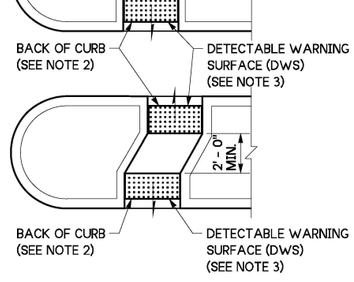
PARALLEL CURB RAMP
(SEE NOTE 6)



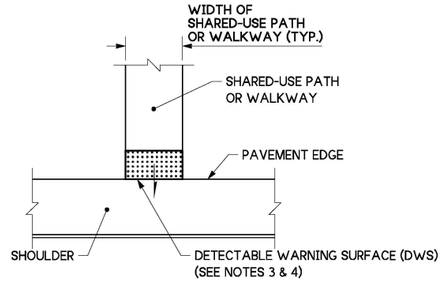
PEDESTRIAN PAILROAD CROSSING



ROUNDABOUT SPLITTER ISLAND



MEDIAN CUT-THROUGH



SHARED-USE PATH CONNECTION

NOTES:

1. Permanent Detectable Warning Surfaces (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2" (in) on each side of the DWS is permitted.

2. Permanent Detectable Warning Surfaces (DWS) shall be placed on a minimum 4" (in) thick concrete pad. The DWS panel shall be placed adjacent to the back of the curb and with no more than a 2" (in) gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2" (in) from the back of the curb is permitted (measured at the leading corners of the DWS panel).

3. The rows of truncated domes shall be aligned to be parallel to the direction of travel, and perpendicular to the grade break at the back of curb.

4. 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.

5. See **Standard Plans** for sidewalk and curb ramp details.

6. 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 crossing.

7. When the grade break between the curb ramp and the landing is less than or equal to 5 feet from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.

8. Glued or stick down Detectable Warning Surfaces are allowed only for temporary work zone applications.

LEGEND
DIRECTION OF TRAVEL

JOANNA W. LOWREY
STATE OF WASHINGTON
42015
REGISTERED
PROFESSIONAL ENGINEER

Jun 4, 2024

DETECTABLE WARNING SURFACE

STANDARD PLAN F-45.10-05

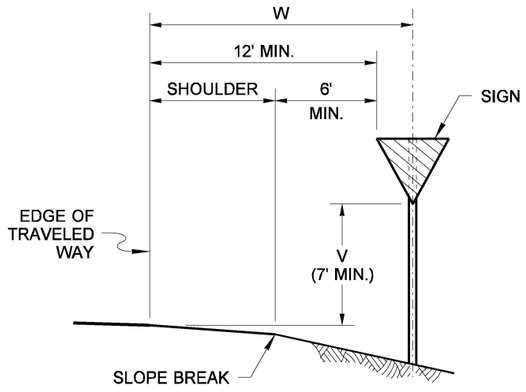
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

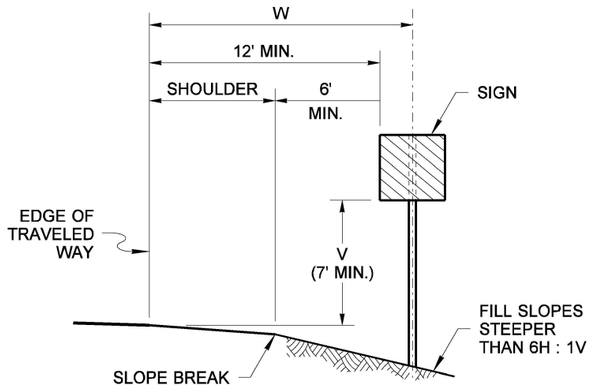
Mark A Doires Jun 4, 2024

STATE DESIGN ENGINEER

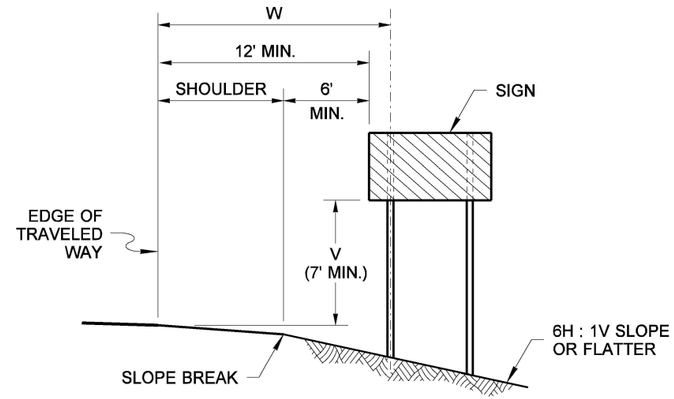
Washington State Department of Transportation



SIGN INSTALLATION IN FILL SECTION



SIGN INSTALLATION ON STEEP FILL SLOPES

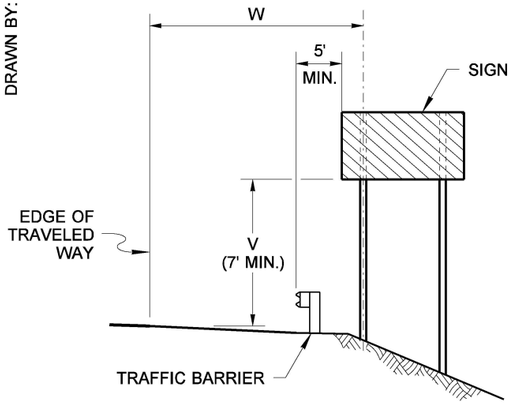


MULTIPLE SIGN POST INSTALLATION IN FILL SECTION

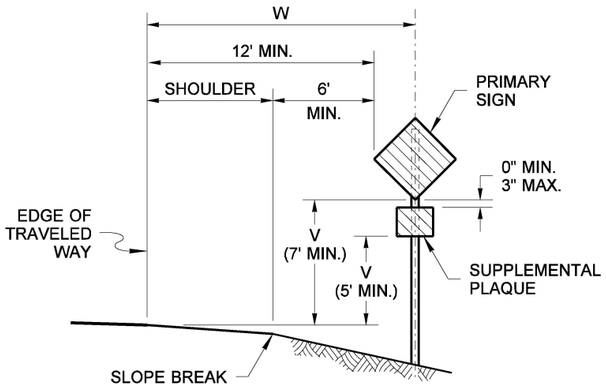
NOTES

1. Refer to the Sign Specification Sheet of the Contract for the 'V' and 'W' distances.
2. The minimum vertical distance from the bottom of the sign to the ground shall not be less than 7' (ft) for signs located within the Design Clear Zone.

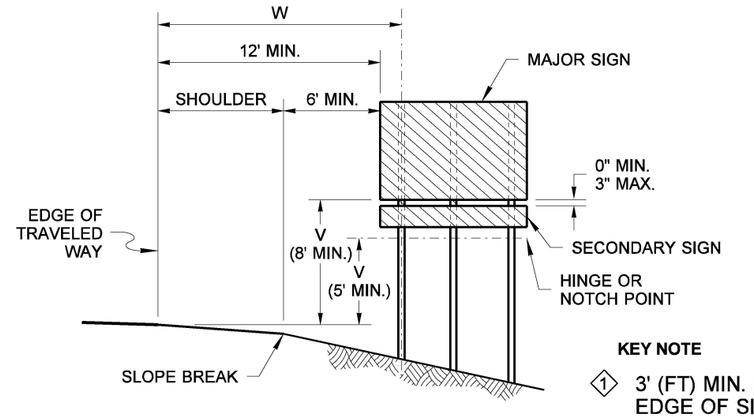
DRAWN BY: FERN LIDDELL



SIGN INSTALLATION BEHIND TRAFFIC BARRIER



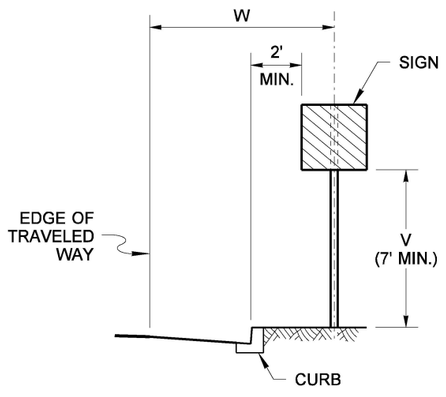
SIGN WITH SUPPLEMENTAL PLAQUE INSTALLATION IN FILL SECTION



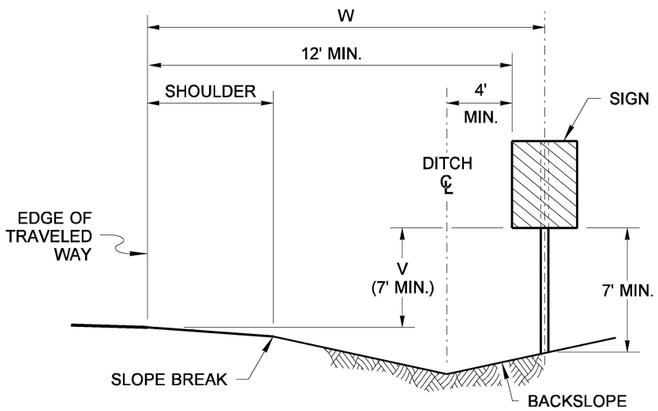
KEY NOTE

1. 3' (FT) MIN. FROM ANY POINT ALONG BOTTOM EDGE OF SIGN PANEL TO THE GROUND

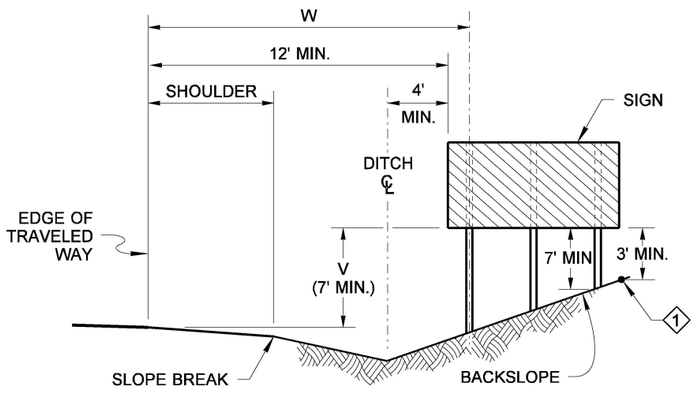
GUIDE OR DIRECTIONAL SIGN WITH SECONDARY SIGN INSTALLATION ON EXPRESSWAYS AND FREEWAYS



SIGN INSTALLATION IN CURB SECTION



SIGN INSTALLATION IN DITCH SECTION



MULTIPLE SIGN POST INSTALLATION IN DITCH SECTION

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER
Brian J Walsh
Brian J Walsh (Aug 20, 2021 15:39 PDT)

Aug 20, 2021

GROUND MOUNTED SIGN PLACEMENT

STANDARD PLAN G-20.10-03

SHEET 1 OF 1 SHEET

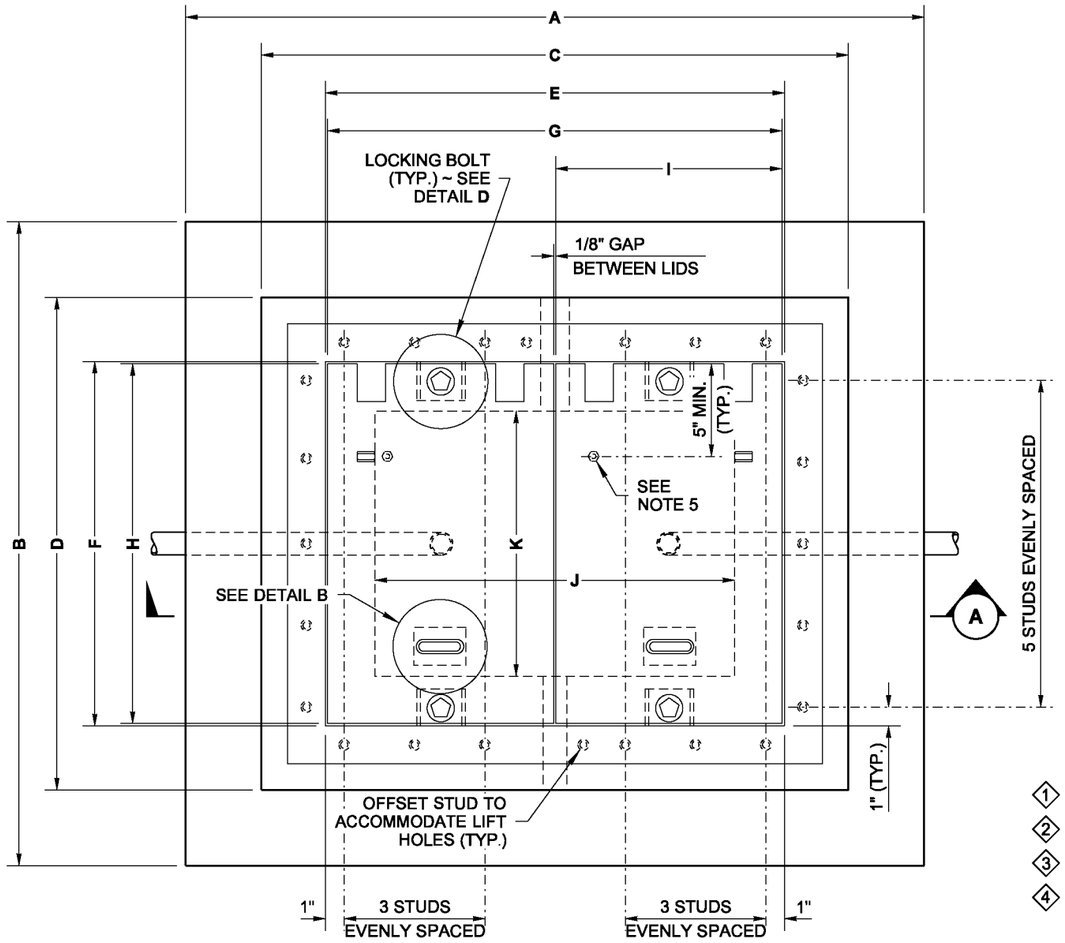
APPROVED FOR PUBLICATION

Aug 20, 2021

STATE DESIGN ENGINEER

Washington State Department of Transportation

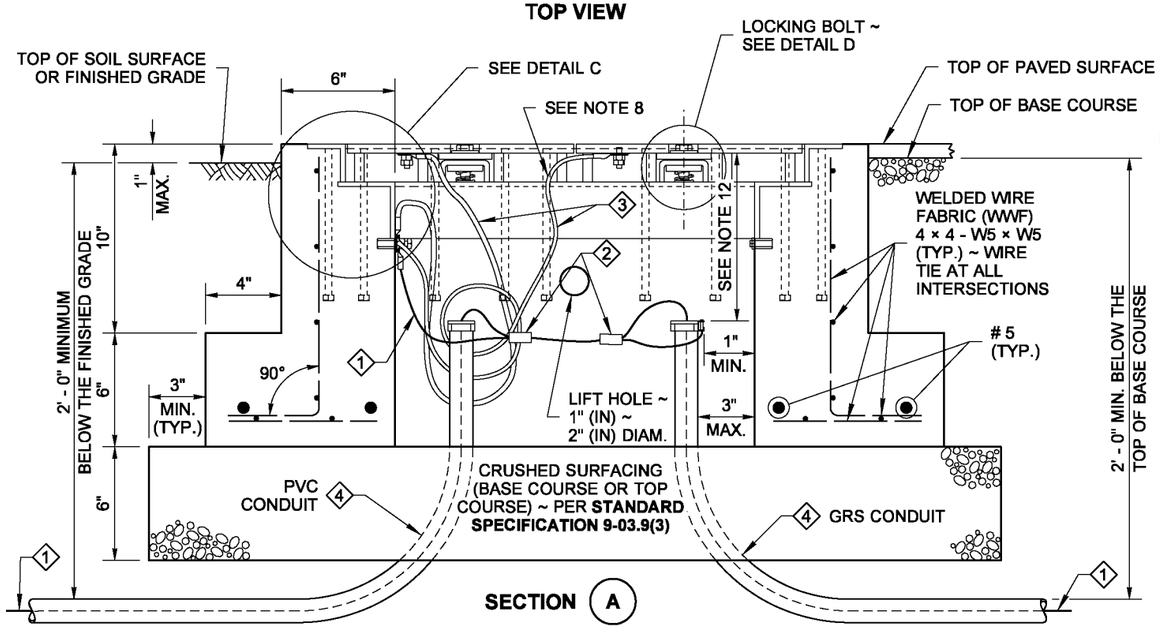
DRAWN BY: LISA CYFORD



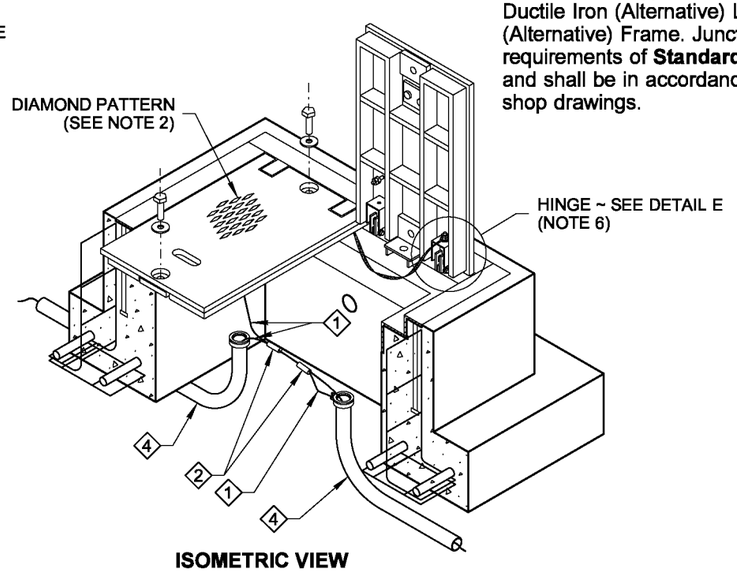
TOP VIEW

JUNCTION BOX DIMENSION TABLE				
MARK	ITEM	BOX TYPE		
		TYPE 4	TYPE 5	TYPE 6
A	OVERALL LENGTH	39"	48"	56"
B	OVERALL WIDTH	34"	37"	44"
C	JUNCTION BOX LENGTH	31"	40"	48"
D	JUNCTION BOX WIDTH	26"	29"	36"
E	LID OPENING LENGTH	24"	33 1/8"	41 1/8"
F	LID OPENING WIDTH	19"	22 1/8"	29 1/4"
G	TYPE 4 LID LENGTH	24"	——	——
H	TYPE 4, 5 & 6 LID WIDTH	19"	21 7/8"	29"
I	TYPE 5 & 6 LID LENGTH	——	16 3/8"	20 3/8"
J	INSIDE BOX LENGTH	19"	28"	36"
K	INSIDE BOX WIDTH	14"	17"	24"
X	STIFFENER SPACING	VARIES	VARIES	VARIES
Y	STIFFENER SPACING	VARIES	VARIES	VARIES
Z	STIFFENER LENGTH	18 1/4"	21 1/8"	28 1/4"
CAPACITY ~ CONDUIT DIAM.		6"	12"	24"

① Equipment Grounding Conductor
② Copper Solderless Crimp Connector
③ Equipment Bonding Jumper (See Note 8)
④ See Contract Plans and Special Provisions for conduit size and number



SECTION (A)



ISOMETRIC VIEW
TYPE 5 AND 6 SHOWN

NOTES

1. All box dimensions are approximate. Exact configurations vary among manufacturers.
2. All lid thicknesses are minimum.
3. Lid perimeter shall bear on frame. Mill to bearing seat and lid perimeter for full even contact after fabrication of frame and lid. Lid and frame units with uneven bearing will be rejected.
4. The installed lid and frame shall fit with full even contact around the perimeter of a junction box after installation. Care shall be taken to prevent debris accumulation on the contact surfaces.
5. A 1/4-20 NC × 1" (in) S. S. ground stud shall be welded to the bottom of each lid: include (2) each S. S. nuts and (3) each S. S. flat washers.
6. The hinges shall allow the lids to open 180°. When lid assembly is Ductile Iron (Alternative) and equipped with Safety Bars, lids shall open 110°.
7. Bolts and nuts shall be liberally coated with anti-seize compound.
8. Connect Equipment Bonding Jumper to ground stud on lid. As an alternative to ground stud connection, the Equipment Bonding Jumper shall be attached to the front face of the hinge pocket with a 5/16-20 NC × 1" (in) S. S. bolt, (2) each S. S. nuts, and (3) each S. S. flat washers. Equipment bonding jumper shall be #8 AWG min. × 4' (ft) of tinned braided copper.
9. The System Identification letters shall be 1/8" (in) line thickness formed by a mild steel weld bead. See Cover Marking details. Grind off diamond pattern before forming letters. Ductile iron lid lettering shall be recessed, 1/8" (in) line thickness. See **Standard Specification 9-29.2(4)** for details.
10. See **Standard Specification 9-29.2(1)B** for class of concrete.
11. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the traveled way or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty. Heavy-Duty Junction Boxes shall not be installed in sidewalks, walkways, and shared use paths.
12. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max., for final grade of new construction only. See **Standard Specification 8-20.3(5)**. Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" min. to 10" (in) max. See **Standard Specification 8-20.3(6)**.
13. Junction Box Types 4, 5, or 6 may be equipped with Ductile Iron (Alternative) Lid(s) and a Cast Iron (Alternative) Frame. Junction box shall meet the requirements of **Standard Specification 9-29.2** and shall be in accordance with approved shop drawings.

THEODORE JOSEPH BAILEY
STATE OF WASHINGTON
39820
REGISTERED
PROFESSIONAL ENGINEER

HEAVY-DUTY JUNCTION BOX TYPES 4, 5, & 6

STANDARD PLAN J-40.20-03

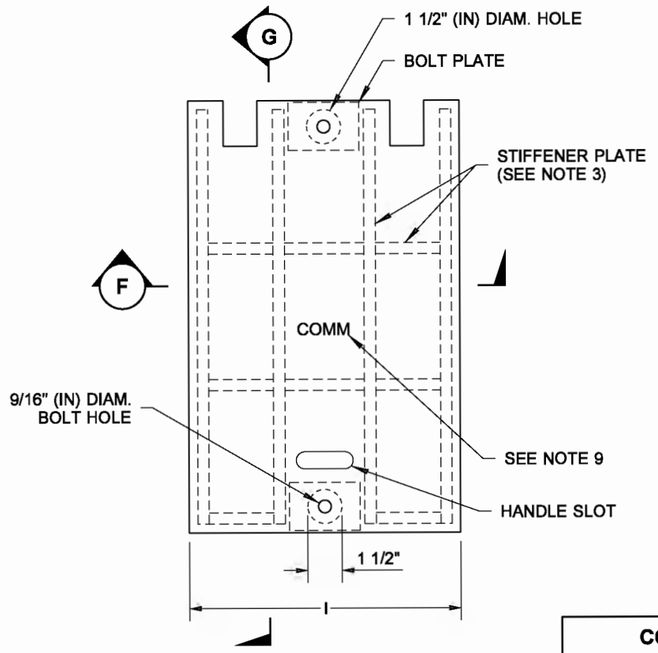
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

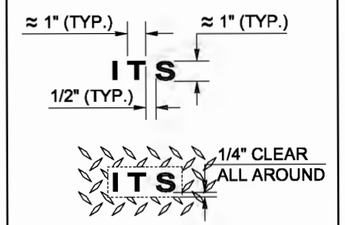
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

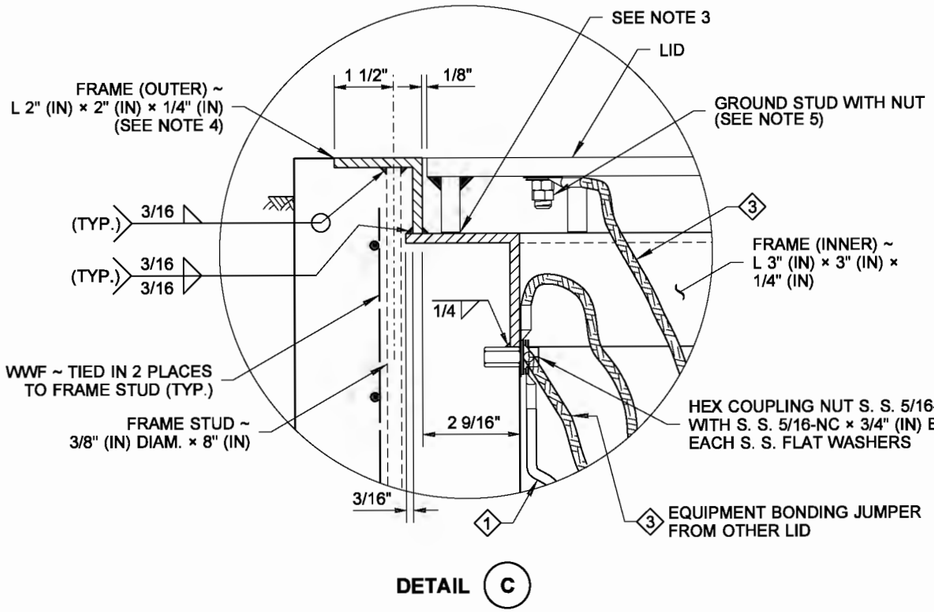


PLAN VIEW
LID
TYPE 5 AND 6 SHOWN

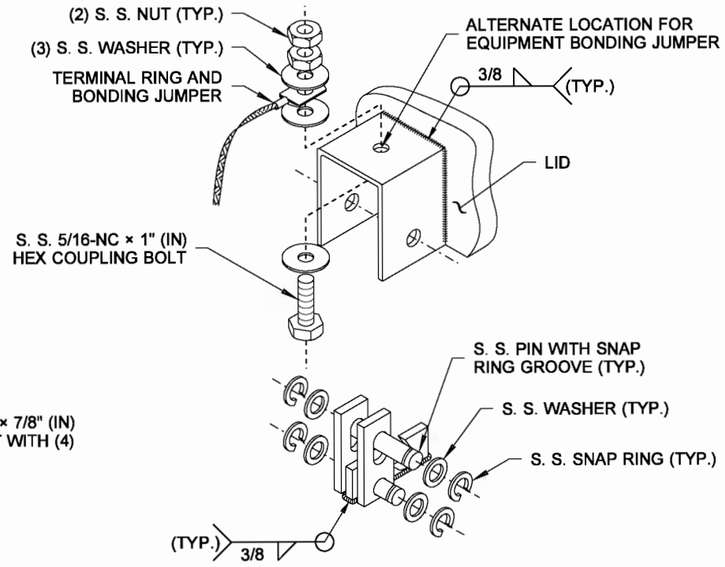
COVER MARKING DETAIL



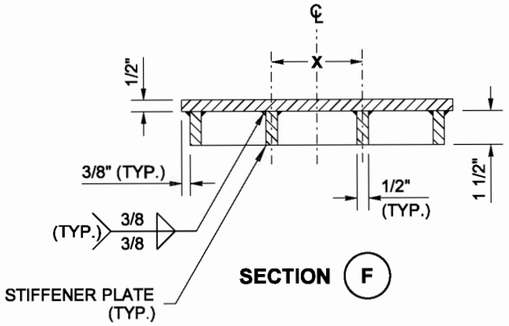
SEE NOTE 9



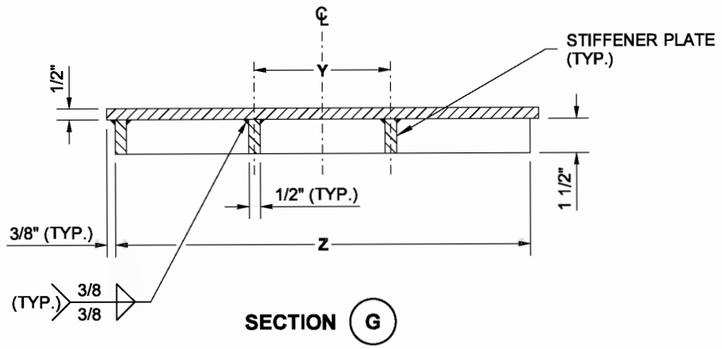
DETAIL C



DETAIL E
HINGE



SECTION F



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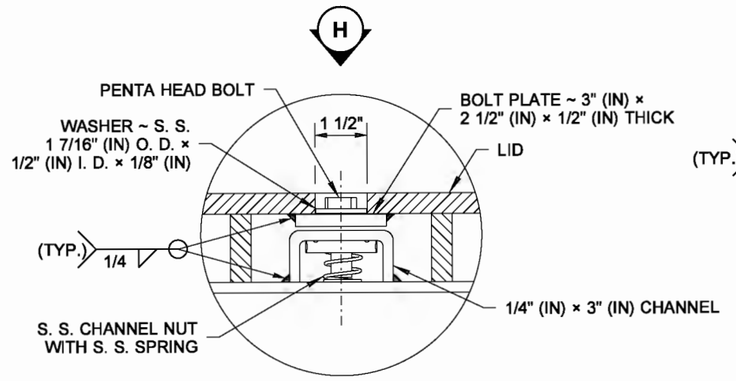
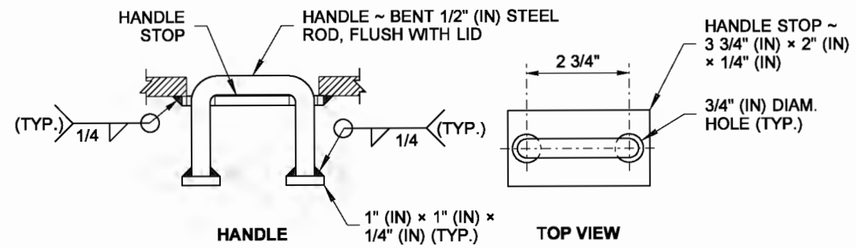
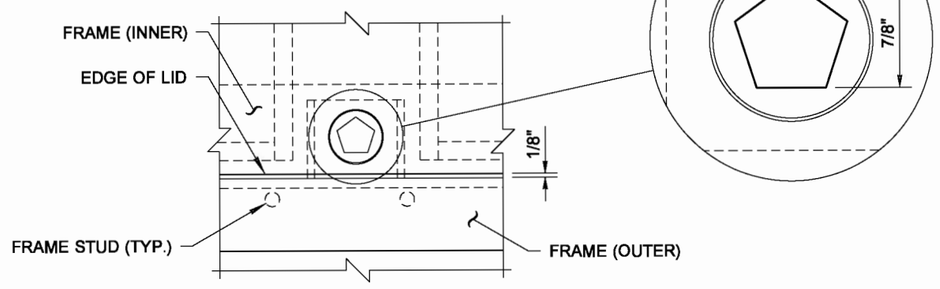


DETAIL D
LOCKING BOLT



HANDLE **TOP VIEW**

DETAIL B



VIEW H

HEAVY-DUTY JUNCTION BOX TYPES 4, 5, & 6

STANDARD PLAN J-40.20-03

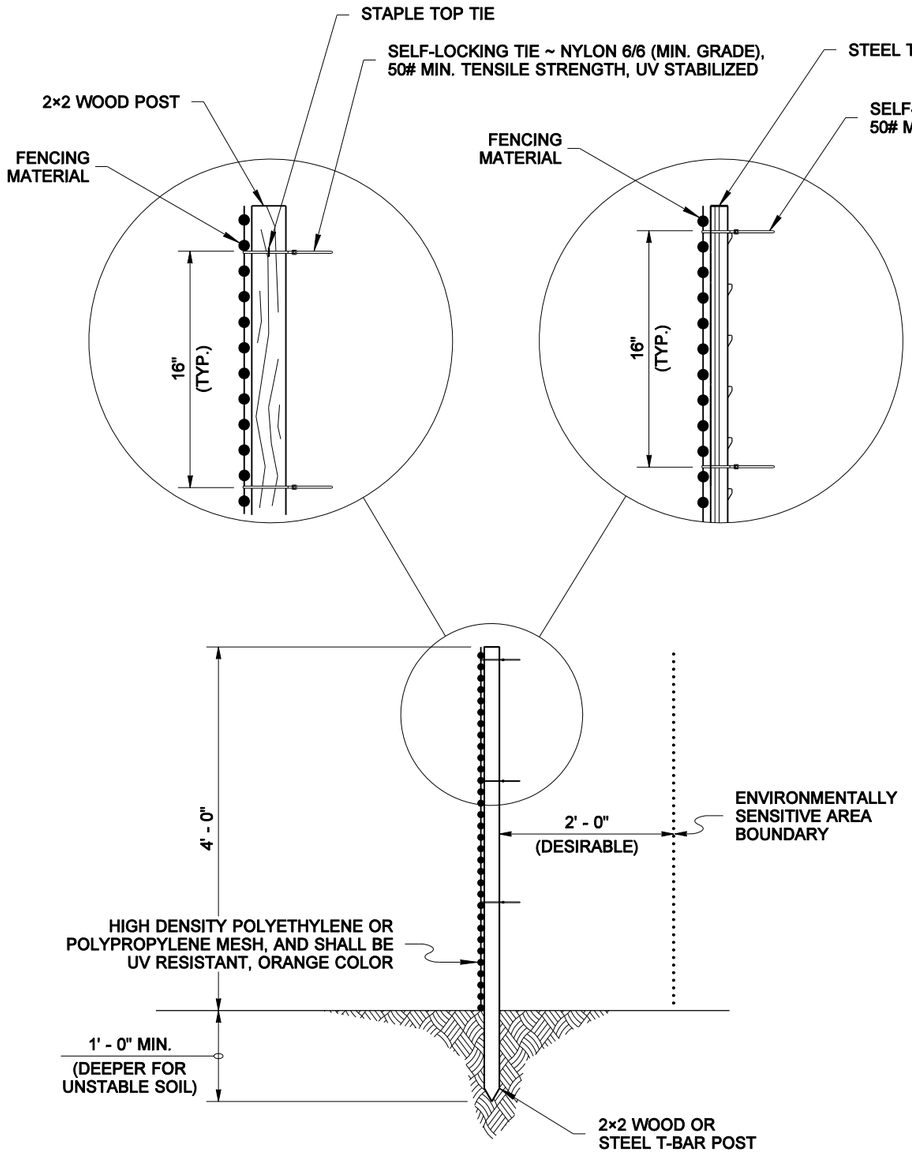
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

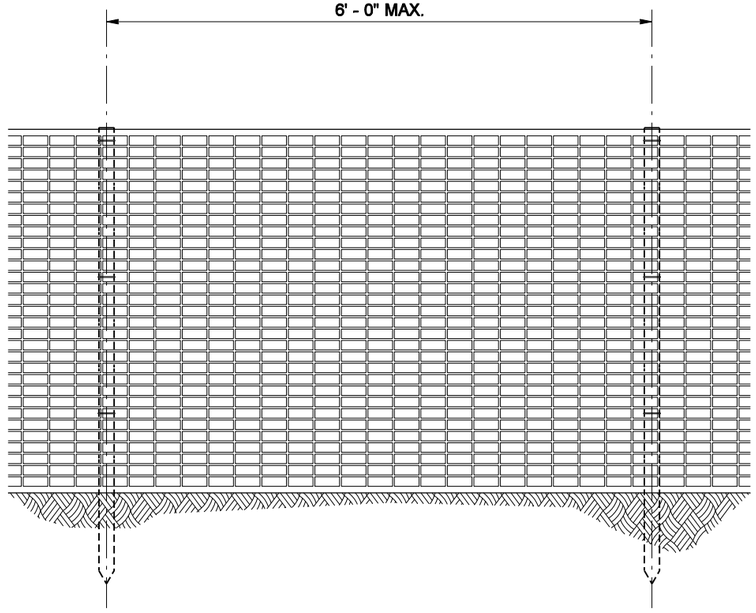
STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: BILL BERENS



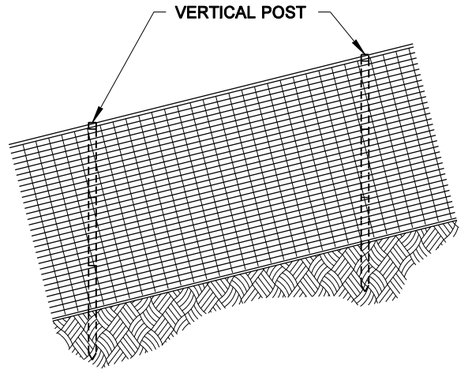
TYPICAL SECTION



ELEVATION

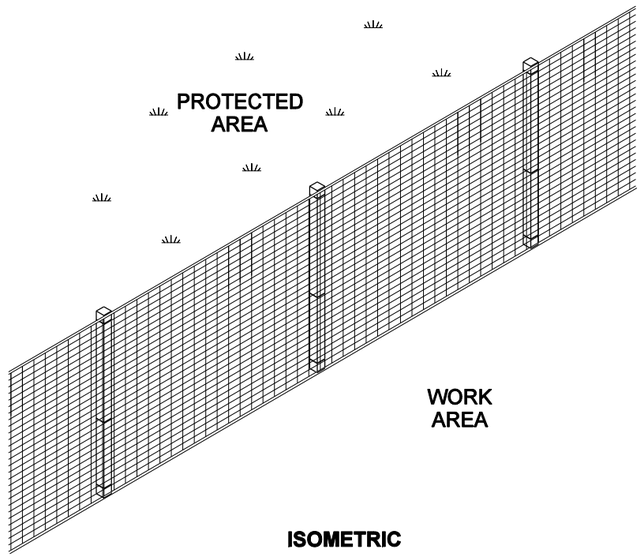
NOTE

1. Post shall have sufficient strength and durability to support the fence through the life of the project.



ELEVATION

FENCE ON SLOPE



ISOMETRIC

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

HIGH VISIBILITY FENCE

STANDARD PLAN I-10.10-01

SHEET 1 OF 1 SHEET

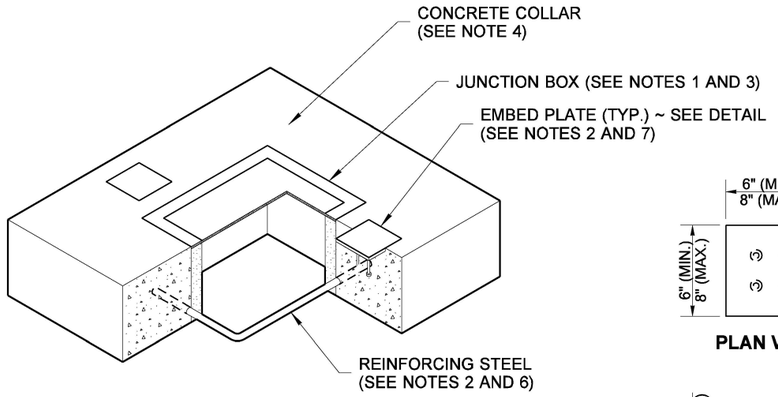
APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

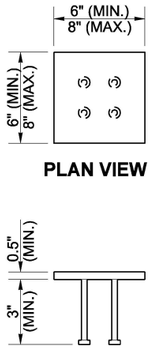
08-11-09 — DATE

Washington State Department of Transportation

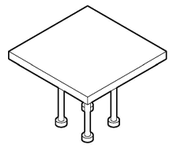
DRAWN BY: BILL BERENS



CUTAWAY VIEW

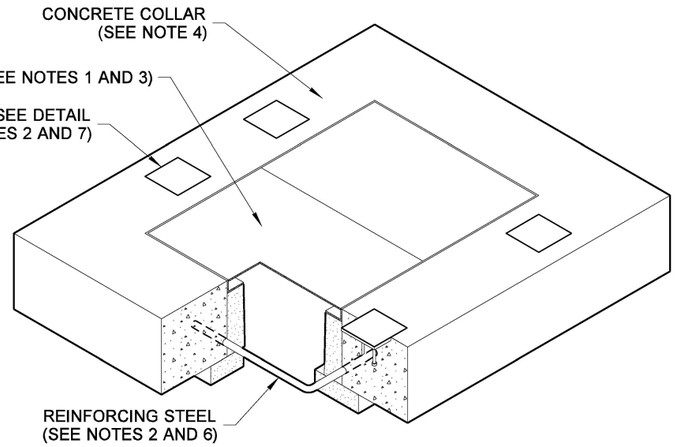


PLAN VIEW

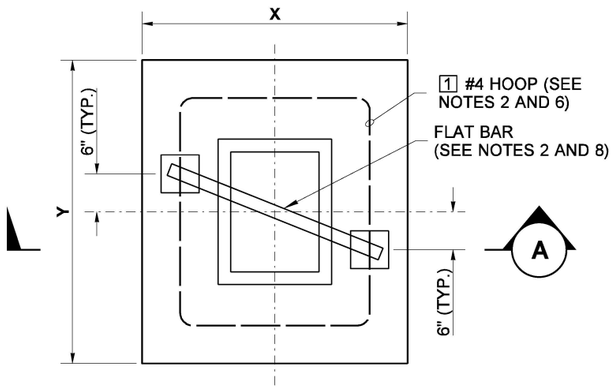


ISOMETRIC VIEW

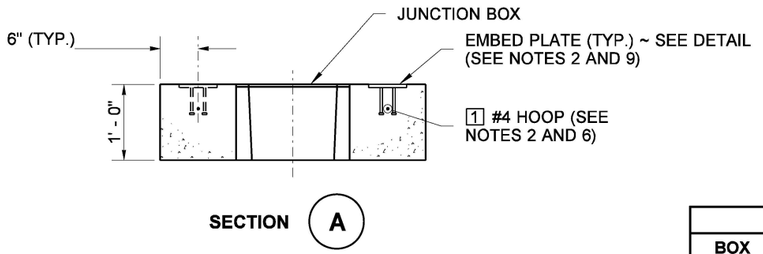
ELEVATION VIEW



CUTAWAY VIEW

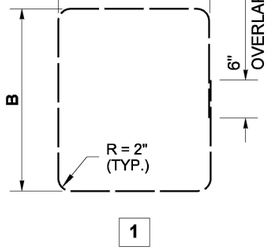


PLAN VIEW



SECTION A

EMBED PLATE DETAIL
(SEE NOTE 7)



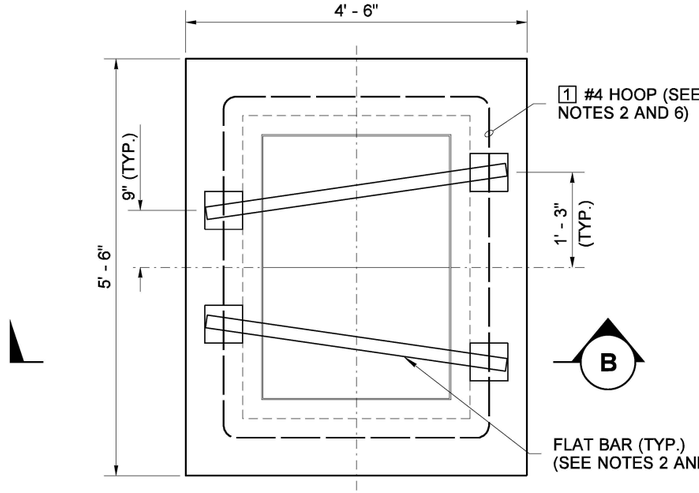
1

REINFORCING STEEL BENDING DIAGRAM

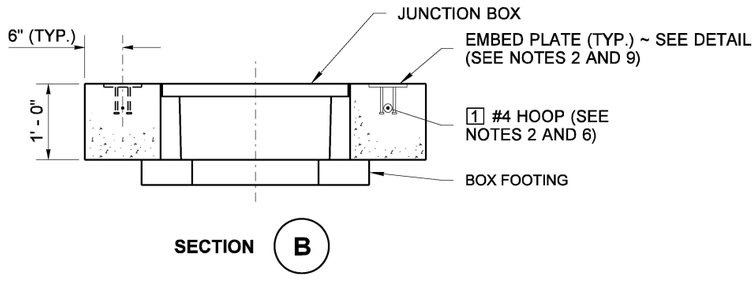
DIMENSIONS					
BOX TYPE	X	Y	A	B	FLAT BAR LENGTH
TYPE 1	3' - 6"	4' - 0"	2' - 6"	3' - 0"	3' - 0"
TYPE 2	4' - 0"	5' - 0"	3' - 0"	4' - 0"	3' - 6"
TYPE 8	4' - 6"	5' - 6"	3' - 6"	4' - 6"	4' - 0"

REINFORCING STEEL DIMENSIONS MEASURED OUT TO OUT

SECURITY COLLAR LAYOUT TYPE 1 AND 2 JUNCTION BOXES



PLAN VIEW



SECTION B

SECURITY COLLAR LAYOUT TYPE 8 JUNCTION BOXES

NOTES

1. See **Standard Plan J-40.10** for Type 1 and Type 2 junction box details. See **Standard Plan J-40.30** for Type 8 Junction Box Details.
2. Security collars are classified as "Basic" and 'High". Reinforcing steel, embed plates, and flat bar are not required for "Basic Security Collars".
3. Junction boxes shall be centered within the concrete collar frame.
4. Concrete shall be Class 3000 or Commercial Concrete in accordance with **Standard Specification Section 6-02.3(2)**.
5. Concrete polymer Type 1 and 2 junction boxes shall have temporary bracing installed inside the junction box prior to placing concrete, to prevent bowing of the sidewalls and to ensure proper lid seating.
6. Reinforcing steel shall meet the requirements of **Standard Specification Section 9-07**.
7. Embed plate shall be **ASTM A36** steel. Anchor studs shall meet the requirements of **Standard Specification Section 9-06.15**. Embed plate may use two or four anchor studs. Anchor studs may have heads or be "J" studs.
8. Flat bar shall be 2 inch wide by 1/4 inch thick **ASTM A36** steel. Two bars are required for Type 8 Junction Boxes.
9. Top of embed plates shall be flush with the top surface of the concrete collar.

Aug 30, 2022

JUNCTION BOX SECURITY COLLAR

STANDARD PLAN J-40.01-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

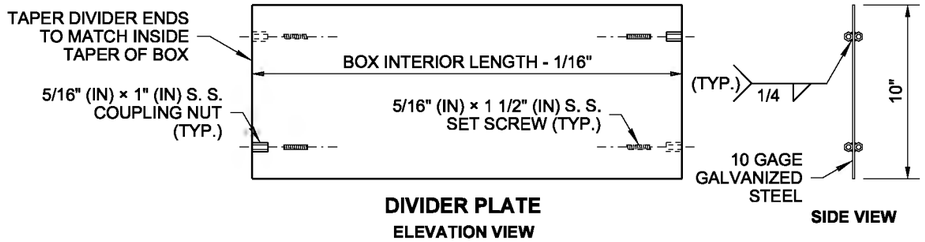
Mark Gaines
Mark Gaines (Aug 30, 2022 11:23 PDT)

Aug 30, 2022

STATE DESIGN ENGINEER

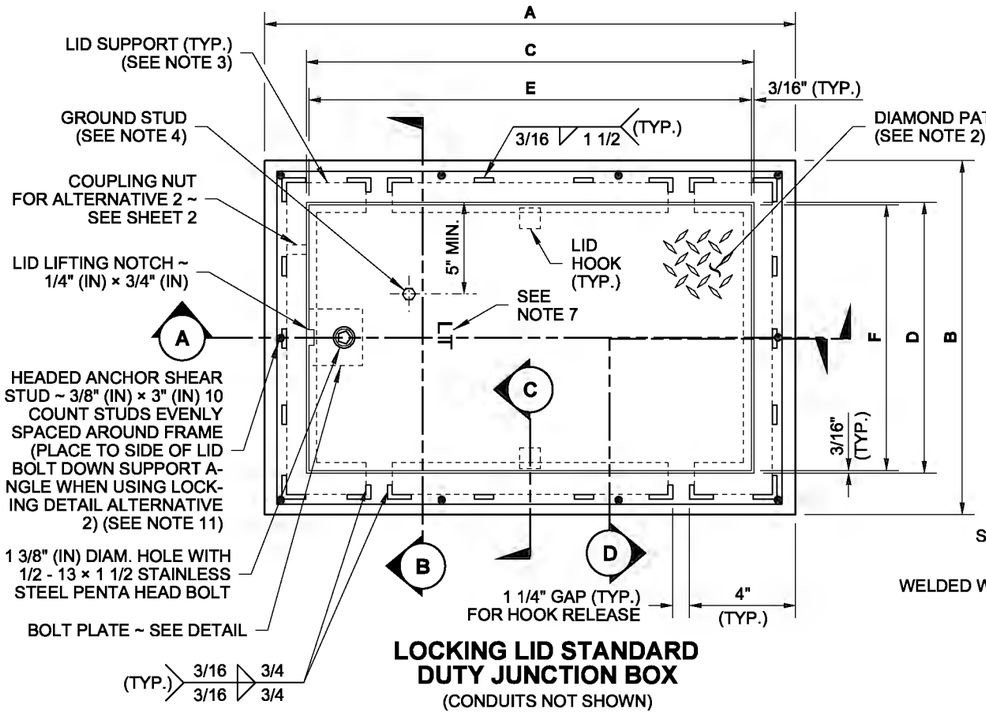
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

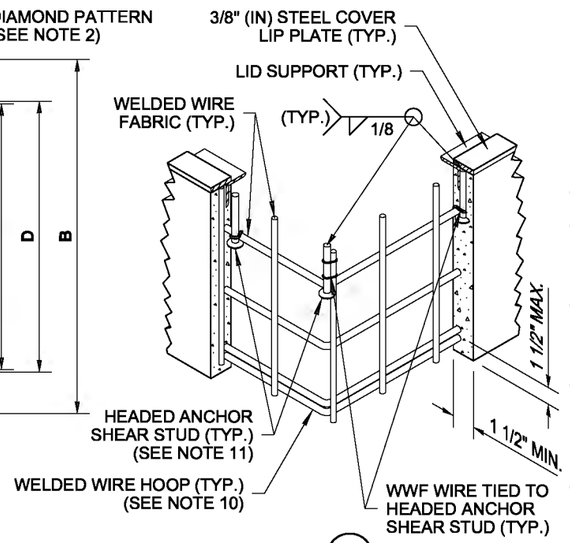


DIVIDER PLATE
ELEVATION VIEW
(FOR TYPE 2 JUNCTION BOX ONLY)

JUNCTION BOX DIMENSION TABLE			
MARK	ITEM	BOX TYPE	
		TYPE 1	TYPE 2
A	OUTSIDE LENGTH OF JUNCTION BOX	22"	33"
B	OUTSIDE WIDTH OF JUNCTION BOX	17"	22 1/2"
C	INSIDE LENGTH OF JUNCTION BOX	18" ~ 19"	28" ~ 29"
D	INSIDE WIDTH OF JUNCTION BOX	13" ~ 14"	17" ~ 18"
E	LID LENGTH	17 5/8"	28 5/8"
F	LID WIDTH	12 5/8"	18 1/8"
	CAPACITY ~ CONDUIT DIAMETER	6"	12"



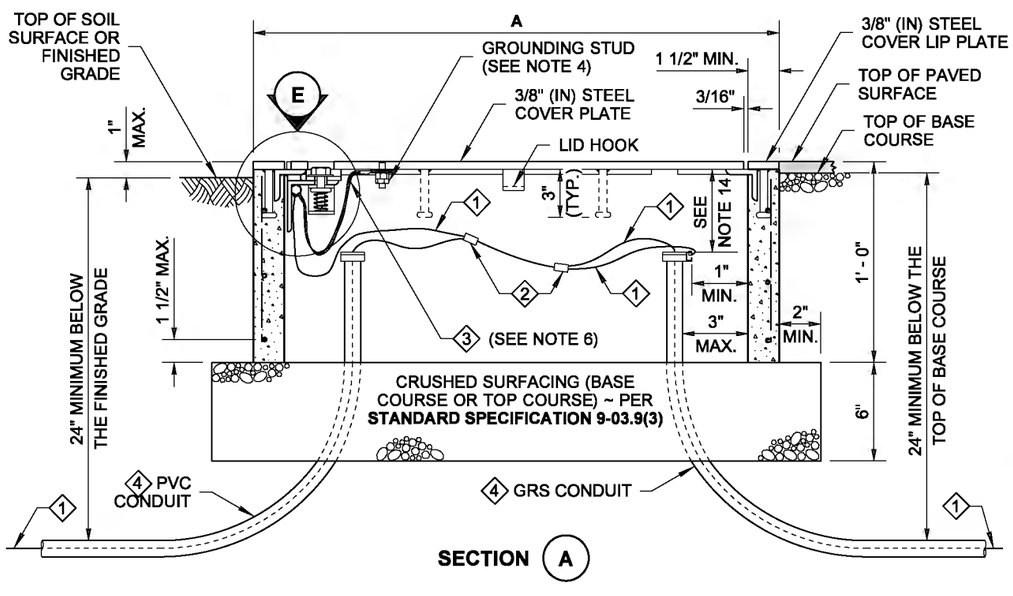
LOCKING LID STANDARD DUTY JUNCTION BOX
(CONDUITS NOT SHOWN)



SECTION D
PERSPECTIVE VIEW

NOTES

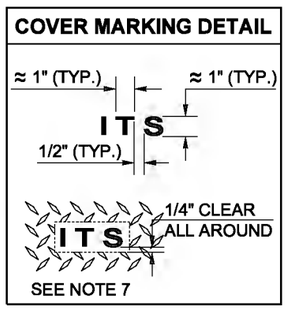
1. All box dimensions are approximate. Exact configurations vary among manufacturers.
2. Minimum lid thickness shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate, and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.
3. Lid support members shall be 3/16" (in) minimum thick steel C, L, or T shape, welded to the frame.
4. A 1/4-20 NC × 3/4" (in) stainless steel ground stud shall be welded to the bottom of the lid; include (2) stainless steel nuts and (2) stainless steel flat washers.
5. Bolts and nuts shall be liberally coated with anti-seize compound.
6. Equipment Bonding Jumper shall be # 8 AWG min. × 4' (ft) of tinned braided copper.
7. The System Identification letters shall be 1/8" (in) line thickness formed with a mild steel weld bead. See Cover Marking detail. Grind off diamond pattern before forming letters. For System Identification details, see **Standard Specification 9-29.2(4)**.
8. When required in the Contract, provide a 10" (in) x 27 1/2" (in), 10 gage divider plate, complete, with fasteners, in each Type 2 Junction Box where specified.
9. When required in Contract, provide a 12" (in) deep extension for each Type 2 Junction Box where specified.
10. See the **Standard Specifications** for alternative reinforcement and class of concrete.
11. Headed Anchor Shear Studs must be welded to the Steel Cover Lip Plate and wire tied in two places to the vertical Welded Wire Fabric when in contact with each other. Wire tie all other Headed Anchor Shear Studs to the horizontal Welded Wire Fabric.
12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers' shop drawings for specifics.
13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the sidewalks, walkways, shared use paths, traveled ways or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.
14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max. for final grade of new construction only. See **Standard Specification 8-20.3(5)**. Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See **Standard Specification 8-20.3(6)**.

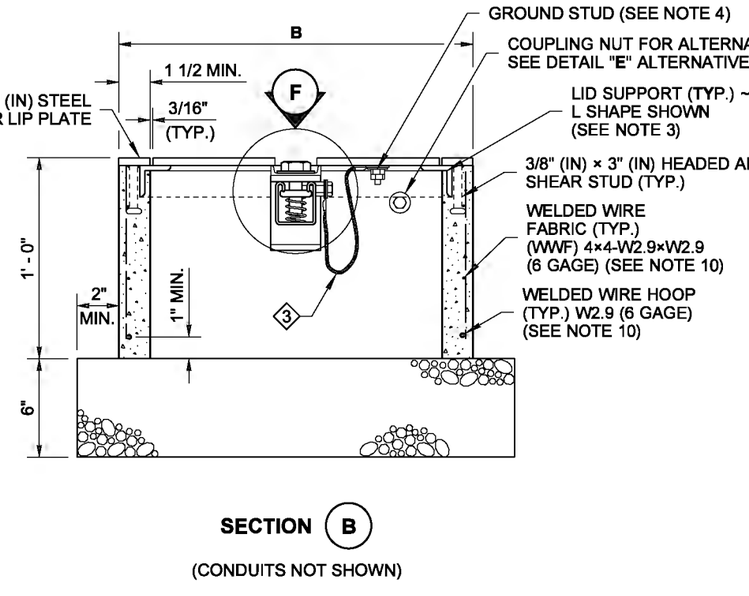


SECTION A

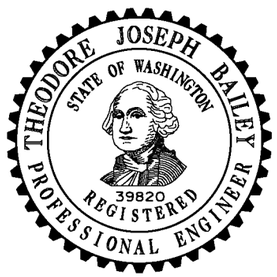
1. Equipment Grounding Conductor
2. Copper Solderless Crimp Connector
3. Equipment Bonding Jumper (See Note 6)
4. See Contract for conduit size and number

COVER MARKING DETAIL





SECTION B
(CONDUITS NOT SHOWN)



LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2 STANDARD PLAN J-40.10-04

SHEET 1 OF 2 SHEETS

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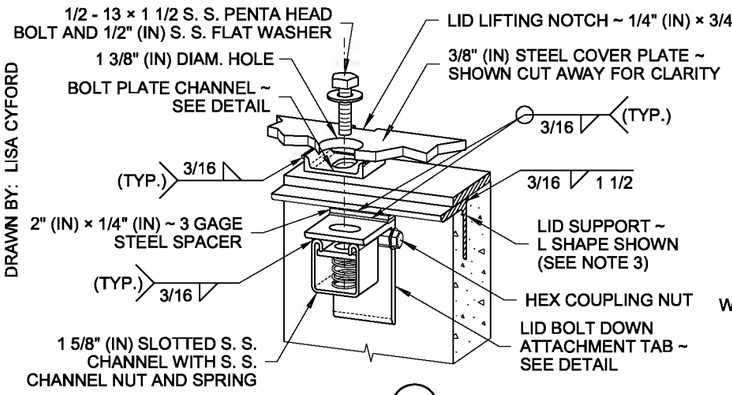
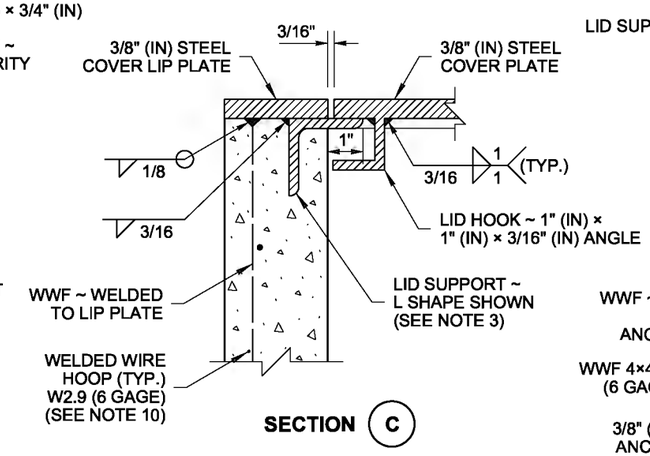
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

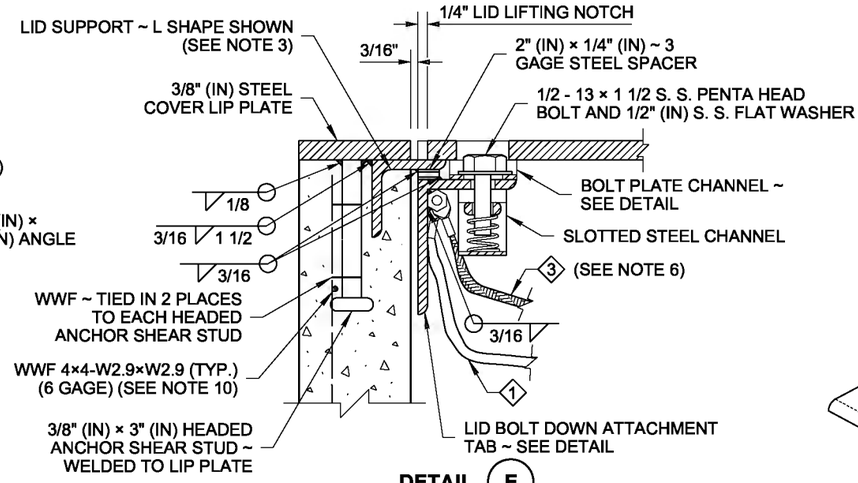


DETAIL (F)

ALTERNATIVE 1 SHOWN
PERSPECTIVE VIEW

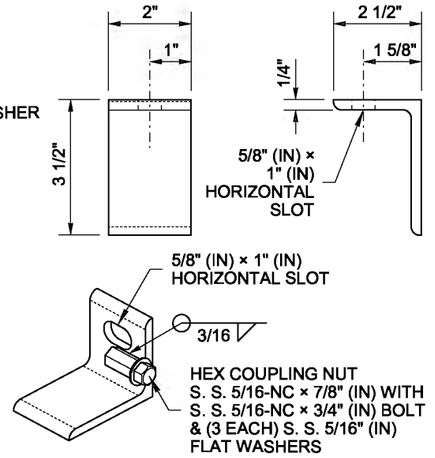


SECTION (C)

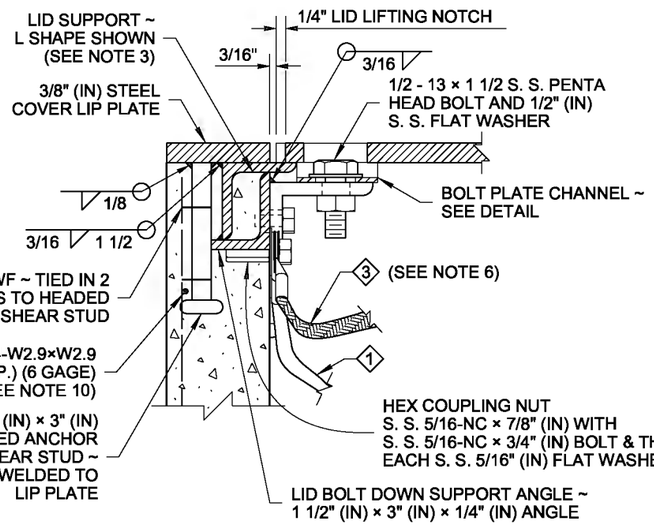


DETAIL (E)

ALTERNATIVE 1 SHOWN

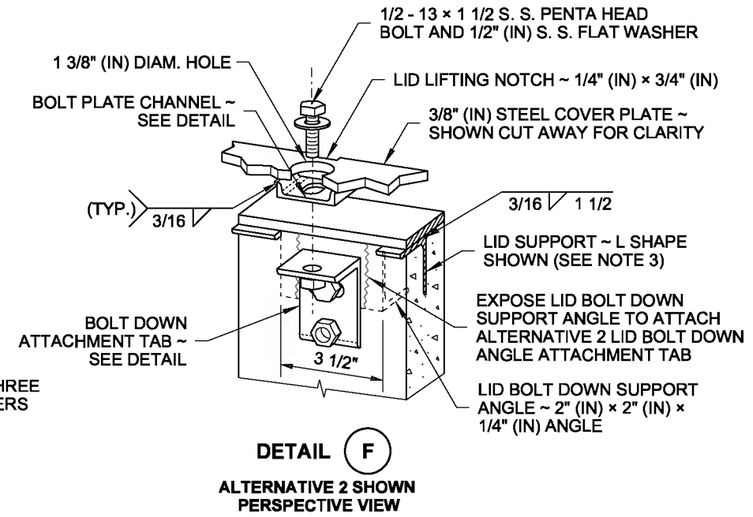


ALTERNATIVE 1
LID BOLT DOWN ATTACHMENT TAB
(SEE NOTE 12)



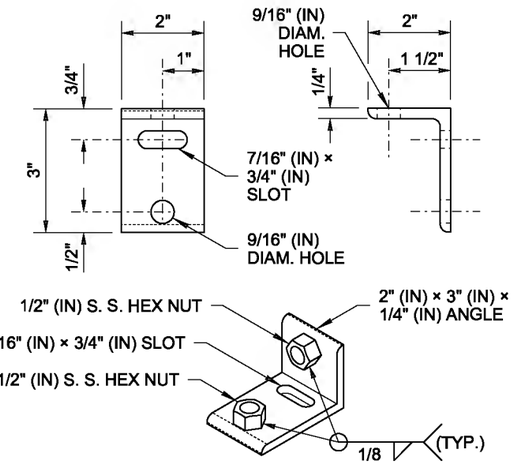
DETAIL (E)

ALTERNATIVE 2 SHOWN

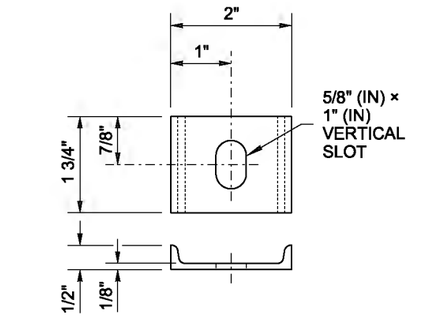


DETAIL (F)

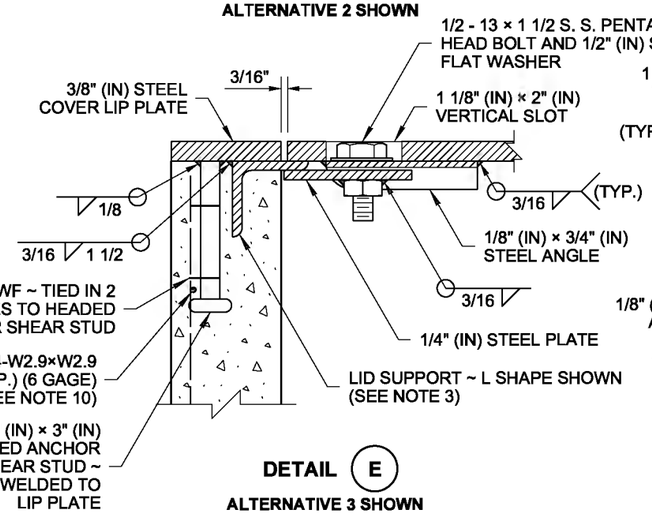
ALTERNATIVE 2 SHOWN
PERSPECTIVE VIEW



ALTERNATIVE 2
LID BOLT DOWN ATTACHMENT TAB
(SEE NOTE 12)

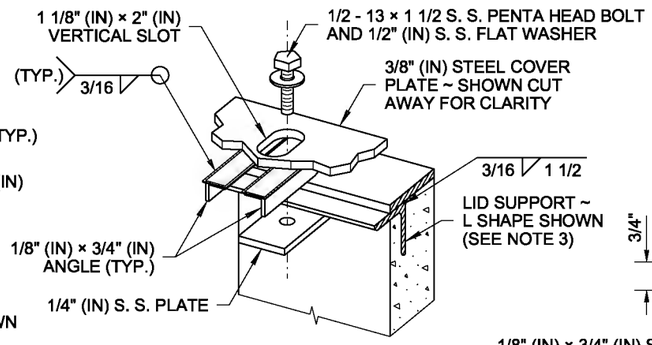


BOLT PLATE CHANNEL



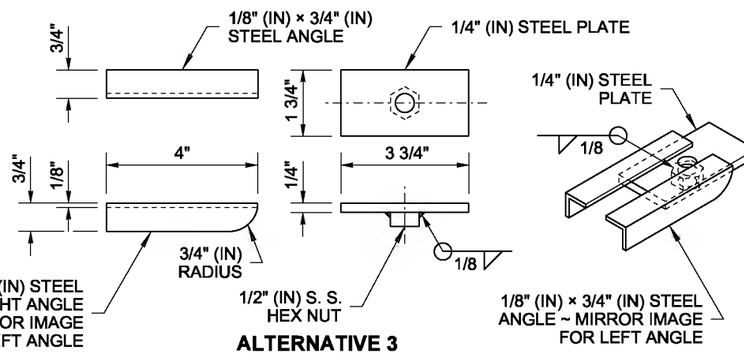
DETAIL (E)

ALTERNATIVE 3 SHOWN



DETAIL (F)

ALTERNATIVE 3 SHOWN
PERSPECTIVE VIEW



ALTERNATIVE 3
LID BOLT DOWN ATTACHMENT TAB
(SEE NOTE 12)

THEODORE JOSEPH BAILEY
STATE OF WASHINGTON
39820
REGISTERED
PROFESSIONAL ENGINEER

LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2 STANDARD PLAN J-40.10-04

SHEET 2 OF 2 SHEETS

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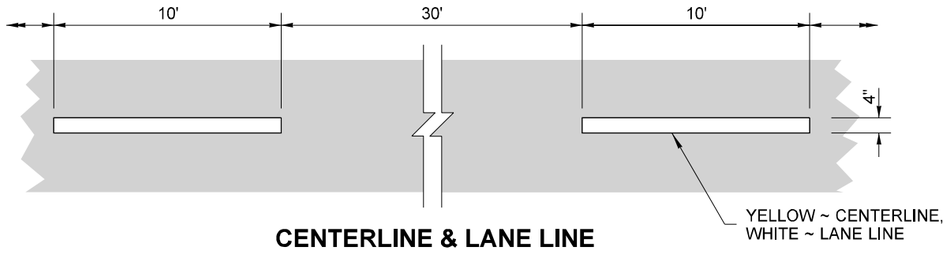
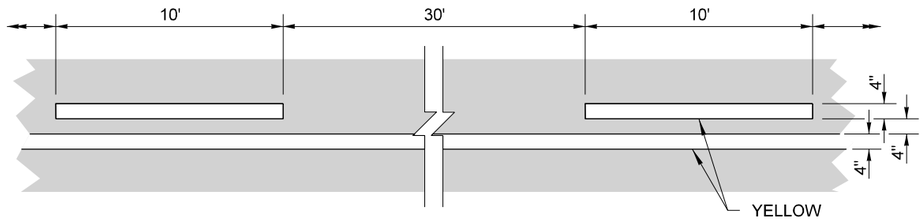
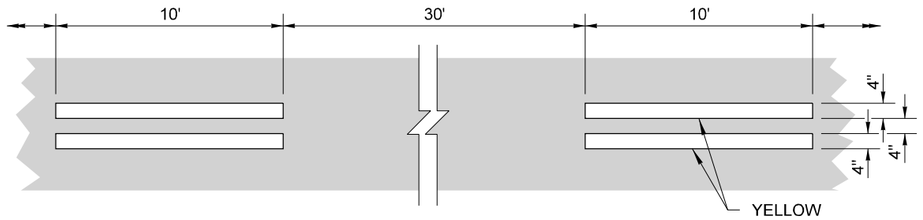


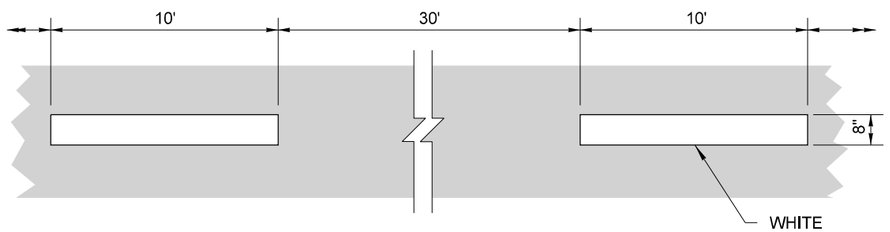
CENTERLINE & LANE LINE



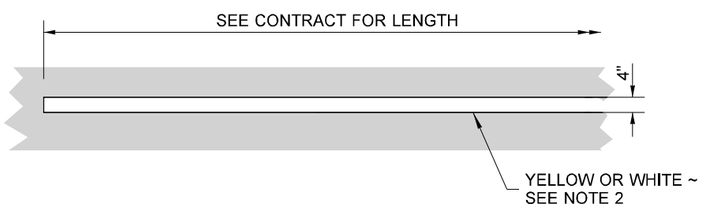
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE



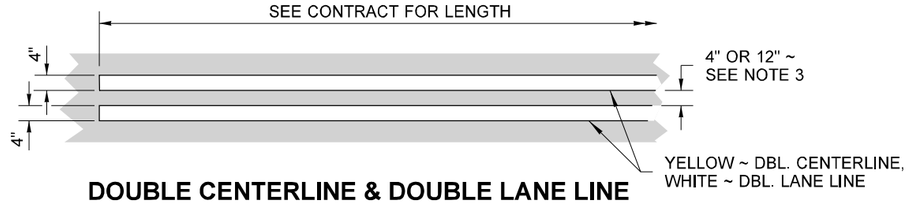
REVERSIBLE LANE LINE



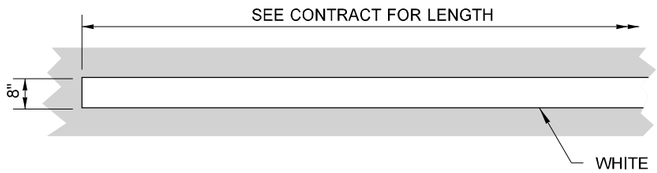
WIDE BROKEN LANE LINE



EDGE LINE & SOLID LANE LINE

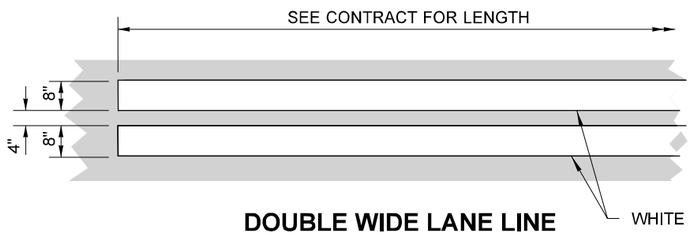


DOUBLE CENTERLINE & DOUBLE LANE LINE

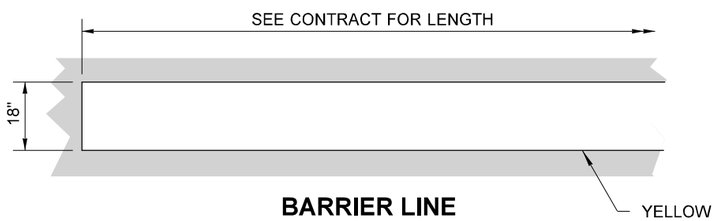


WIDE EDGE LINE & WIDE SOLID LANE LINE

OPTION TO USE AS CIRCULATORY ON ROUNDABOUT APPLICATIONS



DOUBLE WIDE LANE LINE



BARRIER LINE

NOTES

1. Dotted Extension Line shall be the same color as the line it is extending.
2. Edge Line shall be white on the right edge of traveled way, and yellow on the left edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
3. The distance between the lines of the Double Centerline shall be 12" everywhere, except 4" for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4" distance for all locations.

   The distance between the lines of the Double Lane Line shall be 4".

DRAWN BY: FERN LIDDELL

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER

Brian J Walsh
Brian J Walsh (Aug 1, 2022 PDT)

Aug 1, 2022

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-04

SHEET 1 OF 4 SHEETS

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Mark Gaines (Aug 2, 2022 10:17 PDT)

Aug 2, 2022

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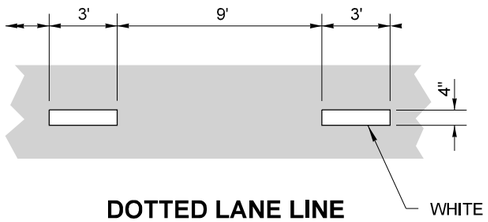
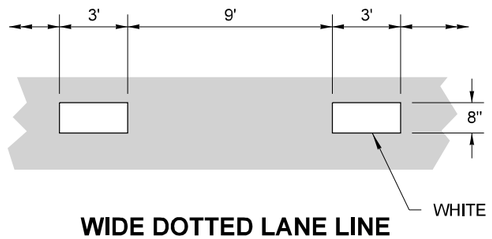
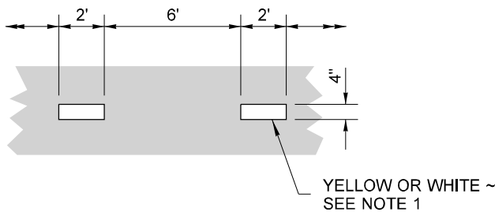


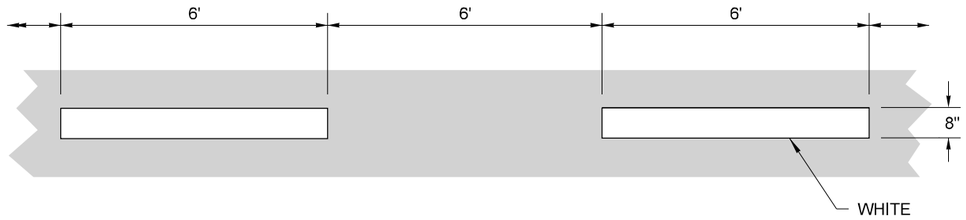
DOTTED LANE LINE



WIDE DOTTED LANE LINE



DOTTED EXTENSION LINE



WIDE DOTTED EXTENSION LINE

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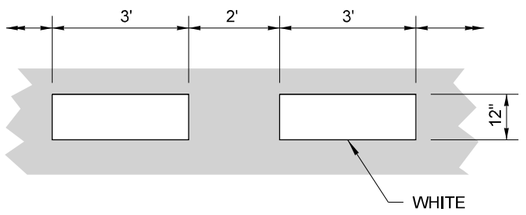
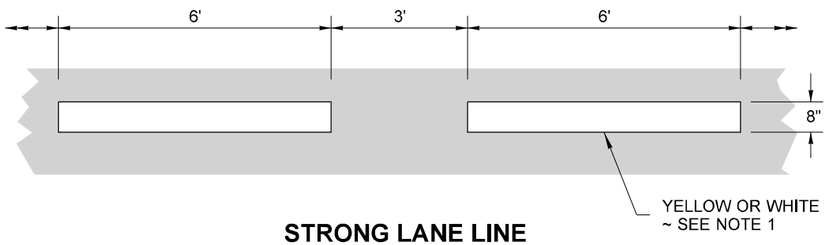
ROUNDABOUT SPECIFIC LINES

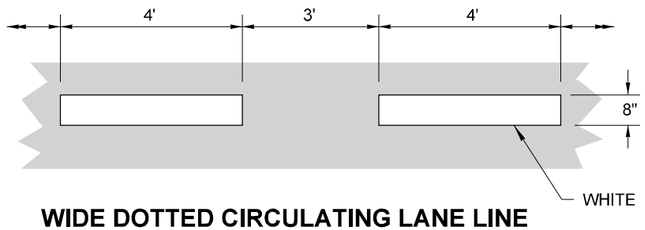


WIDE DOTTED ENTRY LINE



STRONG LANE LINE

OPTION TO USE AS CIRCULATORY ON ROUNDABOUT APPLICATIONS



WIDE DOTTED CIRCULATING LANE LINE

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER

Brian J Walsh
Brian J Walsh (Aug 1, 2022 PDT)

Aug 1, 2022

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-04

SHEET 2 OF 4 SHEETS

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Mark Gaines (Aug 2, 2022 10:17 PDT)

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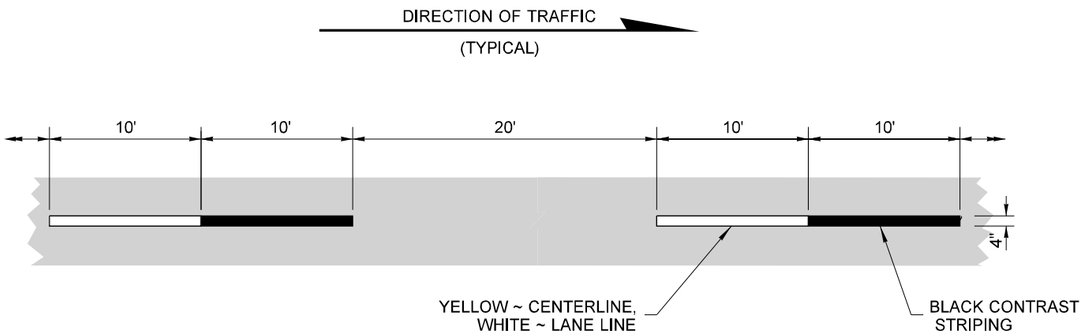
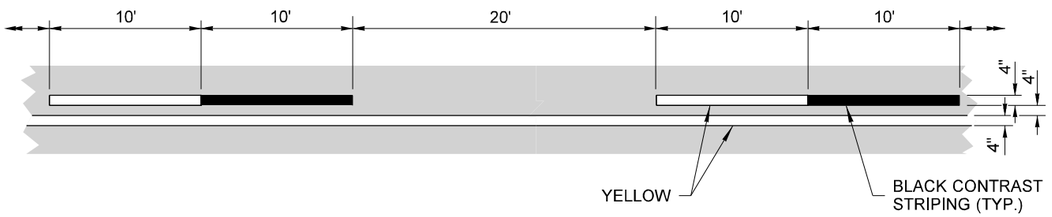
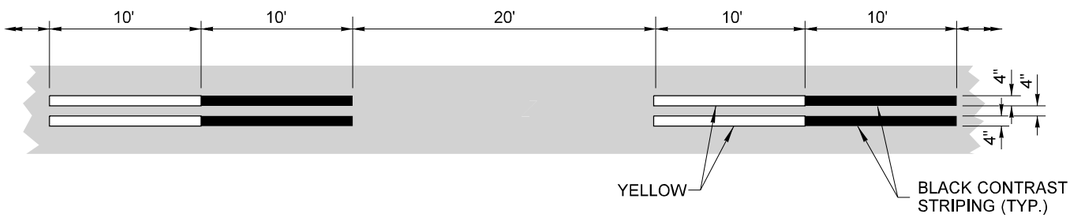


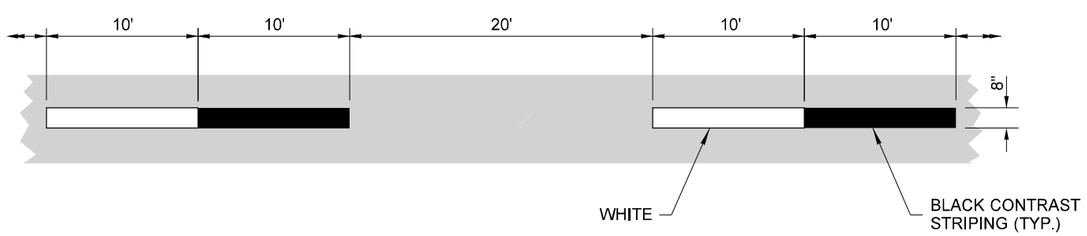
CENTERLINE & LANE LINE



NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE



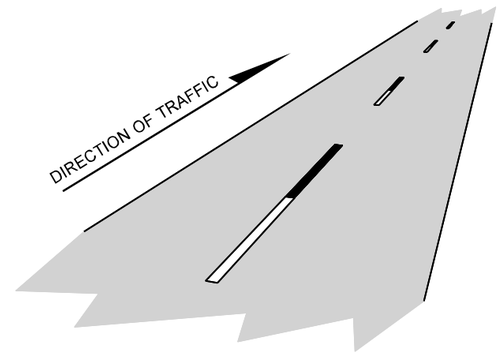
REVERSIBLE LANE LINE



WIDE BROKEN LANE LINE

NOTE

1. Dotted Extension Line shall be the same color as the line it is extending.



ISOMETRIC VIEW

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED
PROFESSIONAL ENGINEER

Brian J Walsh
Brian J Walsh (Aug 1, 2022 [illegible] PDT)

Aug 1, 2022

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-04

SHEET 3 OF 4 SHEETS

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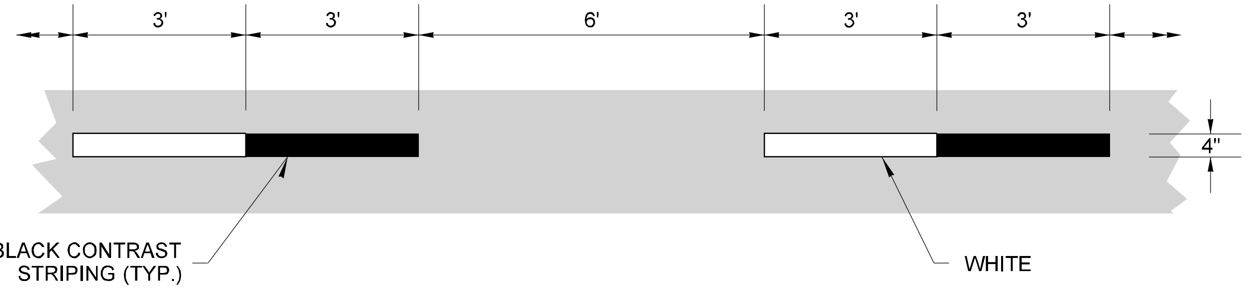
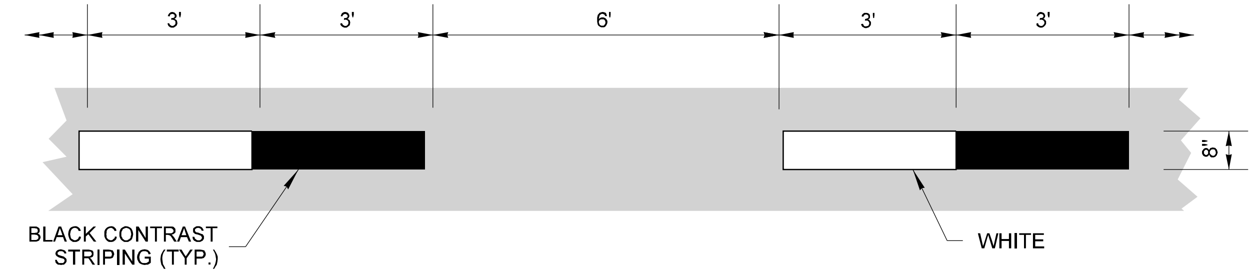
DRAWN BY: FERN LIDDELL

DIRECTION OF TRAFFIC

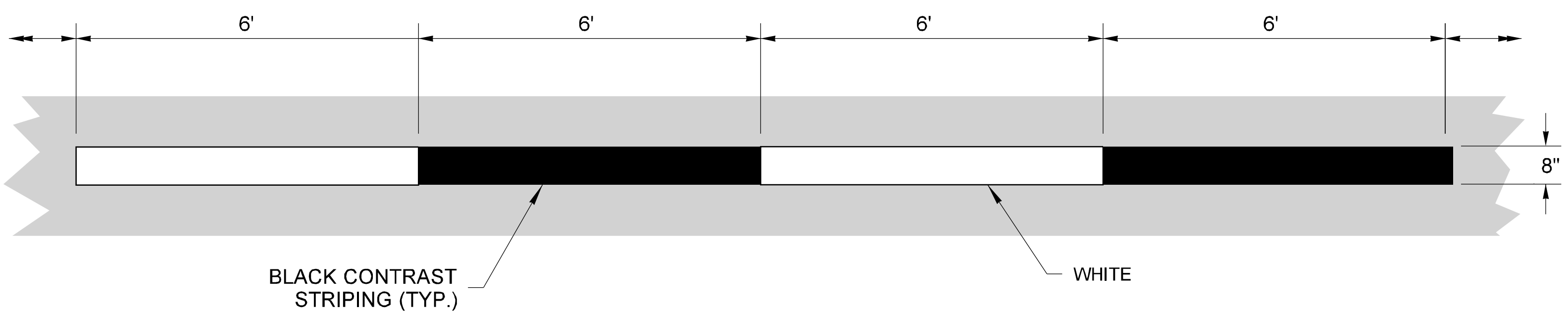
(TYPICAL)



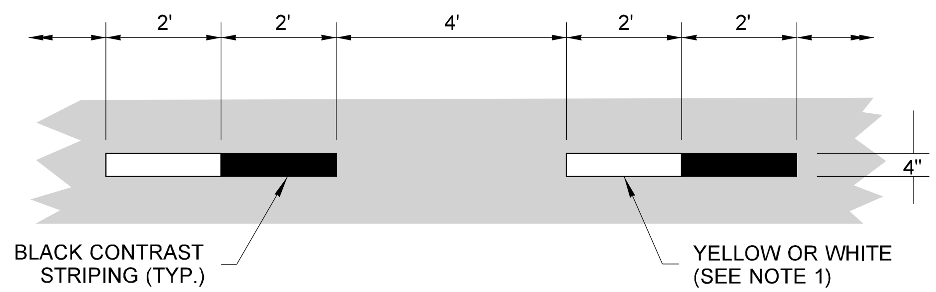
DOTTED LANE LINE



WIDE DOTTED LANE LINE

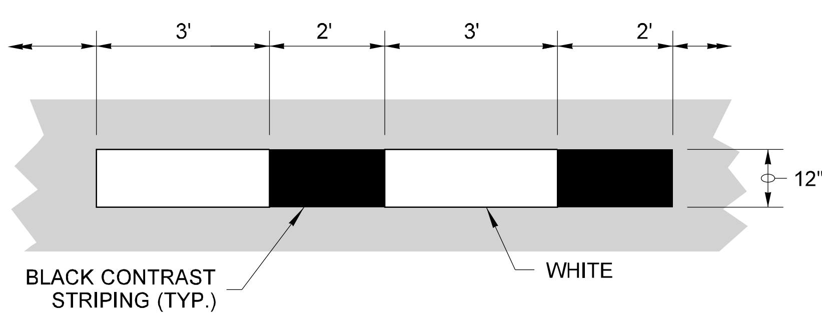


WIDE DOTTED EXTENSION LINE

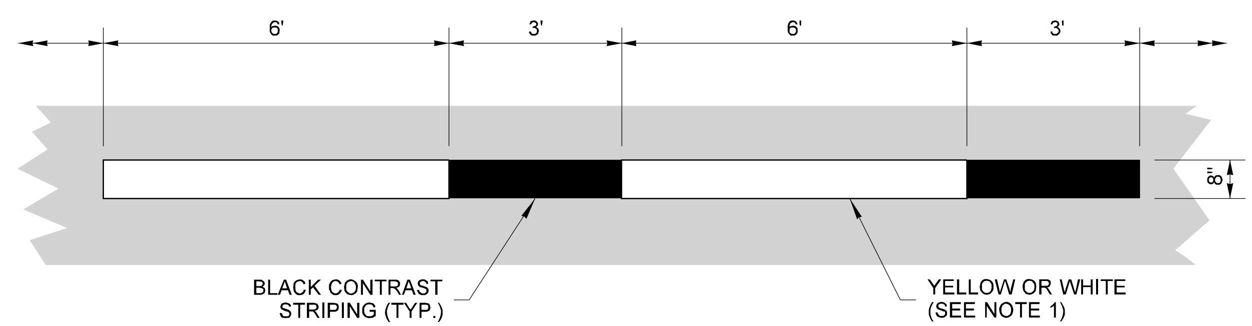


DOTTED EXTENSION LINE

ROUNDABOUT SPECIFIC LINES

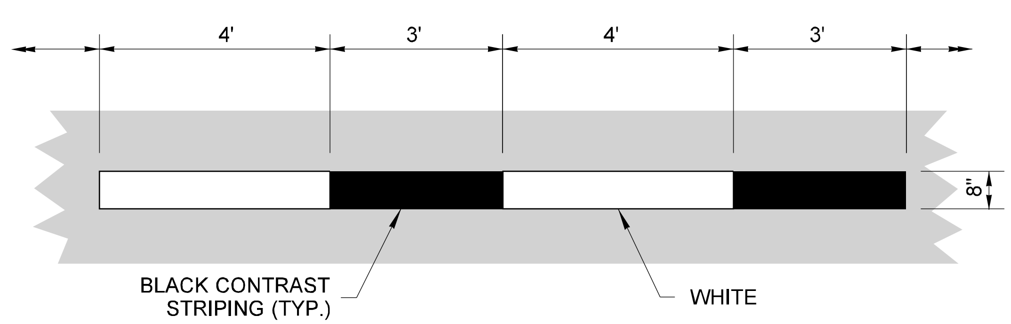


WIDE DOTTED ENTRY LINE

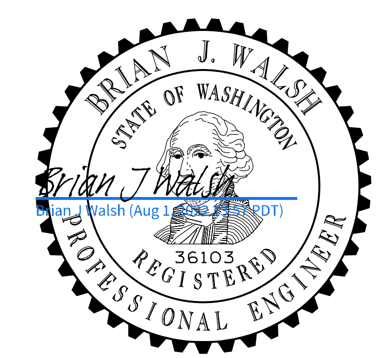


STRONG LANE LINE

OPTION TO USE AS CIRCULATORY ON ROUNDABOUT APPLICATIONS



WIDE DOTTED CIRCULATING LANE LINE



Aug 1, 2022

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-04

SHEET 4 OF 4 SHEETS

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Mark Gaines (Aug 2, 2022 10:17 PDT)

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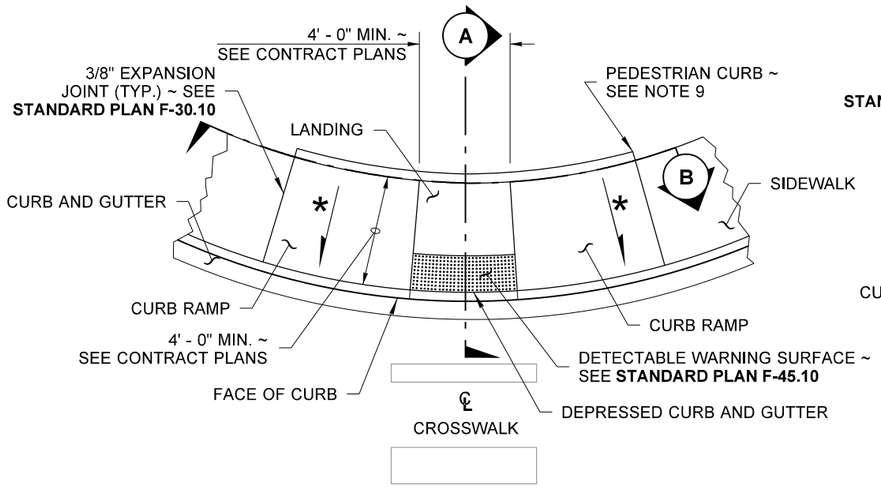
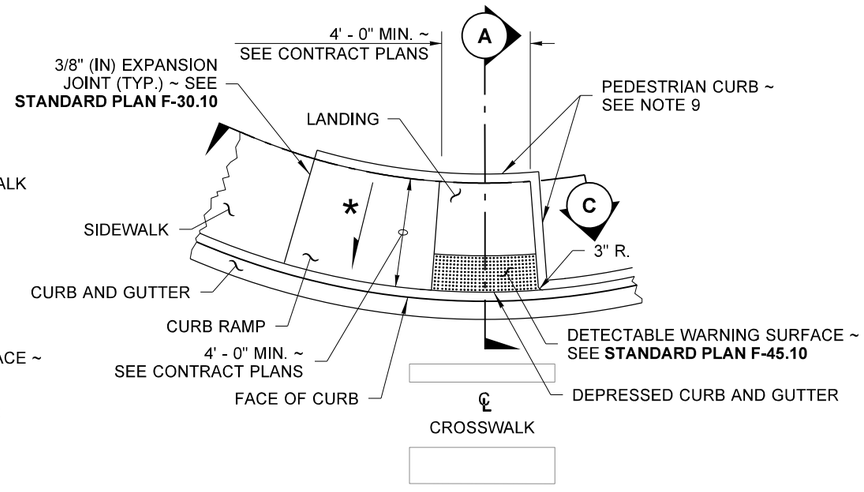
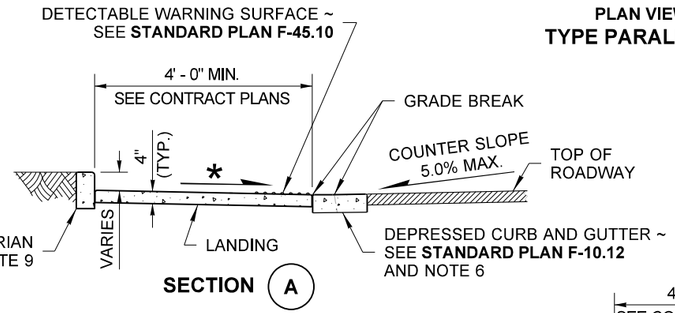


PLAN VIEW
TYPE PARALLEL A

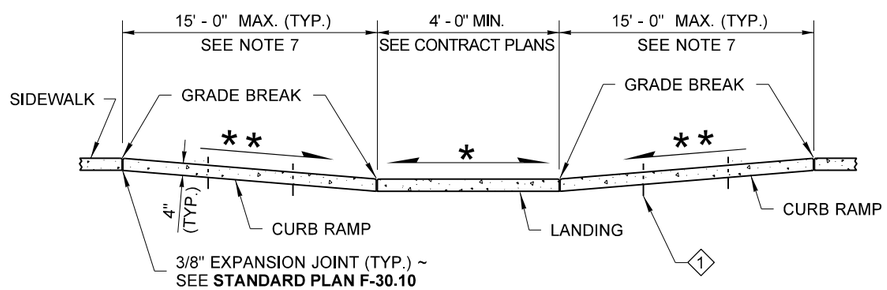


PLAN VIEW
TYPE PARALLEL B



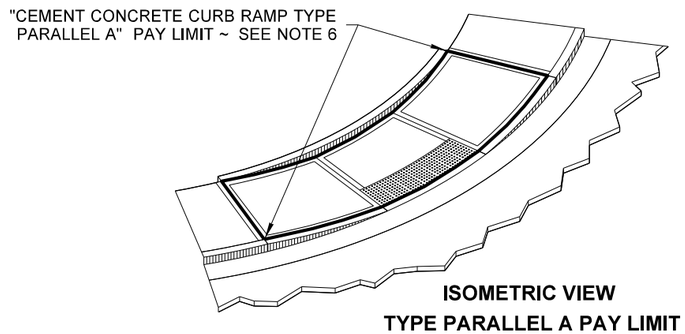
SECTION (A)

① CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.1** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0"PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.

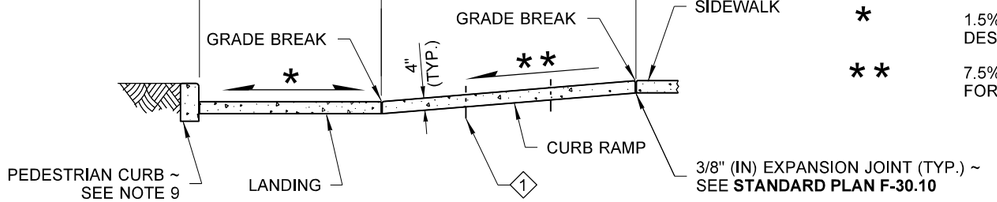


SECTION (B)

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

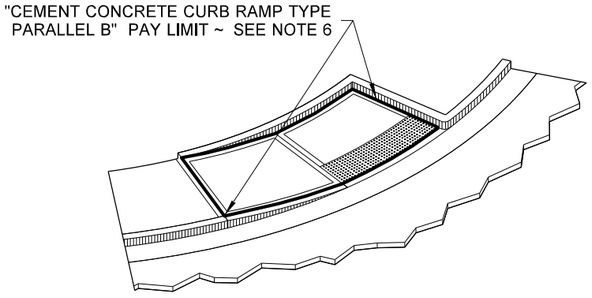


ISOMETRIC VIEW
TYPE PARALLEL A PAY LIMIT



SECTION (C)

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)



ISOMETRIC VIEW
TYPE PARALLEL B PAY LIMIT

NOTES

1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
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 on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
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.

LEGEND

SLOPE IN EITHER DIRECTION

* 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/ FORMWORK (8.3% MAX.) ~ SEE NOTE 7

R. SCOTT ZELLER
STATE OF WASHINGTON
28680
REGISTERED
PROFESSIONAL ENGINEER

PARALLEL CURB RAMP

STANDARD PLAN F-40.12-03

SHEET 1 OF 1 SHEET

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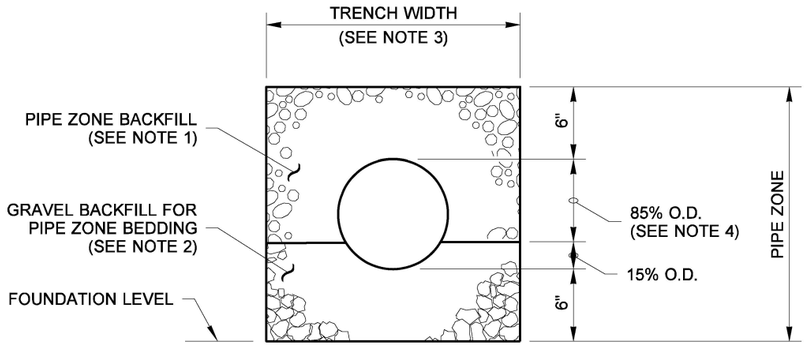
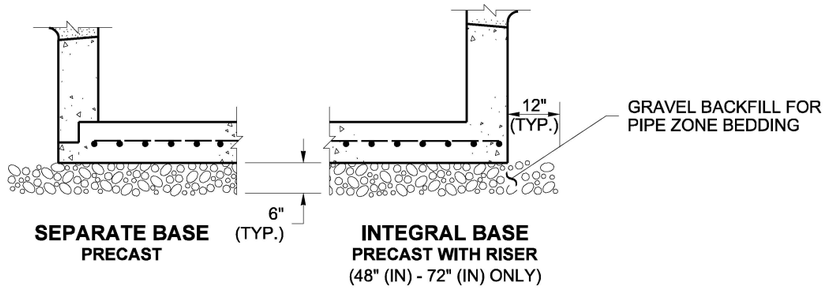


CONCRETE AND DUCTILE IRON PIPE

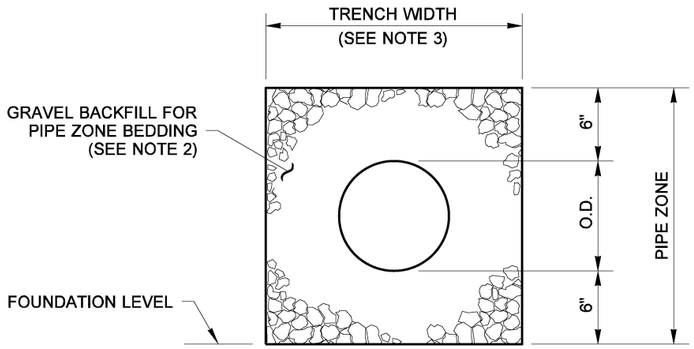


TYPICAL CONDITION FOR DRAINAGE STRUCTURE

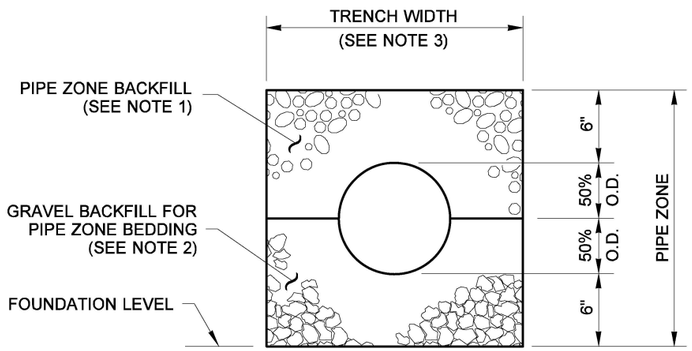
THIS DETAIL APPLIES TO **STANDARD PLANS B-5.20, B-5.40, B-5.60, B-10.20, B-10-40, B-15.20,B-15.40, B-15.60, B-25.20, B-25.60, B-35.20** AND **B-35.40.**

NOTES

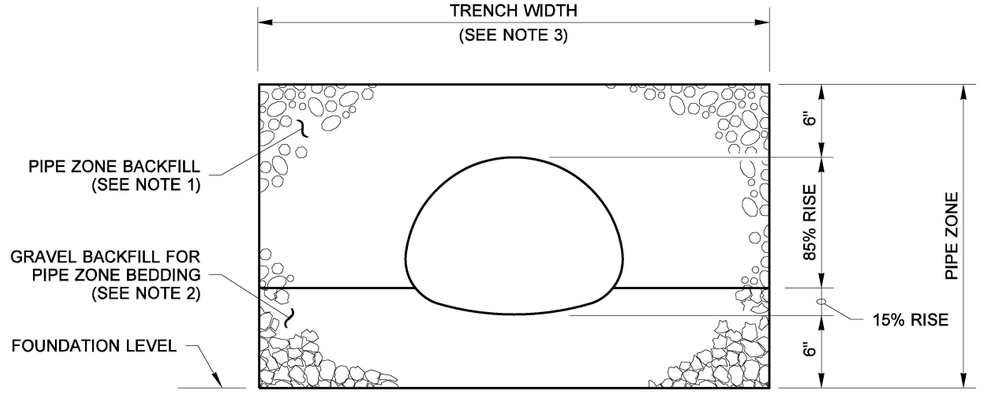
1. See **Standard Specifications Section 7-08.3(3)** for Pipe Zone Backfill.
2. See **Standard Specifications Section 9-03.12(3)** for Gravel Backfill for Pipe Zone Bedding.
3. See **Standard Specifications Section 2-09.4** for Measurement of Trench Width.
4. For sanitary sewer installation, concrete pipe shall be imbedded to spring line.



THERMOPLASTIC PIPE



METAL AND STEEL RIB REINFORCED POLYETHYLENE PIPE



PIPE ARCHES

CLEARANCE BETWEEN PIPES FOR MULTIPLE INSTALLATIONS		
PIPE	**SIZE**	**MINIMUM DISTANCE BETWEEN BARRELS**
CIRCULAR PIPE (DIAMETER)	**UP TO 48"**	**24"**
METAL PIPE ARCH (SPAN)	**48" AND LARGER**	**DIAMETER/2 OR 36" WHICHEVER IS LESS**

Aug 17, 2021

PIPE ZONE BEDDING AND BACKFILL

STANDARD PLAN B-55.20-03

SHEET 1 OF 1 SHEET

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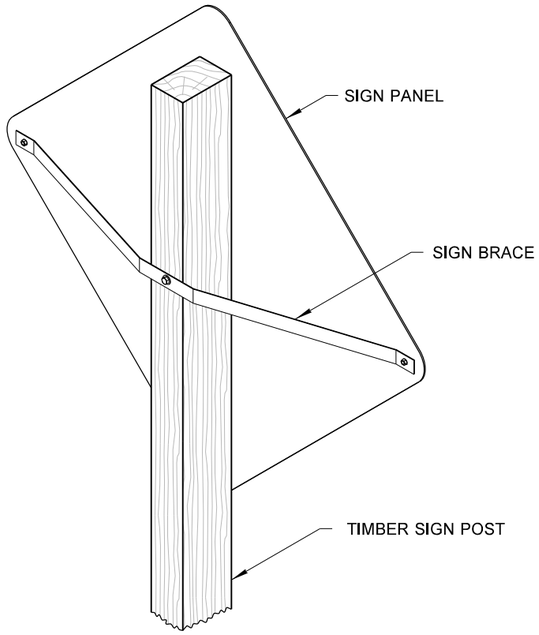
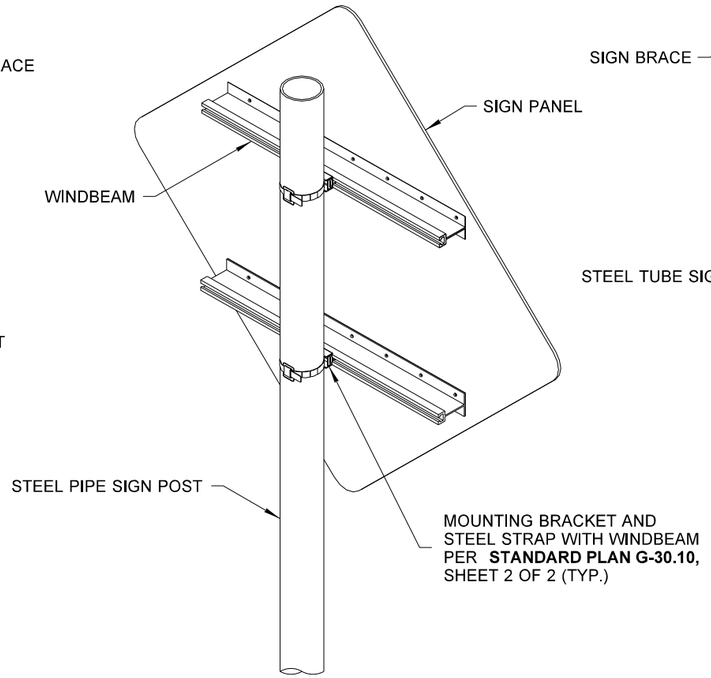
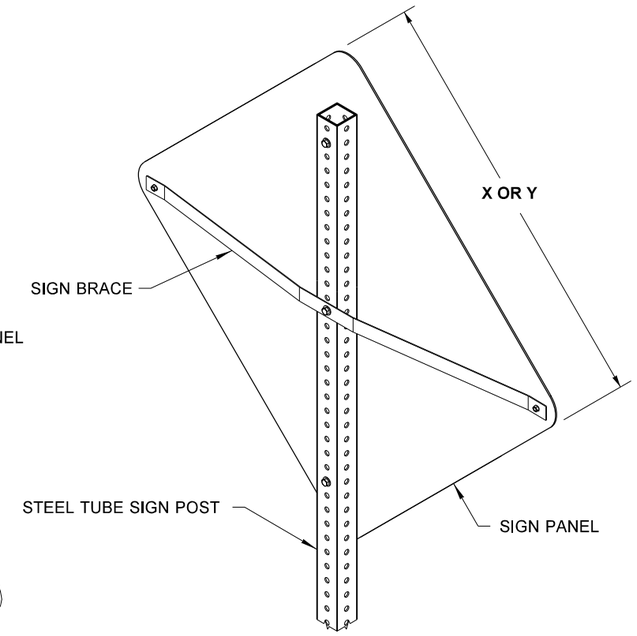


SIGN BRACE ON TIMBER POST



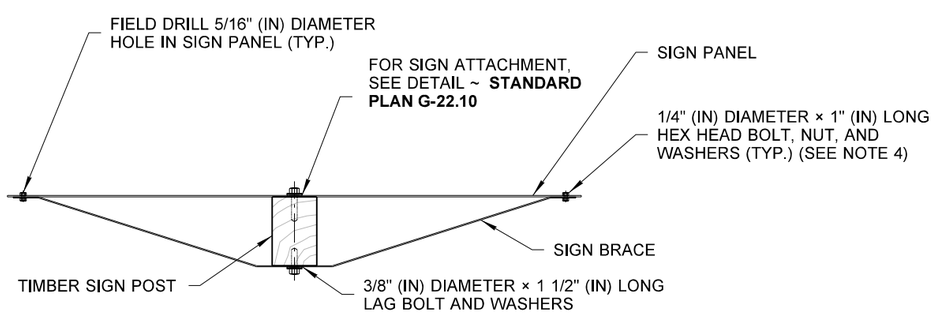


SIGN BRACE ON STEEL TUBE

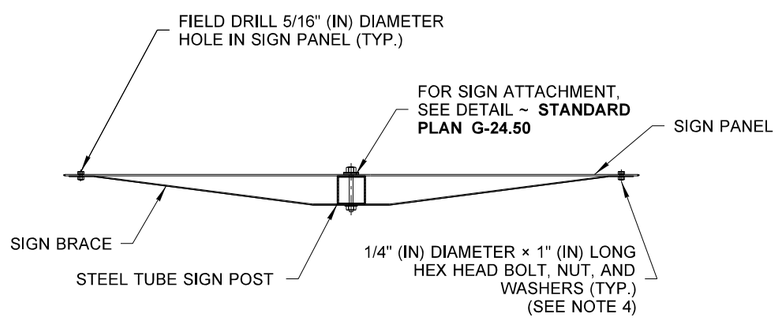
NOTES

1. Mounting brackets with steel straps shall be a stainless steel band and buckle system product or an approved equal. Mounting brackets shall be one bolt, flared leg; steel straps shall be 3/4" (in) wide and 0.030" (in) thick.
2. Sign braces are required for sign widths of 48" (in) or greater. For sign widths of 36" (in) or less, sign braces are only required when specified in the contract.
3. Sign braces are typically necessary on large sign panels that are exposed to high winds, traffic generated wind buffeting, or when snow thrown from plows might impact the sign.
4. A nylon washer shall be placed between the sign and the steel washer when the sign face has Type III, IV, VII or IX sheeting.
5. Signs 48" (in) or greater can be pinned together, back to back.
6. For signs installed back to back on a single post, no bracing is required.

SIGN BRACE ON STEEL PIPE



PLAN



PLAN

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

SIGN BRACING

STANDARD PLAN G-50.10-03

SHEET 1 OF 2 SHEETS

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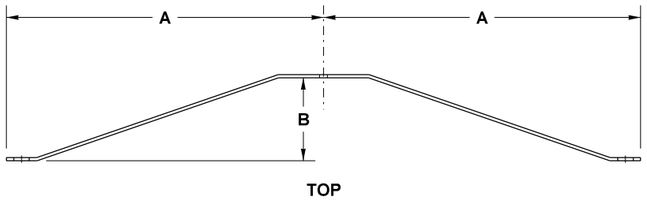
Washington State Department of Transportation

SIGN BRACE DIMENSIONS				
	SIGN TYPE			
	YIELD	DIAMOND-SHAPED	OTHERS	
A	1/3 SIGN WIDTH - 1 3/4"	1/2 SIGN WIDTH - 2 1/4"	1/2 SIGN WIDTH - 1"	
	SIGN POST TYPE			
	4×6 OR 6×6 TIMBER POST	6×8 TIMBER POST	3" DIAM. STEEL PIPE	2 1/2" SQUARE TUBE
B	5 1/2"	7 1/2"	4 3/4"	2 1/2"

NOTE

1. For sign installations on round steel posts, see **Standard Plan G-30.10, sheet 2 of 2.**



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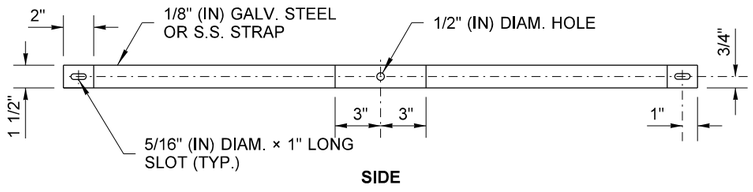
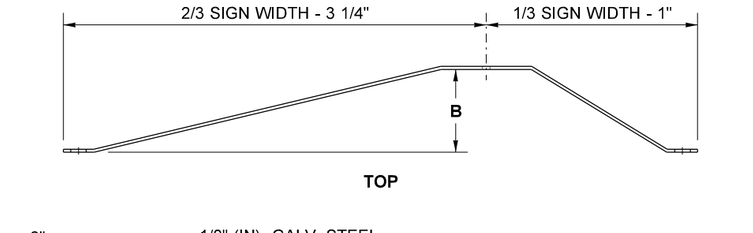
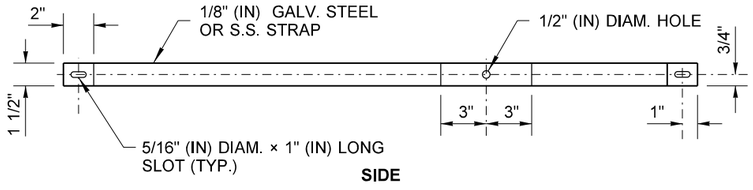


SIDE

SIGN BRACE DETAIL

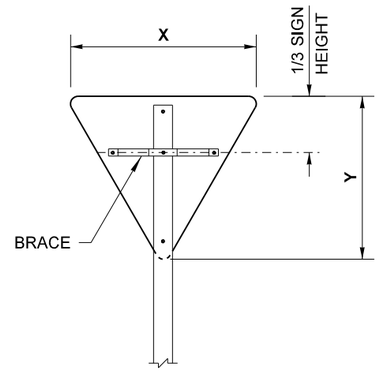


TOP

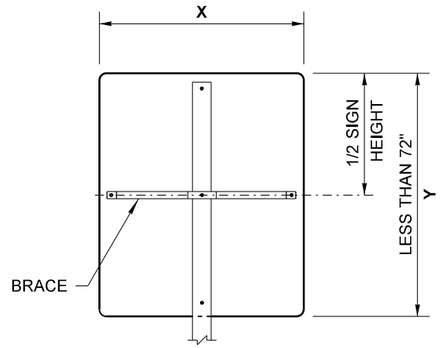


SIDE

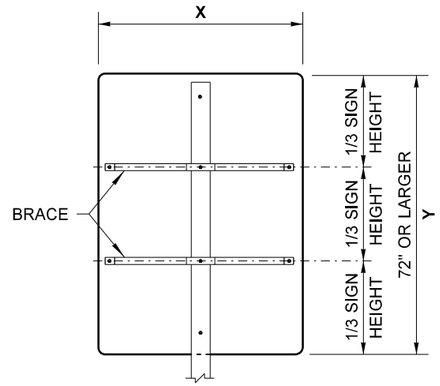
NO PASSING ZONE SIGN BRACE DETAIL



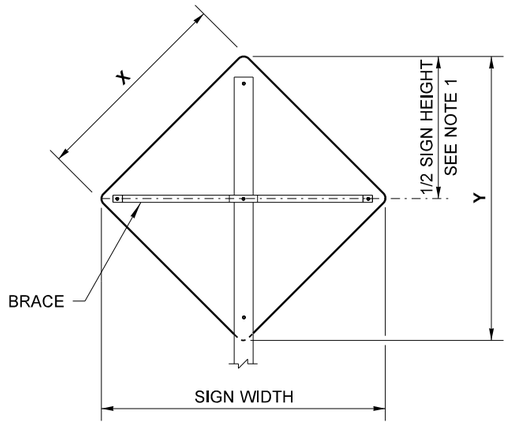
YIELD SIGN



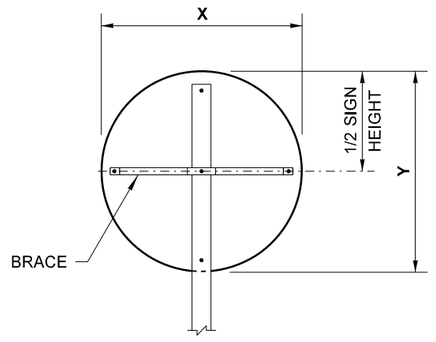
SMALL RECTANGULAR SIGN



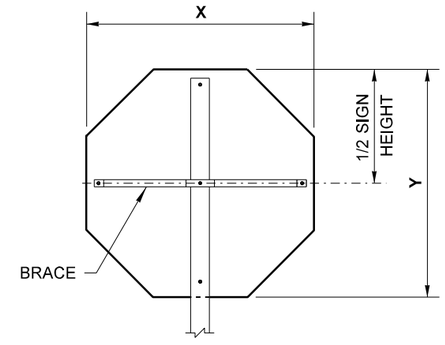
LARGE RECTANGULAR SIGN



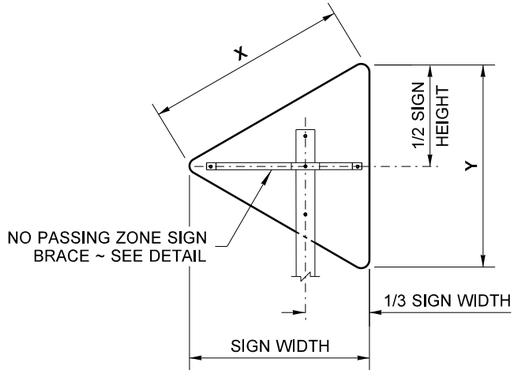
DIAMOND-SHAPED SIGN



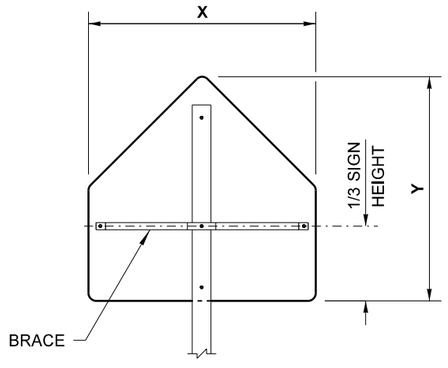
RAILROAD WARNING SIGN



STOP SIGN



NO PASSING ZONE SIGN



SCHOOL ZONE SIGN

SIGN BRACE PLACEMENT

DRAWN BY: FERN LIDDELL

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

SIGN BRACING

STANDARD PLAN G-50.10-03

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

BASE TABLE				
ADAPTOR TYPE	ANCHOR BOLT (IN) ⟨1⟩	BOLT CIRCLE DIAMETER (IN) "BC" ⟨2⟩	EXISTING BASE TYPE	LUMINAIRE HEIGHT (± 2' - 6")
A-1	1"	11"	WELDED PLATE	⟨3⟩
A-2	1"	12 1/4"	CAST ALUMINUM	⟨3⟩
A-3	1"	12 3/4"	STEEL TRANSFORMER	⟨3⟩
A-4	1 1/8"	14 1/8"	2-PC. ALUM. CLAMP	⟨4⟩
A-5	1 1/4"	14 1/8"	2-PC. ALUM. CLAMP	40'

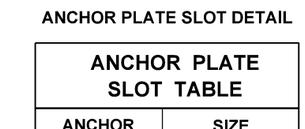
⟨1⟩ USE MATCHING DIAMETER FOR THREADED STUDS.

⟨2⟩ CONTRACTOR SHALL VERIFY BOLT CIRCLE "BC" IN THE FIELD BEFORE ORDERING. IF "BC" OR ANCHOR BOLT SIZES DIFFER FROM THOSE LISTED, CONTACT HQ BRIDGE AND STRUCTURES OFFICE.

⟨3⟩ 40' (FT) LUMINAIRE W/ 1 x 16' (FT) (MAX.) MAST ARM OR 35' (FT) LUMINAIRE W/ 2 x 16' (FT) MAST ARMS.

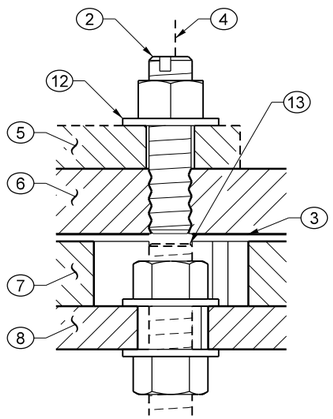
⟨4⟩ 50' (FT) LUMINAIRE W/ 1 x 16' (FT) (MAX.) MAST ARM OR 40' (FT) LUMINAIRE W/ 2 x 16' (FT) MAST ARMS - TOTAL WEIGHT 1000 LBS (MAX.).

DRAWN BY: COLBY FLETCHER



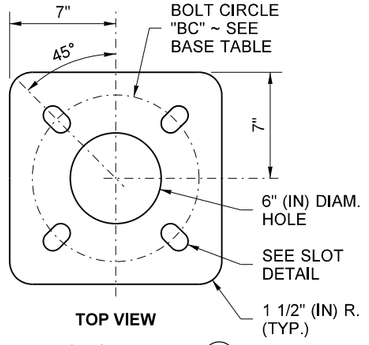
ANCHOR PLATE SLOT DETAIL

ANCHOR PLATE SLOT TABLE		
ANCHOR BOLT DIAMETER (IN)	SIZE W (IN)	SIZE L (IN)
1"	1 1/4"	2"
1 1/8"	1 1/4"	2"
1 1/4"	1 1/2"	2 1/4"



DETAIL ⟨A⟩

(TYP. OF FOUR PLACES)



TOP VIEW

ANCHOR PLATE ⟨8⟩

CONSTRUCTION NOTES

⟨1⟩ Wire brush existing threads.

⟨2⟩ Apply two coats of galvanizing paint (per **Standard Specification Section 9-08.1(2)B**).

⟨3⟩ Tighten bolt by "Turn of Nut" method (per **Standard Specification Section 6-03.3(33)**).

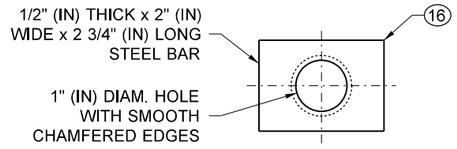
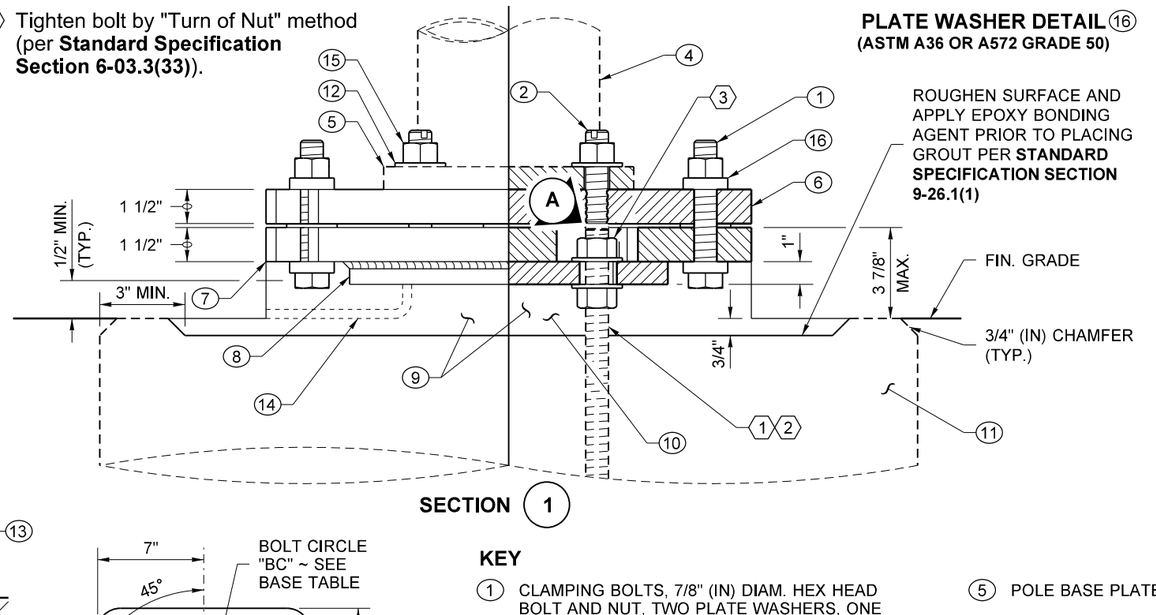


PLATE WASHER DETAIL ⟨16⟩
(ASTM A36 OR A572 GRADE 50)



SECTION ⟨1⟩

KEY

⟨1⟩ CLAMPING BOLTS, 7/8" (IN) DIAM. HEX HEAD BOLT AND NUT, TWO PLATE WASHERS, ONE HARDENED ROUND WASHER, 87 FT-LBS TORQUE (THREE CLAMPING BOLT ASSEMBLIES PER SLIP BASE) (**PER ASTM F3125 GRADE A325**)

⟨2⟩ THREADED SLOTTED STUD ~ SEE BASE TABLE FOR DIAMETER, HARDENED WASHER, AND HEAVY HEX NUT (FOUR PER BASE PLATE) INSERT STUD AND CENTER PUNCH AT BOTTOM PERIPHERY TO LOCK TAPPED STUD IN PLACE PRIOR TO GALVANIZING (**PER ASTM F1554 GRADE 105**)

⟨3⟩ KEEPER PLATE ~ 0.0149" (IN) 28 GAGE PLATE (**PER ASTM A653 COATING DESIGNATION G90**)

⟨4⟩ POLE WALL (EXISTING)

⟨5⟩ POLE BASE PLATE (EXISTING)

⟨6⟩ TOP SLIP PLATE (**PER ASTM A572 GR. 50 OR A588**)

⟨7⟩ BOTTOM SLIP PLATE (**PER ASTM A572 GR. 50 OR A588**)

⟨8⟩ ANCHOR PLATE (**PER ASTM A572 GR. 50 OR A588**)

⟨9⟩ REMOVE GROUT (EXISTING WITH DRAIN)

⟨10⟩ NEW GROUT PAD WITH DRAIN

⟨11⟩ FOUNDATION (EXISTING)

⟨12⟩ HARDENED WASHER (**PER ASTM F436**)

⟨13⟩ ANCHOR BOLT (EXISTING) ~ TRIM TO CLEAR SLIP PLATE BY 1/8" (IN) MIN.

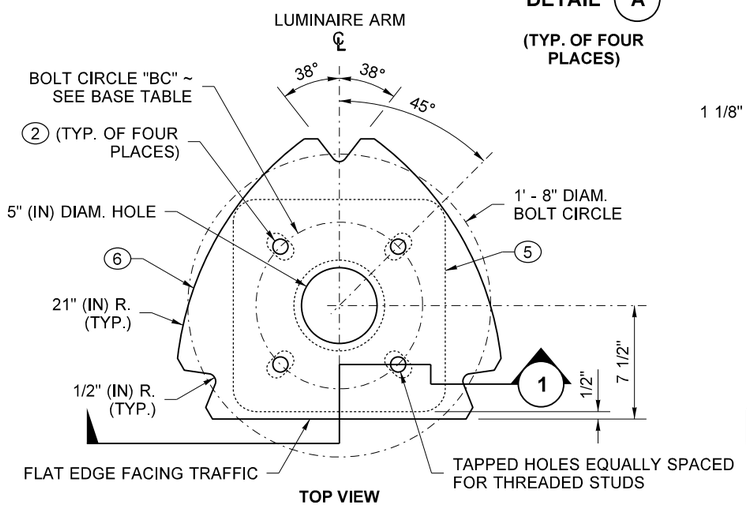
⟨14⟩ 3/8" (IN) DIAM DRAIN TUBE (PER **STANDARD SPECIFICATION SECTION 9-29.2(3)**)

⟨15⟩ HEAVY HEX NUT (TYP.) (**PER ASTM A563 GRADE DH**)

⟨16⟩ PLATE WASHER (**ASTM A36**)

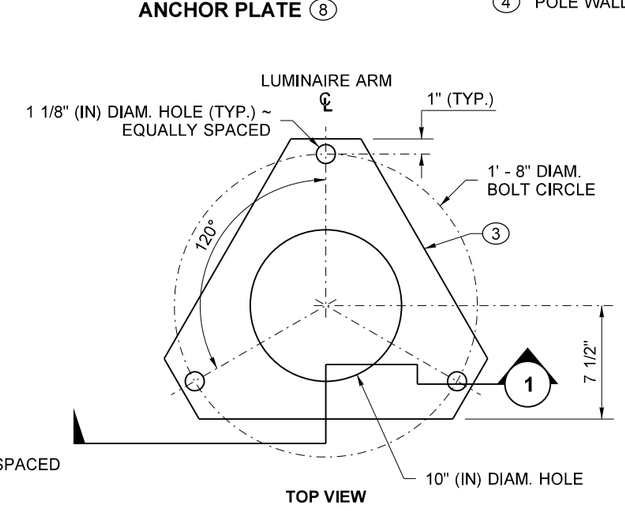
NOTES

1. The purpose of this plan is to provide the details for retrofitting a 4-bolt frangible base with a slip base assembly.
2. Existing anchor bolts shall be inspected for corrosion, thread damage, and galvanizing. To minimize galvanic corrosion between dissimilar metals, ensure galvanizing remains intact while installing aluminum luminaire.
3. After bolting the bottom slip plate assembly to the foundation, fill the slotted bolt holes with mastic per **Standard Specification Section 9-08.7**.
4. Grade around the foundation to ensure the stub height does not exceed 3 7/8" (in). For grading requirements, see **Standard Plan J-28.22**.
5. Removal of the frangible base from the existing base plate is required.
6. Misaligned anchor bolts shall be removed and replaced.
7. This adaptor shall be used only on luminaire poles that contain a handhole. Replace standards and foundation when the handhole is located in the frangible base.
8. Galvanize the anchor plate, bottom slip plate, and top slip plate after fabrication according to **ASTM A123**.
9. Galvanize all hardware according to **ASTM F2329**.



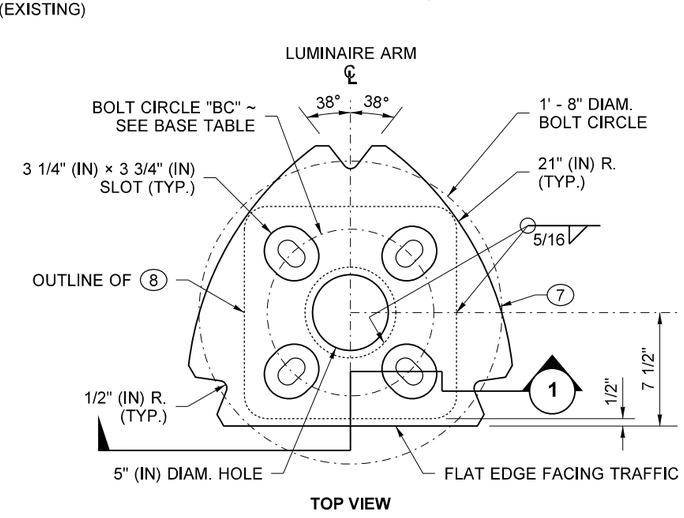
TOP VIEW

TOP SLIP PLATE ⟨6⟩



TOP VIEW

KEEPER PLATE ⟨3⟩



TOP VIEW

BOTTOM SLIP PLATE ⟨7⟩

SLIP BASE ADAPTOR FOR 4-BOLT LIGHT STANDARD BASE STANDARD PLAN J-28.43-01

SHEET 1 OF 1 SHEET

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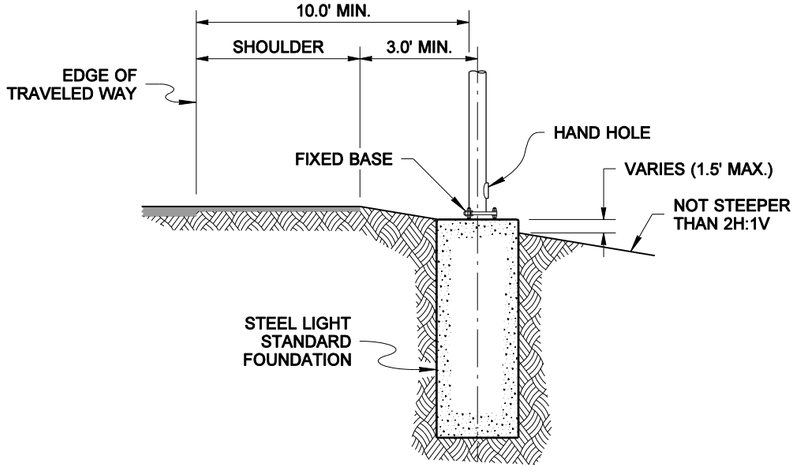
Washington State Department of Transportation

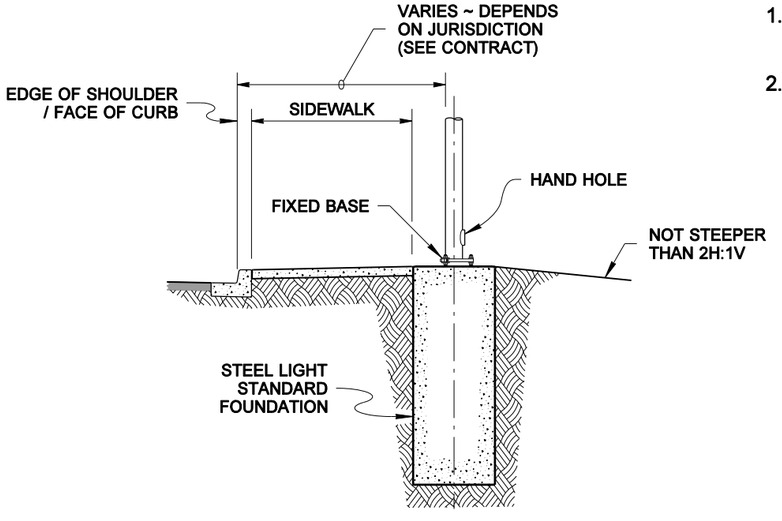
DRAWN BY: BILL BERENS



SECTION VIEW

CASE I

POSTED SPEED LIMIT LESS THAN 35 MPH



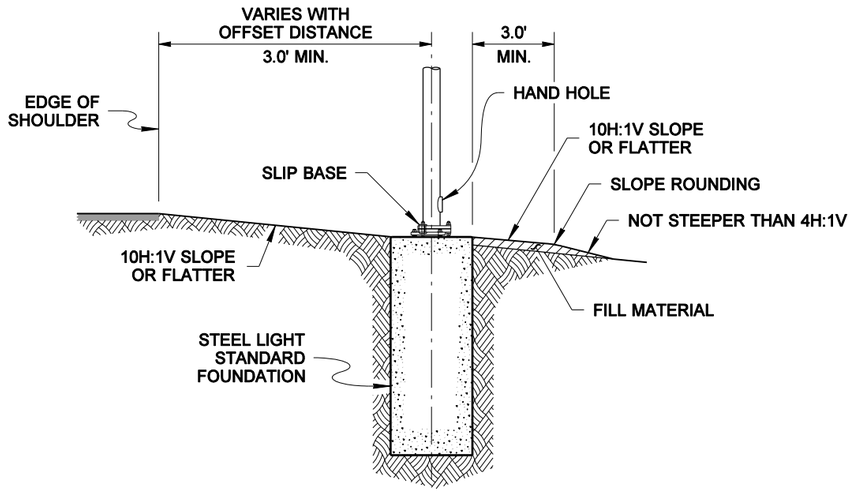
SECTION VIEW

CASE J

POSTED SPEED LIMIT LESS THAN 35 MPH

NOTES

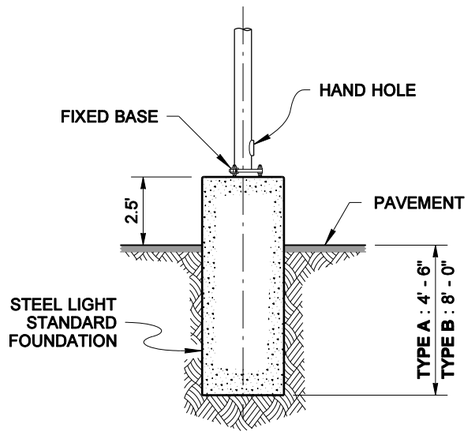
1. See **Standard Plan J-28.30** for foundation details and construction methods.
2. See **Standard Plan J-28.50** for pole base and hand hole details.



SECTION VIEW

CASE K

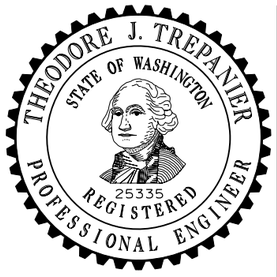
ROADWAYS WITH 10H:1V OR FLATTER SIDE SLOPES



SECTION VIEW

CASE L

PARKING LOTS



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STEEL LIGHT STANDARD PLACEMENT MISCELLANEOUS

STANDARD PLAN J-28.26-01

SHEET 1 OF 1 SHEET

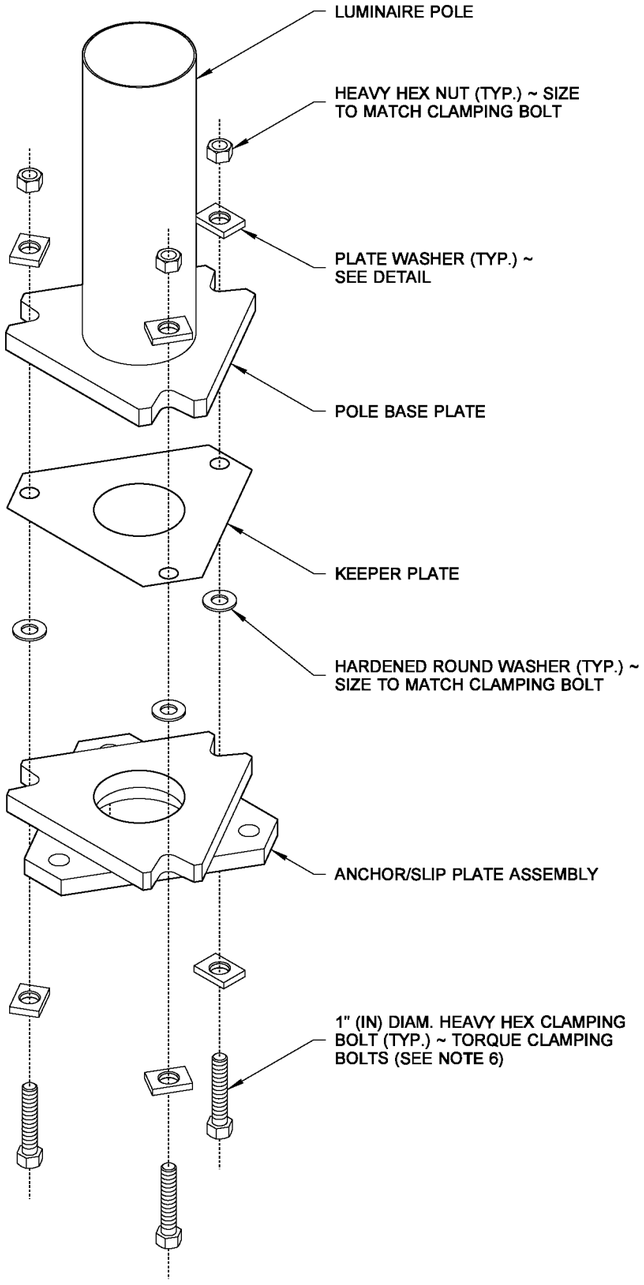
APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

12-02-08 — DATE

Washington State Department of Transportation

DRAWN BY: BILL BERENS



EXPLODED

ISOMETRIC VIEW

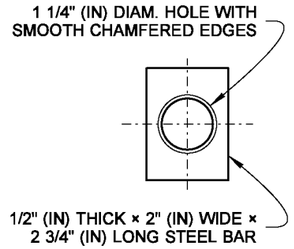
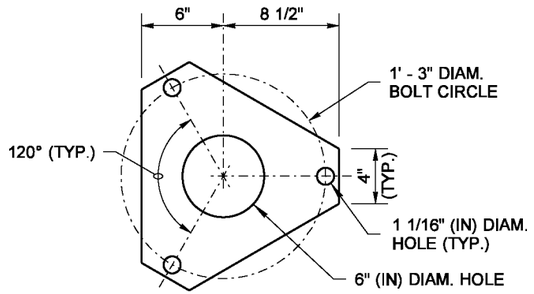


PLATE WASHER DETAIL

CLAMPING BOLT TABLE			
LUMINAIRE HEIGHT (FT) (H1)	MAST ARM TYPE	MAST ARM LENGTH (FT)	CLAMPING BOLT DIAMETER (IN) " D "
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 45'	DOUBLE	6' TO 8'	1"
46' TO 50'	DOUBLE	6' TO 8'	①
20' TO 45'	DOUBLE	10' TO 16'	①
46' TO 50'	DOUBLE	10' TO 16'	①

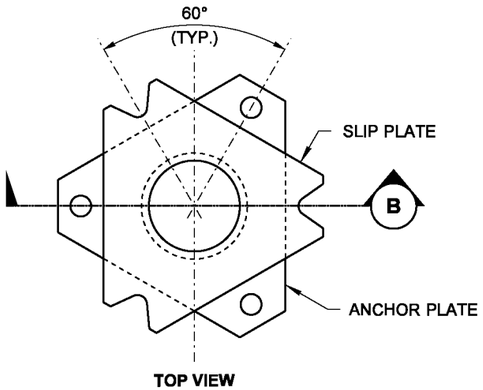
① SLIP BASE NOT ALLOWED



(28-GAGE SHEET METAL)

TOP VIEW

KEEPER PLATE

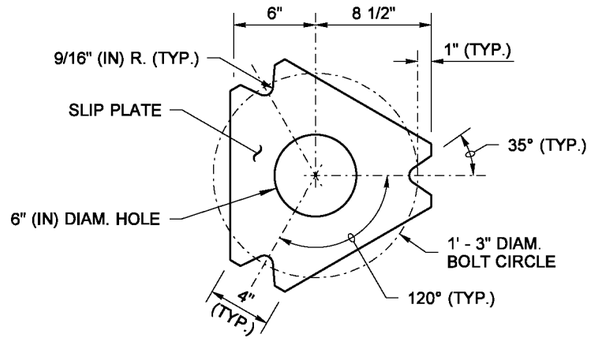


TOP VIEW

ANCHOR/SLIP PLATE ASSEMBLY

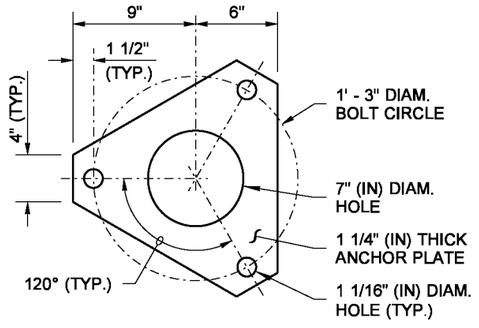
NOTES

1. 50' (ft) (**H1**) poles with double mast arms or poles weighing in excess of 1000 lbs. shall not be installed on a slip base.
2. The Slip and Anchor Plates shall be manufactured from ASTM A572 GR.50 or ASTM A588. All Slip Plate notched surfaces shall be finished smooth.
3. The clamping bolts shall be high-strength steel, manufactured from AASHTO M 164, with heavy hex nut and hardened washer. Galvanize the Clamping Bolts according to AASHTO M 232.
4. Round and smooth all edges along wire-way to protect the conductors. See **Standard Plan J-28.70** for wiring details.
5. Galvanize the Anchor/Slip Plate after fabrication according to AASHTO M 111.
6. Clamping Bolt diameters may vary on existing installations. Replace them with the same size as the originals when repairing or reusing a luminaire pole.
   For 1" (in) clamping bolts, tighten to 95 ft-lbs.
   For 1 1/4" (in) clamping bolts, tighten to 104 ft-lbs.
   DO NOT OVERTIGHTEN. After state inspection, burr threads to prevent nut rotation.



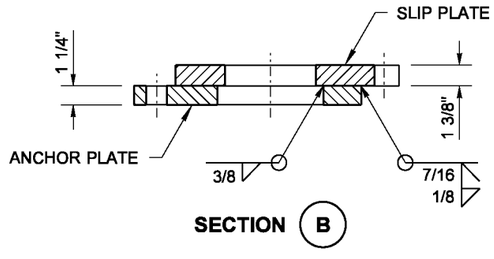
TOP VIEW

SLIP PLATE



TOP VIEW

ANCHOR PLATE



SECTION Ⓑ

STEEL LIGHT STANDARD ANCHOR/SLIP PLATE FOR SLIP BASE

STANDARD PLAN J-28.42-01

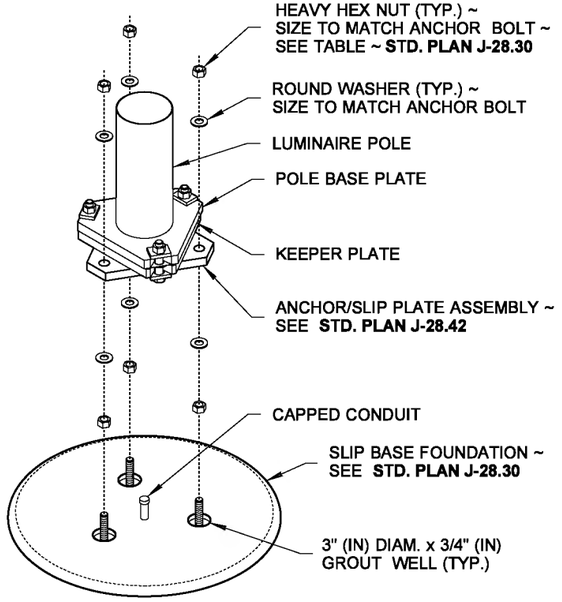
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



EXPLODED VIEW

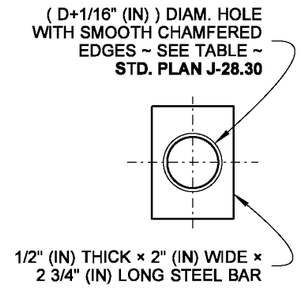
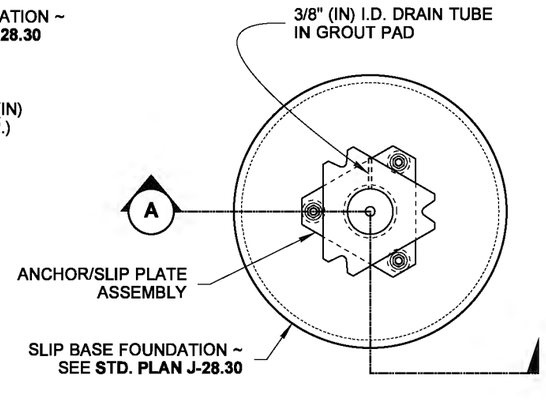
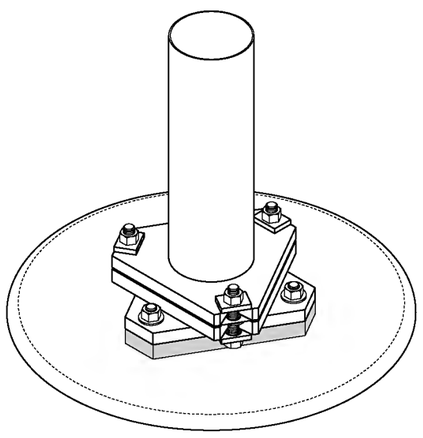


PLATE WASHER DETAIL



PLAN VIEW

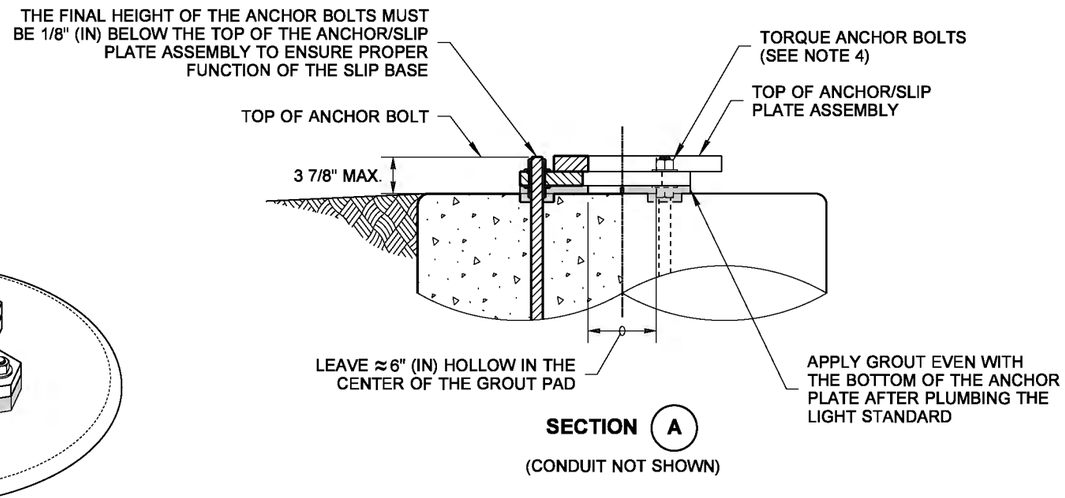
SLIP BASE



ASSEMBLED

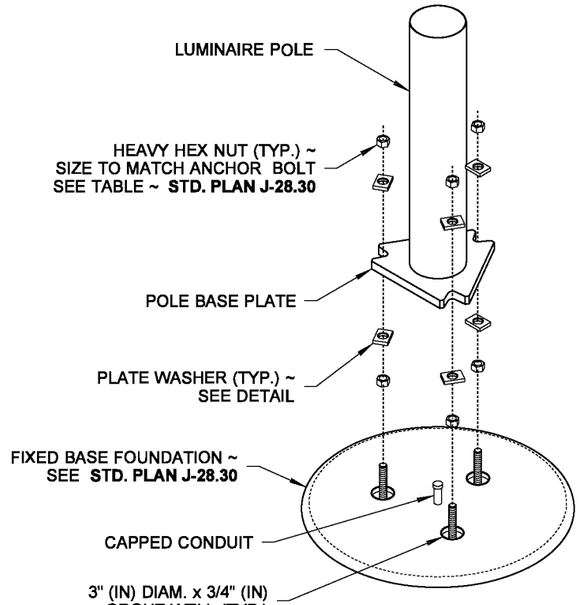
ISOMETRIC VIEW

SLIP BASE



SECTION (A)

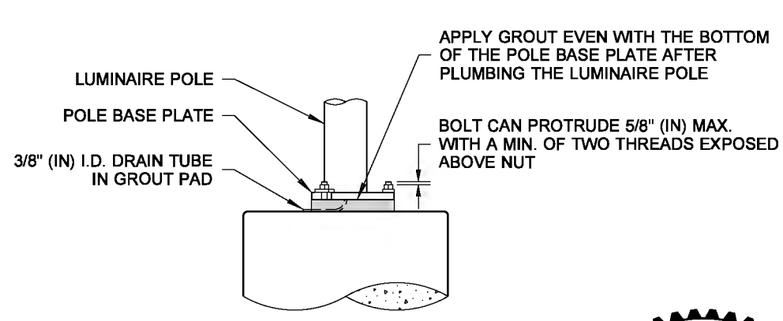
(CONDUIT NOT SHOWN)



EXPLODED VIEW

NOTES

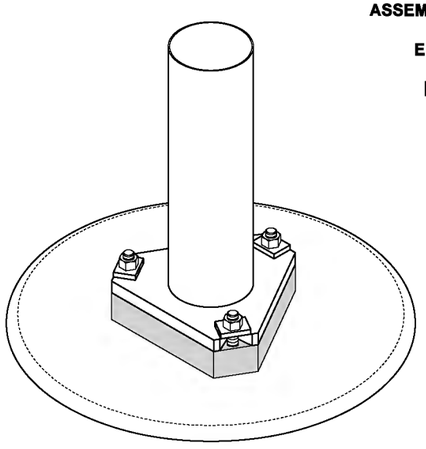
1. 50' (ft) (**H1**) poles with double mast arms or poles weighing in excess of 1000 LBS shall not be installed on a slip base.
2. Galvanizing shall be in accordance with AASHTO M 111.
3. See **Standard Plans C-8b, C-85.15,** and **J-28.60** for foundation and base plate requirements when light standards are mounted on cement concrete traffic barrier.
4. See **Standard Specification Sections 6-03.3(33)** and **8-20.3 (4)** for the torque requirements for all of the anchor bolt installations. Install 1" (in) diameter clamping bolts in all slip bases to **a torque of 95 Foot-Pounds -** See **Standard Specification Section 8-20.3 (13)A. DO NOT OVERTIGHTEN.** After state inspection, burr threads to prevent nut rotation.
5. For anchor bolt Diameter " **D** ", see table, **Standard Plan J-28.30**.



ASSEMBLED AND GROUTED

ELEVATION VIEW

FIXED BASE



ASSEMBLED

ISOMETRIC VIEW

FIXED BASE

RICHARD P. ZELDENRUST
STATE OF WASHINGTON
25470
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

STEEL LIGHT STANDARD BASE MOUNTING

STANDARD PLAN J-28.40-02

SHEET 1 OF 1 SHEET

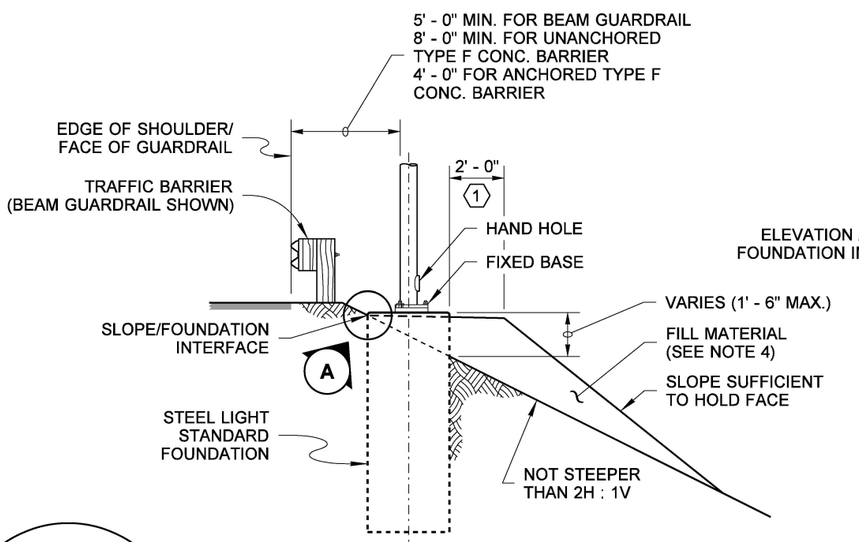
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: COLBY FLETCHER

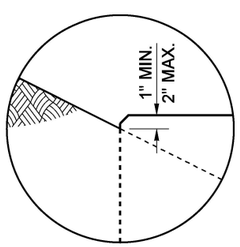
MAXIMUM CONCRETE EXPOSURE TABLE (CASE F ONLY)	
SLOPE	**HEIGHT (SEE NOTE 3)**
1.75H : 1V	1' - 8 1/2"
1.50H : 1V	2' - 0"
1.25H : 1V	2' - 4 3/4"

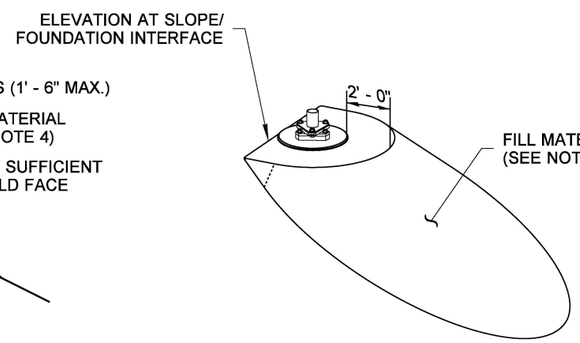


SECTION VIEW

CASE E

SLOPES 2H : 1V OR FLATTER BEHIND TRAFFIC BARRIER





PERSPECTIVE VIEW

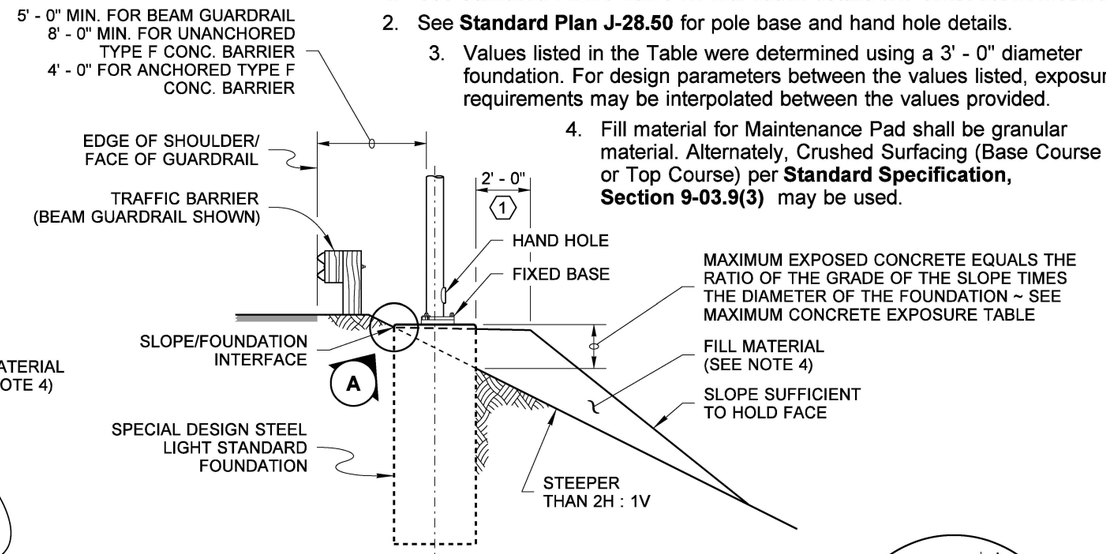
CASE E & CASE F

MAINTENANCE PAD

EMBANKMENTS

NOTES

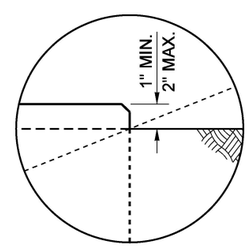
1. See **Standard Plan J-28.30** for foundation details and construction methods.
2. See **Standard Plan J-28.50** for pole base and hand hole details.
3. Values listed in the Table were determined using a 3' - 0" diameter foundation. For design parameters between the values listed, exposure requirements may be interpolated between the values provided.
4. Fill material for Maintenance Pad shall be granular material. Alternately, Crushed Surfacing (Base Course or Top Course) per **Standard Specification, Section 9-03.9(3)** may be used.



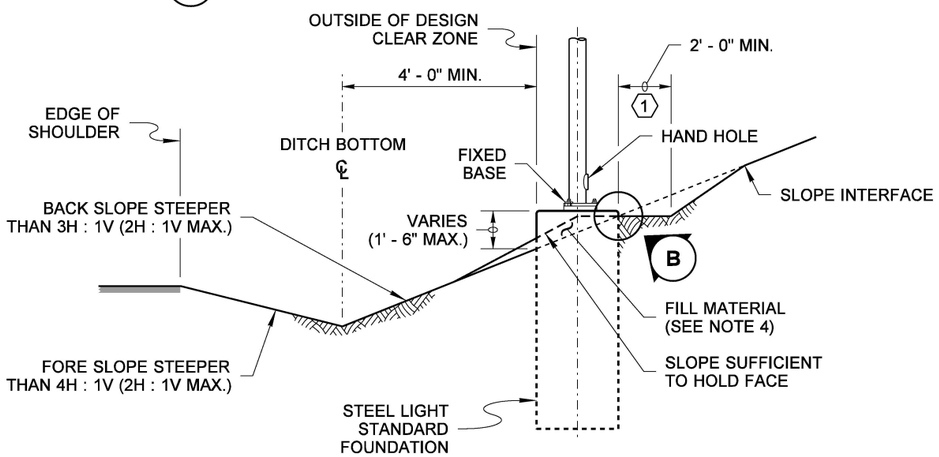
SECTION VIEW

CASE F

SLOPES STEEPER THAN 2H : 1V BEHIND TRAFFIC BARRIER (SPECIAL DESIGN FOUNDATION)



DETAIL A

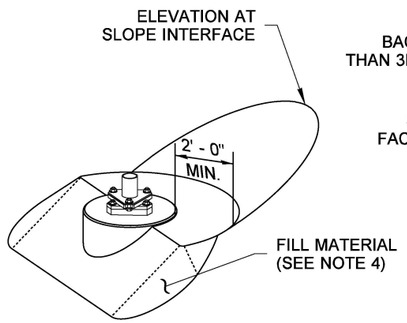


SECTION VIEW

CASE G

ROADSIDE DITCH WITH FORE SLOPE STEEPER THAN 4H : 1V (2H : 1V MAX.)

1 MAINTENANCE PAD ~ SLOPE TO DRAIN AWAY FROM THE FOUNDATION ~ NOT STEEPER THAN 5%



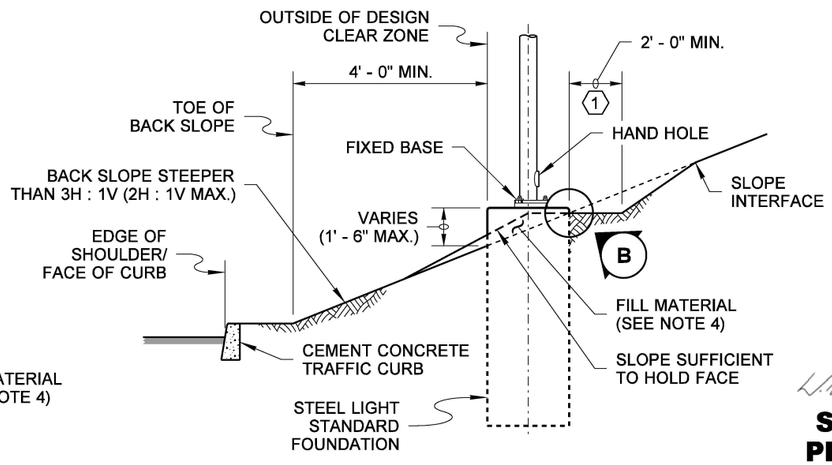
PERSPECTIVE VIEW

CASE G & CASE H

MAINTENANCE PAD

BACK SLOPES

DETAIL B



SECTION VIEW

CASE H

CUT SECTION WITH BACK SLOPE STEEPER THAN 3H : 1V (2H : 1V MAX.)

WILLIAM FLINT JACKSON
STATE OF WASHINGTON
48821
REGISTERED
PROFESSIONAL ENGINEER

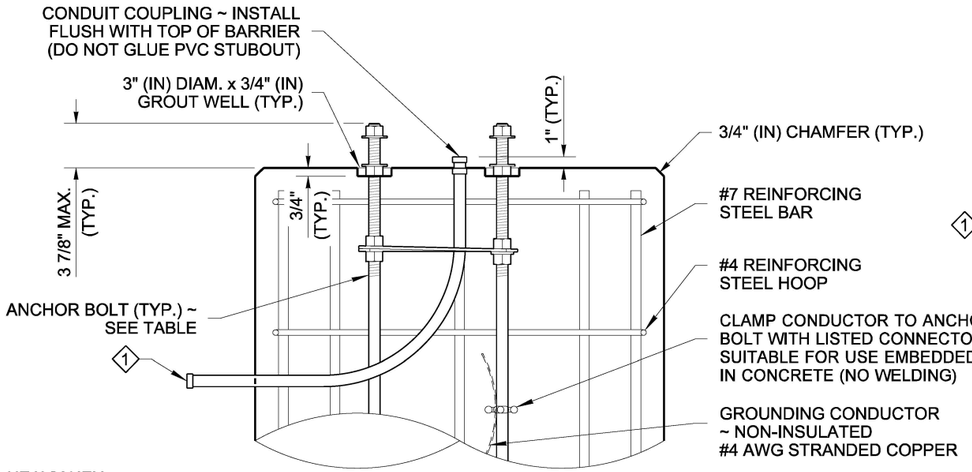
Jackson, Flint
Aug 27 2020 12:01 PM
cosign

STEEL LIGHT STANDARD PLACEMENT (FIXED BASE)

STANDARD PLAN J-28.24-02

SHEET 1 OF 1 SHEET

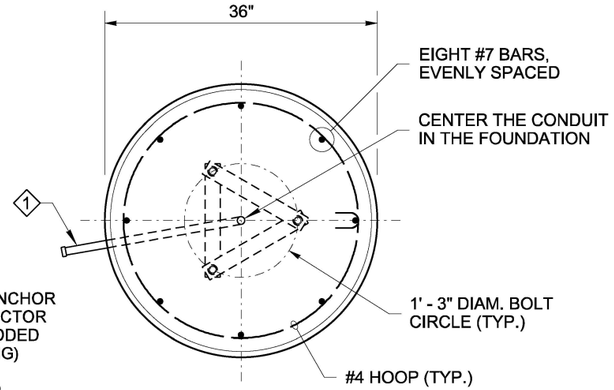
APPROVED FOR PUBLICATION
Date: 2020.09.16 10:20:59 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation



PARTIAL ELEVATION VIEW

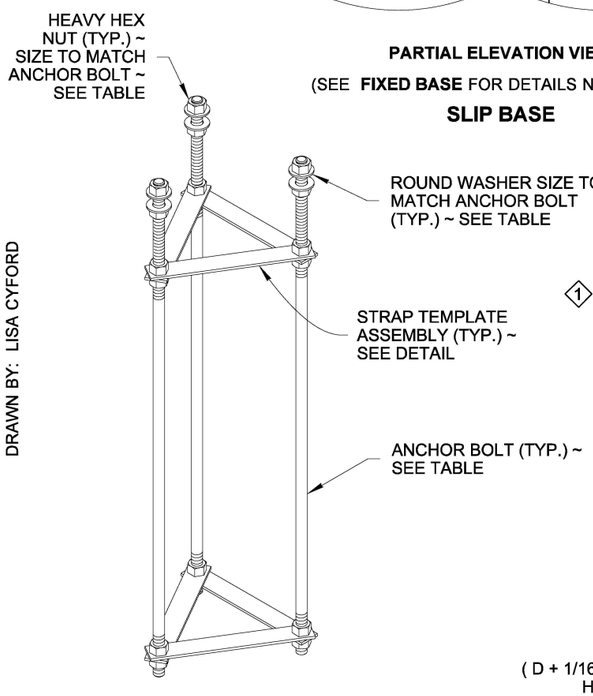
(SEE **FIXED BASE** FOR DETAILS NOT SHOWN)

SLIP BASE



TOP VIEW

FIXED BASE

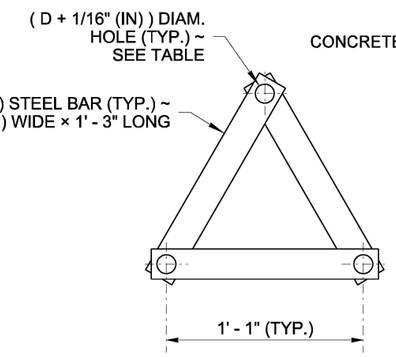


ISOMETRIC VIEW

ANCHOR BOLT ASSEMBLY

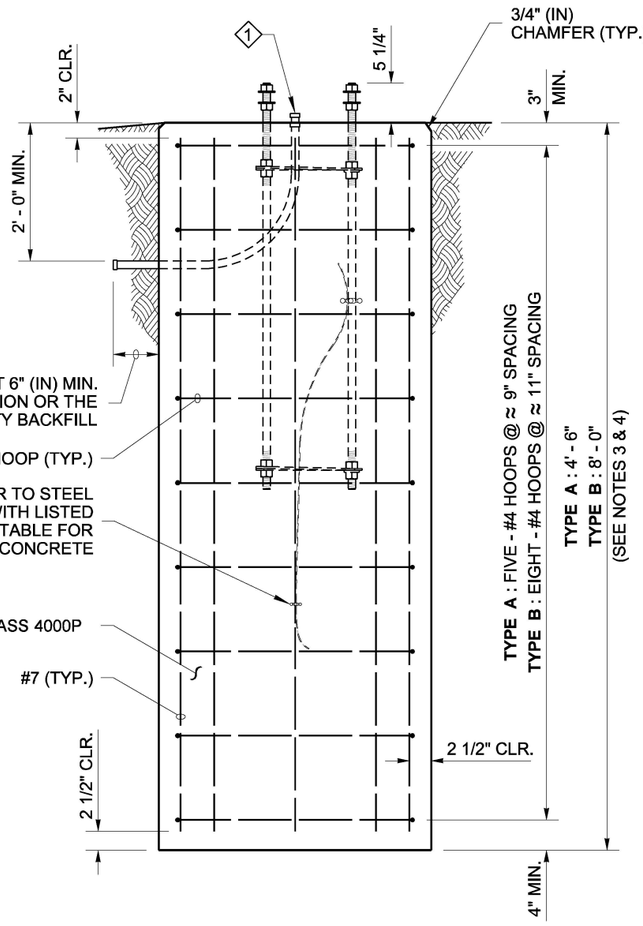
(SLIP BASE SHOWN)

1" (IN) DIAM. CONDUIT ~ CAP EACH END ~ PROVIDE ADDITIONAL CONDUIT FOR COMMUNICATION OR SIGNAL CABLE WHERE SHOWN IN THE CONTRACT



TOP VIEW

STRAP TEMPLATE ASSEMBLY



SEE **SLIP BASE** FOR DETAILS NOT SHOWN

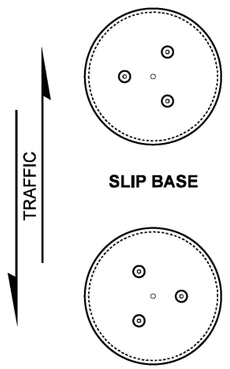
ELEVATION VIEW

FIXED BASE

ANCHOR BOLT TABLE			
LUMINAIRE HEIGHT (FT) (H1)	**MAST ARM TYPE**	**MAST ARM LENGTH (FT)**	**ANCHOR BOLT DIAMETER (IN) "D"**
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 50'	DOUBLE	6' TO 8'	1"
20' TO 45'	DOUBLE	10' TO 16'	1"
46' TO 50'	DOUBLE	10' TO 16'	1 1/8"

NOTES

1. See **Standard Plan J-28.40** for Luminaire Pole base mounting details.
2. The Strap Templates shall be held in place by nuts, 6" (in) from the top of the foundation and 3" (in) from the bottom of the anchor bolts. Eighteen heavy duty hex nuts and six round washers are required for a slip base assembly. Eighteen heavy duty hex nuts and six plate washers are required for a fixed base assembly.
3. Use Steel Light Standard Foundation **Type A** on level ground or slopes not exceeding 4H : 1V. Use **Type B** for slopes steeper than 4H : 1V, but not exceeding 2H : 1V. Slopes steeper than 2H : 1V shall require a special design.
4. These foundations are designed for a minimum of 2000 PSF **(TYPE A)** or 1500 PSF **(TYPE B)** allowable lateral bearing pressure for the soil. A special foundation shall be required for soil with allowable lateral bearing pressure lower than 1500 PSF.
5. The Luminaire Pole height shall not exceed 50' (ft) (**H1**).
6. Slip bases shall not be installed on 50' (ft) (**H1**) poles with Double Mast Arms, nor on poles weighing more than 1000 lbs.
7. Slip bases are required on poles installed inside the Design Clear Zone, and on poles installed behind traffic barrier that are within the traffic barrier deflection zone.
8. Foundations constructed within Media Filter Drains shall be increased in depth by the depth of the Media Filter Drain.
9. Exposed portions of the foundation shall be formed to create a Class 2 surface finish. All forming shall be removed upon completion of foundation construction.
10. For excavation, concrete placement, and backfill options, see METHOD 1 and METHOD 2 on Sheet 2 of 2.
11. The anchor bolts shall be high-strength steel, manufactured from ASTM F1554 Grade 105, with heavy hex nuts and hardened washers. Galvanize the anchor bolts according to ASTM F2329.
12. The foundation shall be grounded in accordance with the requirements of **Standard Specification Section 8-20.3(4).**
13. See **Standard Plans C-8b** and **C-85.14** for steel light standards on traffic barrier.



SLIP BASE

FIXED BASE

ANCHOR BOLT LAYOUT

Jun 18, 2024

STEEL LIGHT STANDARD FOUNDATION TYPES A & B

STANDARD PLAN J-28.30-04

SHEET 1 OF 2 SHEETS

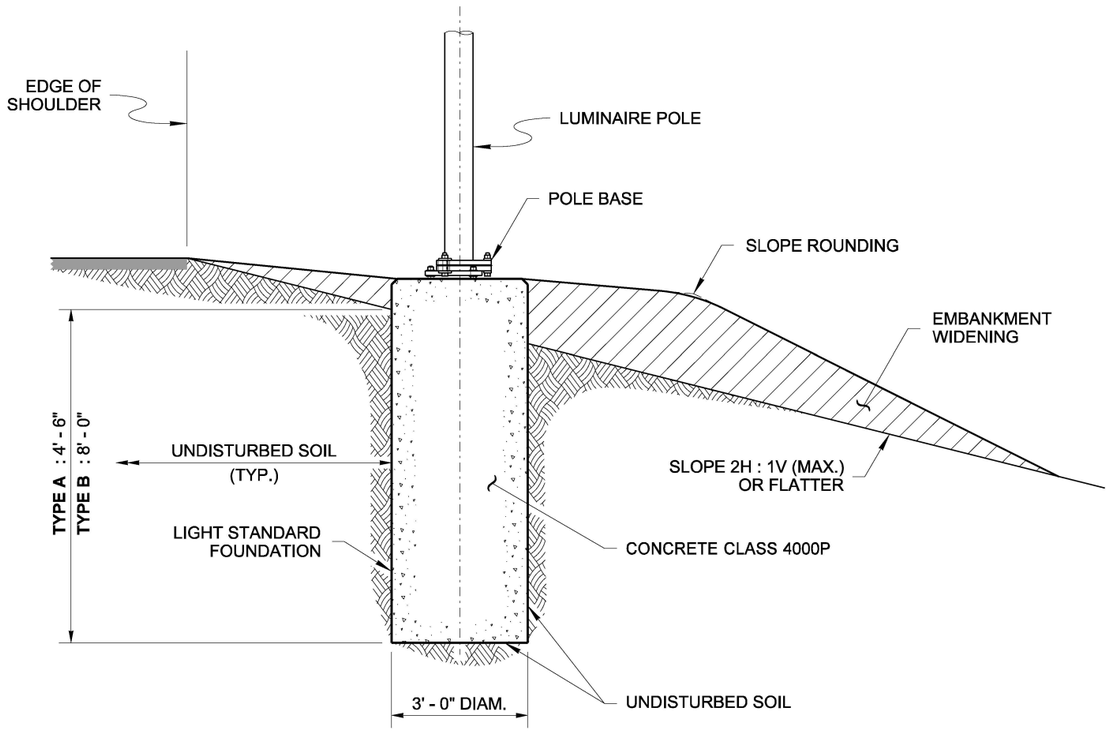
APPROVED FOR PUBLICATION

Jun 18, 2024

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: LISA CYFORD



(CASE A SHOWN)

METHOD 1

NO SUBSURFACE FORM

This option is used only when the existing soil in the hole will remain standing and the cement concrete can be placed without causing the soil to collapse. Concrete shall be cast directly against undisturbed soil.

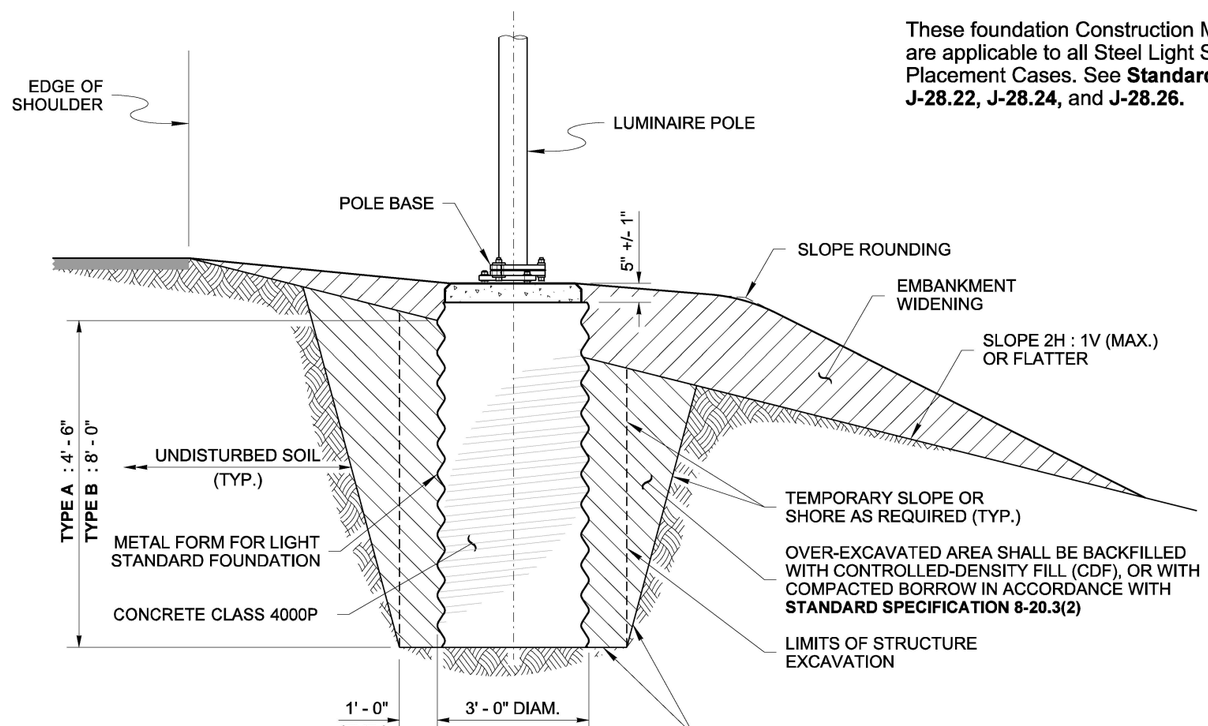
Auger the hole for the foundation. Use a paper or cardboard form to achieve a smooth finish on the final exposed cement concrete. Support the form as necessary to remain plumb.

See **Standard Plans J-28.24** and **J-28.26** for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Construct the embankment widening (if required).



(CASE A SHOWN)

METHOD 2

METAL (SUBSURFACE) FORM REQUIRED

When the existing soil will not retain a vertical face, over-excavate the foundation area and install a 36" (in) diameter corrugated metal (pipe) form. The corrugated metal form shall not extend more than 5" (in) +/- 1" (in) below any portion of the foundation that will remain exposed upon final grading. Continue forming to full height using a paper or cardboard form to achieve a smooth finish on final exposed cement concrete. Support the form as necessary to remain plumb.

See **Standard Plans J-28.24** and **J-28.26** for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Backfill with controlled-density fill or compacted borrow in accordance with **Standard Specification Section 8-20.3(2).**

Construct the embankment widening (if required).

CONSTRUCTION METHODS

NOTE

These foundation Construction Methods are applicable to all Steel Light Standard Placement Cases. See **Standard Plans J-28.22, J-28.24,** and **J-28.26.**

Jun 18, 2024

STEEL LIGHT STANDARD FOUNDATION TYPES A & B

STANDARD PLAN J-28.30-04

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

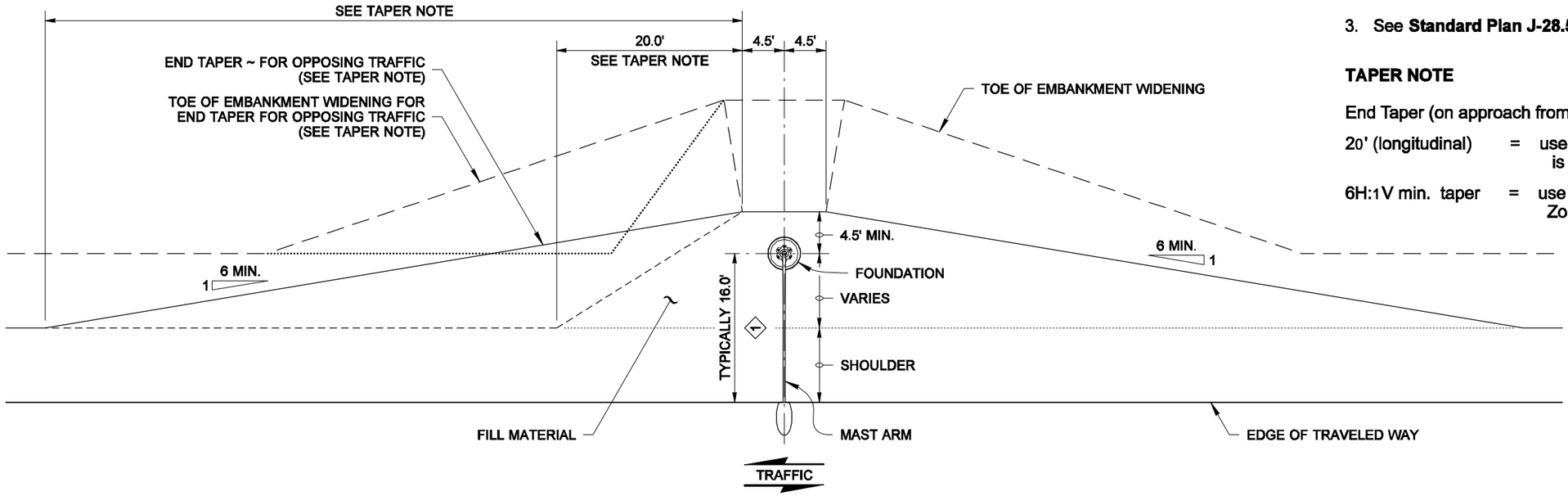
Mark A Dawes Jun 18, 2024

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: LISA CYFORD

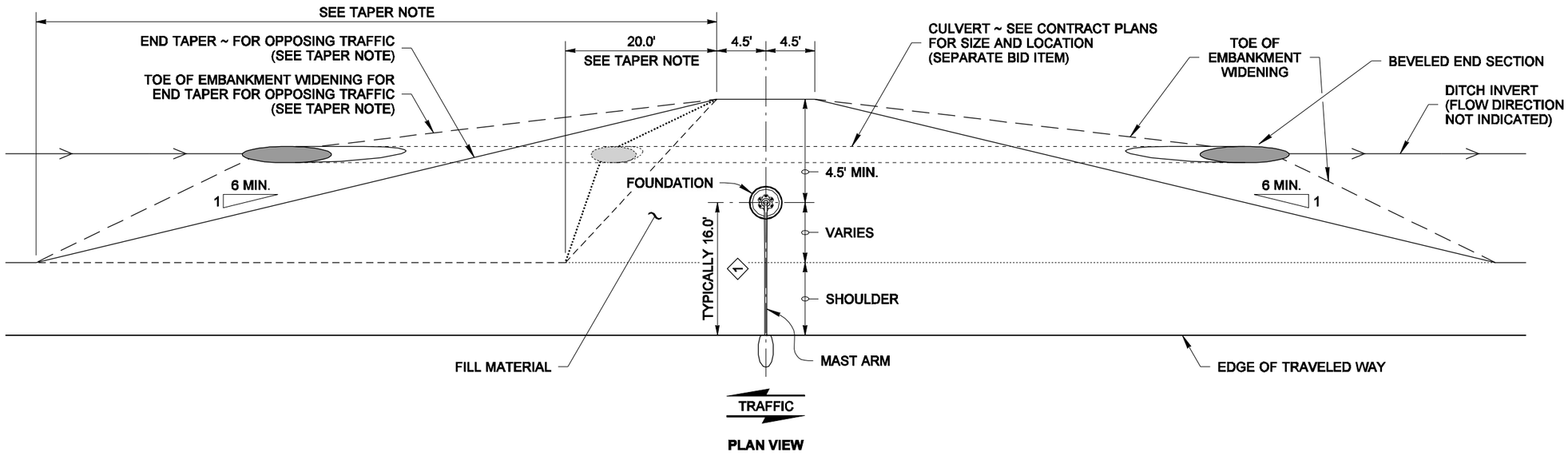
DRAWN BY: BILL BERENS



PLAN VIEW

CASES A & B

EMBANKMENTS



PLAN VIEW

CASE C

DITCH SECTIONS

NOTES

1. The Steel Light Standard Placement depicted on this plan is only intended for installations where roadside conditions allow its usage. Roadside conditions may require a special design by the Bridge Office, as determined by the Project Engineer.
2. See **Standard Plan J-28.30** for foundation details and construction methods.
3. See **Standard Plan J-28.50** for pole base and hand hole details.

TAPER NOTE

End Taper (on approach from opposing traffic):

20' (longitudinal) = use on one-way roadways or where the Light Standard is not in the Design Clear Zone of the opposing traffic.

6H:1V min. taper = use when the Light Standard is in the Design Clear Zone of the opposing traffic.

1 BASED ON FIELD CONDITIONS, STEEL LIGHT STANDARD PLACEMENT CAN BE ADJUSTED ± 4.0', WHEN APPROVED BY THE PROJECT ENGINEER.

THEODORE J. TREPANIER
STATE OF WASHINGTON
25335
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES AUGUST 9, 2007

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

STEEL LIGHT STANDARD PLACEMENT (SLIP BASE)

STANDARD PLAN J-28.22-00

SHEET 1 OF 2 SHEETS

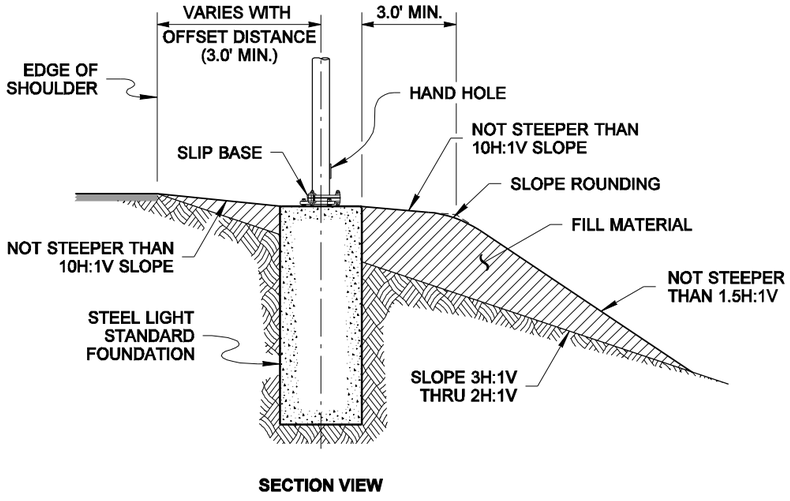
APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

08-07-07 — DATE

Washington State Department of Transportation

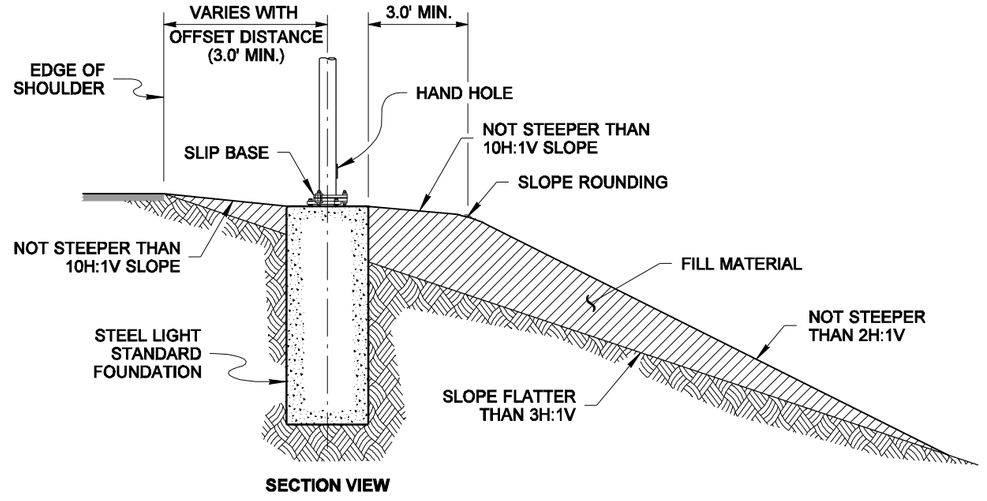
DRAWN BY: BILL BERENS



SECTION VIEW

CASE A

SLOPES 3H:1V THRU 2H:1V (MAX.)

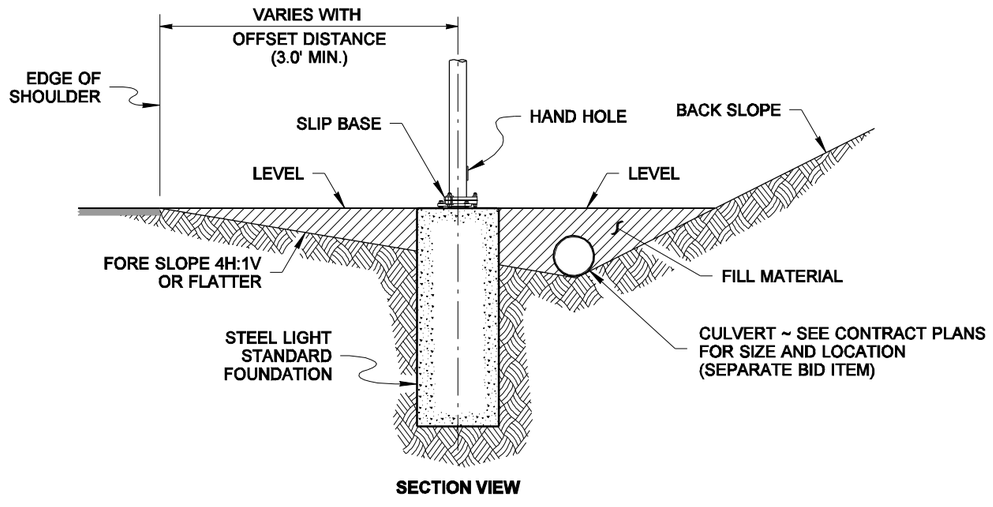


SECTION VIEW

CASE B

SLOPES FLATTER THAN 3H:1V

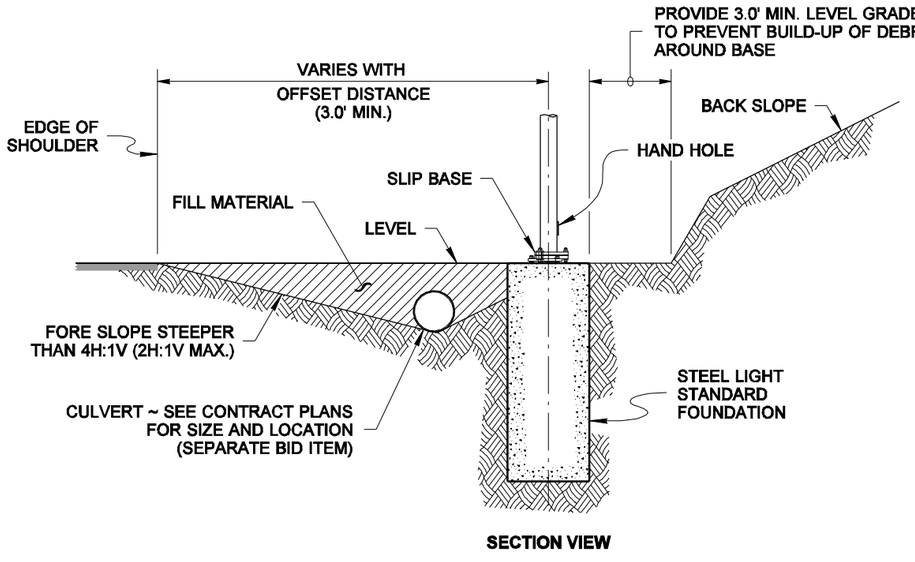
EMBANKMENTS



SECTION VIEW

CASE C

FORE SLOPES 4H:1V OR FLATTER



SECTION VIEW

CASE D

FORE SLOPES STEEPER THAN 4H:1V (2H:1V MAX.)

DITCH SECTIONS

THEODORE J. TREPANIER
STATE OF WASHINGTON
25335
REGISTERED
PROFESSIONAL ENGINEER

EXPIRES AUGUST 9, 2007

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

STEEL LIGHT STANDARD PLACEMENT (SLIP BASE)

STANDARD PLAN J-28.22-00

SHEET 2 OF 2 SHEETS

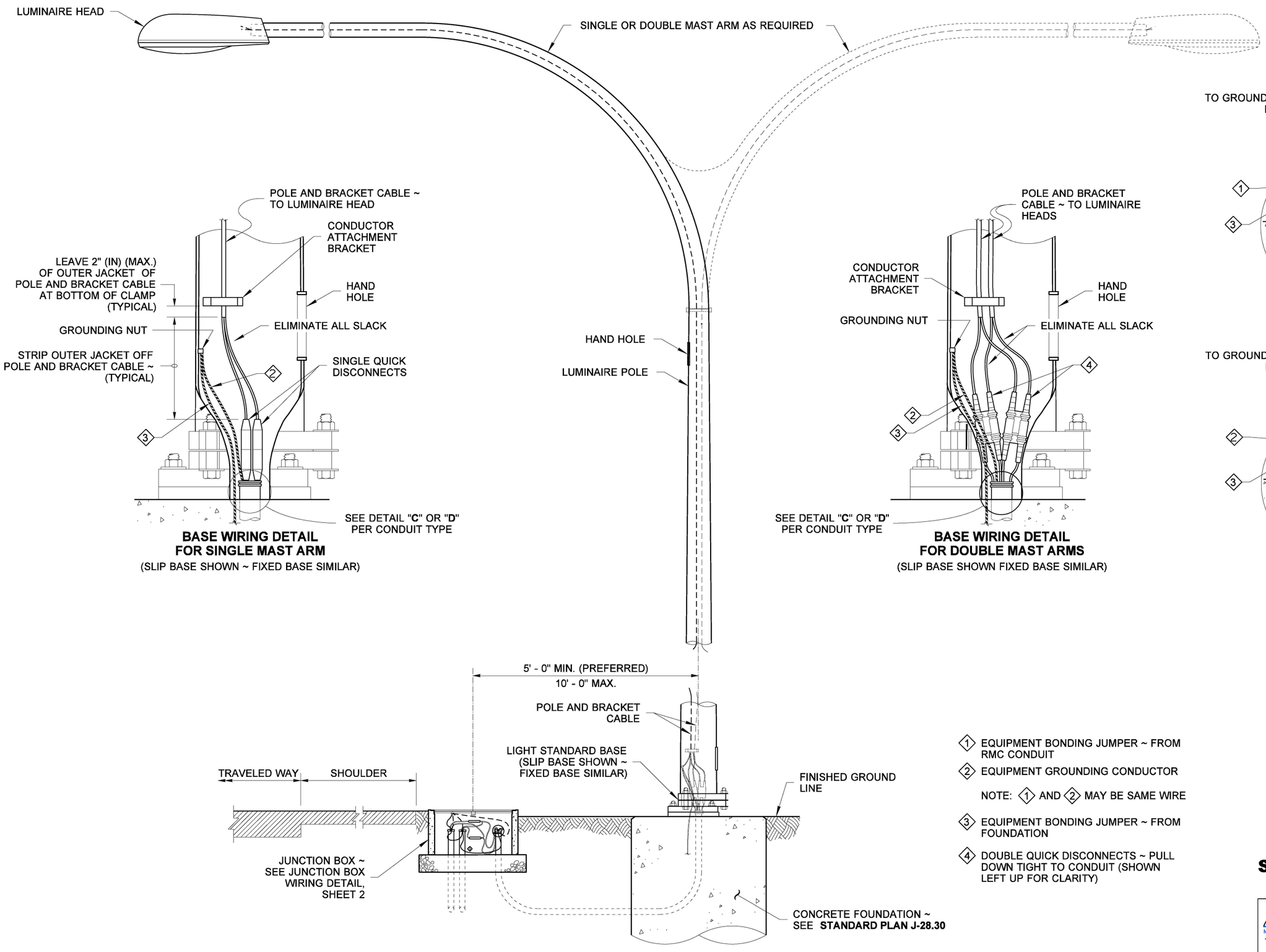
APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

08-07-07 — DATE

Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



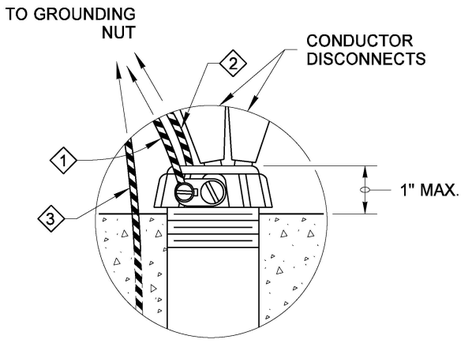
TYPICAL LOCATION OF JUNCTION BOX AND FOUNDATION

BASE WIRING DETAIL FOR SINGLE MAST ARM

(SLIP BASE SHOWN ~ FIXED BASE SIMILAR)

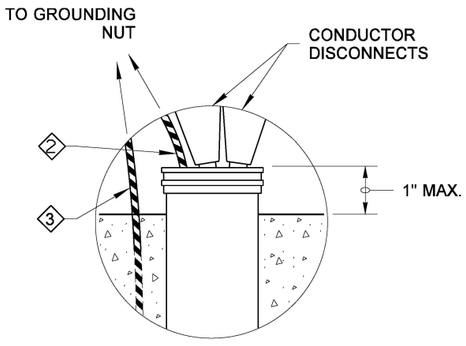
BASE WIRING DETAIL FOR DOUBLE MAST ARMS

(SLIP BASE SHOWN FIXED BASE SIMILAR)



DETAIL "C"

RMC CONDUIT



DETAIL "D"

PVC CONDUIT

1. EQUIPMENT BONDING JUMPER ~ FROM RMC CONDUIT
2. EQUIPMENT GROUNDING CONDUCTOR

   NOTE: 1 AND 2 MAY BE SAME WIRE
3. EQUIPMENT BONDING JUMPER ~ FROM FOUNDATION
4. DOUBLE QUICK DISCONNECTS ~ PULL DOWN TIGHT TO CONDUIT (SHOWN LEFT UP FOR CLARITY)

WILLIAM FLINT JACKSON
STATE OF WASHINGTON
48821
REGISTERED
PROFESSIONAL ENGINEER

Aug 30, 2022

STEEL LIGHT STANDARD WIRING DETAILS

STANDARD PLAN J-28.70-04

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

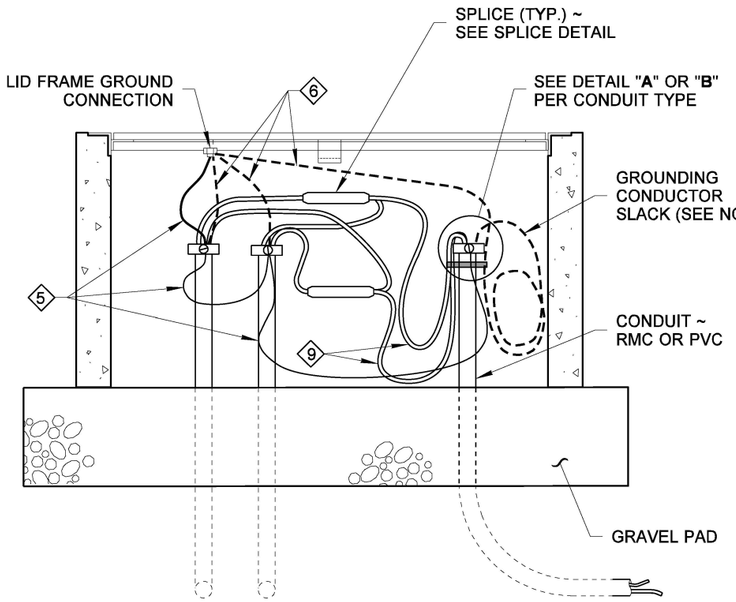
Mark Gaines
Mark Gaines (Aug 30, 2022 11:22 PDT)

Aug 30, 2022

STATE DESIGN ENGINEER

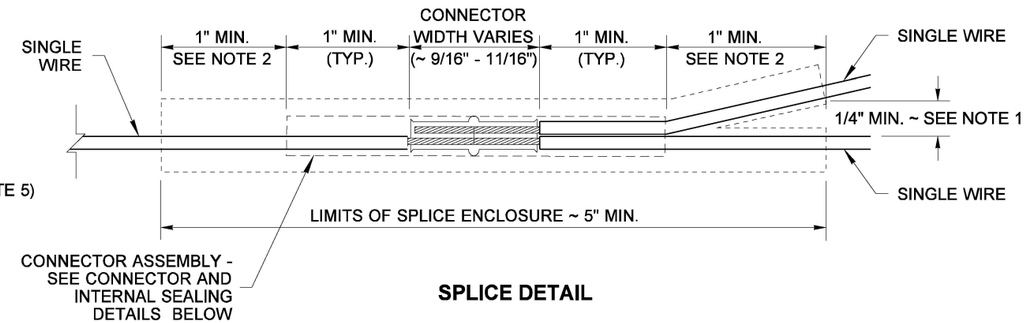
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



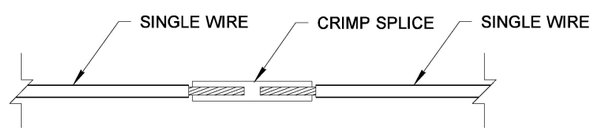
JUNCTION BOX WIRING DETAIL

FOR GROUNDING REQUIREMENTS, SEE **STANDARD PLAN J-60.05**

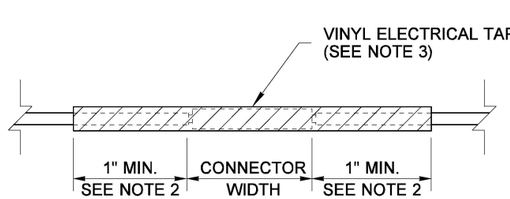


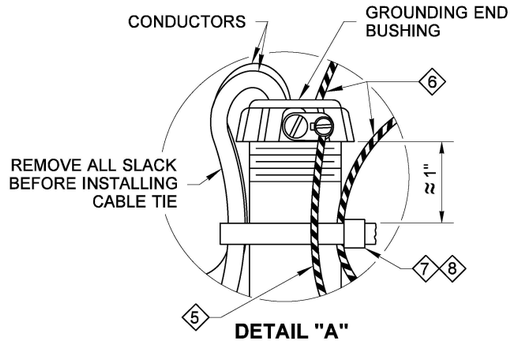
SPLICE DETAIL

STEP 1 - CRIMP CONNECTION



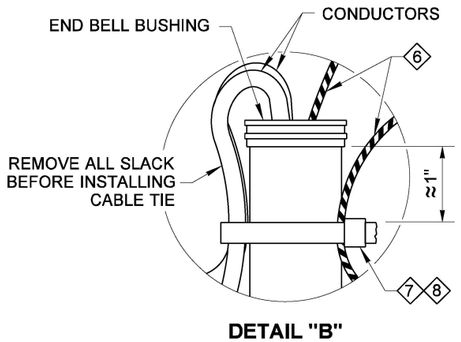
STEP 2 - WRAP CONNECTION





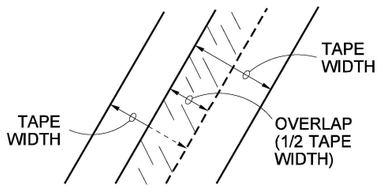
DETAIL "A"

RMC CONDUIT



DETAIL "B"

PVC CONDUIT



TAPE OVERLAP DIAGRAM

WHEN USING WRAPPED VINYL ELECTRICAL TAPE:

- INSTALL TWO LAYERS OF SPIRAL WRAPPED TAPE.
- EACH SPIRAL LAYER SHALL HAVE AN OVERLAP OF 1/2 OF THE TAPE WIDTH (SEE DIAGRAM ABOVE).

CONNECTOR AND INTERNAL SEALING DETAILS

5 EQUIPMENT BONDING JUMPER ~ FROM RMC CONDUIT

NOTE: 5 AND 6 MAY BE SAME WIRE

6 EQUIPMENT GROUNDING CONDUCTOR

7 CABLE TIE ~ 120 POUND TENSILE STRENGTH, BLACK

8 APPLICATION FOR FIXED BASE SIMILAR, EXCEPT NO CABLE TIE IS REQUIRED AT JUNCTION BOX

9 24" (IN) MIN. SLACK REQUIRED TO ALLOW QUICK DISCONNECTS TO BE PULLED OUTSIDE HAND HOLE 6" (IN) MIN.

NOTES

1. Each wire shall be physically separated by at least 1/4" (in) so that sealing material can fill in between the wires; where heat shrink tubing is used for the outer splice enclosure, it shall meet one of the following requirements:

   a. Have separate ports for each conductor ("WYE" or "X" shaped tubing). ~ or ~

   b. Have rubber electrical mastic tape wrapped around each conductor to ensure a weather-proof seal. See Rubber Electrical Mastic Tape Installation Detail, **Standard Plan J-50.05**.

2. Where heat shrink tubing is used, it shall extend a minimum of one inch onto the original wire insulation for each wire in the splice. Rigid splice enclosures shall be centered over the crimped connection.

3. Electrical tape used in splicing applications shall be 3/4" (in) wide, be UL listed under UL 510, and be CSA Certified under C22.2 NO. 197-M1983.

4. Crimp splices shall be installed with an approved crimping tool for the type and size of crimp splice used. Pliers and similar multi-purpose tools may not be used.

5. The equipment grounding conductor connected to the light standard shall include 18 inches of slack on the pole side of the cable tie.

Aug 30, 2022

STEEL LIGHT STANDARD WIRING DETAILS

STANDARD PLAN J-28.70-04

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

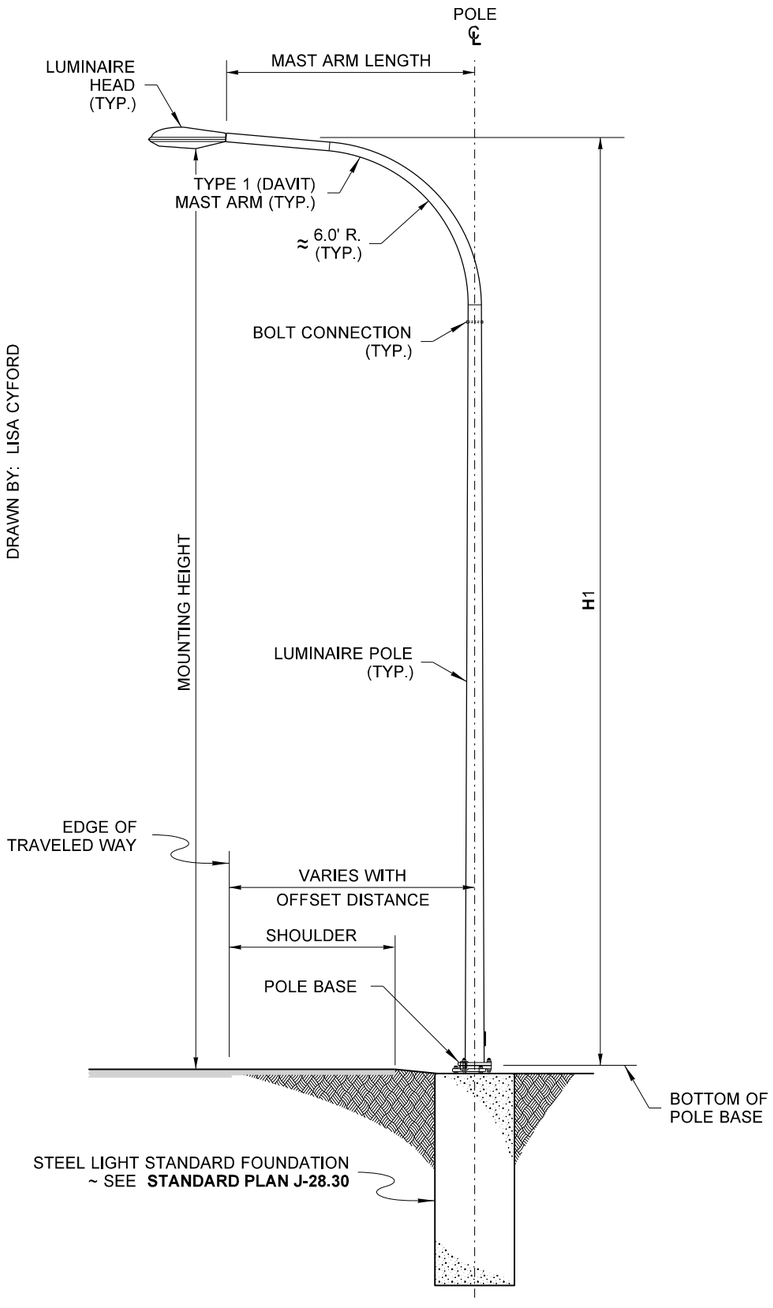
Mark Gaines
Mark Gaines (Aug 30, 2022 11:22 PDT)

Aug 30, 2022

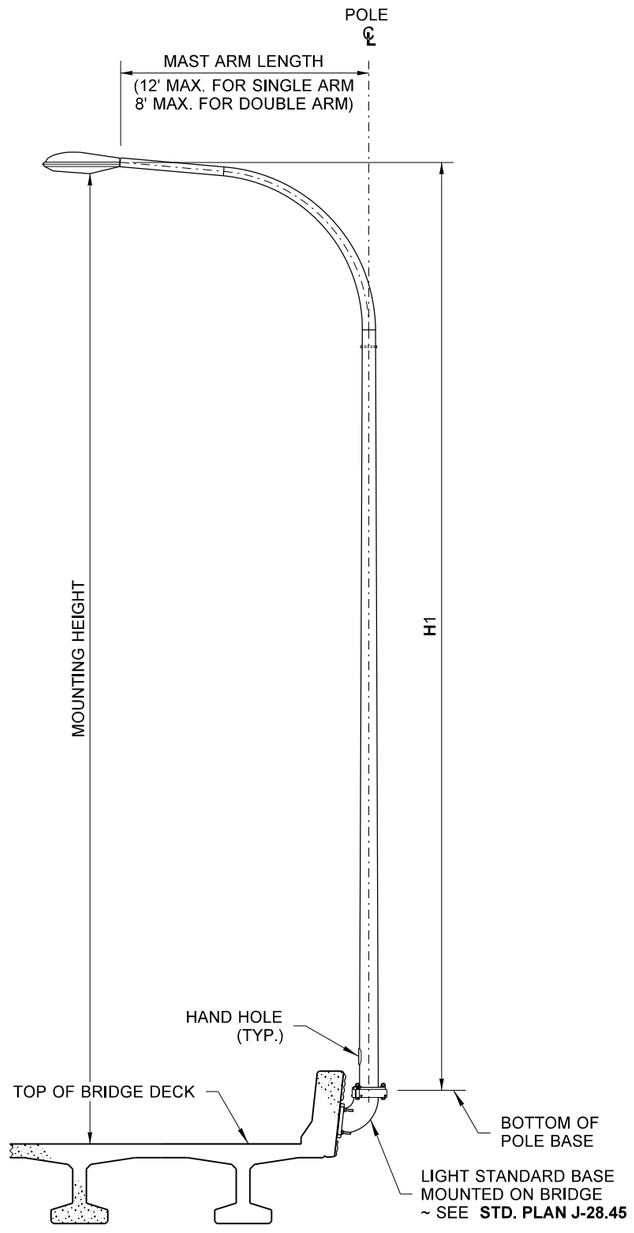
STATE DESIGN ENGINEER

Washington State Department of Transportation

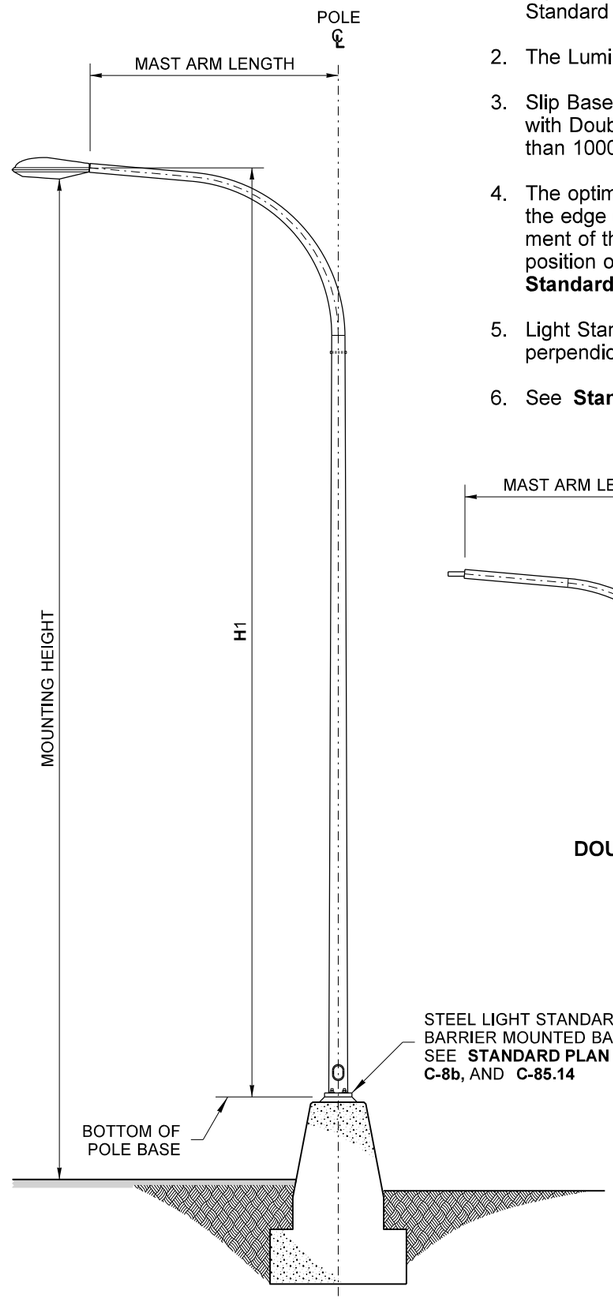
DRAWN BY: LISA CYFORD



STANDARD GROUND MOUNT
(SLIP BASE SHOWN)



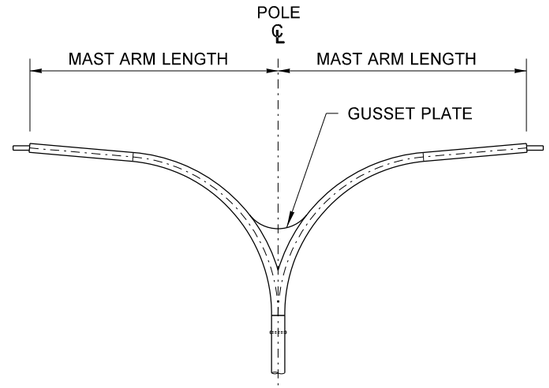
BARRIER ELBOW MOUNT
(BRIDGE BARRIER SHOWN)



TOP OF BARRIER MOUNT

NOTES

1. This plan depicts the Steel Light Standard types and terms commonly referred to in the Contract. All Steel Light Standards are fabricated in accordance with the Standard Specifications and the Contract Provisions.
2. The Luminaire Pole height shall not exceed 50' (ft)(H1).
3. Slip Bases shall not be installed on 50' (ft)(H1) poles with Double Mast Arms, nor on poles weighing more than 1000 lbs.
4. The optimal location of the Luminaire head is over the edge of the traveled way. Based on the placement of the Steel Light Standard foundation, the position of the Luminaire head may vary. See **Standard Plan J-28.22**.
5. Light Standard mast arm orientation is typically perpendicular to roadway centerline.
6. See **Standard Plan J-28.50** for Hand Hole details.



DOUBLE TYPE 1 MAST ARM

WILLIAM FLINT JACKSON
STATE OF WASHINGTON
48821
REGISTERED
PROFESSIONAL ENGINEER

STEEL LIGHT STANDARD

STANDARD PLAN J-28.10-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

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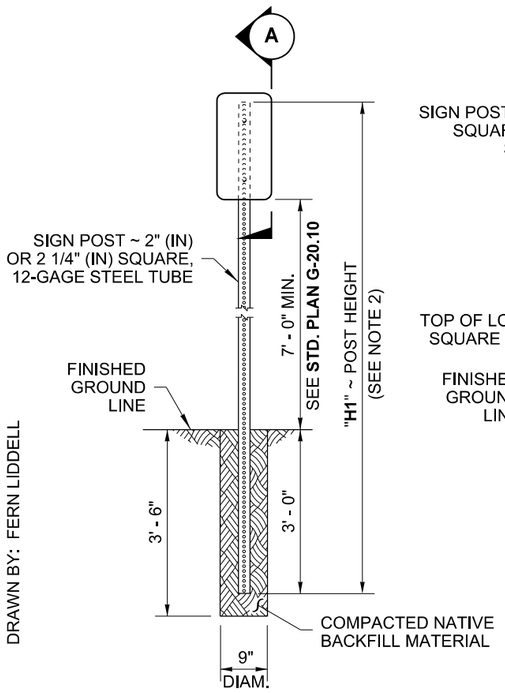
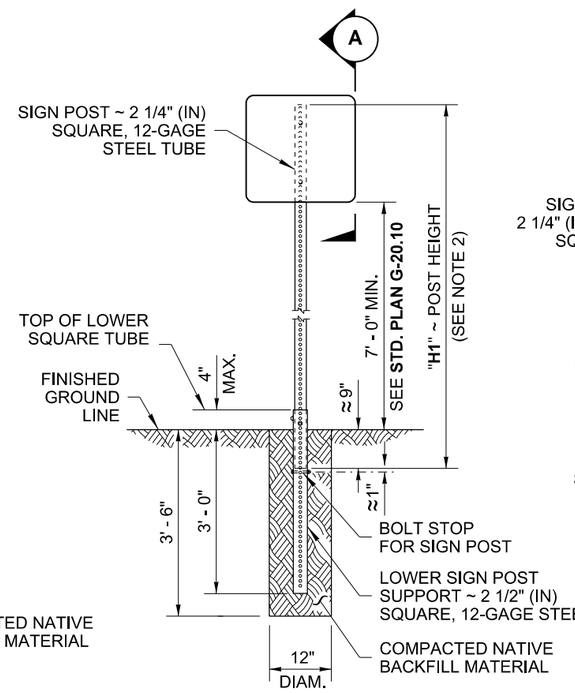


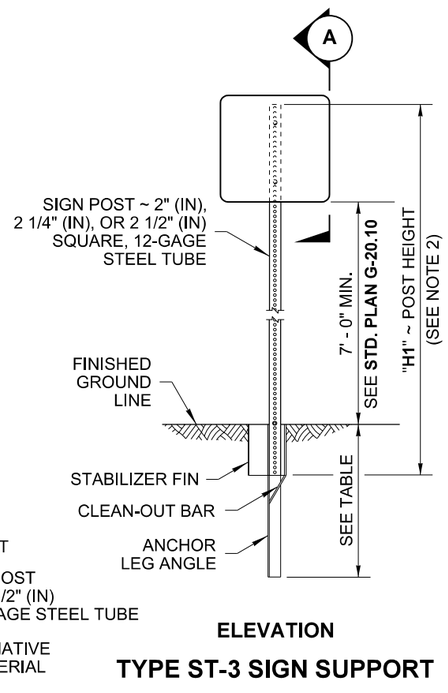
ELEVATION

TYPE ST-1 SIGN SUPPORT



ELEVATION

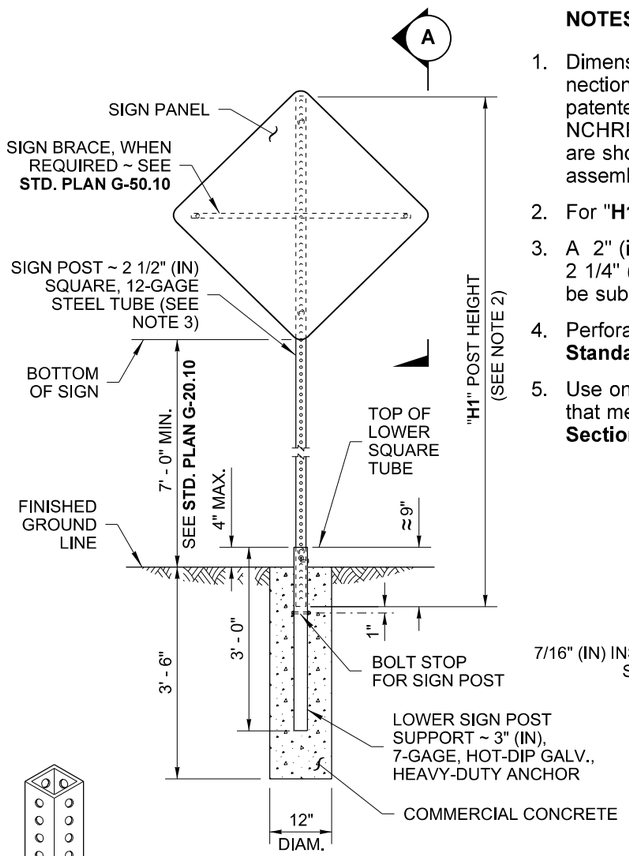
TYPE ST-2 SIGN SUPPORT



ELEVATION

TYPE ST-3 SIGN SUPPORT

BURIED DEPTH	POST SIZE
2' - 6"	2", 2 1/4"
3' - 0"	2 1/2"

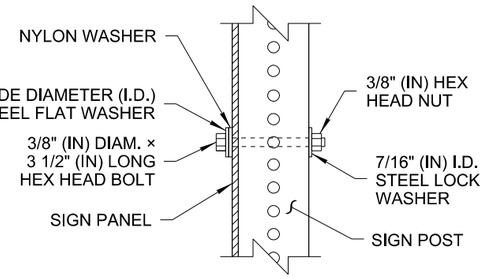


ELEVATION

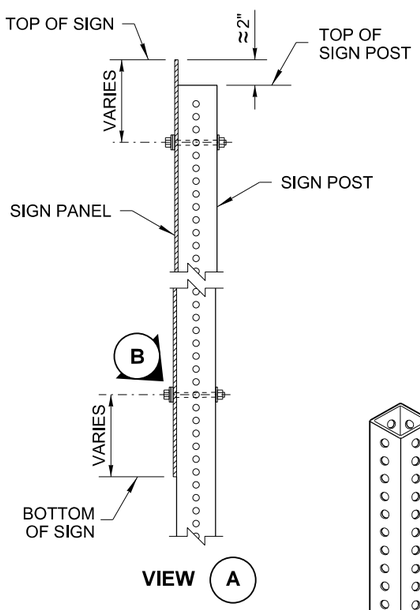
TYPE ST-4 SIGN SUPPORT

NOTES

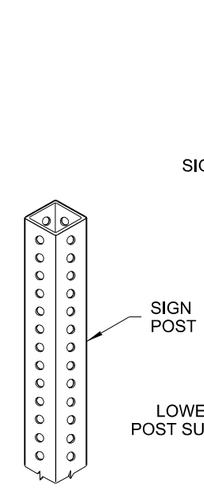
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. For "**H1**", refer to the Sign Specification Sheet in the Contract.
3. A 2" (in) post with a 2 1/4" (in) PSST anchor or a 2 1/4" (in) post with a 2 1/2" (in) PSST anchor may be substituted. See Contract Plans.
4. Perforated square steel post shall meet the requirements of **Standard Specification, Section 9-06**.
5. Use only base connection manufacturer supplied hardware that meets the requirements of **Standard Specification**, **Sections 9-06** and **9-28**.



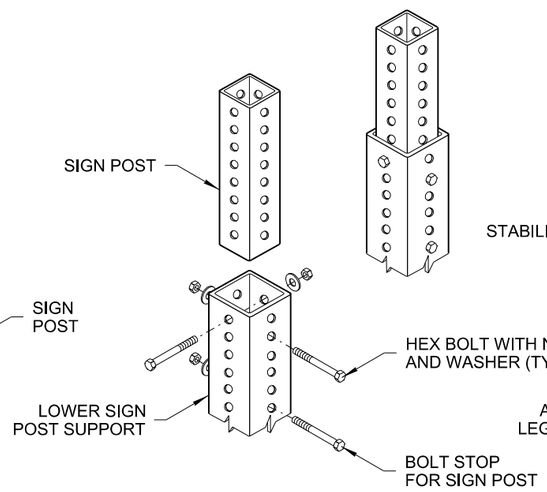
DETAIL B



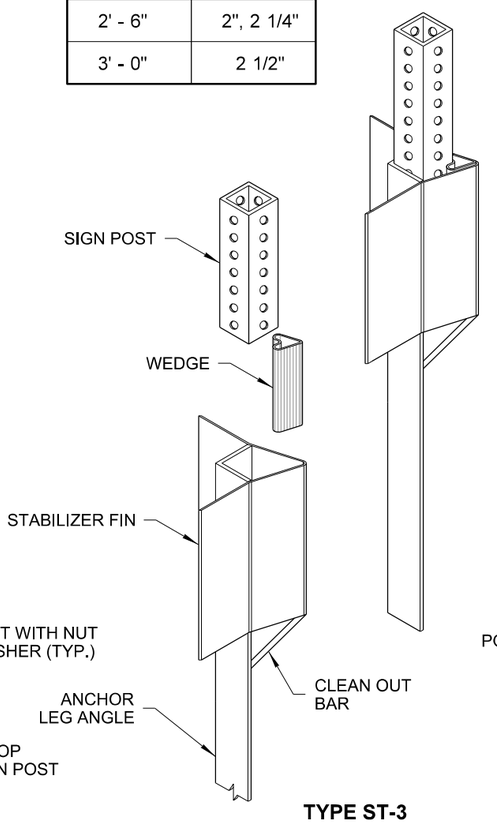
VIEW A



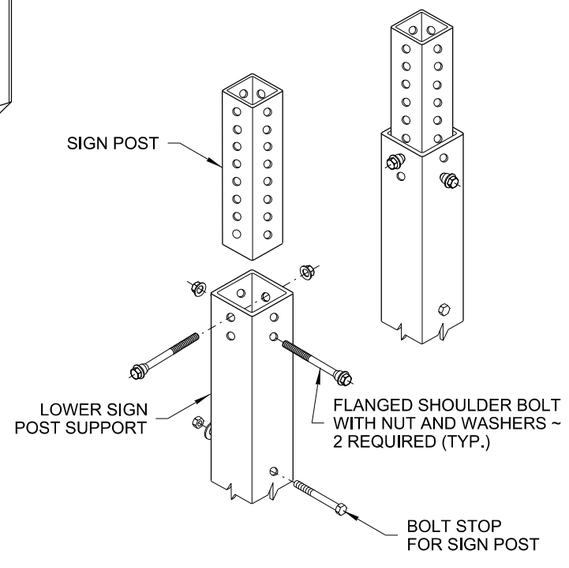
TYPE ST-1



TYPE ST-2



TYPE ST-3



TYPE ST-4

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

STEEL SIGN SUPPORT TYPES ST-1 - ST-4 INSTALLATION DETAILS STANDARD PLAN G-24.50-05

SHEET 1 OF 1 SHEET

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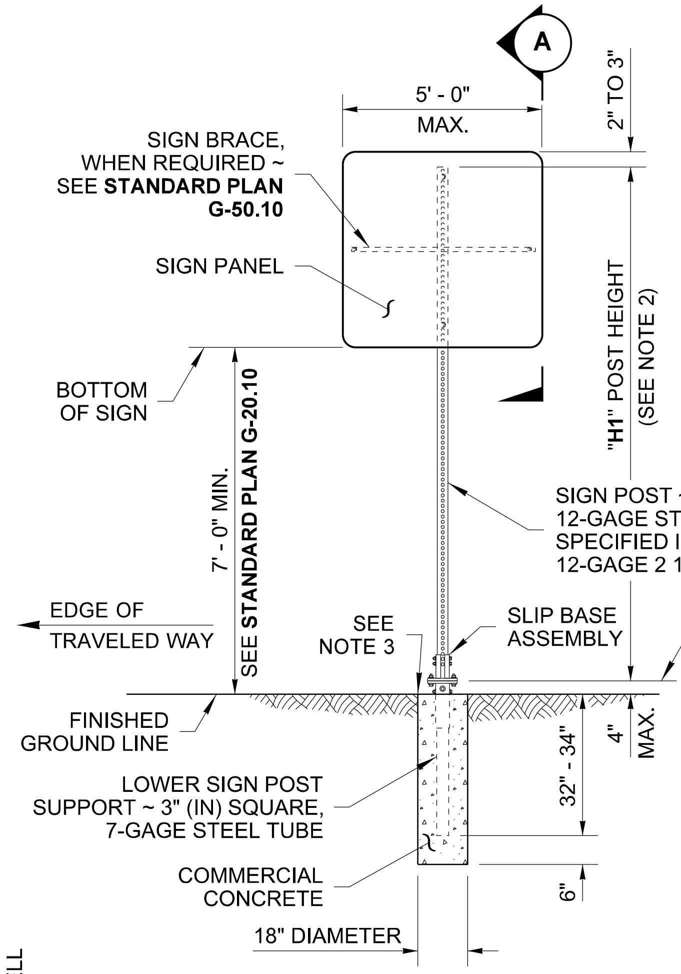
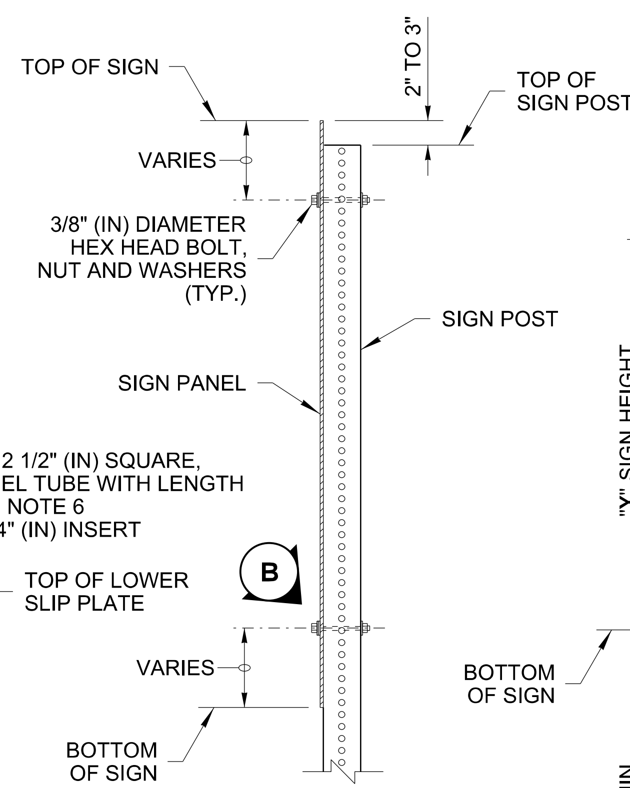
STATE DESIGN ENGINEER

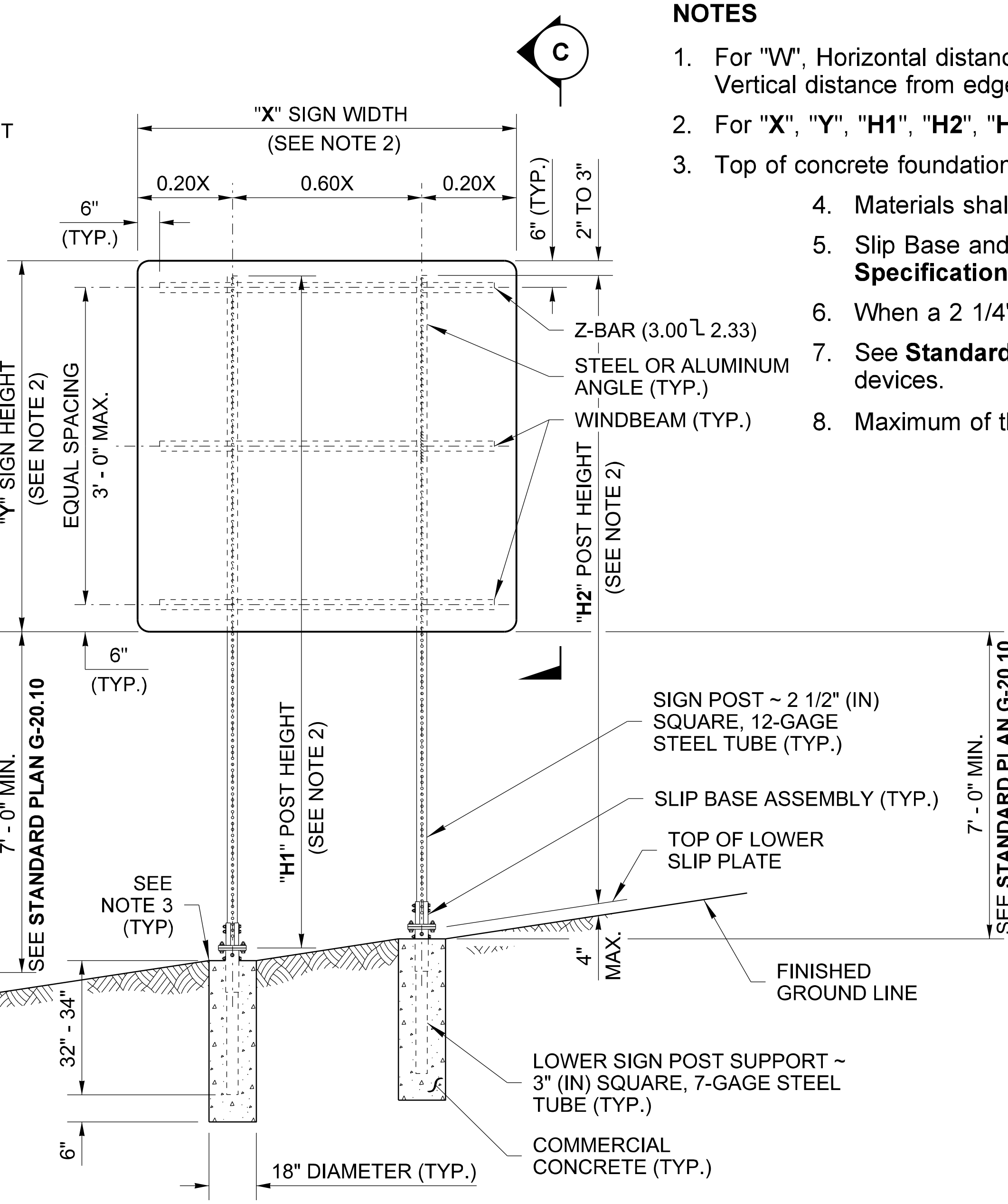
Washington State Department of Transportation



ELEVATION



VIEW A

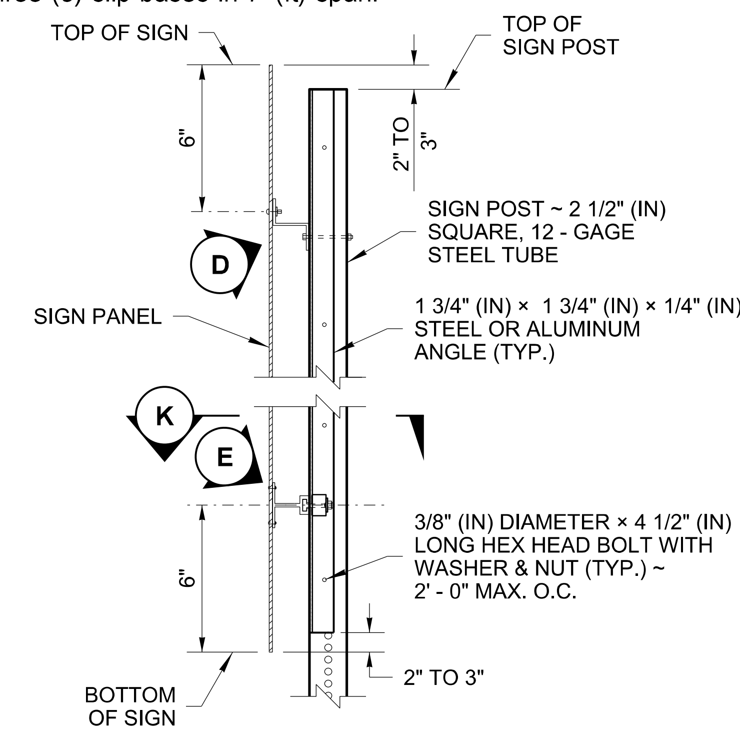


ELEVATION

DUAL-POST INSTALLATION

NOTES

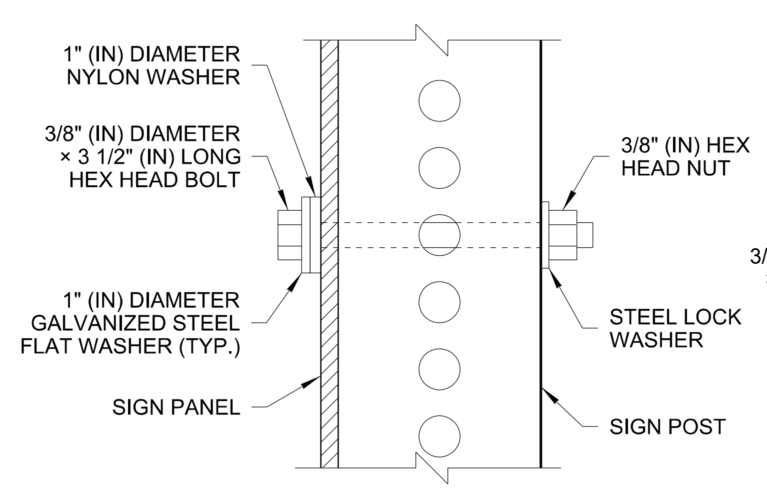
1. For "W", Horizontal distance from edge of traveled way to center of nearest post, and "V", Vertical distance from edge of traveled way to bottom of sign, see **Standard Plan G-20.10**.
2. For "X", "Y", "H1", "H2", "H3", and "H4", refer to the Sign Specification Sheet in the Contract.
3. Top of concrete foundations shall be smooth, dense and uniform to finished groundline.
4. Materials shall meet the requirements of **Standard Specification Section 9-28**.
5. Slip Base and all other materials shall meet the requirements of **Standard Specification Section 9-06**.
6. When a 2 1/4" (in) insert is used, the insert shall be a minimum of 7 feet.
7. See **Standard Plan J-40.35** and Contract Plans for installations with electrical devices.
8. Maximum of three (3) slip bases in 7' (ft) span.



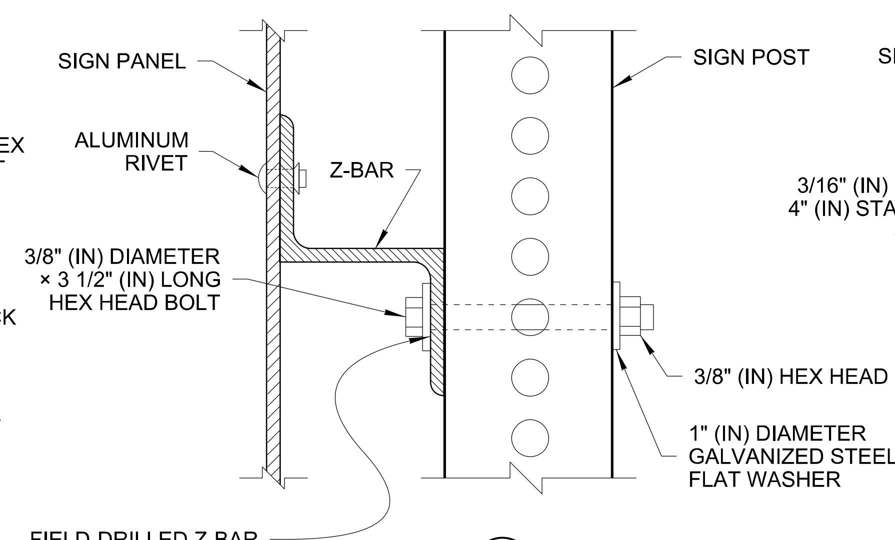
VIEW C

WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH				
POSTS		MAXIMUM XYZ		
		1-POST	2-POST	3-POST
2 1/2" PSST	12-GAGE	172	344 *	516 *
2 1/2" PSST with 2 1/4" insert	12-GAGE	309 *	618 *	927 *
(SEE NOTE 6)				
* SLIP BASE REQUIRED (UNLESS BEHIND BARRIER)				

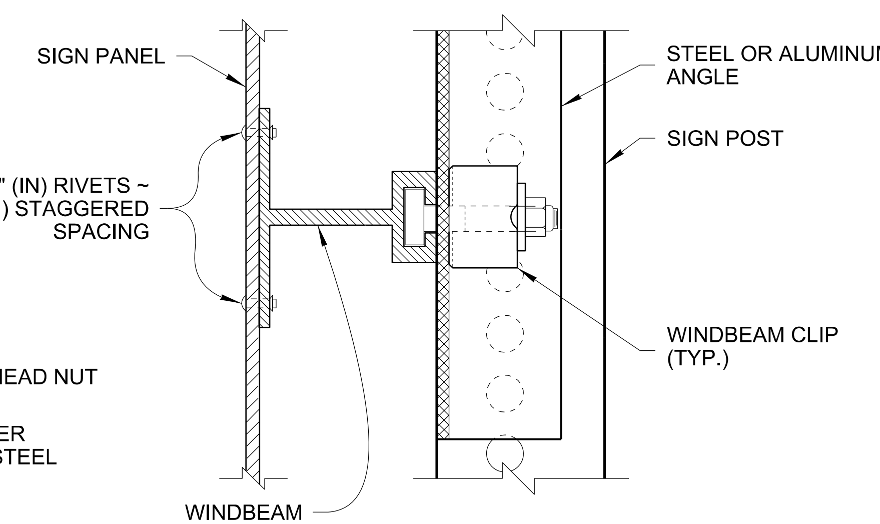
DRAWN BY: FERN LIDDELL



DETAIL B

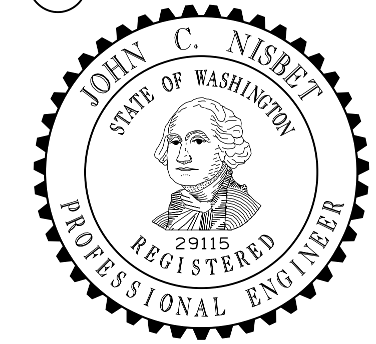


DETAIL D



DETAIL E

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 ~ 8" (IN)



STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-07

SHEET 1 OF 6 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

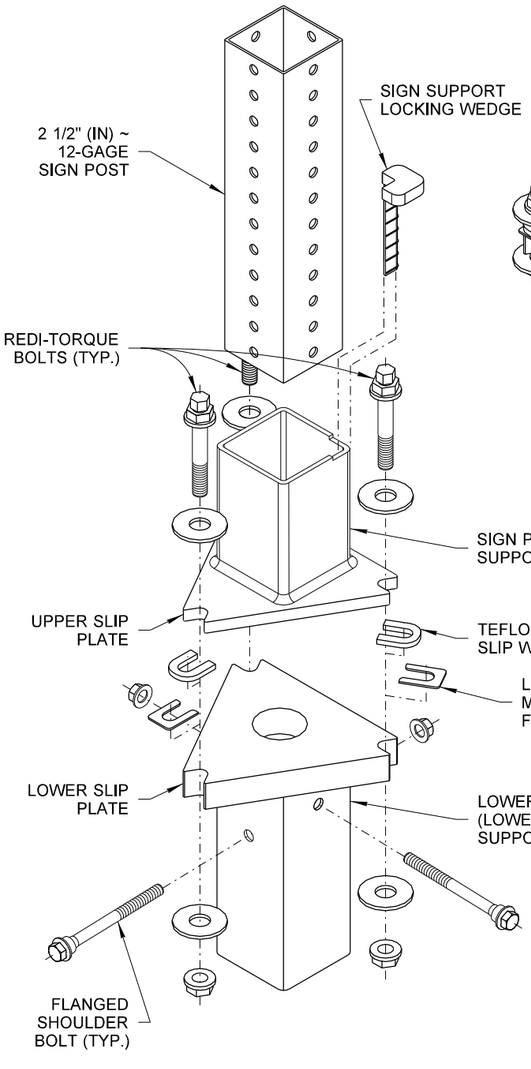
Washington State Department of Transportation

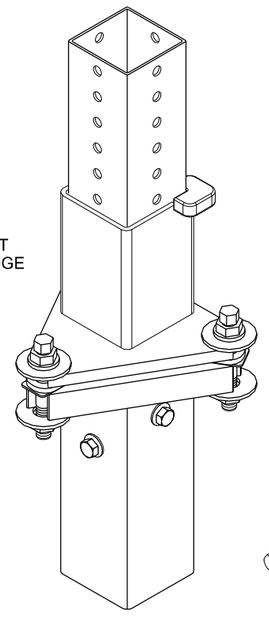
DRAWN BY: FERN LIDDELL

TRAFFIC FLOW

8" NOMINAL

SLIP PLATE DETAIL
FOR TYPE SB-1A





ISOMETRIC VIEW

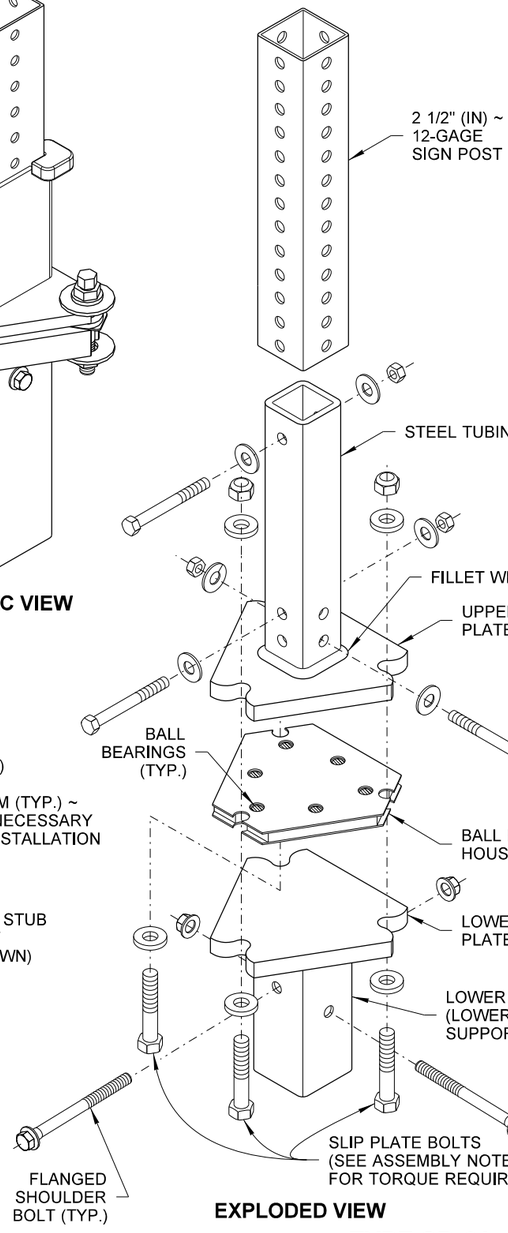
EXPLODED VIEW

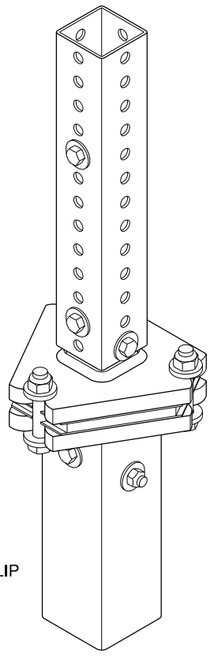
TYPE SB-1A
SLIP BASE ASSEMBLY

TRAFFIC FLOW

8" NOMINAL

SLIP PLATE DETAIL
FOR TYPE SB-2A





ISOMETRIC VIEW

EXPLODED VIEW

TYPE SB-2A
SLIP BASE ASSEMBLY

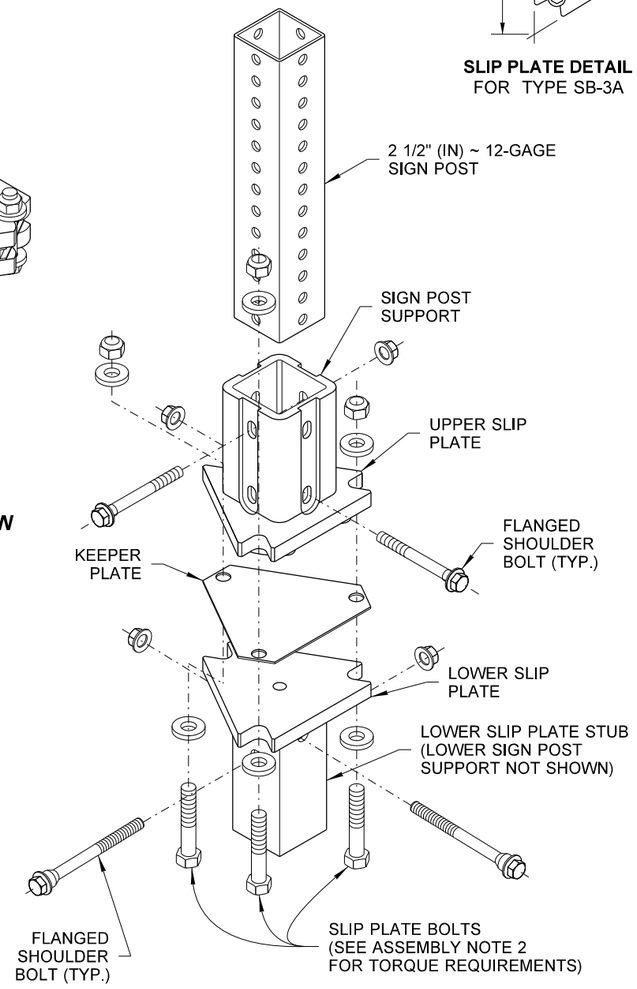
ASSEMBLY NOTES

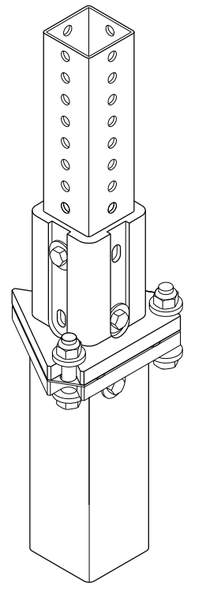
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Slip Base assembly and all other materails shall meet the requirements of **Standard Specification Sections 9-06** and **9-28**.

TRAFFIC FLOW

8" NOMINAL

SLIP PLATE DETAIL
FOR TYPE SB-3A





ISOMETRIC VIEW

EXPLODED VIEW

TYPE SB-3A
SLIP BASE ASSEMBLY

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-07

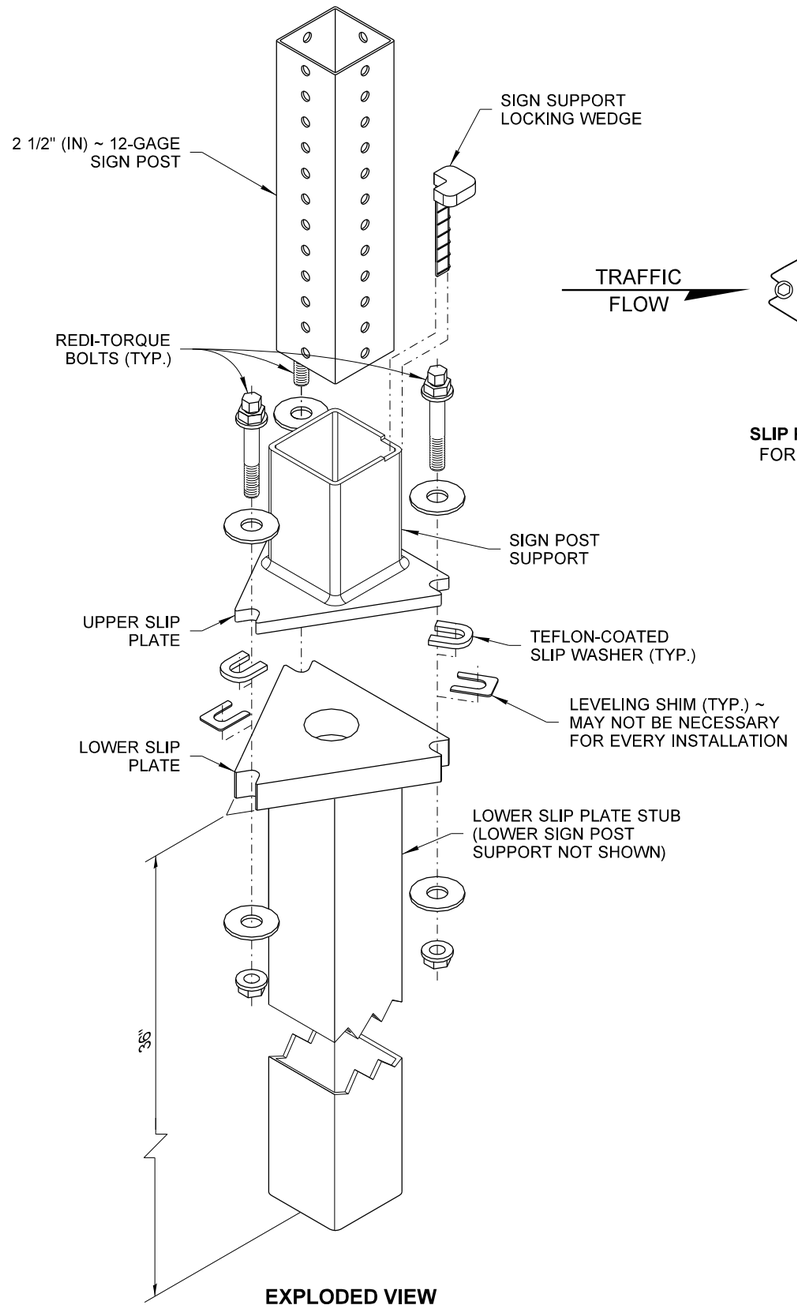
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

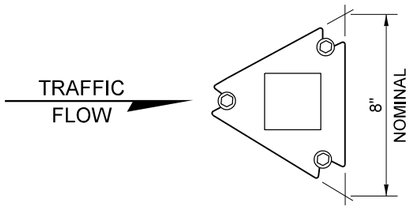
STEEL SIGN SUPPORT TYPES SB-1A, SB-2A & SB-3A ~ 8" (IN)

DRAWN BY: FERN LIDDELL

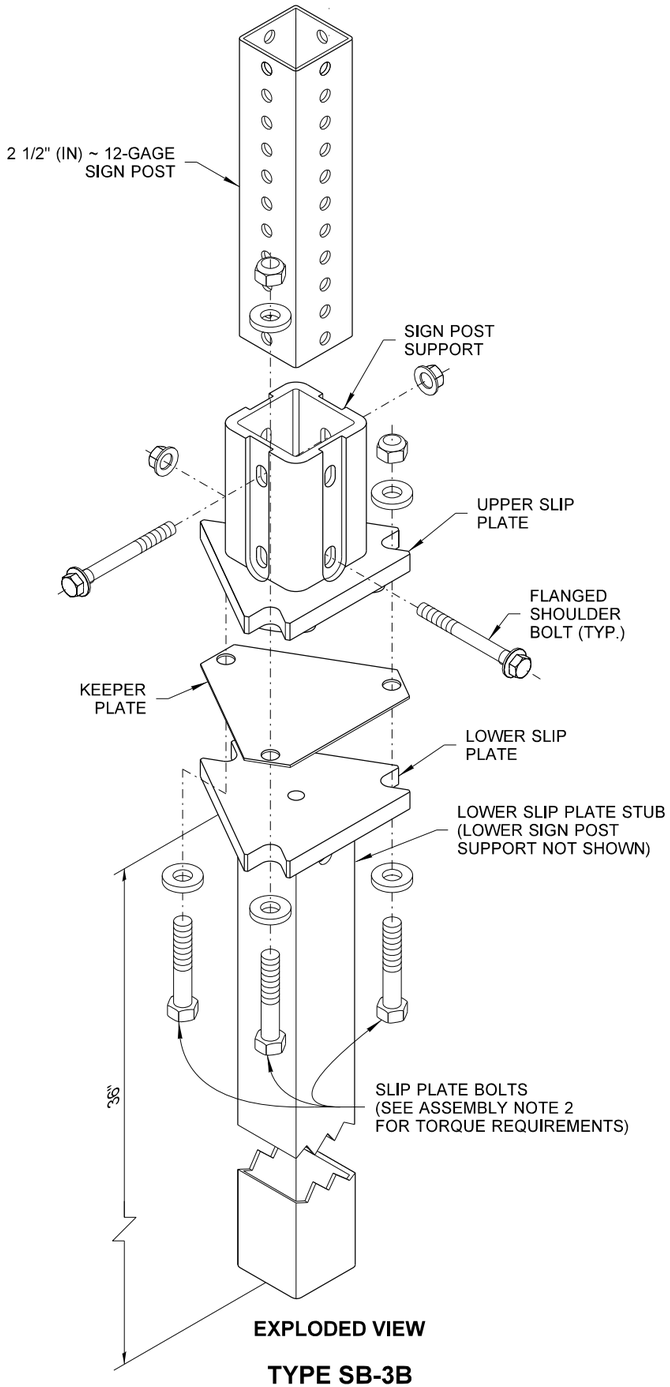


EXPLODED VIEW

TYPE SB-1B
SLIP BASE ASSEMBLY



SLIP PLATE DETAIL
FOR TYPE SB-1B

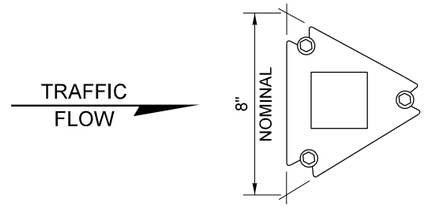


EXPLODED VIEW

TYPE SB-3B
SLIP BASE ASSEMBLY

ASSEMBLY NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Slip Base assembly and all other materails shall meet the requirements of **Standard Specification Sections 9-06** and **9-28**.



SLIP PLATE DETAIL
FOR TYPE SB-3B

STEEL SIGN SUPPORT TYPES SB-1B, & SB-3B ~ 8" (IN)
(UNIBASE)

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-07

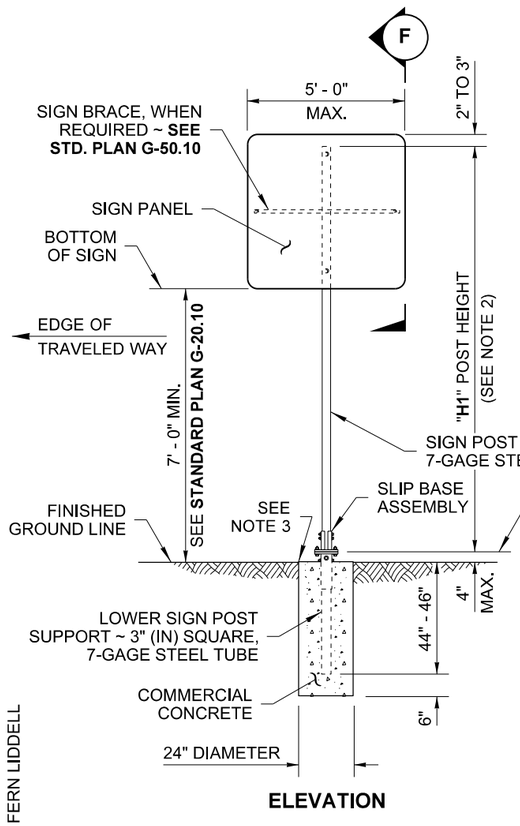
SHEET 3 OF 6 SHEETS

APPROVED FOR PUBLICATION

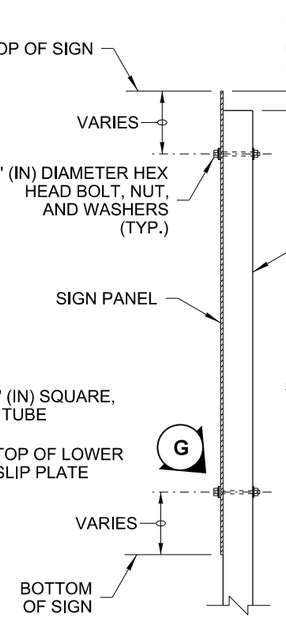
STATE DESIGN ENGINEER

Washington State Department of Transportation

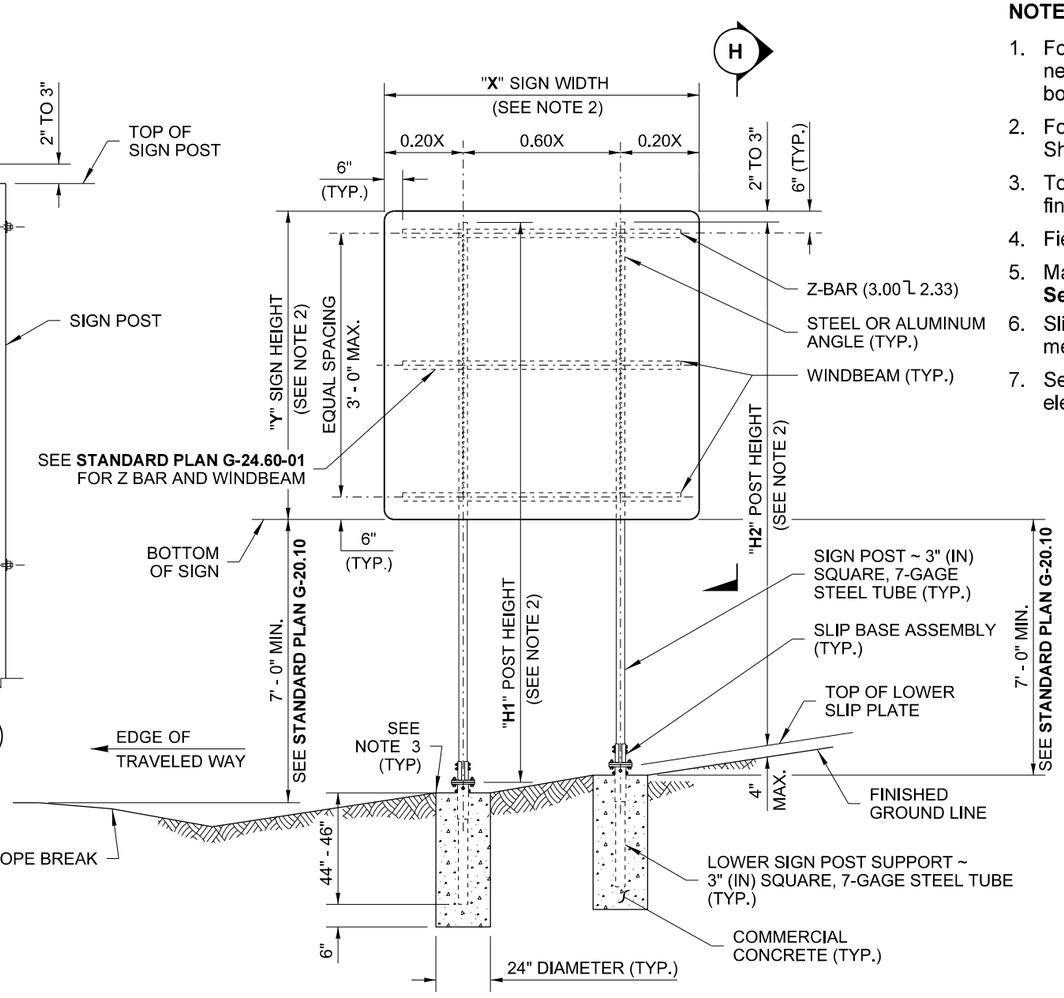
DRAWN BY: FERN LIDDELL



ELEVATION



VIEW F

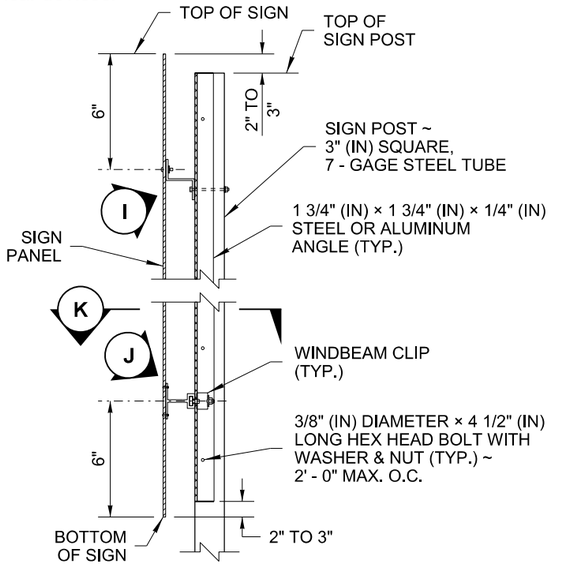


ELEVATION
DUAL-POST INSTALLATION

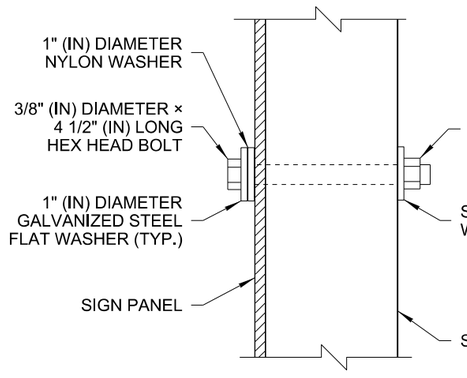
WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH				
POSTS		MAXIMUM XYZ		
		1-POST	2-POST	3-POST
* 3" SOLID POST	7-GAGE	**471**	**942**	**1413**
* SLIP BASE REQUIRED (UNLESS BEHIND BARRIER)				
(MAXIMUM 3 SLIP BASES ALLOWED IN 7' SPAN)				

NOTES

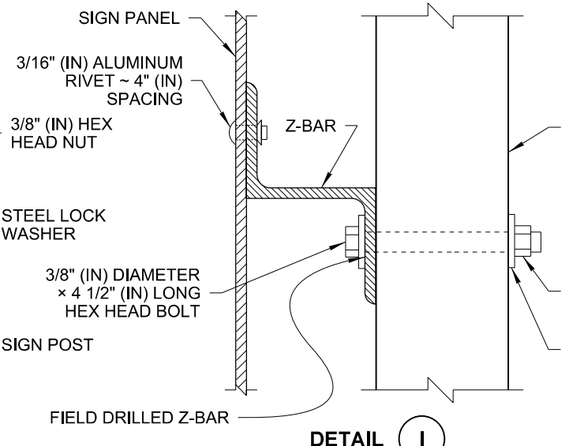
1. For "**W**", Horizontal distance from edge of traveled way to center of nearest post, and "**V**", Vertical distance from edge of traveled way to bottom of sign, see **Standard Plan G-20.10**.
2. For "**X**", "**Y**", "**H1**", "**H2**", "**H3**", and "**H4**", refer to the Sign Specification Sheet in the Contract.
3. Top of concrete foundation shall be smooth, dense, and uniform to finished ground line.
4. Field drill posts to accept angle and cold galvanized holes.
5. Materials shall meet the requirements of **Standard Specification Section 9-28**.
6. Slip Base assembly and all other materials shall meet the requirements of **Standard Specification Sections 9-06** and **9-28**.
7. See **Standard Plan J-40.35** and Contract Plans for installations with electrical devices.



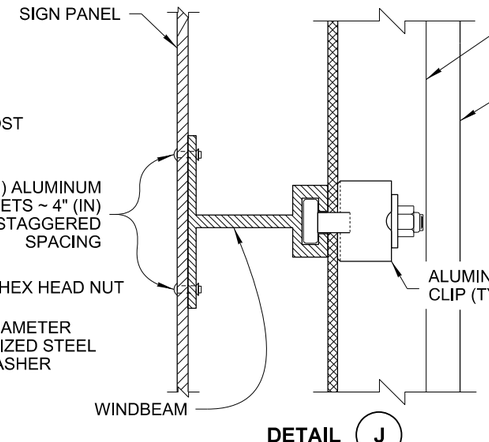
VIEW H



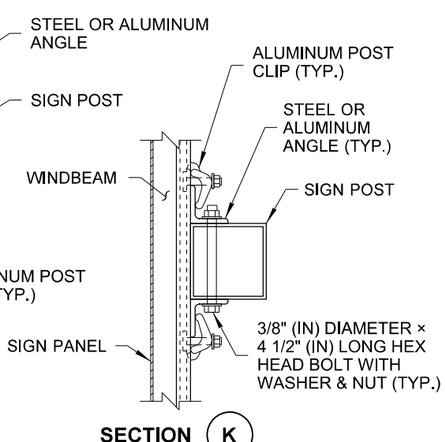
DETAIL G



DETAIL I



DETAIL J



SECTION K

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 ~ 10" (IN)

JOHN C. NISBET
STATE OF WASHINGTON
29115
REGISTERED
PROFESSIONAL ENGINEER

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-07

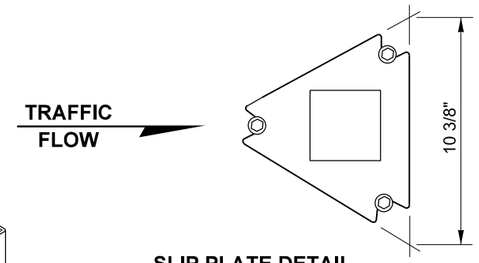
SHEET 4 OF 6 SHEETS

APPROVED FOR PUBLICATION

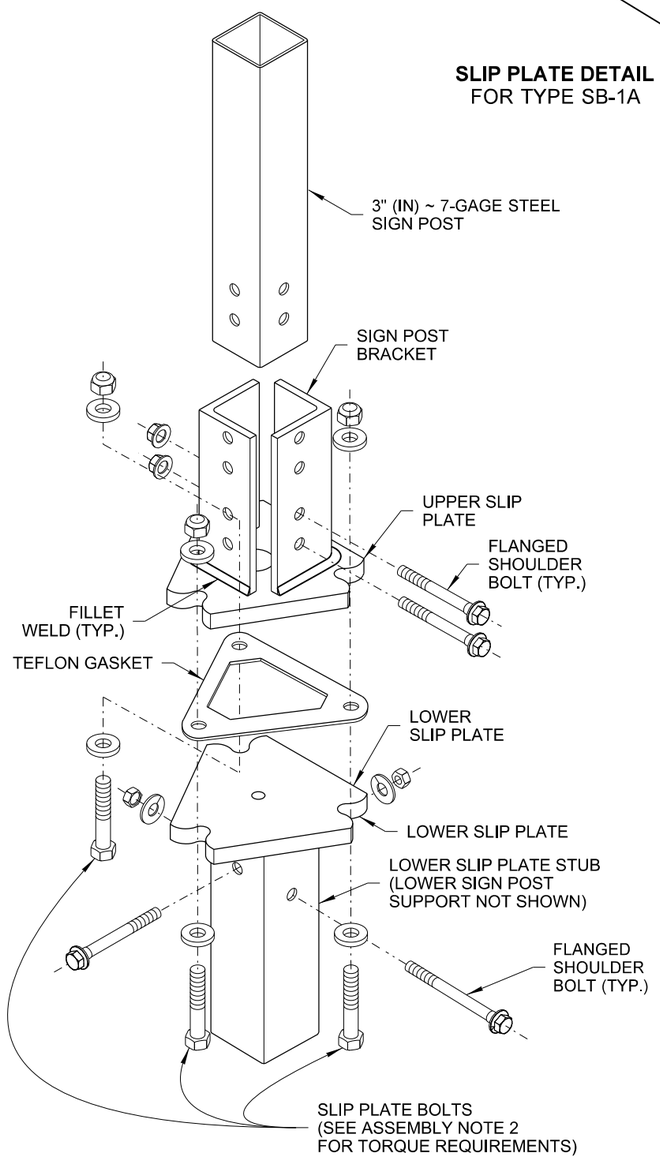
STATE DESIGN ENGINEER

Washington State Department of Transportation

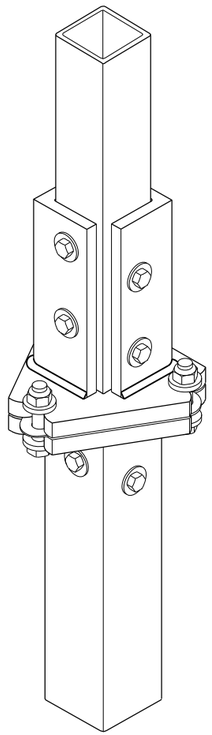
DRAWN BY: FERN LIDDELL



SLIP PLATE DETAIL
FOR TYPE SB-1A



EXPLODED VIEW

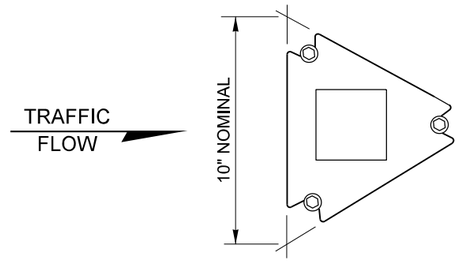


ISOMETRIC VIEW

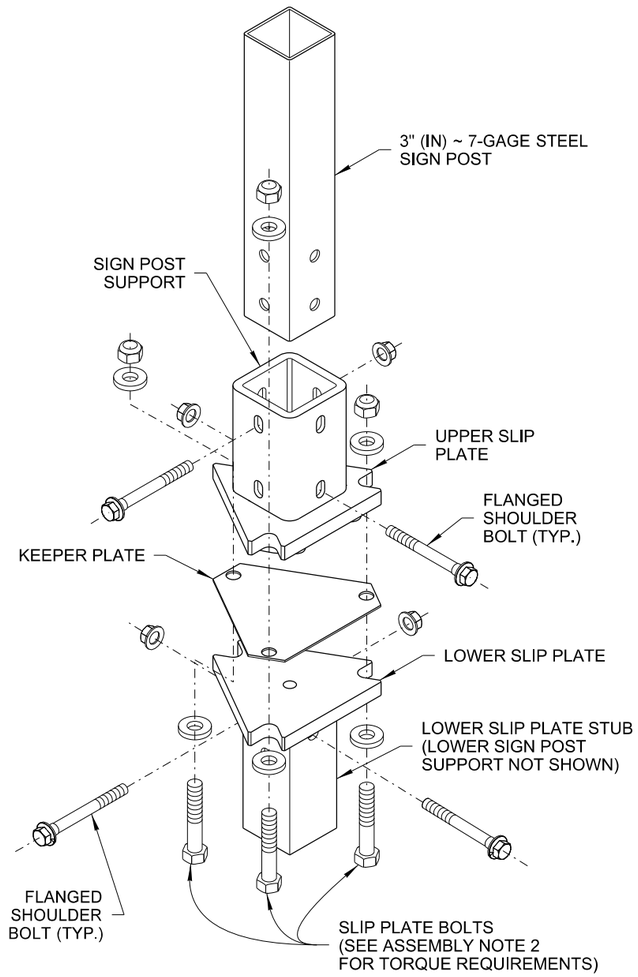
TYPE SB-1A
SLIP BASE ASSEMBLY

ASSEMBLY NOTES

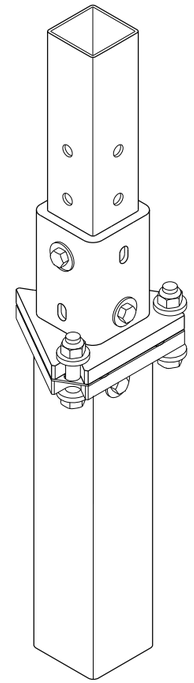
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Use only Slip Base manufacturer supplied hardware that meets the requirements of **Standard Specification Sections 9-06** and **9-28**.



SLIP PLATE DETAIL
FOR TYPE SB-3A



EXPLODED VIEW



ISOMETRIC VIEW

TYPE SB-3A
SLIP BASE ASSEMBLY

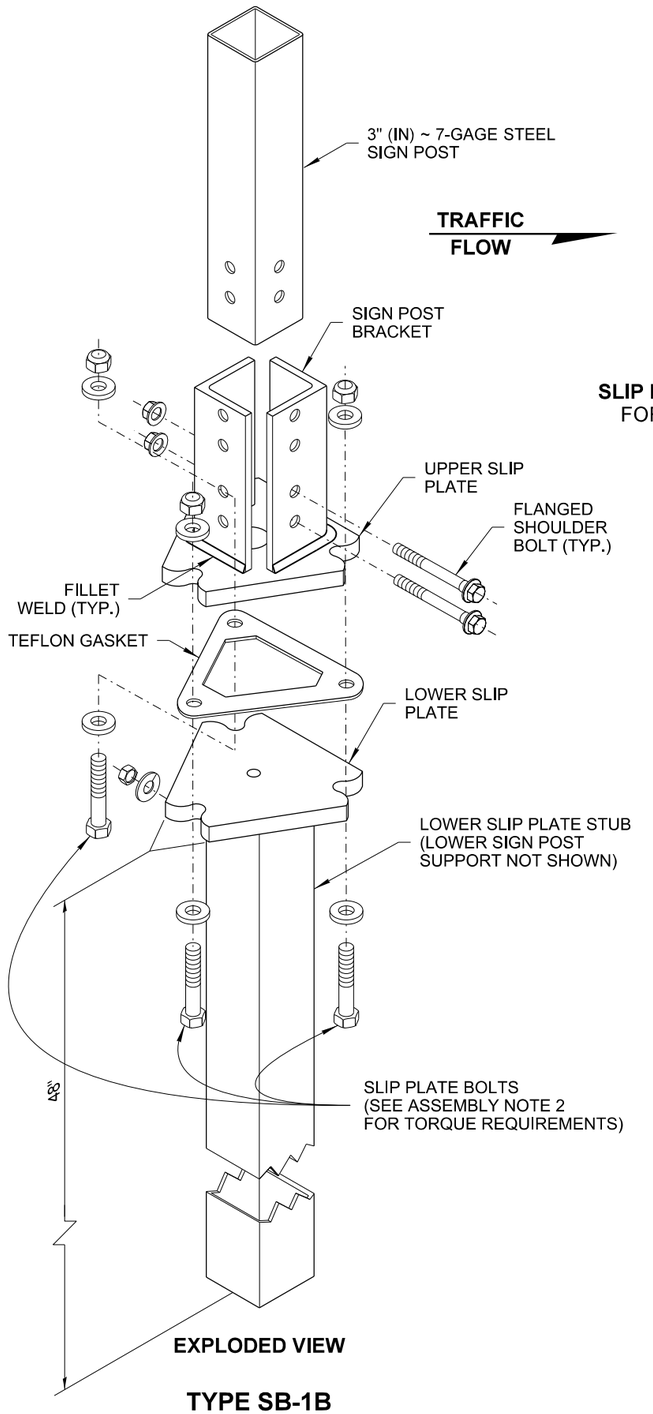
STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-07

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

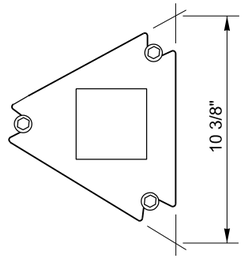
Washington State Department of Transportation

STEEL SIGN SUPPORT TYPES SB-1A & SB-3A ~ 10" (IN)

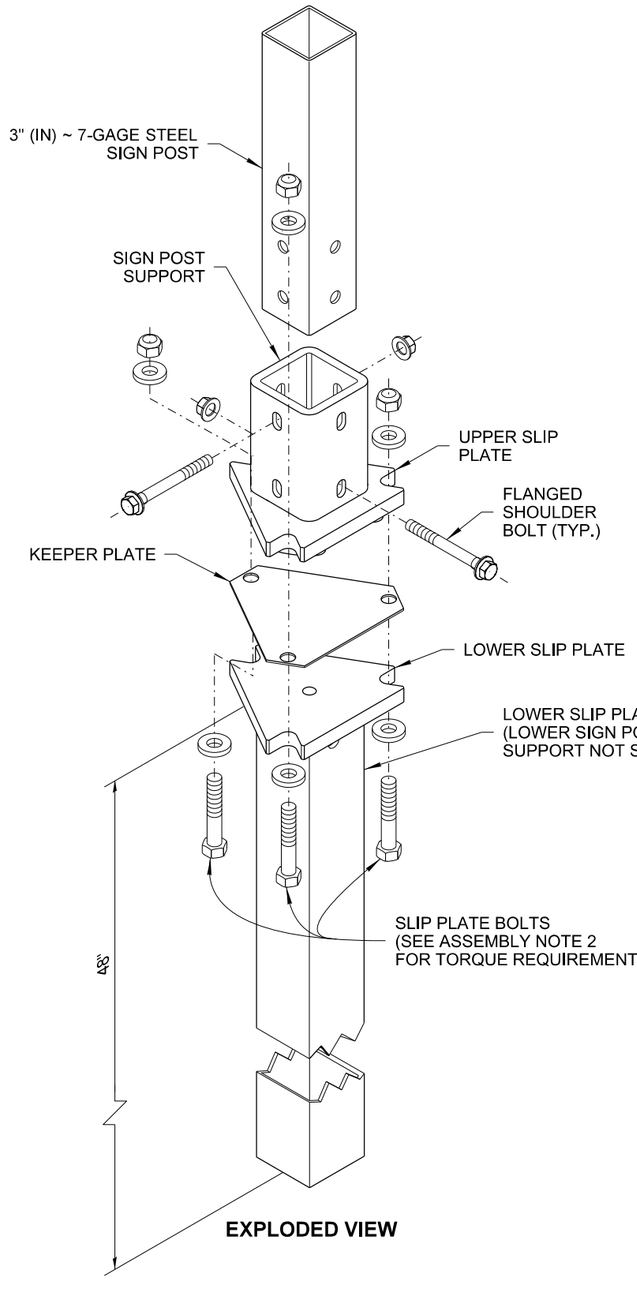


EXPLODED VIEW

TYPE SB-1B
SLIP BASE ASSEMBLY



SLIP PLATE DETAIL
FOR TYPE SB-1



EXPLODED VIEW

TYPE SB-3B
SLIP BASE ASSEMBLY

ASSEMBLY NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
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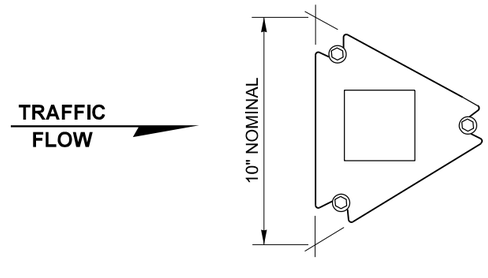
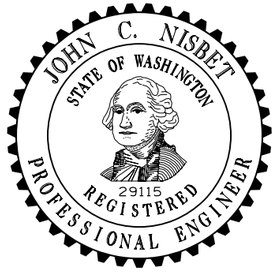
3. Use only Slip Base manufacturer supplied hardware that meets the requirements of **Standard Specification Sections 9-06** and **9-28**.



SLIP PLATE DETAIL
FOR TYPE SB-3



STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS
STANDARD PLAN G-24.40-07

SHEET 6 OF 6 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

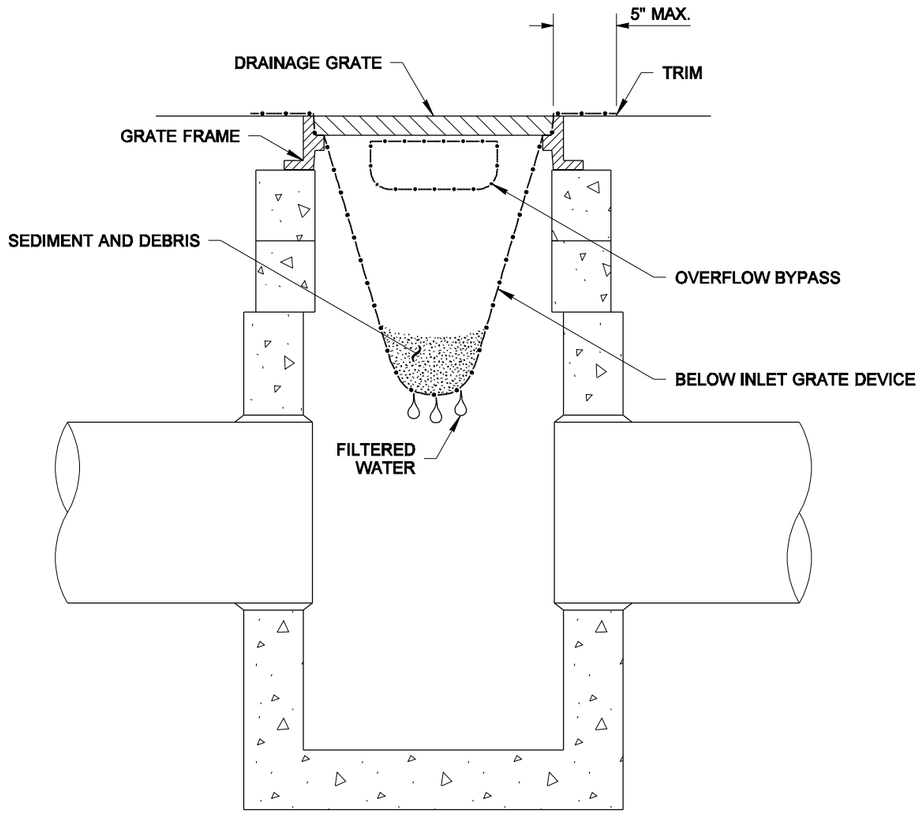
DRAWN BY: FERN LIDDELL

STEEL SIGN SUPPORT TYPE SB-1B & SB-3B ~ 10" (IN)
(UNIBASE)

DRAWN BY: LISA CYFORD

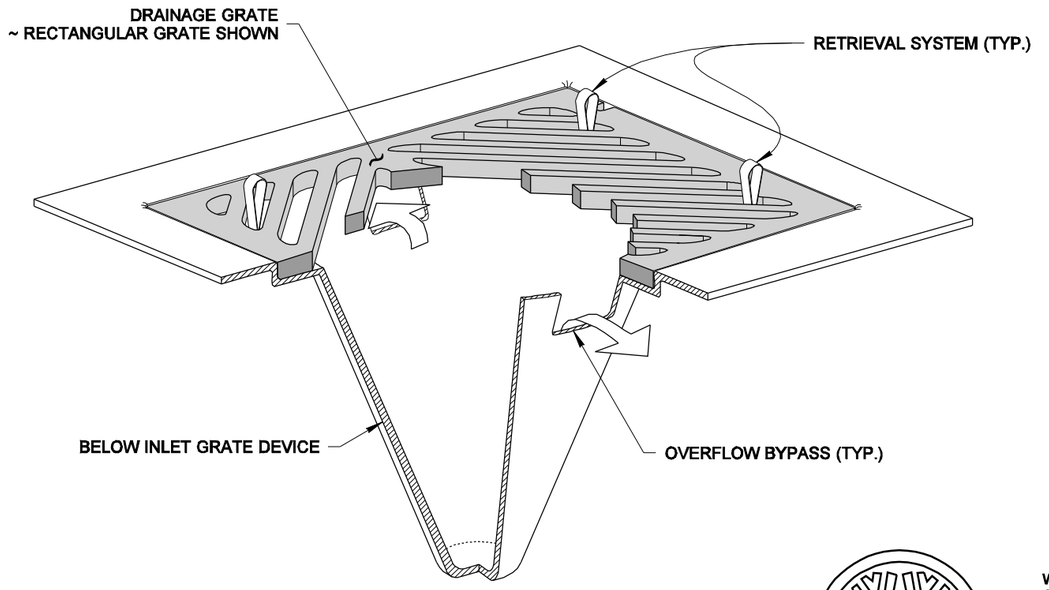
NOTES

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 8-01.3(15).



SECTION VIEW

NOT TO SCALE



ISOMETRIC VIEW

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

STORM DRAIN INLET PROTECTION

STANDARD PLAN I-40.20-00

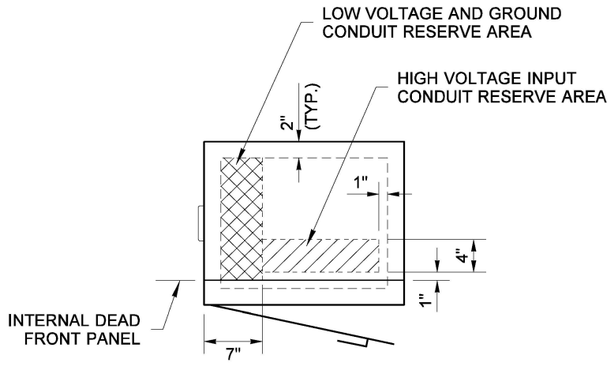
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

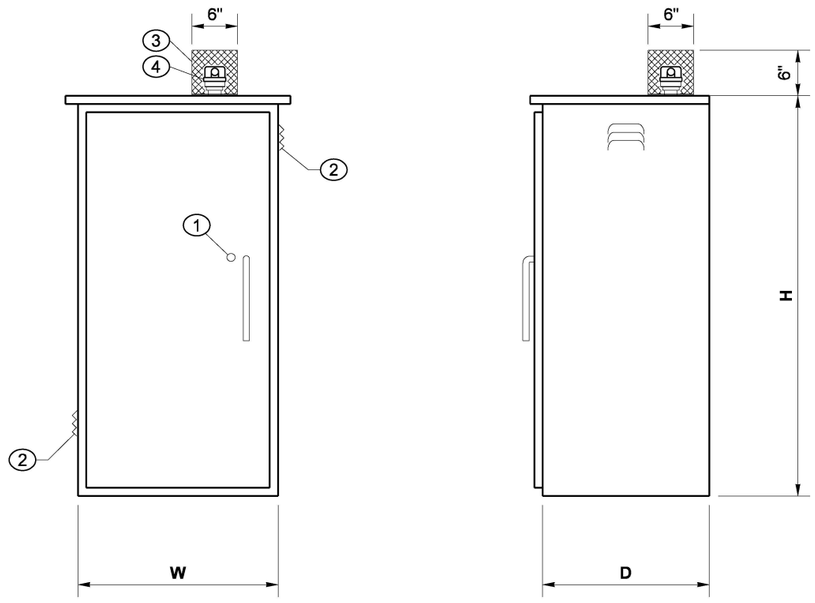
09-20-07 — DATE

Washington State Department of Transportation



PLAN VIEW

TRANSFORMER SIZE (KVA)	CABINET DIMENSIONS		
	H	W	D
UP TO 12.5	48"	24"	20"
12.6 TO 37.5	60"	32"	30"



ELEVATION VIEW **SIDE VIEW**

TRANSFORMER CABINET HOUSING

NOTES

1. See **Standard Specification Section 9-29.24** (Service Cabinets) and **9-29.25** (Amplifier, Transformer, and Terminal Cabinets).
2. Cabinet shall be rated NEMA 3R and shall include rain-tight vents as shown.
3. Dimensions shown are minimum and shall be adjusted to accommodate the various sizes of equipment installed. A 1% tolerance is allowed for all dimensions.
4. Doors shall be padlockable and gasketed. Both doors shall include a Best CX 6-pin Construction core lock. Each door shall use three two-piece hinges, or two or three heavy-duty lift-off type hinges. Hinges shall not be accessible with the doors closed.
5. Hinges with pins shall have stainless steel or brass pins - see door hinge details. When using two piece hinge type on galvanized enclosure, remove hinge pin prior to welding hinge to cabinet and prior to hot-dip galvanizing. After galvanizing, replace pin with brass pin and solder in place.
6. Transformer section dead front panel shall include a phenolic label attached with screws or rivets. The phenolic label shall read "SUPPLIED FROM SERVICE CABINET S?? ####". See Contract Plans for service cabinet S number.
7. Equipment identified by Key Numbers 14, 15, 16, 17, 18, 19, 20, 21, 22, and 25 shall have an appropriately engraved phenolic name plate attached with screws or rivets. The name plate for Key Number 22 (Test Switch only) shall read as follows: "PHOTOCELL BYPASS TEST ON" AND "PHOTOCELL TEST OFF - AUTOMATIC" (see test switch label detail).
8. All busswork shall be **ASTM B187** copper and shall have a minimum rating of 125 amps. All breakers shall bolt on to the busswork. Jumpering of breakers is not allowed. Busswork shall accommodate all future equipment as shown in the Breaker Schedule.
9. All nuts, bolts, and washers used for mounting the photocell enclosure shall be stainless steel.
10. The photocell unit shall be centered in the photocell enclosure to permit 360 degree rotation of the photocell without removal of the photocell unit or the photocell enclosure.
11. All internal wire runs shall be identified with "TO - FROM" coded tags labeled with the code letters and/or numbers shown on the Schedules. Approved PVC or polyolefin wire marking sleeves shall be used.
12. See Contract for Breaker and Contactor Schedule.
13. Buss bars shall be sized to accommodate up to #4 AWG wires.
14. Cabinet shall support a maximum of one lighting circuit (one lighting contactor).
15. Where no lighting circuit is required, do not include Key Items 3, 4, 21, and 25, and omit test switch from Key Item 22.
16. See **Standard Plan J-10.10** for foundation and anchor bolt details. Cabinet shall be oriented such that it opens away from traffic, unless otherwise specified in the Contract Plans.

KEY

1. DOOR WITH BEST CX 6-PIN LOCK CORE
2. SCREENED VENT LOUVER ~ MINIMUM 2 REQUIRED (1 EACH SIDE)
3. PHOTOCELL ENCLOSURE ~ SEE PHOTOCELL MOUNTING DETAIL
   ~ ENCLOSURE SHALL BE FABRICATED FROM EITHER:
   A. 5/8" (IN) EXPANDED STEEL MESH WITH WELDED SEAMS AND MOUNTING FLANGES ~ HOT-DIP GALVANIZED AFTER FABRICATION
   ~ OR ~
   B. TYPE 5052 - H32 ALUMINUM WITH 5/8" (IN) x 5/8" (IN) OPENINGS EQUIVALENT TO 5/8" (IN) EXPANDED STEEL MESH
4. PHOTOELECTRIC CONTROL ~ SEE **STANDARD SPECIFICATION, SECTION 9-29.11(2)**
5. ENCLOSED LOW VOLTAGE WIREWAY WITH REMOVABLE COVER.
6. NOT USED
7. TRANSFORMER SECTION HINGED DEAD FRONT WITH LOUVERED VENTS (2 MINIMUM). DEAD FRONT SHALL BE SECURED USING 1/4 TURN FASTENERS OR SLIDE LATCHES. DEAD FRONT SHALL INCLUDE A POWER SOURCE PHENOLIC LABEL (SEE NOTE 6)
8. LOAD CENTER SECTION HINGED DEAD FRONT. DEAD FRONT SHALL BE SECURED WITH 1/4 TURN FASTENERS OR SLIDE LATCHES ~ DEAD FRONT PANEL BOLTS SHALL NOT EXTEND INTO VERTICAL LIMITS OF THE BREAKER ARRAY(S)
9. ARC FLASH AND SHOCK HAZARD LABEL (FIELD INSTALLED) ~ SEE DETAIL (SHEET 2)
10. CABINET BUSSWORK RATING LABEL
11. METAL WIRING DIAGRAM HOLDER

Jun 20, 2024

TRANSFORMER CABINET (480V/240V - 240V/120V)

STANDARD PLAN J-10.25-01

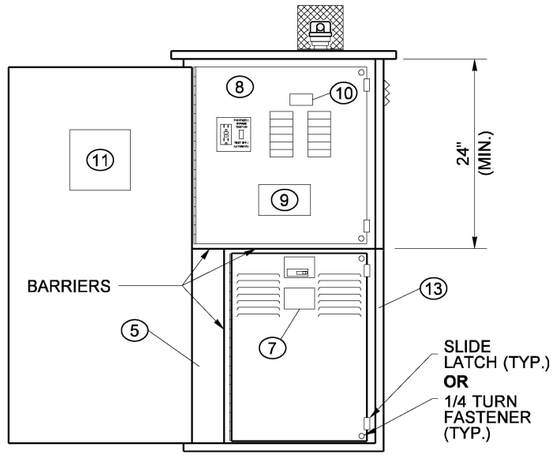
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

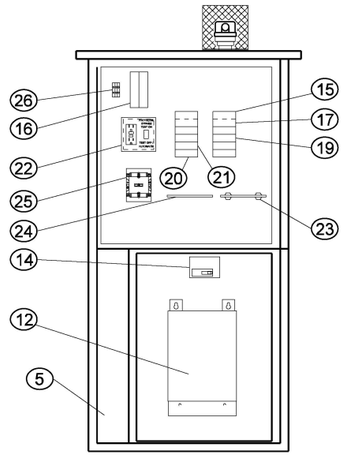
Mark A Dawies Jun 21, 2024

STATE DESIGN ENGINEER

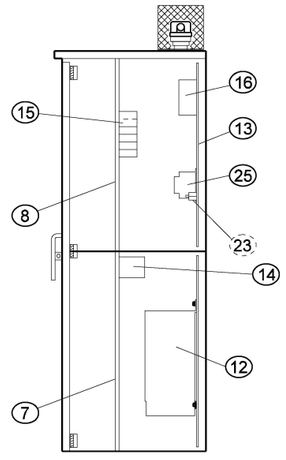
Washington State Department of Transportation



FRONT
(SHOWN WITH DOORS OPEN AND DEAD FRONT CLOSED)



FRONT
(SHOWN WITH DEAD FRONTS REMOVED)



INTERIOR END VIEW
(SUPPORT FRAMES FOR EQUIPMENT NOT SHOWN)

SERVICE CABINET INTERIOR

SERVICE CABINET INTERIOR DETAIL

KEY (CONTINUED)

(12) TRANSFORMER ON REMOVABLE ALUMINUM BACKPLATE. TRANSFORMERS OF SIZE 7.5 KVA AND ABOVE SHALL INCLUDE TWO FULL CAPACITY TAPS - ONE AT 5% AND ONE AT 10% BELOW NORMAL CAPACITY.

(13) ALUMINUM BACKPLATE FOR EQUIPMENT

(14) TRANSFORMER PRIMARY SIDE BREAKER ~ DPST

(15) 12-CIRCUIT PANEL BOARD

(16) 20 KA TYPE 1 OR TYPE 2 SURGE PROTECTION DEVICE ~ DIN RAIL MOUNT WITH PLUG-IN MODULE(S)

(17) DPST BRANCH BREAKER ~ SEE BREAKER SCHEDULE

(18) SPARE BRANCH BREAKER ~ 20 AMP SPST ~ OMIT IF BREAKER ARRAY IS FULL (SEE BREAKER SCHEDULE)

(19) SPST BRANCH BREAKER ~ SEE BREAKER SCHEDULE

(20) RECEPTACLE BREAKER ~ SPST 20 AMP

(21) PHOTOCELL BREAKER ~ SPST 15 AMP

(22) GANG BOX WITH:
A. RECEPTACLE (GROUNDED) ~ 125 VOLT 20 AMP GFCI
B.TEST SWITCH ~ 120/277 VOLT 15 AMP SPDT SNAP ACTION - POSITIVE CLOSE - "T" RATED.
BOX MAY INCLUDE A COVER PLATE, OR MAY BE COVERED BY DEAD FRONT PANEL ~ GANG BOX SHALL BE WIRED TO THE CABINET BONDING JUMPER (KEY NUMBER 24)

(23) ISOLATED NEUTRAL BUSS ~ 14 LUG COPPER (SEE NOTE 13)

(24) CABINET MAIN BONDING JUMPER ASSEMBLY ~ BUSS SHALL BE 14 LUG TINNED COPPER (SEE NOTE 13) ~ SEE CABINET MAIN BONDING JUMPER ASSEMBLY DETAIL

(25) CONTACTOR (BEHIND DEAD FRONT) ~ SEE BREAKER SCHEDULE

(26) THREE POSITION DIN RAIL MOUNTED TERMINAL BLOCK ~ TERMINAL BLOCK SECTIONS SHALL BE BLACK, WHITE, AND RED AS SHOWN IN CABINET WIRING DIAGRAM.

(27) CONNECTION TO GROUND ELECTRODE ~ SEE **STANDARD PLAN J-60.05**

⚠ WARNING

Arc Flash and Shock Hazard
Appropriate PPE Required

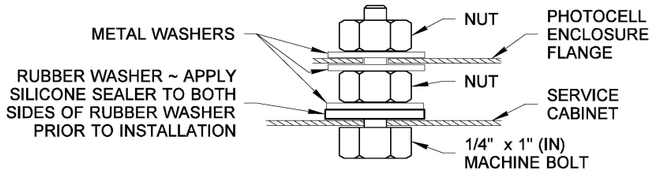
ARC FLASH PROTECTION		SHOCK PROTECTION	
Arc Flash Boundary (in)	00 in	Shock Hazard When Cover Removed	000 VAC
Incident Energy at 18 inches (cal/cm^2)	0.00	Limited Approach	00 in
Assessment Date: 00-00-0000		Restricted Approach	00 in
By:		Glove Class	00
WSDOT Approval Inspector:		Date:	

ARC FLASH AND SHOCK HAZARD LABEL DETAIL
(9)

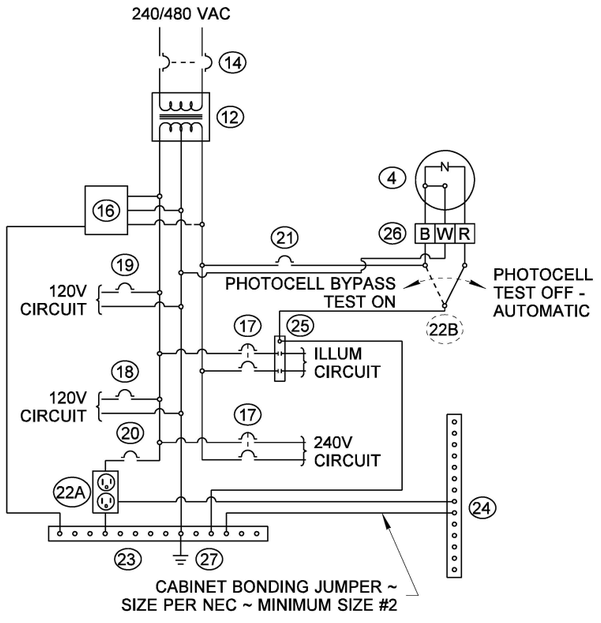
PHOTOCELL BYPASS TEST ON

TEST OFF / AUTOMATIC

TEST SWITCH LABEL DETAIL
(22)



PHOTOCELL ENCLOSURE MOUNTING DETAIL



WIRING DIAGRAM
(FOR REFERENCE ONLY - SEE CONTRACT FOR NUMBER AND TYPE OF 120V AND 240V CIRCUITS)

WILLIAM FLINT JACKSON
STATE OF WASHINGTON
48821
REGISTERED
PROFESSIONAL ENGINEER
William Flint Jackson (Jun 20, 2024 11:29 PDT)

Jun 20, 2024

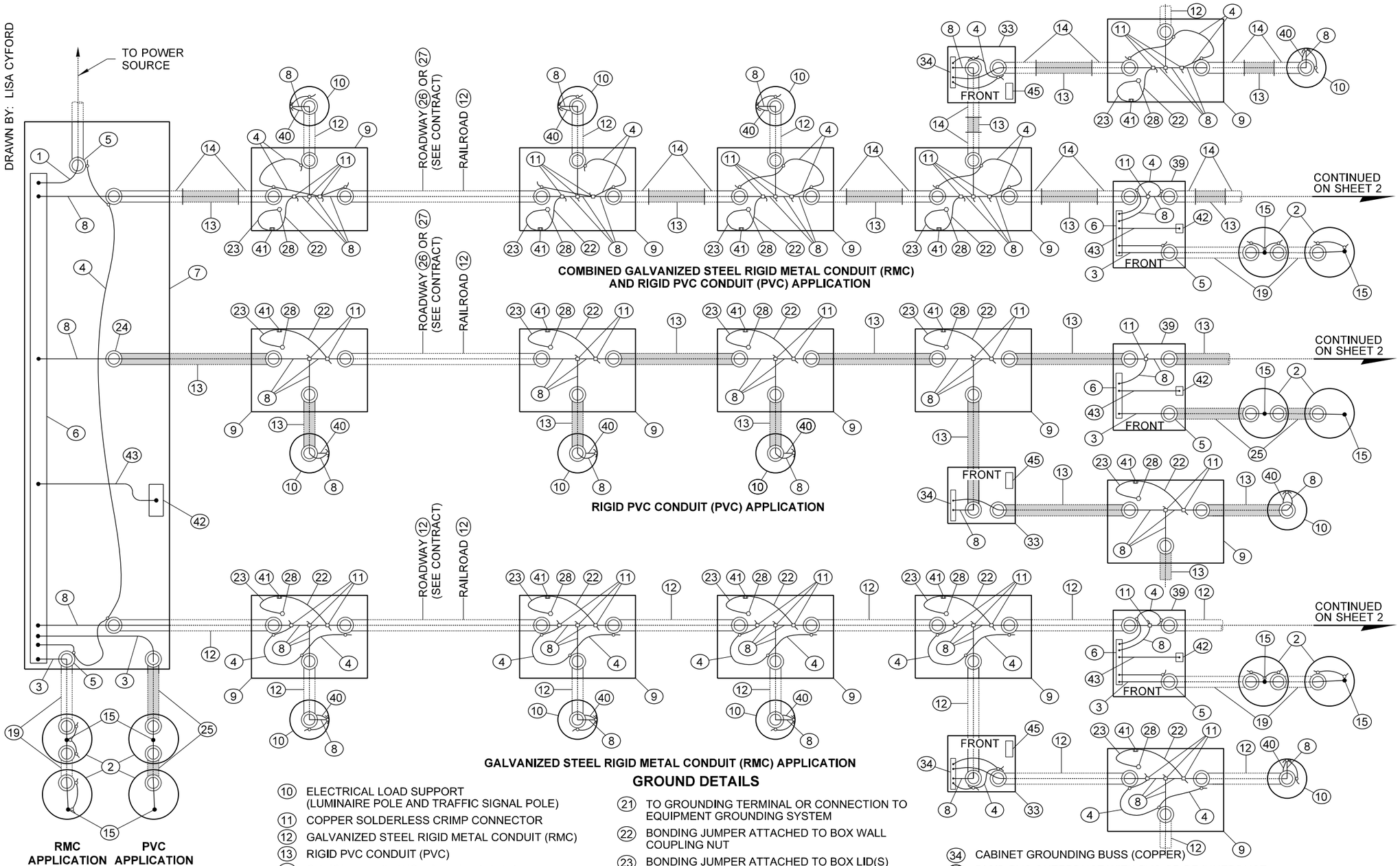
TRANSFORMER CABINET (480V/240V - 240V/120V)

STANDARD PLAN J-10.25-01

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Mark A Dawes Jun 21, 2024
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: LISA CYFORD



COMBINED GALVANIZED STEEL RIGID METAL CONDUIT (RMC) AND RIGID PVC CONDUIT (PVC) APPLICATION

RIGID PVC CONDUIT (PVC) APPLICATION

GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

KEY

1. SERVICE NEUTRAL
2. SERVICE GROUND
3. GROUNDING ELECTRODE CONDUCTOR
4. BONDING JUMPER
5. GROUNDING BUSHING (TYP. ALL RMC CONDUIT TERMINATIONS)
6. GROUNDED NEUTRAL BUS (COPPER)
7. SERVICE ENCLOSURE
8. EQUIPMENT GROUNDING CONDUCTOR
9. JUNCTION BOX
10. ELECTRICAL LOAD SUPPORT (LUMINAIRE POLE AND TRAFFIC SIGNAL POLE)
11. COPPER SOLDERLESS CRIMP CONNECTOR
12. GALVANIZED STEEL RIGID METAL CONDUIT (RMC)
13. RIGID PVC CONDUIT (PVC)
14. OPTION A - 10' RMC WITH FIELD BEND
    - APPROVED ADAPTER FITTING
    - GROUNDING BUSHING

    OPTION B - 10' RMC
    - GS FACTORY ELBOWS
    - APPROVED ADAPTER FITTING
    - GS COUPLING
    - GROUNDING BUSHING
15. GROUND ROD
16. EDGE OF FOUNDATION, POLE OR SERVICE SUPPORT
17. CLAMP
18. JUNCTION BOX OR 8" DRAIN TILE WITH APPROVED CONCRETE COVER
19. CODE SIZE RMC
20. TO SERVICE NEUTRAL BUS

GROUND DETAILS

21. TO GROUNDING TERMINAL OR CONNECTION TO EQUIPMENT GROUNDING SYSTEM
22. BONDING JUMPER ATTACHED TO BOX WALL COUPLING NUT
23. BONDING JUMPER ATTACHED TO BOX LID(S) GROUND STUD. # 8 AWG (MIN.) × 4' (FT) TINNED BRAIDED COPPER.
24. END BELL BUSHING (TYP. ALL NON-METALLIC CONDUIT TERMINATIONS)
25. CODE SIZED PVC
26. HIGH-DENSITY POLYETHYLENE CONDUIT (HDPE)
27. NON-METALLIC CONDUIT (PVC) SCHEDULE 80
28. BOX LID(S) GROUND STUD
29. CABLE VAULT
30. PULL BOX
31. ITS CABINET
32. EDGE OF FOUNDATION
33. TRAFFIC SIGNAL CABINET
34. CABINET GROUNDING BUSS (COPPER)
35. RIGID PVC OUTERDUCT WITH PVC OR PE INNERDUCT
36. GALVANIZED STEEL RIGID METAL CONDUIT OUTERDUCT WITH PVC OR PE INNERDUCT
37. EQUIPMENT GROUNDING CONDUCTOR CONNECTION POINT IN CABLE VAULT OR PULL BOX BETWEEN SEPERATE SERVICES
38. DETECTABLE UNDERGROUND WARNING TAPE. COIL 2' INSIDE CABINET, CABLE VAULT, OR PULL BOX
39. TRANSFORMER CABINET
40. GROUNDING CONDUCTOR NON-INSULATED (FROM REINFORCING CAGE)
41. BOX FRAME BONDING ATTACHMENT POINT
42. GROUND LUG WELDED TO CABINET WALL (W/ TINNED COPPER BUSS)
43. CABINET MAIN BONDING JUMPER
44. ITS CAMERA, RAMP METER, TRAFFIC DATA STATION, HIGHWAY ADVISORY RADIO
45. UNGROUNDED CABINET NEUTRAL BUSS (COPPER)

NOTES

1. If parallel circuits of different sizes are contained in one conduit, the size of the grounding conductor shall be determined on the basis of the largest conductor. Only one grounding conductor is required for each conduit, regardless of the number of circuits contained.
2. Service ground per serving utility requirement. If the utility uses aluminum service conductors, an approved Al-Cu pressure-type ground connector shall be used to secure the service neutral to the copper neutral bar in the service enclosure. Except for the above, all grounding conductors shall be copper.
3. Equipment grounding conductors and grounding electrode conductors shall be sized in accordance with the National Electrical Code (No. 8 minimum).

THEODORE JOSEPH BAILEY
STATE OF WASHINGTON
39820
REGISTERED
PROFESSIONAL ENGINEER

TYPICAL GROUNDING DETAILS

STANDARD PLAN J-60.05-01

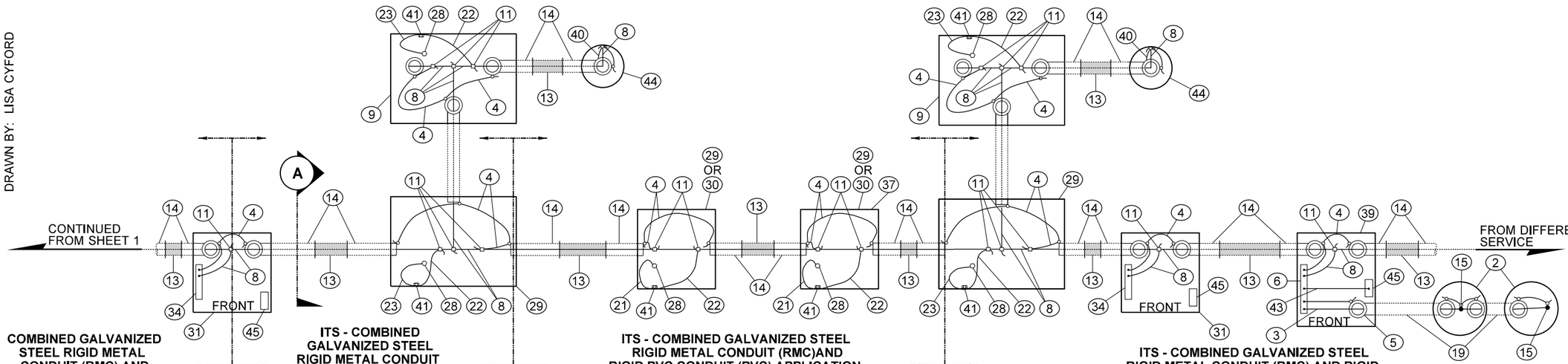
SHEET 1 OF 3 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: LISA CYFORD

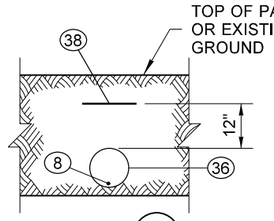


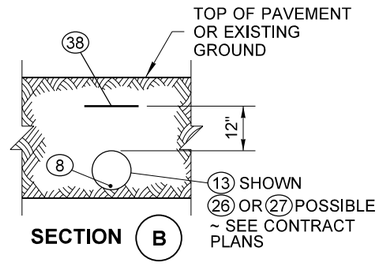
COMBINED GALVANIZED STEEL RIGID METAL CONDUIT (RMC) AND RIGID PVC CONDUIT (PVC) APPLICATION

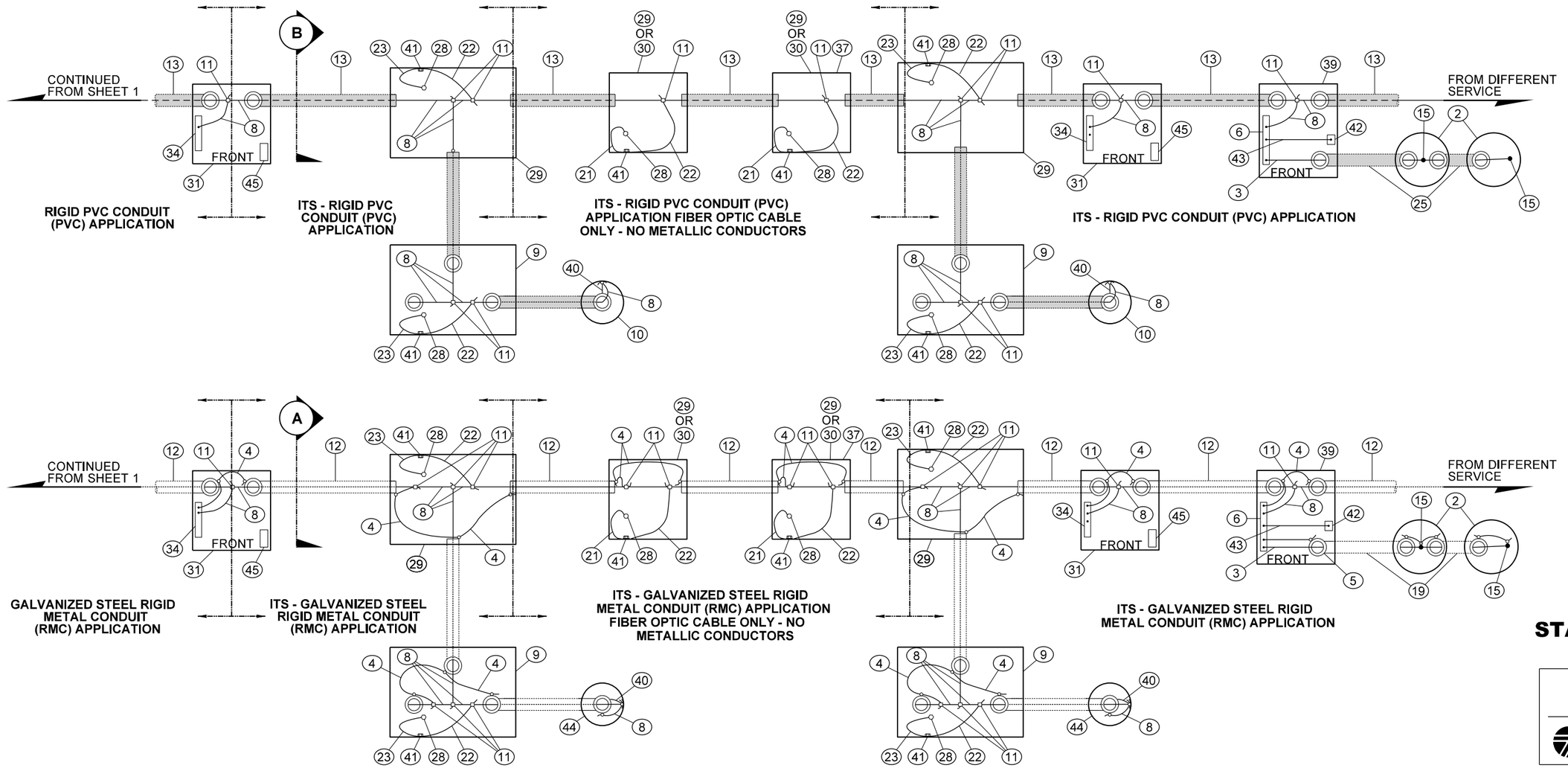
ITS - COMBINED GALVANIZED STEEL RIGID METAL CONDUIT (RMC) AND RIGID PVC CONDUIT (PVC) APPLICATION

ITS - COMBINED GALVANIZED STEEL RIGID METAL CONDUIT (RMC)AND RIGID PVC CONDUIT (PVC) APPLICATION. FIBER OPTIC CABLE ONLY, NO METALLIC CONDUCTORS

ITS - COMBINED GALVANIZED STEEL RIGID METAL CONDUIT (RMC) AND RIGID PVC CONDUIT (PVC) APPLICATION







RIGID PVC CONDUIT (PVC) APPLICATION

ITS - RIGID PVC CONDUIT (PVC) APPLICATION

ITS - RIGID PVC CONDUIT (PVC) APPLICATION FIBER OPTIC CABLE ONLY - NO METALLIC CONDUCTORS

ITS - RIGID PVC CONDUIT (PVC) APPLICATION

GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

ITS - GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

ITS - GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION FIBER OPTIC CABLE ONLY - NO METALLIC CONDUCTORS

ITS - GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

THEODORE JOSEPH BAILEY
STATE OF WASHINGTON
39820
REGISTERED
PROFESSIONAL ENGINEER

TYPICAL GROUNDING DETAILS

STANDARD PLAN J-60.05-01

SHEET 2 OF 3 SHEETS

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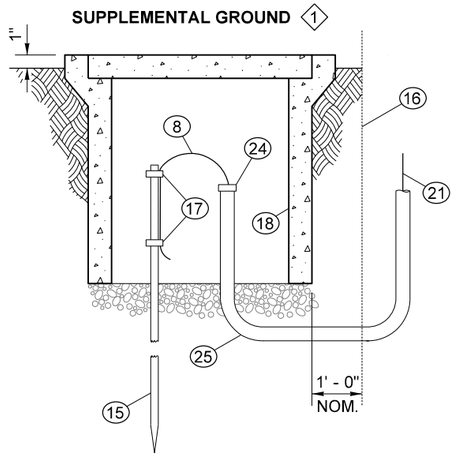
STATE DESIGN ENGINEER

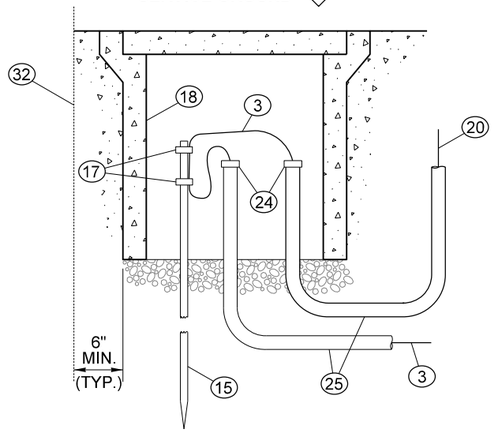
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

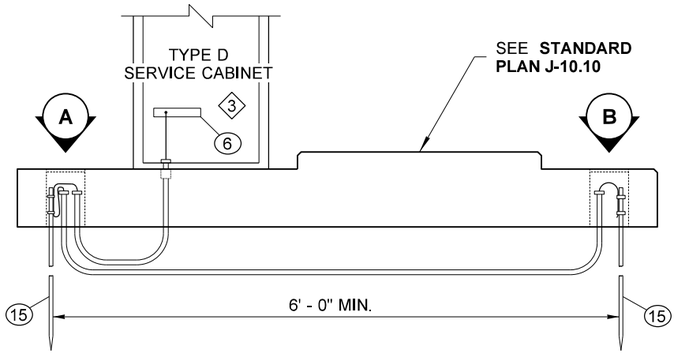
SUPPLEMENTAL GROUND ◇1



SERVICE GROUND ◇2

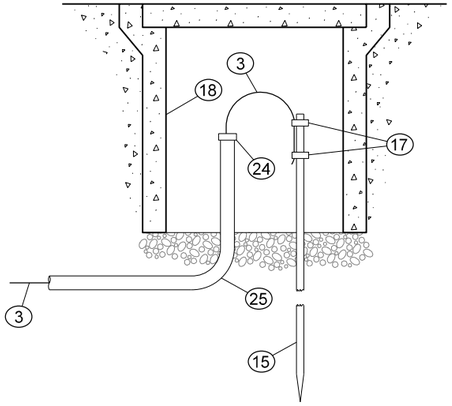


DETAIL (A)



RIGID PVC CONDUIT (PVC) APPLICATION

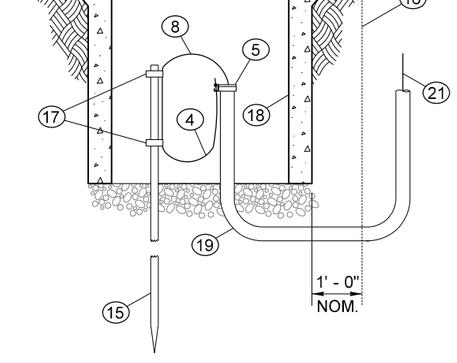
SERVICE GROUND ◇2



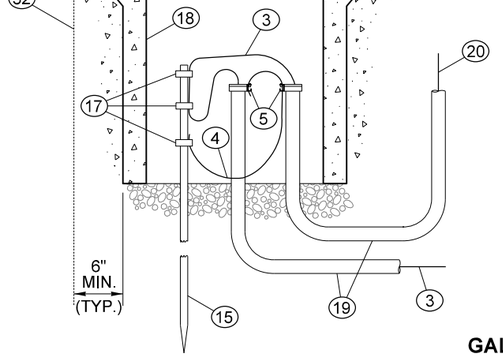
DETAIL (B)

SEE KEY ON SHEET 1
FOR PARTS

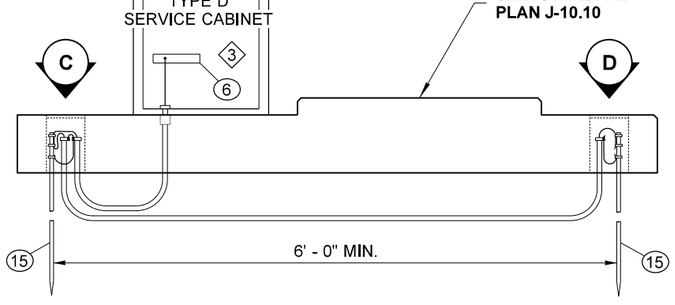
SUPPLEMENTAL GROUND ◇1



SERVICE GROUND ◇2

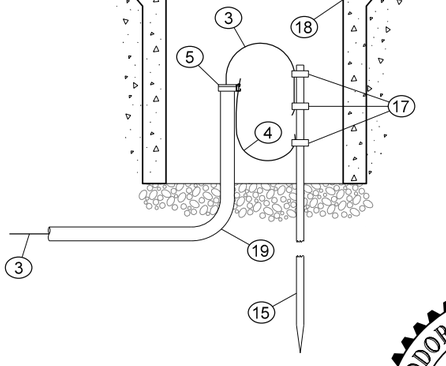


DETAIL (C)



GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

SERVICE GROUND ◇2



DETAIL (D)

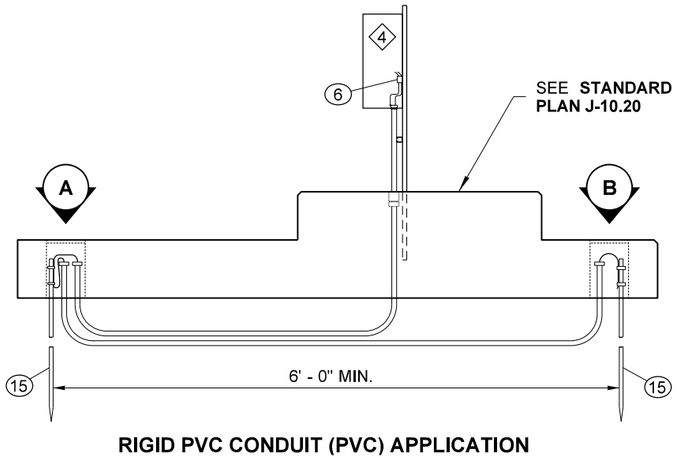
◇1 Required to supplement equipment grounding for luminaire standards with direct burial aerial feeds, or where required in the plans

◇2 Required at all service and separately derived systems

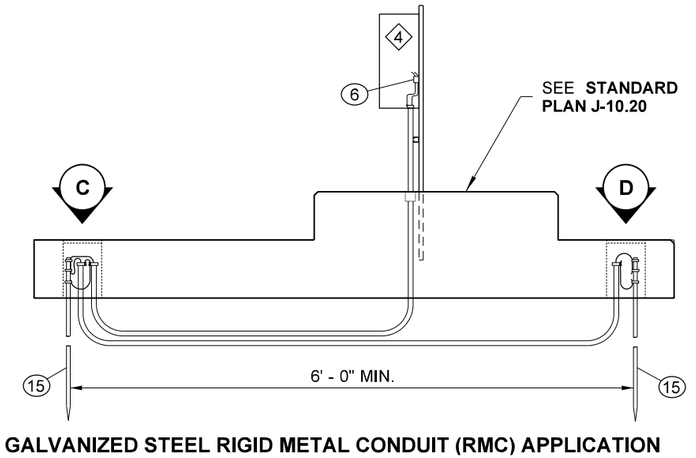
◇3 Type D service cabinet shown. Use this concept for Type E cabinet or transformer. Type D service cabinet shall be installed on lower surface of foundation only. Type B service cabinet and transformer cabinet shall be installed on raised surface of foundation only.

◇4 Type B modified service cabinet

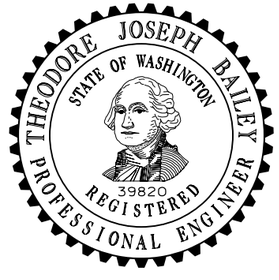
◇5 Grounding electrode conductor and equipment grounding conductor shall not be routed through lug on grounding bushing.



RIGID PVC CONDUIT (PVC) APPLICATION



GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION



TYPICAL GROUNDING DETAILS

STANDARD PLAN J-60.05-01

SHEET 3 OF 3 SHEETS

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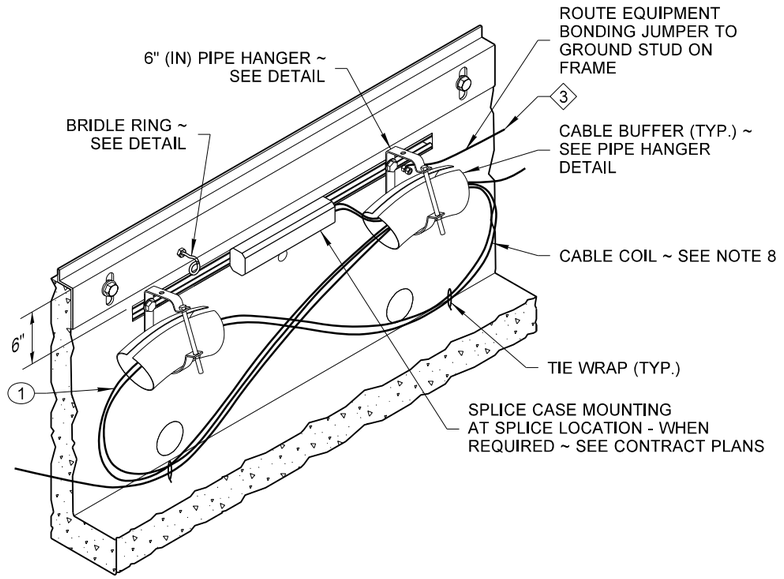
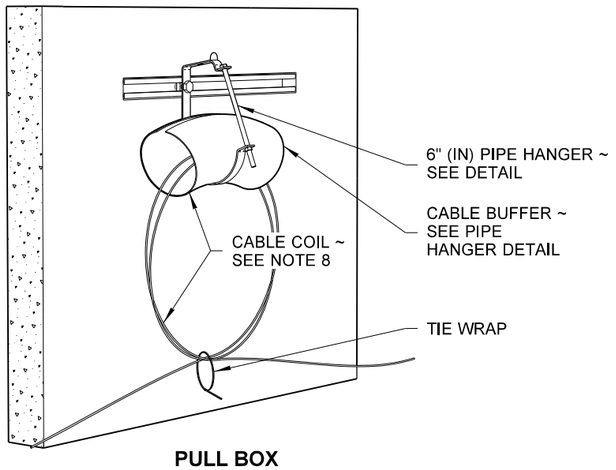
STATE DESIGN ENGINEER

Washington State Department of Transportation

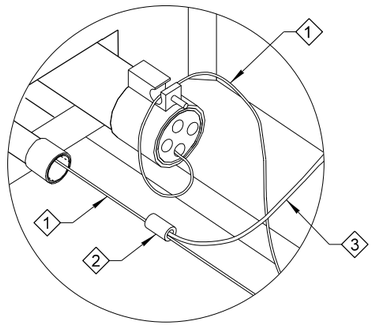
DRAWN BY: BILL BERENS



CABLE VAULT
INTERNAL ISOMETRIC VIEW



PULL BOX
INTERNAL OBLIQUE VIEW



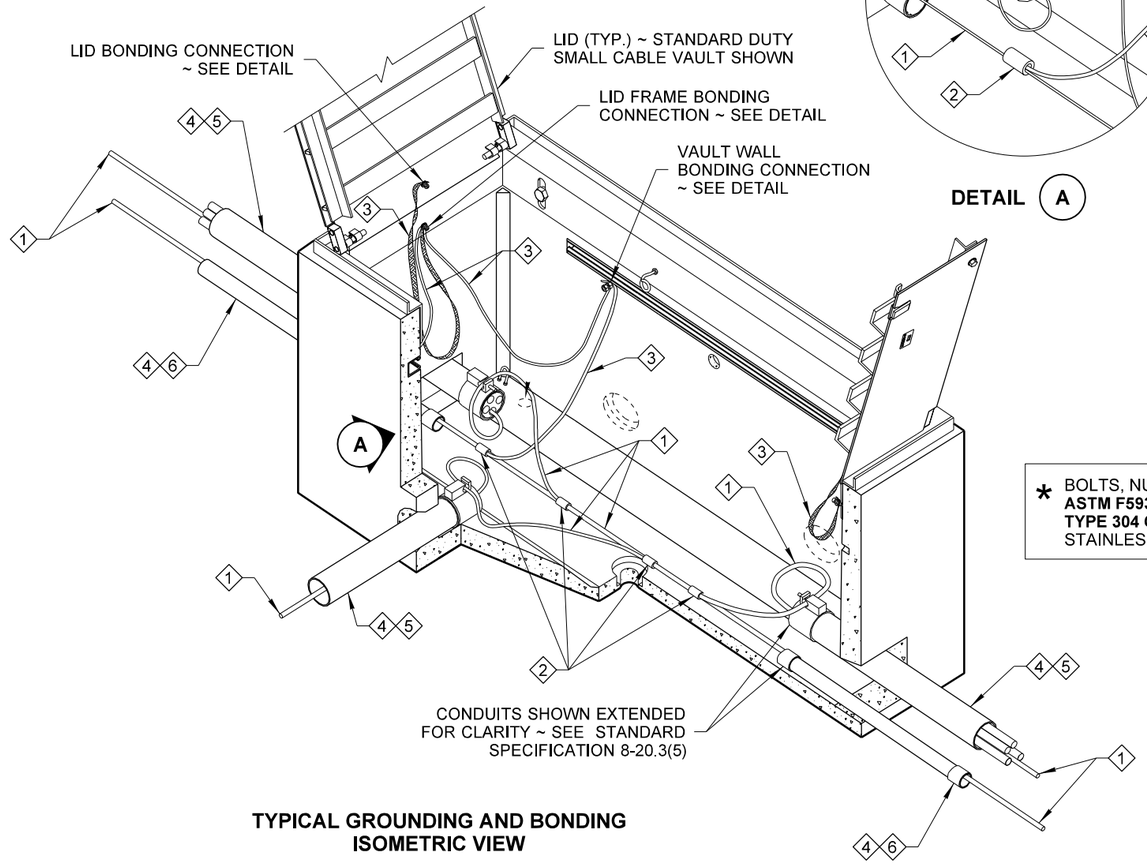
DETAIL (A)

KEY NOTES

1. EQUIPMENT GROUNDING CONDUCTOR
2. COPPER SOLDERLESS CRIMP CONNECTOR
3. EQUIPMENT BONDING JUMPER (SEE NOTES 6 & 7)
4. SEE CONTRACT FOR CONDUIT SIZE AND NUMBER
5. RMC SHOWN ~ SEE CONTRACT FOR CONDUIT TYPE
6. PVC OR HDPE (PVC SHOWN) ~ SEE CONTRACT FOR CONDUIT TYPE

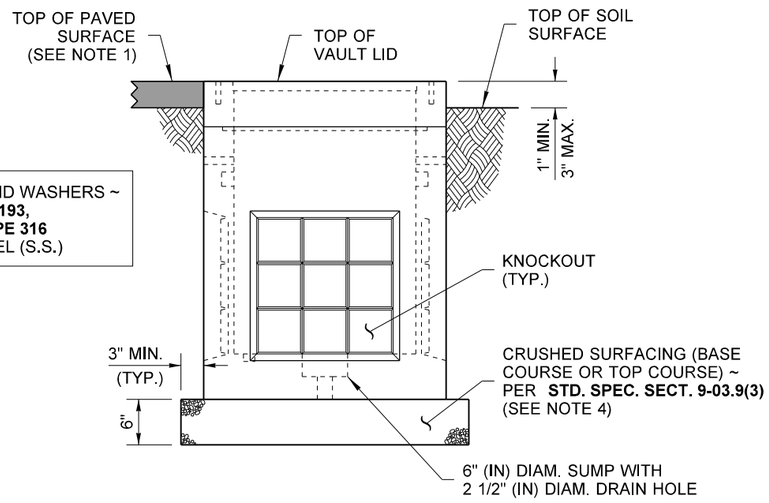
NOTES

1. Vaults (including Pull Boxes) installed within the traveled way or paved shoulder must use Heavy Duty Lids. Small Cable Vaults (**Standard Plan J-90.21**) shall not be installed in the traveled way or paved shoulder.
2. Vaults installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, and shared-use paths.
3. Small Cable Vaults for WSDOT Projects shall only be installed with the lid frame bearing on the concrete portion of cable vault.
4. Vault shall be installed on 6" (in) crushed surfacing pad in accordance with **Standard Specification Section 8-20.3(6)**.
5. Conduit Capacities (sum total conduit of all conduit diameters):
   - Pull Box and Small Cable Vault = 40" (in)
   - Cable Vault = 60" (in)
6. The bonding jumper shall be #8 AWG min. x 1' (ft) of tinned braided copper between the lid and the frame, and shall be #8 AWG min. from the frame to the hex coupling nut. See Contract Plans and **Standard Plan J-60.05** for bonding jumper requirements.
7. Connect the equipment grounding conductor(s) to the vault wall bonding connection with a #8 AWG (min.) equipment bonding jumper. For RMC conduits, the conduit end bushing shall be bonded between the equipment ground conductor and the vault wall bonding connection.
8. Each cable shall be coiled such that the cable's minimum bending radius limitations are not compromised. For coils in pull boxes, form a figure 8 loop first, then fold it in half (cable should twist slightly, not bend) to form a single loop.
9. Knockouts shall be restored with grout after conduit installation ~ see **Standard Specification section 8-20.3(6)**. For open bottom vaults, field bend #3 reinforcing bars to allow conduit into vault, then field bend back into place. Restored #3 bars shall be wire tied in two places, and the vault floor and wall completed with commercial concrete.



TYPICAL GROUNDING AND BONDING
ISOMETRIC VIEW

* BOLTS, NUTS AND WASHERS ~ **ASTM F593 OR A193, TYPE 304 OR TYPE 316** STAINLESS STEEL (S.S.)



TYPICAL VAULT PLACEMENT
END VIEW

MATTHEW J. NEELEY
STATE OF WASHINGTON
46597
REGISTERED
PROFESSIONAL ENGINEER

VAULT INSTALLATION DETAILS

STANDARD PLAN J-90.50-00

SHEET 1 OF 2 SHEETS

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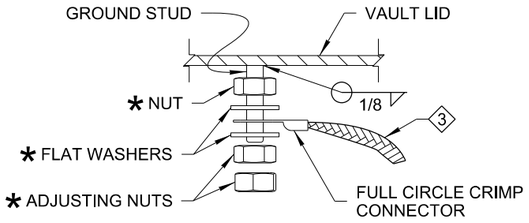
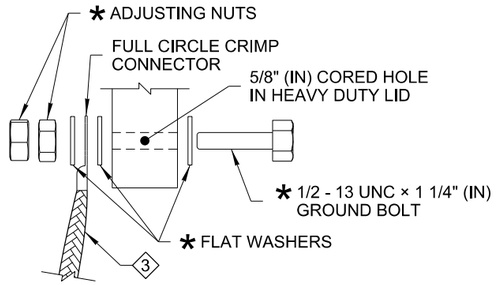
STATE DESIGN ENGINEER

Washington State Department of Transportation

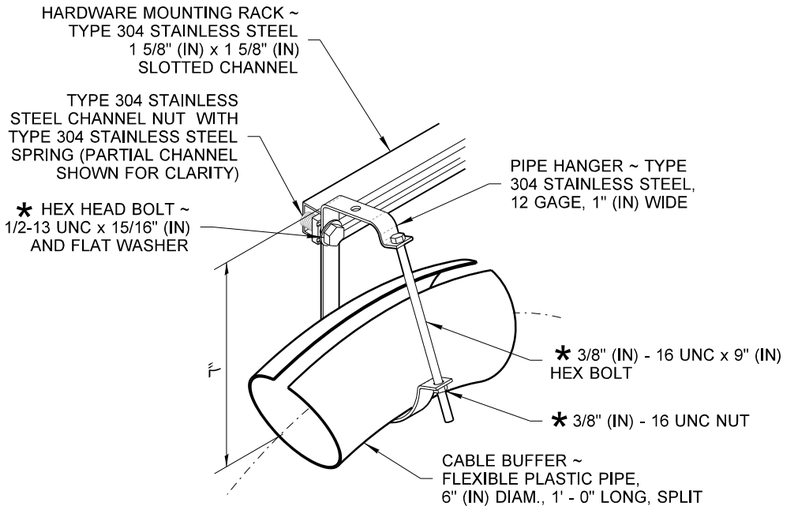
DRAWN BY: BILL BERENS



STANDARD DUTY LID BONDING CONNECTION DETAIL

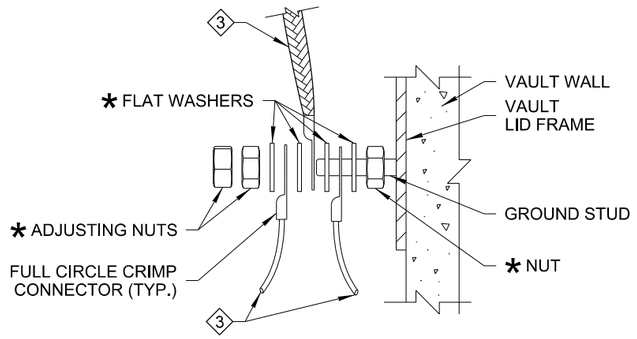


HEAVY DUTY LID BONDING CONNECTION DETAIL

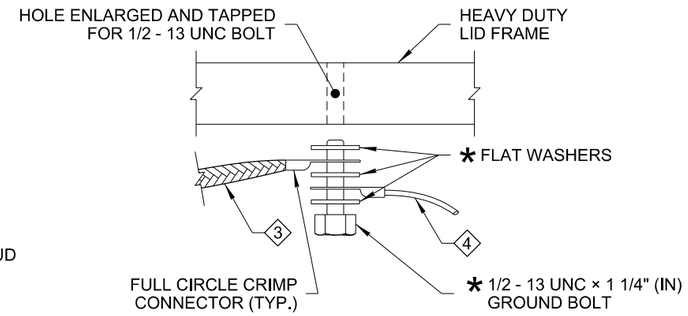


PIPE HANGER DETAIL

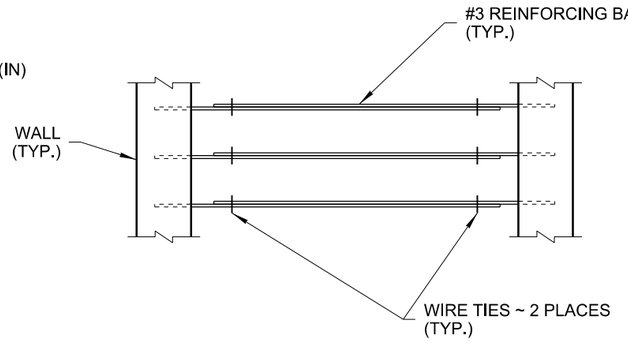
FABRICATE IF NOT AVAILABLE COMMERCIALLY



STANDARD DUTY LID FRAME BONDING CONNECTION DETAIL



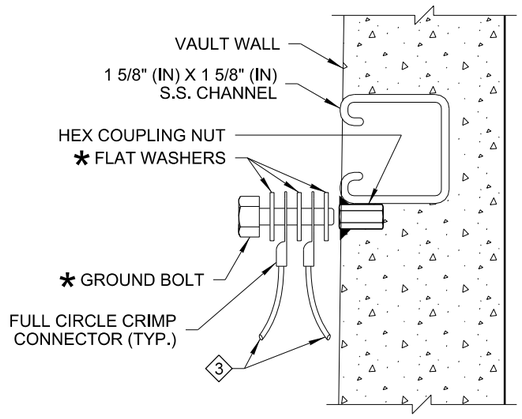
HEAVY DUTY LID FRAME BONDING CONNECTION DETAIL



OPEN BOTTOM VAULT FINISHING DETAIL

(SEE NOTE 9)

* BOLTS, NUTS AND WASHERS ~ **ASTM F593 OR A193, TYPE 304 OR TYPE 316** STAINLESS STEEL (S.S.)



VAULT WALL BONDING CONNECTION DETAIL

KEY NOTES

1. EQUIPMENT GROUNDING CONDUCTOR
2. COPPER SOLDERLESS CRIMP CONNECTOR
3. EQUIPMENT BONDING JUMPER (SEE NOTES 6 & 7)
4. SEE CONTRACT FOR CONDUIT SIZE AND NUMBER
5. RMC SHOWN ~ SEE CONTRACT FOR CONDUIT TYPE
6. PVC OR HDPE (PVC SHOWN) ~ SEE CONTRACT FOR CONDUIT TYPE

MATTHEW J. NEELEY
STATE OF WASHINGTON
46597
REGISTERED
PROFESSIONAL ENGINEER

VAULT INSTALLATION DETAILS

STANDARD PLAN J-90.50-00

SHEET 2 OF 2 SHEETS

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STATE DESIGN ENGINEER

Washington State Department of Transportation

PART FIVE

UTILITY CONSTRAINT LETTERS

1. Douglas County Public Utility District

January 28, 2026
Mr. Mike Neer
Douglas County TLS
140 19th Street NW, Suite A
East Wenatchee, WA 98802

RE: North Baker Avenue

Dear Mr. Neer,

Douglas PUD understands that Douglas County is planning to reconstruct 21st St NE from N Baker Ave to Devon Ave. It is in the best interest of Douglas PUD to work with you and your contractor to avoid any conflicts. Our understanding is that the project will consist of installation of curb, gutter, and sidewalk, and new storm and water lines. Per your request, Douglas PUD has developed the following timeline required for each of the expected crossings and impacts.

Once the road has been opened, the District will schedule the work to lower our existing underground line crossing 21st St NE to the standard 4 ft depth to make room for the storm drain being installed down 21st St. Advance notice for work and closures can help reduce the impacted time as the District will need a minimum of two (2) weeks to schedule outages to disconnect the existing line while work is being done. District will need two (2) weeks to install the new conduit and conductor.

Any additional work required by the project will need to be coordinated with Douglas PUD a minimum of two (2) weeks in advance for scheduling. Crews are available from 7:00 a.m. to 3:30 p.m. Monday through Friday except holidays.

Thank you for your time and consideration in this matter. Please feel free to contact me regarding any questions or concerns on this project. We look forward to working with you to complete this project in a timely manner.

Sincerely,

Cutter Wurl
Customer Engineer

Cc: Jed Zook
Customer Engineer Supervisor

PART SIX

STATE WAGE RATES

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage
The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 04/13/2026

Douglas County

Trade	Job Classification	Wage	Holiday	Overtime	Note
Asbestos Abatement Workers	Journey Level	$58.19	**7B**	**1M**	**8Z**
Boilermakers	Journey Level	$77.39	**5N**	**1C**	
Brick Mason	Journey Level	$61.09	**5A**	**1M**	
Building Service Employees	Janitor	$17.13		**1**	
Building Service Employees	Shampooer	$17.13		**1**	
Building Service Employees	Waxer	$17.13		**1**	
Building Service Employees	Window Cleaner	$17.13		**1**	

Cabinet Makers (In Shop)	Journey Level	$17.13		**1**	
Carpenters	Acoustical Worker	$83.21	**15J**	**11U**	
Carpenters	Bridge Dock and Wharf Carpenter	$84.81	**15J**	**11U**	**9L**
Carpenters	Bridge, Dock & Wharf Carpenter	$80.50	**15J**	**4C**	
Carpenters	Floor Layer & Floor Finisher	$83.21	**15J**	**11U**	
Carpenters	General Carpenter	$83.21	**15J**	**11U**	
Carpenters	Scaffold Erector	$83.21	**15J**	**11U**	
Cement Masons	Journey Level	$58.03	**7B**	**1N**	
Divers & Tenders	Bell/Vehicle/Submersible Operator (not under pressure)	$144.72	**15J**	**11T**	**9I**
Divers & Tenders	Dive Supervisor	$146.22	**15J**	**11T**	**9I**
Divers & Tenders	Diver	$144.72	**15J**	**11T**	**9I**
Divers & Tenders	Diver Tender	$91.05	**15J**	**11T**	**9I**
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	$114.73	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker	$124.28	**15J**	**11U**	

	30.01-44.00 PSI				
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	$133.82	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	$143.37	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	$152.91	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	$162.46	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	$172.00	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	$181.55	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	$191.09	**15J**	**11U**	
Divers & Tenders	Lead Diver (Dive Master)	$105.51	**15J**	**11T**	**9I**
Divers & Tenders	Manifold Operator (Life Support Technician)	$96.05	**15J**	**11U**	**9I**
Divers & Tenders	Remote Operated Vehicle	$91.05	**15J**	**11T**	**9I**

	Operator/Technician				
Divers & Tenders	Remote Operated Vehicle Operator/Technician	$91.05	**15J**	**11U**	**9I**
Divers & Tenders	Remote Operated Vehicle Tender	$84.75	**15J**	**11T**	**9I**
Divers & Tenders	Stand-by Diver	$100.51	**15J**	**11T**	**9I**
Dredge Workers	Assistant Engineer	$89.47	**5D**	**3F**	
Dredge Workers	Assistant Mate (Deckhand)	$88.78	**5D**	**3F**	
Dredge Workers	Boatmen	$89.47	**5D**	**3F**	
Dredge Workers	Engineer Welder	$91.20	**5D**	**3F**	
Dredge Workers	Leverman, Hydraulic	$93.03	**5D**	**3F**	
Dredge Workers	Mates	$89.47	**5D**	**3F**	
Dredge Workers	Oiler	$88.78	**5D**	**3F**	
Drywall Applicator	Journey Level	$81.71	**15O**	**11S**	
Drywall Tapers	Journey Level	$81.71	**15O**	**11S**	
Electrical Fixture Maintenance Workers	Journey Level	$17.13		**1**	
Electricians - Inside	Cable Splicer	$100.52	**7H**	**1E**	

Electricians - Inside	Construction Stock Person	$48.08	**7H**	**1D**	
Electricians - Inside	Journey Level	$94.06	**7H**	**1E**	
Electricians - Motor Shop	Craftsman	$17.13		**1**	
Electricians - Motor Shop	Journey Level	$17.13		**1**	
Electricians - Powerline Construction	Cable Splicer	$107.31	**5A**	**4D**	
Electricians - Powerline Construction	Certified Line Welder	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Groundperson	$61.75	**5A**	**4D**	
Electricians - Powerline Construction	Heavy Line Equipment Operator	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Journey Level Lineperson	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Line Equipment Operator	$84.18	**5A**	**4D**	
Electricians - Powerline Construction	Meter Installer	$61.75	**5A**	**4D**	**8W**
Electricians - Powerline Construction	Pole Sprayer	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Powderperson	$72.81	**5A**	**4D**	

Electronic Technicians	Electronic Technicians Journey Level	$62.05	**5B**	**1B**	
Elevator Constructors	Mechanic	$119.17	**7D**	**4A**	
Elevator Constructors	Mechanic In Charge	$128.95	**7D**	**4A**	
Fabricated Precast Concrete Products	Journey Level	$17.13		**1**	
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$17.13		**1**	
Fence Erectors	Fence Erector	$58.19	**7B**	**1M**	**8Z**
Flaggers	Journey Level	$55.01	**7B**	**1M**	**8Z**
Glaziers	Journey Level	$48.20	**7L**	**4L**	
Heat & Frost Insulators And Asbestos Workers	Journey Level	$96.42	**15H**	**11C**	
Heating Equipment Mechanics	Journey Level	$80.38	**6Z**	**1B**	
Hod Carriers & Mason Tenders	Journey Level	$56.30	**7B**	**1M**	**8Z**
Industrial Power Vacuum Cleaner	Journey Level	$17.13		**1**	
Inland Boatmen	Journey Level	$17.13		**1**	
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$17.13		**1**	

Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$17.13		**1**	
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$17.13		**1**	
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$17.13		**1**	
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$17.13		**1**	
Insulation Applicators	Journey Level	$83.21	**15J**	**11U**	
Ironworkers	Journeyman	$78.44	**15K**	**11N**	
Laborers	Air And Hydraulic Track Drill	$58.87	**7B**	**1M**	**8Z**
Laborers	Asphalt Raker	$58.87	**7B**	**1M**	**8Z**
Laborers	Asphalt Roller, Walking	$58.53	**7B**	**1M**	**8Z**
Laborers	Brick Pavers	$58.19	**7B**	**1M**	**8Z**
Laborers	Brush Hog Feeder	$58.19	**7B**	**1M**	**8Z**
Laborers	Brush Machine	$58.87	**7B**	**1M**	**8Z**
Laborers	Caisson Worker, Free Air	$58.87	**7B**	**1M**	**8Z**

Laborers	Carpenter Tender	$58.19	**7B**	**1M**	**8Z**
Laborers	Cement Finisher Tender	$58.87	**7B**	**1M**	**8Z**
Laborers	Cement Handler	$58.87	**7B**	**1M**	**8Z**
Laborers	Chain Saw Operator & Faller	$58.87	**7B**	**1M**	**8Z**
Laborers	Clean-up Laborer	$58.19	**7B**	**1M**	**8Z**
Laborers	Compaction Equipment	$58.53	**7B**	**1M**	**8Z**
Laborers	Concrete Crewman	$58.87	**7B**	**1M**	**8Z**
Laborers	Concrete Saw, Walking	$58.87	**7B**	**1M**	**8Z**
Laborers	Concrete Signalman	$58.87	**7B**	**1M**	**8Z**
Laborers	Concrete Stack	$58.87	**7B**	**1M**	**8Z**
Laborers	Confined Space Attendant	$58.19	**7B**	**1M**	**8Z**
Laborers	Construction Specialist	$59.09	**7B**	**1M**	**8Z**
Laborers	Crusher Feeder	$58.19	**7B**	**1M**	**8Z**
Laborers	Demolition	$58.19	**7B**	**1M**	**8Z**
Laborers	Demolition Torch	$58.53	**7B**	**1M**	**8Z**
Laborers	Dope Pot Fireman, Non-mechanical	$58.53	**7B**	**1M**	**8Z**

Laborers	Driller Helper (when Required To Move & Position Machine)	$58.53	**7B**	**1M**	**8Z**
Laborers	Drills With Dual Masts	$59.22	**7B**	**1M**	**8Z**
Laborers	Dry Stack Walls	$58.19	**7B**	**1M**	**8Z**
Laborers	Dumpman	$58.19	**7B**	**1M**	**8Z**
Laborers	Erosion Control Laborer	$58.19	**7B**	**1M**	**8Z**
Laborers	Firewatch	$58.19	**7B**	**1M**	**8Z**
Laborers	Form Cleaning Machine Feeder, Stacker	$58.19	**7B**	**1M**	**8Z**
Laborers	Form Setter, Paving	$58.87	**7B**	**1M**	**8Z**
Laborers	General Laborer	$58.19	**7B**	**1M**	**8Z**
Laborers	Grade Checker	$61.35	**7B**	**1M**	**8Z**
Laborers	Grout Machine Header Tender	$58.19	**7B**	**1M**	**8Z**
Laborers	Guard Rail	$58.19	**7B**	**1M**	**8Z**
Laborers	Gunite	$58.87	**7B**	**1M**	**8Z**
Laborers	Hazardous Waste Worker (level A)	$59.22	**7B**	**1M**	**8Z**
Laborers	Hazardous Waste Worker (level B)	$58.87	**7B**	**1M**	**8Z**

Laborers	Hazardous Waste Worker (level C)	$58.53	**7B**	**1M**	**8Z**
Laborers	Hazardous Waste Worker (level D)	$58.19	**7B**	**1M**	**8Z**
Laborers	Hdpe Or Similar Liner Installer	$58.19	**7B**	**1M**	**8Z**
Laborers	High Scaler	$58.87	**7B**	**1M**	**8Z**
Laborers	Industrial Technician	$75.50	**7B**	**1M**	**8Z**
Laborers	Jackhammer Operator Miner, Class "b"	$58.53	**7B**	**1M**	**8Z**
Laborers	Laser Beam Operator	$58.87	**7B**	**1M**	**8Z**
Laborers	Miner, Class "a"	$58.19	**7B**	**1M**	**8Z**
Laborers	Miner, Class "c"	$58.87	**7B**	**1M**	**8Z**
Laborers	Miner, Class "d"	$59.22	**7B**	**1M**	**8Z**
Laborers	Monitor Operator, Air Track Or Similar Mounting	$58.87	**7B**	**1M**	**8Z**
Laborers	Mortar Mixer	$58.87	**7B**	**1M**	**8Z**
Laborers	Nipper	$58.19	**7B**	**1M**	**8Z**
Laborers	Nozzleman	$58.87	**7B**	**1M**	**8Z**

Laborers	Nozzleman, Water (to Include Fire Hose), Air Or Steam	$58.53	**7B**	**1M**	**8Z**
Laborers	Pavement Breaker, 90 Lbs. & Over	$58.87	**7B**	**1M**	**8Z**
Laborers	Pavement Breaker, Under 90 Lbs.	$58.53	**7B**	**1M**	**8Z**
Laborers	Pilot Car	$55.01	**7B**	**1M**	**8Z**
Laborers	Pipelayer	$58.87	**7B**	**1M**	**8Z**
Laborers	Pipelayer, Corrugated Metal Culvert And Multi-Plate	$58.87	**7B**	**1M**	**8Z**
Laborers	Pipewrapper	$58.87	**7B**	**1M**	**8Z**
Laborers	Plasterer Tenders	$58.87	**7B**	**1M**	**8Z**
Laborers	Pot Tender	$58.53	**7B**	**1M**	**8Z**
Laborers	Powderman	$60.94	**7B**	**1M**	**8Z**
Laborers	Powederman Helper	$58.53	**7B**	**1M**	**8Z**
Laborers	Power Buggy Operator	$58.53	**7B**	**1M**	**8Z**
Laborers	Power Tool Operator, Gas, Electric, Pneumatic	$58.53	**7B**	**1M**	**8Z**
Laborers	Rad-Con Technician	$75.50	**7B**	**1M**	**8Z**

Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	$58.53	**7B**	**1M**	**8Z**
Laborers	Railroad Power Spiker Or Puller, Dual Mobile	$58.53	**7B**	**1M**	**8Z**
Laborers	Remote Equipment Operator	$59.22	**7B**	**1M**	**8Z**
Laborers	Remote Equipment Operator (i.e Compaction And Demolition)	$58.53	**7B**	**1M**	**8Z**
Laborers	Rigger/signal Person	$58.53	**7B**	**1M**	**8Z**
Laborers	Riprap Person	$58.19	**7B**	**1M**	**8Z**
Laborers	Rodder & Spreader	$58.87	**7B**	**1M**	**8Z**
Laborers	Sand Hogs Under Compressed Air Conditions	$329.90	**7B**	**1M**	**8Z**
Laborers	Sandblast Tailhoseman	$58.19	**7B**	**1M**	**8Z**
Laborers	Scaffold Erector, Wood Or Steel	$58.19	**7B**	**1M**	**8Z**
Laborers	Scaleman	$55.01	**7B**	**1M**	**8Z**
Laborers	Stake Jumper	$58.19	**7B**	**1M**	**8Z**
Laborers	Structural Mover	$58.19	**7B**	**1M**	**8Z**

Laborers	Tailhoseman (water Nozzle)	$58.19	**7B**	**1M**	**8Z**
Laborers	Timber Bucker & Faller (by Hand)	$58.19	**7B**	**1M**	**8Z**
Laborers	Track Laborer (rr)	$58.19	**7B**	**1M**	**8Z**
Laborers	Traffic Control Laborer	$55.01	**7B**	**1M**	**8Z**
Laborers	Traffic Control Supervisor	$58.19	**7B**	**1M**	**8Z**
Laborers	Trencher, Shawnee	$58.53	**7B**	**1M**	**8Z**
Laborers	Trenchless Technology Technician	$58.87	**7B**	**1M**	**8Z**
Laborers	Truck Loader	$58.19	**7B**	**1M**	**8Z**
Laborers	Truck Mounted Attenuator	$55.01	**7B**	**1M**	**8Z**
Laborers	Tugger Operator	$58.53	**7B**	**1M**	**8Z**
Laborers	Vibrators, All	$58.87	**7B**	**1M**	**8Z**
Laborers	Wagon Drills	$58.53	**7B**	**1M**	**8Z**
Laborers	Water Pipe Liner	$58.53	**7B**	**1M**	**8Z**
Laborers	Welder, Electrical, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	$59.22	**7B**	**1M**	**8Z**

Laborers	Well-point Person	$58.19	**7B**	**1M**	**8Z**
Laborers	Wheelbarrow, Power Driven	$58.53	**7B**	**1M**	**8Z**
Laborers	Window Washer, Cleaner	$55.01	**7B**	**1M**	**8Z**
Laborers - Underground Sewer & Water	General Laborer & Topman	$58.87	**7B**	**1M**	**8Z**
Laborers - Underground Sewer & Water	Pipe Layer	$58.87	**7B**	**1M**	**8Z**
Landscape Construction	Landscape Laborer	$55.01	**7B**	**1M**	**8Z**
Landscape Construction	Landscape Operator	$88.60	**15J**	**11G**	**8X**
Landscape Maintenance	Groundskeeper	$17.13		**1**	
Lathers	Journey Level	$81.71	**15O**	**11S**	
Marble Setters	Journey Level	$61.09	**5A**	**1M**	
Metal Fabrication (In Shop)	Fitter	$17.13		**1**	
Metal Fabrication (In Shop)	Laborer	$17.13		**1**	
Metal Fabrication (In Shop)	Machine Operator	$17.13		**1**	
Metal Fabrication (In Shop)	Painter	$17.13		**1**	
Metal Fabrication (In Shop)	Welder	$17.13		**1**	
Millwright	Journey Level	$80.28	**15J**	**4C**	

Modular Buildings	Journey Level	$17.13		**1**	
Painters	Commercial Painter	$49.90	**15P**	**11V**	
Painters	Industrial Painter	$57.22	**15P**	**11V**	**9D**
Pile Driver	Crew Tender	$80.50	**15J**	**11U**	**9L**
Pile Driver	Journey Level	$84.81	**15J**	**11U**	
Plasterers	Journey Level	$57.71	**7K**	**1N**	
Playground & Park Equipment Installers	Journey Level	$17.13		**1**	
Plumbers & Pipefitters	Journey Level	$100.41	**6Z**	**1Q**	
Power Equipment Operators	Asphalt Plant Operators	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Assistant Engineer	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Barrier Machine (zipper)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Batch Plant Operator: concrete	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Boat Operator	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators	Bobcat	$84.69	**15J**	**11G**	**8X**

Power Equipment Operators	Brokk - Remote Demolition Equipment	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Brooms	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Bump Cutter	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Cableways	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Chipper	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Compressor	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Finish Machine - Laser Screed	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Conveyors	$88.60	**15J**	**11G**	**8X**

Power Equipment Operators	Cranes Friction: 200 tons and over	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes, A-frame: 10 tons and under	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$89.09	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$90.00	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: Friction cranes through 199 tons	$90.00	**7A**	**11H**	**8X**

Power Equipment Operators	Cranes: through 19 tons with attachments, a-frame over 10 tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators	Crusher	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Deck Engineer/Deck Winches (power)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Derricks, On Building Work	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators	Dozers D-9 & Under	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Drilling Machine	$91.00	**15J**	**11G**	**8X**
Power Equipment Operators	Elevator and man-lift: permanent and shaft type	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Forklift: 3000 lbs and over with attachments	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Forklifts: under 3000 lbs. with attachments	$84.69	**15J**	**11G**	**8X**

Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Gradechecker/Stakeman	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Guardrail Punch	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Horizontal/Directional Drill Locator	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Horizontal/Directional Drill Operator	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators	Leverman	$91.94	**15J**	**11G**	**8X**

Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Overhead Under 6 Yards	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Plant Feed	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders: Elevating Type Belt	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Locomotives, All	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Material Transfer Device	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$91.00	**15J**	**11G**	**8X**
Power Equipment Operators	Motor Patrol Graders	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$84.69	**15J**	**11G**	**8X**

Power Equipment Operators	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 100 tons and over	$89.09	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators	Pavement Breaker	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Pile Driver (other Than Crane Mount)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Posthole Digger, Mechanical	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Power Plant	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Pumps - Water	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Quad 9, Hd 41, D10 And Over	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Quick Tower: no cab, under 100 feet in height	$89.28	**15J**	**11G**	**8X**

	base to boom				
Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Rigger and Bellman	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators	Rollagon	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Other Than Plant Mix	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Roto-mill, Roto-grinder	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Saws - Concrete	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers - Concrete & Carry All	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$90.09	**15J**	**11G**	**8X**

Power Equipment Operators	Service Engineers: Equipment	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Shotcrete/Gunite Equipment	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$91.00	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$91.94	**15J**	**11G**	**8X**
Power Equipment Operators	Slipform Pavers	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Spreader, Topsider & Screedman	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Subgrader Trimmer	$89.28	**15J**	**11G**	**8X**

Power Equipment Operators	Tower Bucket Elevators	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	$90.00	**7A**	**11H**	**8X**
Power Equipment Operators	Tower crane: up to 175' in height base to boom	$89.09	**7A**	**11H**	**8X**
Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators	Transporters, All Track Or Truck Type	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators	Trenching Machines	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators	Truck crane oiler/driver: under 100 tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators	Truck Mount Portable Conveyor	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Vac Truck (Vactor Guzzler, Hydro Excavator)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators	Welder	$90.09	**15J**	**11G**	**8X**

Power Equipment Operators	Wheel Tractors, Farmall Type	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators	Yo Yo Pay Dozer	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Boat Operator	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Bobcat	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground	Brooms	$84.69	**15J**	**11G**	**8X**

Sewer & Water					
Power Equipment Operators- Underground Sewer & Water	Bump Cutter	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cableways	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Chipper	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Compressor	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine - Laser Screed	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$89.28	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Conveyors	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes, A-frame: 10 tons and under	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$89.09	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$90.00	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$88.20	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$90.00	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, a-frame over 10 tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Crusher	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Deck Engineer/Deck Winches (power)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Drilling Machine	$91.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	$84.69	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Gradechecker/Stakeman	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Guardrail Punch	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$89.28	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Locator	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Operator	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Leverman	$91.94	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	$88.60	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Locomotives, All	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$91.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Motor Patrol Graders	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 100 tons and over	$89.09	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	$88.20	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Power Plant	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pumps - Water	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height base to boom	$89.28	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	$82.95	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rollagon	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	$88.60	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shotcrete/Gunite Equipment	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$91.00	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$91.94	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	$90.00	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower crane: up to 175' in height base to boom	$89.09	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	$90.88	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	$90.09	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Trenching Machines	$88.60	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	$87.42	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	$86.75	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Vac Truck (Vactor Guzzler, Hydro Excavator)	$89.28	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Welder	$90.09	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	$84.69	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	$89.28	**15J**	**11G**	**8X**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$69.62	**5A**	**4A**	

Power Line Clearance Tree Trimmers	Spray Person	$65.89	**5A**	**4A**
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$69.62	**5A**	**4A**
Power Line Clearance Tree Trimmers	Tree Trimmer	$62.19	**5A**	**4A**
Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$45.93	**5A**	**4A**
Refrigeration & Air Conditioning Mechanics	Journey Level	$100.41	**6Z**	**1Q**
Residential Brick Mason	Journey Level	$34.97		**1**
Residential Carpenters	Journey Level	$28.88		**1**
Residential Cement Masons	Journey Level	$20.67		**1**
Residential Drywall Applicators	Journey Level	$30.96		**1**
Residential Drywall Tapers	Journey Level	$21.22		**1**
Residential Electricians	Journey Level	$48.59	**7F**	**1D**
Residential Glaziers	Journey Level	$21.22		**1**
Residential Insulation Applicators	Journey Level	$21.22		**1**
Residential Laborers	Journey Level	$20.46		**1**
Residential Marble Setters	Journey Level	$34.97		**1**

Residential Painters	Journey Level	$21.22		**1**
Residential Plumbers & Pipefitters	Journey Level	$28.62		**1**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$19.50		**1**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$80.38	**5I**	**1B**
Residential Soft Floor Layers	Journey Level	$25.50		**1**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$18.40		**1**
Residential Stone Masons	Journey Level	$34.97		**1**
Residential Terrazzo Workers	Journey Level	$17.13		**1**
Residential Terrazzo/Tile Finishers	Journey Level	$22.48		**1**
Residential Tile Setters	Journey Level	$17.13		**1**
Roofers	Journey Level	$50.06	**5I**	**1R**
Roofers	Using Irritable Bituminous Materials	$52.06	**5I**	**1R**
Sheet Metal Workers	Journey Level (Field or Shop)	$80.38	**6Z**	**1B**

Sign Makers & Installers (Electrical)	Journey Level	$103.56	**7F**	**1E**	
Sign Makers & Installers (Non-Electrical)	Journey Level	$17.13		**1**	
Soft Floor Layers	Journey Level	$62.66	**7C**	**3J**	
Solar Controls For Windows	Journey Level	$17.13		**1**	
Sprinkler Fitters (Fire Protection)	Journey Level	$76.94	**7J**	**1R**	
Stage Rigging Mechanics (Non Structural)	Journey Level	$17.13		**1**	
Stone Masons	Journey Level	$61.09	**5A**	**1M**	
Street And Parking Lot Sweeper Workers	Journey Level	$17.13		**1**	
Surveyors	Assistant Construction Site Surveyor	$86.75	**7A**	**11H**	**8X**
Surveyors	Chainman	$82.95	**7A**	**11H**	**8X**
Surveyors	Construction Site Surveyor	$88.20	**7A**	**11H**	**8X**
Surveyors	Drone Operator (when used in conjunction with survey work only)	$82.95	**7A**	**11H**	**8X**
Surveyors	Ground Penetrating Radar Operator	$82.95	**7A**	**11H**	**8X**

Telecommunication Technicians	Telecom Technician Journey Level	$62.05	**5B**	**1B**
Telephone Line Construction - Outside	Cable Splicer	$42.62	**5A**	**2B**
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.97	**5A**	**2B**
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$35.60	**5A**	**2B**
Telephone Line Construction - Outside	Telephone Lineperson	$40.28	**5A**	**2B**
Terrazzo Workers	Journey Level	$43.81	**5A**	**1M**
Tile Setters	Journey Level	$43.81	**5A**	**1M**
Tile, Marble & Terrazzo Finishers	Journey Level	$35.93	**5A**	**1M**
Traffic Control Stripers	All cleanup required in connection with traffic control stripers work (Group 1)	$95.41	**15L**	**1K**
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and any other type sign (Group 2)	$55.54	**15L**	**1K**
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$55.54	**15L**	**1K**

Traffic Control Stripers	Installation of parking gates, ticket spitters and other mechanical and automatic control devices (Group 2)	$55.54	**15L**	**1K**
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$95.41	**15L**	**1K**
Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$95.41	**15L**	**1K**
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$55.54	**15L**	**1K**
Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control devices/barricades (Group 2)	$55.54	**15L**	**1K**
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking	$95.41	**15L**	**1K**

	lots, air fields, highways, game courts (Group 1)				
Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$95.41	**15L**	**1K**	
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$55.54	**15L**	**1K**	
Truck Drivers	Asphalt Mix Over 20 Yards	$66.73	**5D**	**1V**	**8M**
Truck Drivers	Asphalt Mix To 20 Yards	$66.52	**5D**	**1V**	**8M**
Truck Drivers	Dump Truck	$66.52	**5D**	**1V**	**8M**
Truck Drivers	Dump Truck & Trailer	$66.73	**5D**	**1V**	**8M**
Truck Drivers	Other Trucks	$62.14	**5D**	**1V**	**8M**
Truck Drivers - Ready Mix	Transit Mixers 20 yards and under	$66.73	**5D**	**1V**	**8M**
Truck Drivers - Ready Mix	Transit Mixers over 20 yards	$67.10	**5D**	**1V**	**8M**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$17.13		**1**	
Well Drillers & Irrigation Pump Installers	Oiler	$17.13		**1**	

Well Drillers & Irrigation Pump Installers	Well Driller	$18.00	**1**

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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.

Overtime Codes Continued

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.

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.

X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.

Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.

Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

   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.

   M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double 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.

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.

   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.

   J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a 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.

   K. 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 5 am to 6pm 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, and all hours worked in excess of twelve (12) hours in a single shift 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. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

Overtime Codes Continued

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

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.

D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:
On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.

S. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, work performed in excess of (10) hours shall be paid at one and one half (1-1/2) times the hourly rate of pay. On Monday through Friday, work performed outside the normal work hours of 6:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations).

All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Multiple Shift Operations: When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. Special Shifts: The Special Shift Premium is the basic hourly rate of pay plus $2.00 an hour. When due to conditions beyond the control of the employer or when an owner (not acting as the contractor), a government agency or the contract specifications require more than four (4) hours of a special shift can only be performed outside the normal 6am to 6pm shift then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid the special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday).

U. 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. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. X. 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. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

   The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

   When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

   When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

11. 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 After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   C The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

   D. All hours worked on Saturdays and holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

11. F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one-half times the hourly rate of wage for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. 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 5 am to 6pm 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, and all hours worked in excess of twelve (12) hours in a single shift 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 nine (9) hours or more. When an employee returns to work without at least nine (9) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the nine (9) hours rest period.

H. 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 5 am to 6pm 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, and all hours worked in excess of twelve (12) hours in a single shift 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 ten (10) hours or more. When an employee returns to work without at least ten (10) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the ten (10) hours rest period.

J. All hours worked on holidays shall be paid at double the hourly rate of wage.

K. On Monday through Friday hours worked outside 4:00 am and 5:00 pm, and the first two (2) hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked over 10 hours per day Monday through Friday, and all hours worked on Saturdays, Sundays, and Holidays worked shall be paid at double the hourly rate of wage.

L. An employee working outside 5:00 am and 5:00 pm shall receive an additional two dollar ($2.00) per hour for all hours worked that shift. All hours worked on holidays shall be paid at one and one-half 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.

Overtime Codes Continued

11. M. 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.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 am to 6:00 pm, then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shift shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten shifts.

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. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.

Shift Pay Premium: In an addition to any overtime already required, all hours worked between the hours of 6:00 pm and 5:00 am shall receive an additional two dollars ($2.00) per hour.

N. All work performed over twelve hours in a shift and all work performed on Sundays and Holidays shall be paid at double the straight time rate.

Any time worked over eight (8) hours on Saturday shall be paid double the straight time rate, except employees assigned to work six 10-hour shifts per week shall be paid double the straight time rate for any time worked on Saturday over 10 hours.

O. All work performed on Saturdays, Sundays, and Holidays shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Overtime Codes Continued

11. P. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 a.m. to 6:00 p.m., then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shifts shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten-hour shifts.

In the event the job is down due to weather conditions, 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 work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

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.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Q. 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 35% over the hourly rate of wage. Work performed on Sundays shall be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

R On Monday through Saturday hours worked outside 6:00 am and 7:00 pm, and all hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

When a holiday falls on a Saturday, the Friday before shall be the observed holiday. When a holiday falls on a Sunday, the following Monday shall be the observed holiday.

S. The first ten (10) 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, or other conditions beyond the control of the Employer, then Saturday may be worked at the straight time rate, for the first eight (8) hours, or the first ten (10) hours when a four day ten hour workweek has been established.

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.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

11. T. 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.

U. 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.

If, due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift, then a Special Shift may be worked, Monday through Friday, at the straight-time rate. The starting time of work for the Special Shift will be arranged to fit such conditions of work. Such Special Shift shall consist of eight (8) hours of work for eight (8) hours of pay or ten (10) hours of work for ten(10) hours of pay on a four-ten workday schedule.

V. 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.

W. 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 6 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed on Sundays 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.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).

C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).

H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).

L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).

N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.

Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).

S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Holiday Codes Continued

6. G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).

T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

Holiday Codes Continued

7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

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.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

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.

V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.

Holiday Codes Continued

7. X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.

Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, Christmas Eve, and Christmas Day (9). Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday. Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (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.

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, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, and Christmas Day (9). 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.

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, Independence Day, Labor Day, Veteran's 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. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

M. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day and Christmas Day (9). 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.

Holiday Codes Continued

15. N. 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). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

O. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, the day before Christmas day, and Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

P. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve 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.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.

N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: $2.00, Class B Suit: $1.50, And Class C Suit: $1.00. Workers performing underground work receive an additional $0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional $0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do "pioneer" work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional $0.50 per hour.

Note Codes Continued

8. V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

   Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

   Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

   W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

   X. 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. Special Shift Premium: Basic hourly rate plus $2.00 per hour.

   When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

   Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

   Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

   Z. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

   Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Note Codes Continued

9. A. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130’ to 199’ – $0.50 per hour over their classification rate.
(B) – 200’ to 299’ – $0.80 per hour over their classification rate.
(C) – 300’ and over – $1.00 per hour over their classification rate.

B. 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.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

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.

D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. 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.

Note Codes Continued

9. F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

H. One (1) person crew shall consist of a Party Chief. (Total Station or similar one (1) person survey system). Two (2) person survey party shall consist of a least a Party Chief and a Chain Person. Three (3) person survey party shall consist of at least a Party Chief, an Instrument Person, and a Chain Person.

I. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

Employees may be required to perform any combination of work within the Diving team/crew, (with the exception of dive Supervisor) provided they are paid at the highest rate at which he/she has worked for the shift.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

M. Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $1.50 per hour above their classification rate.

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.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)